

GENE	CHR	START	STOP	NSNPS	NPARAM	N	ZSTAT	P	Gene		
ENSG00000159314	17	43461275	43521787	178	14	47193	5.9669	1.21E-09	ARHGAP27	GENE = Ensemble Gene ID CHR = Chromosome NSNPS = Number of SNPs NPARAM = number of parameters N= Sample Size ZSTAT = Z-Statistic P= P-value Gene = Gene name	
ENSG00000225190	17	43503266	43578115	212	10	45401	5.7189	5.36E-09	PLEKHM1		
ENSG00000124207	20	47652849	47723489	219	19	49975	5.4487	2.54E-08	CSE1L		
ENSG00000212673	1	32369174	32390745	37	11	43536	5.4262	2.88E-08	AL136115.1		
ENSG00000164068	3	49716932	49768962	85	16	54019	5.2441	7.85E-08	RNF123		
ENSG00000184007	1	32362022	32420457	97	21	40984	5.0562	2.14E-07	PTP4A2		
ENSG00000176095	3	49751727	49833975	155	15	53536	5.0498	2.21E-07	IP6K1		
ENSG00000176020	3	49744267	49771349	52	9	54619	5.0495	2.22E-07	AMIGO3		
ENSG00000173540	3	49744277	49771384	52	9	54619	5.0495	2.22E-07	GMPPB		
ENSG00000108433	17	44990483	45115003	461	42	48872	4.9383	3.94E-07	GOSR2		
ENSG00000164161	4	1.46E+08	1.46E+08	236	24	39924	4.862	5.81E-07	HHIP		
ENSG00000262633	17	44990499	45134520	513	45	48439	4.8552	6.01E-07	RP11-156P1.2		
ENSG00000179673	17	45045523	45066614	106	14	49366	4.7287	1.13E-06	RPRML		
ENSG00000124198	20	47528427	47663230	391	29	46471	4.6958	1.33E-06	ARFGEF2		
ENSG00000244486	22	20768874	20802146	122	24	49669	4.6557	1.61E-06	SCARF2		
ENSG00000233276	3	49384609	49406033	37	9	51646	4.6051	2.06E-06	GPX1		
ENSG00000187492	3	49818165	49847268	51	12	50136	4.6036	2.08E-06	CDHR4		
ENSG00000138780	4	1.07E+08	1.07E+08	406	22	46928	4.567	2.47E-06	GSTCD		
ENSG00000007312	17	61996100	62019714	65	11	49972	4.5557	2.61E-06	CD79B		
ENSG00000185614	3	49830687	49852463	31	8	49711	4.5543	2.63E-06	FAM212A		
ENSG00000138785	4	106593784	106827143	607	33	44272	4.5465	2.73E-06	INTS12		
ENSG00000145868	5	147753498	147832399	154	20	42649	4.5338	2.90E-06	FBXO38		
ENSG00000173531	3	49711380	49736934	31	9	51358	4.5227	3.05E-06	MST1		
ENSG00000182179	3	49832640	49861379	44	11	49348	4.5009	3.38E-06	UBA7		
ENSG00000254318	8	94136324	94189079	145	26	55922	4.4246	4.83E-06	C8orf87		
ENSG00000188483	9	131927835	131950540	44	12	40546	4.4029	5.34E-06	IER5L		
ENSG00000107679	10	124124212	124201867	231	25	53876	4.3845	5.81E-06	PLEKHA1		
ENSG00000183763	3	49856034	49904007	76	14	48094	4.3706	6.20E-06	TRAIP		
ENSG00000124214	20	47719878	47814904	248	24	45658	4.3139	8.02E-06	STAU1		
ENSG00000169218	1	38066951	38110595	128	26	48615	4.2532	1.05E-05	RSPO1		
ENSG00000145022	3	49439639	49463908	42	7	47725	4.237	1.13E-05	TCTA		
ENSG00000164061	3	49581922	49718978	210	21	47165	4.2026	1.32E-05	BSN		
ENSG00000151465	10	12227964	12302588	220	29	46127	4.1921	1.38E-05	CDC123		
ENSG00000258708	14	37631093	37653016	47	10	38856	4.1506	1.66E-05	SLC25A21-AS1		
ENSG00000164142	4	152320368	152594784	676	32	51331	4.1365	1.76E-05	FAM160A1		

ENSG00000052841	11	43370482	43526483	384	52	53247	4.1161	1.93E-05	<i>TTC17</i>		
ENSG00000198860	1	184010811	184053346	67	13	51308	4.0906	2.15E-05	<i>TSEN15</i>		
ENSG00000143520	1	152311211	152342482	46	7	27514	4.0891	2.17E-05	<i>FLG2</i>		
ENSG00000145029	3	49450379	49476759	52	10	43977	4.0716	2.33E-05	<i>NICN1</i>		
ENSG00000185920	9	98195262	98289339	242	32	47598	4.0434	2.63E-05	<i>PTCH1</i>		
ENSG00000067560	3	49386578	49460431	150	15	46944	4.038	2.70E-05	<i>RHOA</i>		
ENSG00000179344	6	32617244	32646160	1001	33	45126	4.0365	2.71E-05	<i>HLA-DQB1</i>		
ENSG00000143631	1	152264651	152307679	126	11	25951	4.0009	3.16E-05	<i>FLG</i>		
ENSG00000176124	13	50646307	51307372	1778	187	49605	4.0001	3.17E-05	<i>DLEU1</i>		
ENSG00000145020	3	49444211	49470186	44	8	42779	3.9895	3.31E-05	<i>AMT</i>		
ENSG00000066336	11	47366411	47410127	144	19	43439	3.965	3.67E-05	<i>SPI1</i>		
ENSG00000118007	3	136045077	136481220	797	58	48806	3.9447	3.99E-05	<i>STAG1</i>		
ENSG00000138813	4	100422161	100473460	249	34	42542	3.938	4.11E-05	<i>C4orf17</i>		
ENSG00000167130	9	131833379	131862717	56	10	40593	3.9364	4.14E-05	<i>DOLPP1</i>		
ENSG00000156218	15	84312838	84718594	1166	80	41849	3.9153	4.51E-05	<i>ADAMTSL3</i>		
ENSG00000145331	4	100457866	100495189	173	17	44549	3.8734	5.37E-05	<i>TRMT10A</i>		
ENSG00000151338	14	37657118	38031566	851	59	43723	3.8696	5.45E-05	<i>MIPOL1</i>		
ENSG00000164162	4	145878264	146029693	175	29	40493	3.8623	5.62E-05	<i>ANAPC10</i>		
ENSG00000108379	17	44829872	44920520	163	40	38495	3.844	6.05E-05	<i>WNT3</i>		
ENSG00000236699	4	106463777	106639250	510	62	43501	3.8331	6.33E-05	<i>ARHGEF38</i>		
ENSG00000205177	11	33709807	33732347	91	26	45135	3.8247	6.55E-05	<i>C11orf91</i>		
ENSG00000143536	1	152371719	152396739	49	8	34182	3.8101	6.95E-05	<i>CRNN</i>		
ENSG00000187045	22	37451476	37515603	229	40	49995	3.8018	7.18E-05	<i>TMPRSS6</i>		
ENSG00000131508	5	138896016	139018018	256	25	50365	3.798	7.29E-05	<i>UBE2D2</i>		
ENSG00000166181	11	43323513	43376079	102	25	49752	3.7975	7.31E-05	<i>API5</i>		
ENSG00000111011	12	122979190	123021547	80	13	51477	3.7802	7.83E-05	<i>RSRC2</i>		
ENSG00000165915	11	47418683	47448047	78	11	47316	3.7755	7.98E-05	<i>SLC39A13</i>		
ENSG00000173898	11	66442719	66506697	67	27	49227	3.757	8.60E-05	<i>SPTBN2</i>		
ENSG00000138138	10	89501269	89611100	229	17	50926	3.7497	8.85E-05	<i>ATAD1</i>		
ENSG00000072958	19	16298389	16356160	215	15	30438	3.7387	9.25E-05	<i>AP1M1</i>		
ENSG00000173402	3	49496146	49583048	154	16	45590	3.7365	9.33E-05	<i>DAG1</i>		
ENSG00000118508	6	146854829	146886101	50	14	42103	3.7295	9.59E-05	<i>RAB32</i>		
ENSG00000119383	9	131863229	131921225	154	11	37403	3.7291	9.61E-05	<i>PPP2R4</i>		
ENSG00000164330	5	158112928	158536769	892	116	49529	3.7269	9.69E-05	<i>EBF1</i>		
ENSG00000176720	2	242488136	242523546	139	31	41398	3.7223	9.87E-05	<i>BOK</i>		
ENSG00000114054	3	135959148	136066738	178	26	47799	3.7217	9.90E-05	<i>PCCB</i>		

ENSG00000163257	4	17792278	17822381	73	11	41727	3.6983	0.00010851	DCAF16		
ENSG00000109610	4	24781534	24812464	81	15	41096	3.6759	0.00011849	SOD3		
ENSG00000163877	1	37990050	38029903	90	16	51047	3.6733	0.00011971	SNIP1		
ENSG00000165916	11	47430320	47457993	87	10	45651	3.6733	0.00011972	PSMC3		
ENSG00000033030	12	122947417	122995518	97	15	49705	3.6578	0.00012719	ZCCHC8		
ENSG00000140600	15	84105980	84297495	489	91	45958	3.6555	0.00012833	SH3GL3		
ENSG00000185002	6	117188375	117263326	274	19	45292	3.6413	0.00013564	RFX6		
ENSG00000168944	5	122670579	122769286	347	22	52545	3.6079	0.00015434	CEP120		
ENSG00000085063	11	33709807	33767991	215	40	46049	3.6055	0.00015575	CD59		
ENSG00000167194	16	30024655	30049057	46	6	50479	3.6032	0.00015718	C16orf92		
ENSG00000197915	1	152174558	152206669	117	10	27858	3.5815	0.00017078	HRNR		
ENSG00000171812	1	36550837	36600821	89	20	47106	3.5799	0.00017186	COL8A2		
ENSG00000136490	17	61763262	61788532	36	8	40639	3.5774	0.00017351	LIMD2		
ENSG00000243156	22	18260415	18517325	1149	113	47941	3.5723	0.0001769	MICAL3		
ENSG00000073969	17	44658035	44844830	76	13	28771	3.5642	0.00018251	NSF		
ENSG00000063761	14	78256426	78411355	748	78	46972	3.56	0.00018539	ADCK1		
ENSG00000259384	17	61984560	62006179	63	15	48937	3.5451	0.00019621	GH1		
ENSG00000108387	17	56587611	56628179	76	14	53640	3.5446	0.00019659	Sep-04		
ENSG00000154813	3	16289485	16316479	98	13	54026	3.5316	0.00020655	DPH3		
ENSG00000136463	17	61668231	61695725	16	7	49928	3.5289	0.00020866	TACO1		
ENSG00000009950	7	72997524	73048873	156	21	55480	3.5175	0.00021779	MLXIPL		
ENSG00000149926	16	30025748	30074299	85	10	47939	3.5125	0.00022192	FAM57B		
ENSG00000174579	3	135857764	135926083	86	21	50017	3.51	0.00022405	MSL2		
ENSG00000134697	1	38022417	38071536	128	19	49642	3.5081	0.00022566	GNL2		
ENSG00000167565	19	40936751	40960612	94	14	49229	3.4993	0.00023321	SERTAD3		
ENSG00000166797	15	64354758	64396217	109	16	35404	3.4971	0.00023514	FAM96A		
ENSG00000122375	10	88404314	88436605	184	25	48371	3.4969	0.00023534	OPN4		
ENSG00000095321	9	131847089	131883468	81	9	37898	3.4939	0.00023799	CRAT		
ENSG00000124201	20	47844483	47904963	260	19	36653	3.4933	0.0002385	ZNFX1		
ENSG00000136425	15	78386948	78433886	151	25	47327	3.4796	0.00025113	CIB2		
ENSG00000115252	2	182994763	183397919	1465	112	48372	3.479	0.00025165	PDE1A		
ENSG00000184347	5	168078745	168738133	2519	284	46297	3.46	0.00027007	SLIT3		
ENSG00000196735	6	32585956	32624839	2064	48	43781	3.4574	0.00027268	HLA-DQA1		
ENSG00000138823	4	100474918	100555156	397	39	47627	3.4524	0.00027784	MTTP		
ENSG00000140521	15	89849534	89888092	84	13	52413	3.4494	0.0002809	POLG		
ENSG00000088827	20	3657617	3697775	161	34	50724	3.442	0.00028872	SIGLEC1		

ENSG00000186367	5	129073772	129112425	113	19	47362	3.4399	0.00029095	KIAA1024L		
ENSG00000007314	17	62005914	62060278	136	28	40745	3.4394	0.00029148	SCN4A		
ENSG00000160305	21	47868812	47999926	560	50	48118	3.4375	0.00029353	DIP2A		
ENSG00000198909	17	61689775	61783663	129	12	42559	3.4338	0.00029764	MAP3K3		
ENSG00000140525	15	89777180	89870492	201	16	52207	3.4207	0.00031231	FANCI		
ENSG00000180900	8	144863090	144907549	110	27	45654	3.4135	0.00032063	SCRIB		
ENSG00000123600	2	172163919	172301312	307	39	50815	3.4097	0.00032512	METTL8		
ENSG00000149927	16	30006830	30044591	79	10	42700	3.409	0.000326	DOC2A		
ENSG00000164062	3	49701435	49731396	42	8	44151	3.4069	0.0003285	APEH		
ENSG00000099910	22	20773528	20860170	211	33	47162	3.405	0.00033078	KLHL22		
ENSG00000160310	21	48045079	48095036	186	28	53222	3.4043	0.00033168	PRMT2		
ENSG00000163879	1	38012520	38042458	83	17	51646	3.3987	0.00033852	DNALI1		
ENSG00000141741	17	37874749	37897040	39	9	30912	3.3879	0.00035212	MIEN1		
ENSG00000181013	17	56608948	56631729	49	12	48751	3.3868	0.00035361	C17orf47		
ENSG00000196782	4	140627907	141085338	1221	156	43329	3.385	0.00035591	MAML3		
ENSG00000172660	17	34126459	34201619	215	21	46291	3.3511	0.00040252	TAF15		
ENSG00000165609	10	12197324	12248143	146	26	49031	3.3495	0.00040475	NUDT5		
ENSG00000129965	11	2143768	2192439	147	33	45158	3.3468	0.00040878	INS-IGF2		
ENSG00000149932	16	29942206	29994373	76	8	48568	3.3444	0.00041234	TMEM219		
ENSG00000165671	5	176550026	176737216	484	38	39705	3.3378	0.0004223	NSD1		
ENSG00000134571	11	47342957	47384253	127	23	39070	3.3344	0.00042737	MYBPC3		
ENSG00000047662	4	17620929	17793135	506	32	43320	3.3224	0.00044625	FAM184B		
ENSG00000179950	8	144888514	144922029	61	17	49119	3.3213	0.00044804	PUF60		
ENSG00000167244	11	2140342	2180833	133	27	47671	3.3212	0.00044812	IGF2		
ENSG00000149922	16	30087114	30113208	36	11	53218	3.3149	0.00045837	TBX6		
ENSG00000115112	2	121964163	122052783	217	44	38648	3.3134	0.00046083	TFCP2L1		
ENSG00000109805	4	17802525	17856485	122	12	42657	3.3037	0.00047713	NCAPG		
ENSG00000173914	11	66422469	66455392	37	16	49186	3.298	0.00048685	RBM4B		
ENSG00000181690	8	57063463	57133883	142	23	53688	3.2978	0.0004873	PLAG1		
ENSG00000169064	3	166948075	167109134	451	44	51253	3.2932	0.00049522	ZBBX		
ENSG00000090238	16	30093635	30118236	37	13	50905	3.2858	0.00050839	YPEL3		
ENSG00000141736	17	37834167	37896679	114	17	35063	3.2709	0.00053596	ERBB2		
ENSG00000119705	14	78164414	78237447	328	29	51792	3.2708	0.0005362	SLIRP		
ENSG00000167216	18	44487455	44637658	472	46	54010	3.2686	0.00054044	KATNAL2		
ENSG00000156787	8	124044208	124174393	347	50	51399	3.2685	0.00054054	TBC1D31		
ENSG00000124228	20	47825884	47870614	163	16	39296	3.2609	0.00055526	DDX27		

ENSG00000100603	14	78173942	78237550	293	26	52404	3.26	0.000557	SNW1		
ENSG00000125686	17	37550538	37617539	140	13	32800	3.2599	0.00055735	MED1		
ENSG00000132671	20	23006057	23027314	65	10	48057	3.2568	0.00056344	SSTR4		
ENSG00000167967	16	2263567	2295743	72	16	45670	3.252	0.00057298	E4F1		
ENSG00000117245	1	20980507	21054510	264	67	43184	3.2487	0.0005797	KIF17		
ENSG00000092199	14	21667295	21747653	207	24	52842	3.2472	0.00058265	HNRNPC		
ENSG00000150750	11	111116707	111167126	156	23	50690	3.2453	0.00058666	C11orf53		
ENSG00000164164	4	146021990	146111313	96	24	39459	3.2409	0.00059572	OTUD4		
ENSG00000187456	17	34235070	34267777	105	10	50096	3.2391	0.00059961	RDM1		
ENSG00000268208	14	78217711	78238033	92	15	53171	3.2214	0.00063774	AC008372.1		
ENSG00000089225	12	114781736	114856247	254	50	49802	3.2191	0.00064289	TBX5		
ENSG00000071967	2	172368757	172424643	234	33	47499	3.2189	0.0006434	CYBRD1		
ENSG00000011304	19	787075	822327	158	33	46459	3.2187	0.00064381	PTBP1		
ENSG00000018510	2	178247372	178418564	431	26	48407	3.216	0.00065001	AGPS		
ENSG00000116044	2	178082323	178267425	442	47	42465	3.2159	0.00065017	NFE2L2		
ENSG00000172653	17	34171955	34205895	92	13	49039	3.2124	0.00065823	C17orf66		
ENSG00000197734	14	78217173	78246085	133	19	52531	3.2114	0.00066037	C14orf178		
ENSG00000167258	17	37607764	37731160	275	20	33563	3.2108	0.00066192	CDK12		
ENSG00000178726	20	23016270	23040378	59	13	45192	3.202	0.00068227	THBD		
ENSG00000176058	9	140076069	140108645	73	11	55173	3.2003	0.00068642	TPRN		
ENSG00000149930	16	29974962	30013582	65	9	42106	3.1948	0.00069966	TAOK2		
ENSG00000111885	6	119488374	119680926	814	55	50959	3.1899	0.00071151	MAN1A1		
ENSG00000198682	10	89409370	89517462	361	45	43025	3.1899	0.00071157	PAPSS2		
ENSG00000198657	11	124283807	124304789	112	10	50713	3.1855	0.00072262	OR8B4		
ENSG00000204922	11	62427745	62451159	36	7	54056	3.1829	0.00072916	C11orf83		
ENSG00000054116	1	36592173	36625098	57	10	42505	3.1761	0.00074629	TRAPPC3		
ENSG00000198945	6	130324844	130472594	445	51	40541	3.1738	0.00075231	L3MBTL3		
ENSG00000060718	1	103332023	103584052	1239	62	45903	3.173	0.00075433	COL11A1		
ENSG00000028528	15	64376322	64448289	148	18	37722	3.1721	0.00075671	SNX1		
ENSG00000173237	11	66732748	66754475	21	13	54219	3.1685	0.00076602	C11orf86		
ENSG00000108306	17	37405384	37568776	383	21	31875	3.1666	0.00077121	FBXL20		
ENSG00000178177	4	17832822	18033499	543	28	35685	3.166	0.00077275	LCORL		
ENSG00000145979	6	13256774	13338815	395	35	38014	3.1599	0.00078906	TBC1D7		
ENSG00000107249	9	3814127	4358392	2432	250	45241	3.1545	0.0008039	GLIS3		
ENSG00000161570	17	34188495	34217797	87	14	49220	3.1522	0.00081023	CCL5		
ENSG00000105559	19	49330354	49381889	215	28	35290	3.1518	0.00081139	PLEKHA4		

ENSG00000077147	10	98267866	98357209	253	21	44109	3.151	0.0008137	TM9SF3		
ENSG00000178965	1	75023795	75149422	232	32	39499	3.1506	0.00081467	C1orf173		
ENSG00000162063	16	2469395	2518855	123	7	46203	3.1488	0.00081983	CCNF		
ENSG00000111452	12	131428452	131636014	977	128	44601	3.1427	0.00083701	GPR133		
ENSG00000152620	5	36182694	36252381	125	22	35057	3.1397	0.00084561	NADK2		
ENSG00000160285	21	47598055	47658738	272	37	44615	3.1331	0.00086476	LSS		
ENSG00000149925	16	30054411	30091778	48	10	43901	3.1261	0.00088581	ALDOA		
ENSG00000169194	5	131981955	132006802	55	14	40648	3.1239	0.00089221	IL13		
ENSG00000164188	5	36238536	36312216	132	26	33123	3.1215	0.00089953	RANBP3L		
ENSG00000176101	9	140073099	140094822	44	4	54856	3.1185	0.00090899	SSNA1		
ENSG00000066379	6	30016676	30042686	167	22	42247	3.1172	0.00091287	ZNRD1		
ENSG00000108389	17	56556898	56605266	74	14	54923	3.1089	0.00093887	MTMR4		
ENSG00000105976	7	116302444	116448440	280	52	42203	3.1069	0.00094523	MET		
ENSG00000135698	16	82171403	82213831	397	22	40732	3.1033	0.00095704	MPHOSPH6		
ENSG00000214756	11	62422781	62445968	41	6	52067	3.0992	0.00097007	METTL12		
ENSG00000116871	1	36611180	36656450	69	14	44928	3.0958	0.00098143	MAP7D1		
ENSG00000146535	7	2757746	2893958	530	39	52278	3.0932	0.00099018	GNA12		
ENSG00000154814	3	16296706	16401806	394	34	50898	3.0914	0.00099591	OXNAD1		
ENSG00000162194	11	62420287	62449727	48	7	52840	3.0907	0.00099828	C11orf48		
ENSG00000168769	4	106057032	106210973	370	50	45766	3.0876	0.0010088	TET2		
ENSG00000176248	9	140059236	140092989	59	7	49937	3.0837	0.0010221	ANAPC2		
ENSG00000124613	6	27332394	27381683	274	15	49433	3.0819	0.0010285	ZNF391		
ENSG00000088986	12	120897653	120946296	172	23	40549	3.0785	0.0010402	DYNLL1		
ENSG00000184207	16	2251998	2274808	63	11	42312	3.0739	0.0010563	PGP		
ENSG00000114455	3	108005376	108107132	337	38	38787	3.0555	0.0011235	HHLA2		
ENSG00000162191	11	62433970	62456567	35	7	52633	3.0546	0.0011267	UBXN1		
ENSG00000109046	17	25611102	25650657	106	16	48254	3.0533	0.0011316	WSB1		
ENSG00000124564	6	25823294	25892514	238	30	42801	3.0523	0.0011355	SLC17A3		
ENSG00000204414	17	61976957	62006198	89	18	42110	3.0514	0.0011389	CSHL1		
ENSG00000090013	19	40943696	40981747	142	25	46375	3.0498	0.001145	BLVRB		
ENSG00000064545	19	19219978	19259322	103	21	50707	3.0462	0.0011587	TMEM161A		
ENSG00000248672	2	160618362	160771221	584	65	38134	3.0455	0.0011613	LY75-CD302		
ENSG00000054219	2	160618362	160771260	584	65	38134	3.0455	0.0011613	LY75		
ENSG00000167272	12	121006567	121029201	85	14	42775	3.0443	0.0011661	POP5		
ENSG00000166839	15	65194101	65261042	209	34	42043	3.0431	0.0011708	ANKDD1A		
ENSG00000099917	22	20840200	20951919	304	31	44925	3.0391	0.0011866	MED15		

ENSG00000185697	8	67464410	67536482	96	14	37459	3.038	0.0011907	MYBL1		
ENSG00000173933	11	66374097	66444153	86	22	47518	3.0362	0.0011978	RBM4		
ENSG00000110768	11	18333842	18398591	133	21	42651	3.0332	0.0012097	GTF2H1		
ENSG00000273003	11	64771654	64818042	136	20	35136	3.0322	0.001214	RP11-399J13.3		
ENSG00000110025	11	64784880	64818044	103	13	31987	3.0301	0.0012223	SNX15		
ENSG00000213465	11	64771585	64799656	80	18	38883	3.03	0.0012228	ARL2		
ENSG00000160299	21	47734036	47875682	595	51	43425	3.0249	0.0012435	PCNT		
ENSG00000196659	2	178403726	178427742	58	8	46926	3.0236	0.0012489	TTC30B		
ENSG00000167207	16	50717514	50776988	117	19	30284	3.0203	0.0012627	NOD2		
ENSG00000250722	5	42789982	42897494	353	37	44907	3.0115	0.0013	SEPP1		
ENSG00000120071	17	44097282	44312733	1030	8	22900	3.009	0.0013103	KANSL1		
ENSG00000246705	12	14917270	14940936	78	15	56935	3.0079	0.0013153	H2AFJ		
ENSG00000175792	3	127773621	127882757	272	15	54612	3.0075	0.0013169	RUVBL1		
ENSG00000179256	12	14947584	14977116	80	15	55981	3.0054	0.0013261	SMCO3		
ENSG00000148219	9	119177504	120187348	3458	291	46574	2.9995	0.0013522	ASTN2		
ENSG00000110756	11	18290223	18353745	179	23	44350	2.9988	0.0013553	HPS5		
ENSG00000198794	15	75239560	75323837	159	26	31401	2.996	0.0013676	SCAMP5		
ENSG00000183032	14	37137636	37652071	1547	163	42172	2.9875	0.0014065	SLC25A21		
ENSG00000111786	12	120889471	120917596	90	17	42651	2.9811	0.0014362	SRSF9		
ENSG00000173612	6	117103248	117160200	146	20	48873	2.9798	0.0014421	GPRC6A		
ENSG00000120129	5	172185093	172208198	105	25	43074	2.9776	0.0014524	DUSP1		
ENSG00000248643	11	66374097	66423940	64	17	46582	2.976	0.00146	RBM14-RBM4		
ENSG00000188820	6	116772533	116794934	79	17	44715	2.972	0.0014795	FAM26F		
ENSG00000102753	13	50263447	50377057	342	40	49084	2.972	0.0014795	KPNA3		
ENSG00000182685	16	2249254	2271951	71	13	40281	2.9713	0.0014826	BRICD5		
ENSG00000183114	1	20868932	20891512	97	21	49215	2.9671	0.0015031	FAM43B		
ENSG00000184716	15	44076360	44102419	33	6	31477	2.965	0.0015136	SERINC4		
ENSG00000076321	1	173674080	173765840	130	19	50675	2.9647	0.001515	KLHL20		
ENSG00000185863	9	140055310	140076861	33	8	44159	2.9627	0.0015247	TMEM210		
ENSG00000084092	4	57819536	57854989	132	25	55388	2.9614	0.001531	NOA1		
ENSG00000256762	17	44066616	44087060	124	5	22356	2.9612	0.0015323	STH		
ENSG00000110871	12	120931077	120982237	183	22	38955	2.9608	0.001534	COQ5		
ENSG00000169372	12	94061151	94298616	630	97	50958	2.9604	0.0015361	CRADD		
ENSG00000131378	3	16345081	16565533	800	126	46896	2.9595	0.0015405	RFTN1		
ENSG00000102886	16	30106131	30135177	42	16	47105	2.9543	0.0015671	GDPD3		
ENSG00000121101	17	56624039	56779416	380	34	44077	2.9464	0.0016072	TEX14		

ENSG00000084463	12	14929410	14966474	96	18	56148	2.9464	0.0016074	WBP11		
ENSG00000174837	19	6877577	6950470	452	40	39361	2.9431	0.0016249	EMR1		
ENSG00000106153	7	56159262	56184269	109	16	53481	2.9427	0.0016267	CHCHD2		
ENSG00000140259	15	44086690	44127000	63	7	30124	2.9413	0.0016343	MFAP1		
ENSG00000255432	11	62407166	62442650	57	9	52035	2.941	0.0016358	RP11-831H9.11		
ENSG00000099331	19	17176591	17335346	677	91	44144	2.9383	0.0016501	MYO9B		
ENSG00000186479	5	63792084	63918139	285	44	48718	2.9379	0.0016521	RGS7BP		
ENSG00000187713	9	140088534	140110090	46	12	55227	2.9365	0.0016598	TMEM203		
ENSG00000087053	11	95556046	95668479	330	32	36060	2.9334	0.0016762	MTMR2		
ENSG00000223572	15	43975084	44001420	28	11	35240	2.9326	0.0016807	CKMT1A		
ENSG00000092470	15	44109161	44170617	101	11	33053	2.923	0.0017331	WDR76		
ENSG00000125245	13	99896968	99923998	46	14	45508	2.923	0.0017336	GPR18		
ENSG00000137259	6	26023320	26043796	53	15	48427	2.9226	0.0017355	HIST1H2AB		
ENSG00000128602	7	128818713	128863386	139	25	50530	2.9216	0.0017414	SMO		
ENSG00000007237	17	9803926	10111868	1244	196	44653	2.9212	0.0017437	GAS7		
ENSG00000171724	16	77812427	78024004	985	166	49048	2.9128	0.0017908	VAT1L		
ENSG00000140264	15	44059285	44104787	68	9	29923	2.9124	0.0017932	SERF2		
ENSG00000157005	3	187376694	187398187	85	15	48958	2.9123	0.0017939	SST		
ENSG00000185290	7	56172374	56194093	101	18	54345	2.9063	0.0018289	NUPR1L		
ENSG00000239306	11	66374053	66404818	42	14	47559	2.9048	0.0018376	RBM14		
ENSG00000204619	6	30024486	30048110	176	22	40974	2.9047	0.0018381	PPP1R11		
ENSG00000088538	3	50702672	51431629	1382	31	49018	2.902	0.0018539	DOCK3		
ENSG00000102935	16	49511435	49901830	1258	179	46998	2.8992	0.0018708	ZNF423		
ENSG00000132842	5	77286349	77600579	825	53	44957	2.8962	0.0018886	AP3B1		
ENSG00000172247	11	47601216	47626211	37	12	44347	2.8959	0.0018904	C1QTNF4		
ENSG00000169592	16	29996615	30027114	56	8	35567	2.8941	0.001901	INO80E		
ENSG00000022840	12	120961283	121025397	240	25	43426	2.8921	0.0019131	RNF10		
ENSG00000124678	6	35075848	35126387	188	18	40072	2.8886	0.0019346	TCP11		
ENSG00000262560	15	44054815	44101331	67	9	30384	2.8852	0.001956	RP11-296A16.1		
ENSG00000188211	11	17363273	17408888	155	22	46510	2.8832	0.001968	NCR3LG1		
ENSG00000178718	15	75236757	75259805	47	12	29654	2.8791	0.0019939	RPP25		
ENSG00000020633	1	25216002	25301612	235	41	40283	2.8783	0.001999	RUNX3		
ENSG00000137727	11	110437766	110593912	448	40	43999	2.8779	0.0020014	ARHGAP20		
ENSG00000175073	8	67530722	67589452	72	16	41057	2.8668	0.0020731	VCPIP1		
ENSG00000149923	16	30077299	30106698	38	9	49096	2.8665	0.0020755	PPP4C		
ENSG00000167220	18	44623774	44686891	226	22	55988	2.8617	0.0021068	HDHD2		

ENSG00000148719	10	74082588	74124988	113	9	24473	2.861	0.0021114	<i>DNAJB12</i>		
ENSG00000120334	1	173758688	173803858	54	12	49784	2.8609	0.0021119	<i>CENPL</i>		
ENSG00000156381	14	102963179	102986136	90	16	47751	2.8594	0.002122	<i>ANKRD9</i>		
ENSG00000117593	1	173783641	173837684	90	16	47951	2.8593	0.0021229	<i>DARS2</i>		
ENSG00000170948	19	8933074	8964016	93	13	51078	2.8553	0.0021499	<i>MBD3L1</i>		
ENSG00000185294	17	43912256	43934438	162	7	25592	2.8504	0.0021831	<i>SPPL2C</i>		
ENSG00000128886	15	44054798	44079741	41	7	28714	2.8487	0.002195	<i>ELL3</i>		
ENSG00000215474	18	44736293	44785554	140	21	54355	2.8472	0.0022054	<i>SKOR2</i>		
ENSG00000136574	8	11524468	11627511	371	65	40593	2.8454	0.0022181	<i>GATA4</i>		
ENSG00000140455	15	63786793	63896839	250	28	44825	2.8437	0.0022298	<i>USP3</i>		
ENSG00000242028	15	44078340	44105241	34	6	31828	2.8435	0.002231	<i>HYPK</i>		
ENSG00000158445	20	47970414	48109184	488	73	48840	2.8415	0.0022452	<i>KCNB1</i>		
ENSG00000204618	6	30028043	30053664	194	23	39554	2.8402	0.0022543	<i>RNF39</i>		
ENSG00000117013	1	41239684	41316124	234	58	48713	2.8397	0.0022578	<i>KCNQ4</i>		
ENSG00000130349	6	107339407	107382546	198	25	29498	2.8387	0.0022649	<i>C6orf203</i>		
ENSG00000162753	1	173459603	173582233	292	22	32066	2.8385	0.0022666	<i>SLC9C2</i>		
ENSG00000155052	2	124772864	125682864	3130	222	48752	2.8363	0.0022816	<i>CNTNAP5</i>		
ENSG00000257218	12	120874241	120909389	117	20	42818	2.8352	0.0022899	<i>GATC</i>		
ENSG00000130779	12	122745979	122917179	350	34	41678	2.8325	0.0023095	<i>CLIP1</i>		
ENSG00000183454	16	9842376	10286611	2037	107	46192	2.8324	0.0023098	<i>GRIN2A</i>		
ENSG00000147655	8	108901544	109105913	612	69	41508	2.8313	0.0023181	<i>RSPO2</i>		
ENSG00000122386	16	3152561	3180518	53	11	50451	2.8308	0.0023217	<i>ZNF205</i>		
ENSG00000115233	2	162154549	162278228	211	25	48303	2.8289	0.0023355	<i>PSMD14</i>		
ENSG00000125851	20	17196752	17475223	1150	117	46689	2.8276	0.0023453	<i>PCSK2</i>		
ENSG00000129951	19	802518	831967	115	26	46016	2.8213	0.0023917	<i>LPPR3</i>		
ENSG00000146530	7	12360511	12453567	431	42	46455	2.8186	0.0024115	<i>VWDE</i>		
ENSG00000164163	4	146009084	146060331	51	16	37368	2.817	0.0024237	<i>ABCE1</i>		
ENSG00000174945	7	2709156	2825134	534	71	48618	2.8124	0.002459	<i>AMZ1</i>		
ENSG00000151379	2	17987763	18008368	82	17	34856	2.8114	0.002466	<i>MSGN1</i>		
ENSG00000167004	15	44028590	44075477	82	11	29876	2.8072	0.0024984	<i>PDIA3</i>		
ENSG00000158079	9	96783076	96882138	183	26	48696	2.8065	0.002504	<i>PTPDC1</i>		
ENSG00000213865	8	67569850	67607799	46	17	46602	2.8053	0.0025136	<i>C8orf44</i>		
ENSG00000173992	11	66350292	66383490	46	16	45605	2.8052	0.0025146	<i>CCS</i>		
ENSG00000170855	12	120871764	120894215	67	15	43830	2.803	0.0025317	<i>TRIAP1</i>		
ENSG00000146352	6	123307116	123404072	256	31	38161	2.8027	0.002534	<i>CLVS2</i>		
ENSG00000006071	11	17404432	17508449	430	62	45914	2.8002	0.0025535	<i>ABCC8</i>		

ENSG00000102891	16	56588961	56612869	115	28	46661	2.799	0.0025628	MT4		
ENSG00000153976	17	13389006	13515244	556	77	41977	2.7974	0.0025755	HS3ST3A1		
ENSG00000174547	11	66192546	66244209	68	16	52493	2.7974	0.002576	MRPL11		
ENSG00000176681	17	44360099	44425160	25	3	18783	2.7957	0.0025896	LRRC37A		
ENSG00000100601	14	78128747	78184363	301	28	51921	2.7943	0.0026003	ALKBH1		
ENSG00000196126	6	32536546	32567625	548	26	39798	2.7938	0.0026049	HLA-DRB1		
ENSG00000092621	1	120192421	120296838	236	42	45195	2.7933	0.0026088	PHGDH		
ENSG00000119401	9	119439581	119473579	93	17	46975	2.7915	0.0026229	TRIM32		
ENSG00000172059	2	10172976	10204963	118	22	52116	2.7905	0.0026314	KLF11		
ENSG00000160714	1	154511053	154541504	73	13	47203	2.7855	0.002672	UBE2Q1		
ENSG00000169594	15	83914655	83963466	78	11	41236	2.7822	0.0026996	BNC1		
ENSG00000183831	1	173568700	173649001	96	20	44580	2.7806	0.0027125	ANKRD45		
ENSG00000104805	19	49393307	49436629	190	29	42116	2.7801	0.0027174	NUCB1		
ENSG00000196666	11	47598198	47620746	33	14	45452	2.7799	0.002719	FAM180B		
ENSG00000162062	16	2500081	2524964	27	13	45589	2.7794	0.0027227	C16orf59		
ENSG00000197019	19	40917499	40941932	56	15	43651	2.7793	0.0027238	SERTAD1		
ENSG00000168061	11	64798373	64822300	68	10	30744	2.7788	0.0027281	SAC3D1		
ENSG00000111780	12	120866001	120907809	140	23	44488	2.7786	0.0027294	AL021546.6		
ENSG00000173894	17	77741931	77771782	58	24	49494	2.7781	0.0027339	CBX2		
ENSG00000161395	17	37817375	37863050	118	11	36030	2.7777	0.0027376	PGAP3		
ENSG00000140478	15	75565176	75596816	24	14	36354	2.7774	0.0027396	GOLGA6D		
ENSG00000100324	22	39785746	39843065	102	11	46329	2.7717	0.002788	TAB1		
ENSG00000171532	17	37749789	37776030	50	12	36965	2.7703	0.0027998	NEUROD2		
ENSG00000164485	6	137454968	137504785	156	22	39071	2.7696	0.0028062	IL22RA2		
ENSG00000137309	6	34194650	34224008	64	13	44456	2.7675	0.0028243	HMGA1		
ENSG00000124693	6	26021817	26042288	56	15	48342	2.7672	0.0028268	HIST1H3B		
ENSG00000096654	6	27408522	27450897	152	11	52663	2.7669	0.0028299	ZNF184		
ENSG00000141738	17	37884180	37913544	47	11	35380	2.7668	0.0028307	GRB7		
ENSG00000118900	16	4886666	4942361	219	31	50766	2.7662	0.0028358	UBN1		
ENSG00000090432	1	20815943	20844654	82	16	51706	2.7653	0.0028431	MUL1		
ENSG00000002549	4	17568815	17619595	168	8	50908	2.7653	0.0028439	LAP3		
ENSG00000102780	13	42604176	42840714	923	82	45377	2.7583	0.0029053	DGKH		
ENSG00000197361	15	63879552	63904627	55	14	45851	2.7581	0.0029067	FBXL22		
ENSG00000184709	9	140053210	140074503	28	9	41861	2.7545	0.0029395	LRRC26		
ENSG00000198053	20	1865154	1930543	271	42	44013	2.7525	0.002957	SIRPA		
ENSG00000183044	16	8758422	8888432	784	129	44418	2.7515	0.0029659	ABAT		

ENSG00000113578	5	141961743	142087617	402	76	38974	2.7508	0.0029725	<i>FGF1</i>		
ENSG00000156427	5	170836660	170894627	183	35	51070	2.7401	0.0030706	<i>FGF18</i>		
ENSG00000187616	9	136369708	136403734	100	24	51350	2.7382	0.0030887	<i>TMEM8C</i>		
ENSG00000266996	18	44532731	44554607	38	11	53398	2.7313	0.0031543	<i>TCEB3CL2</i>		
ENSG00000184304	14	30035687	30671104	1714	195	44146	2.7293	0.0031731	<i>PRKD1</i>		
ENSG00000237289	15	43875252	43907099	20	4	24950	2.7282	0.0031842	<i>CKMT1B</i>		
ENSG00000228696	17	44342150	44449130	83	4	17714	2.7279	0.0031874	<i>ARL17B</i>		
ENSG00000185252	22	20738405	20772745	128	20	43031	2.7256	0.0032091	<i>ZNF74</i>		
ENSG00000176495	11	59121885	59142921	74	9	55577	2.7253	0.0032125	<i>OR5AN1</i>		
ENSG00000083799	16	50765961	50845846	152	21	32908	2.7235	0.0032292	<i>CYLD</i>		
ENSG00000268488	15	44065041	44085231	31	5	29438	2.7233	0.0032319	<i>AC018512.1</i>		
ENSG00000249240	15	65124082	65233118	334	34	37913	2.7229	0.003236	<i>AC069368.3</i>		
ENSG00000183476	15	78360150	78407251	157	35	46689	2.7166	0.0032976	<i>SH2D7</i>		
ENSG00000138674	4	83729814	83832319	246	16	34831	2.7156	0.0033081	<i>SEC31A</i>		
ENSG00000189099	4	152188323	152222605	109	12	36243	2.7121	0.0033434	<i>PRSS48</i>		
ENSG00000124529	6	26017124	26037480	58	15	47907	2.712	0.0033442	<i>HIST1H4B</i>		
ENSG00000242866	15	43881596	44020458	170	20	26083	2.7103	0.0033612	<i>STRC</i>		
ENSG00000135535	6	109677717	109713762	118	15	43956	2.7092	0.0033726	<i>CD164</i>		
ENSG00000166268	12	70209084	70362877	678	74	45881	2.7078	0.003387	<i>MYRFL</i>		
ENSG00000132694	1	156894632	157025162	327	28	51417	2.7065	0.0034002	<i>ARHGEF11</i>		
ENSG00000186868	17	43961748	44115700	919	9	20191	2.7028	0.0034381	<i>MAPT</i>		
ENSG00000163602	3	72410976	72506069	142	35	51361	2.7016	0.0034499	<i>RYBP</i>		
ENSG00000196167	11	111154114	111185770	113	20	46647	2.7004	0.0034624	<i>COLCA1</i>		
ENSG00000176540	11	48377037	48398017	38	9	43326	2.7003	0.003464	<i>OR4C5</i>		
ENSG00000145604	5	36142091	36194421	137	31	32858	2.6996	0.0034708	<i>SKP2</i>		
ENSG00000137413	6	42008251	42065199	240	49	49880	2.699	0.0034775	<i>TAF8</i>		
ENSG00000170791	8	57114245	57141357	30	16	52351	2.6978	0.0034902	<i>CHCHD7</i>		
ENSG00000157578	21	40767770	40827731	184	16	50998	2.6967	0.0035015	<i>LCA5L</i>		
ENSG00000176160	17	56487528	56575745	147	20	53300	2.6966	0.0035026	<i>HSF5</i>		
ENSG00000128944	15	40664922	40696447	84	14	52701	2.696	0.0035089	<i>KNSTRN</i>		
ENSG00000268175	3	149679066	149700535	52	14	43690	2.6952	0.003517	<i>AC117395.1</i>		
ENSG00000197912	16	89547325	89634176	306	19	52318	2.6938	0.0035326	<i>SPG7</i>		
ENSG00000204977	13	50560024	50604617	91	11	48787	2.6921	0.0035502	<i>TRIM13</i>		
ENSG00000186714	11	32613792	32826204	746	43	51001	2.6915	0.0035567	<i>CCDC73</i>		
ENSG00000131876	15	101811715	101845487	93	18	44155	2.6909	0.0035625	<i>SNRPA1</i>		
ENSG00000160298	21	47710095	47753789	202	26	41878	2.6882	0.0035916	<i>C21orf58</i>		

ENSG00000115380	2	56083102	56161274	271	42	40943	2.687	0.0036051	EFEMP1		
ENSG00000112742	6	80703604	80762244	248	16	53732	2.6847	0.0036298	TTK		
ENSG00000106638	7	72973262	73003121	73	15	53546	2.6826	0.0036525	TBL2		
ENSG00000055917	2	20438452	20561995	295	29	53086	2.6824	0.0036553	PUM2		
ENSG00000110002	11	123976069	124028428	174	36	47364	2.6799	0.0036821	VWA5A		
ENSG00000073331	4	113196665	113373776	550	93	46456	2.6768	0.0037161	ALPK1		
ENSG00000189043	7	10961578	10989883	107	21	38042	2.6747	0.0037403	NDUFA4		
ENSG00000155367	1	113242616	113268099	58	18	51492	2.6717	0.0037734	PPM1J		
ENSG00000124782	6	7097830	7262213	365	56	37359	2.6699	0.0037937	RREB1		
ENSG00000123908	8	141531264	141655718	408	64	44980	2.6699	0.0037941	AGO2		
ENSG00000157657	9	116628562	116828871	624	76	47509	2.6685	0.0038098	ZNF618		
ENSG00000109819	4	23746664	23915712	589	121	48214	2.6684	0.0038102	PPARGC1A		
ENSG00000081800	7	122743585	122850040	275	35	54646	2.6677	0.0038191	SLC13A1		
ENSG00000171451	18	65163819	65194217	85	19	51667	2.6673	0.0038234	DSEL		
ENSG00000166503	15	83774320	83886770	200	19	52493	2.6658	0.0038398	HDGFRP3		
ENSG00000240694	8	26352202	26381608	120	19	42025	2.6632	0.0038698	PNMA2		
ENSG00000140955	16	84214744	84240774	199	28	53393	2.6618	0.0038863	ADAD2		
ENSG00000164924	8	101918753	101975616	160	23	49061	2.6609	0.0038971	YWHAZ		
ENSG00000049239	1	9284834	9341396	222	38	48999	2.6592	0.0039162	H6PD		
ENSG00000223638	19	56260380	56284541	82	17	47865	2.6566	0.0039468	RFPL4A		
ENSG00000198535	15	62349176	62373116	80	9	48225	2.6562	0.0039514	C2CD4A		
ENSG00000186687	5	130496503	130551119	145	15	33395	2.6528	0.0039918	LYRM7		
ENSG00000268080	8	94231867	94252388	50	12	55670	2.6518	0.0040028	AC016885.1		
ENSG00000128245	22	32330447	32363590	135	24	45318	2.6516	0.0040052	YWHAH		
ENSG00000138653	4	115738919	116045032	835	75	32720	2.6493	0.0040327	NDST4		
ENSG00000011105	12	3176521	3405730	1089	152	48806	2.6484	0.0040434	TSPAN9		
ENSG00000175175	17	56823230	57068983	430	37	47258	2.6479	0.0040499	PPM1E		
ENSG00000187486	11	17397406	17420878	93	16	45013	2.6459	0.0040741	KCNJ11		
ENSG00000002822	7	1845429	2282878	2053	79	43041	2.6454	0.0040798	MAD1L1		
ENSG00000164776	7	56138440	56170689	124	19	54428	2.6436	0.004102	PHKG1		
ENSG00000185085	11	62404320	62430774	41	10	49929	2.6429	0.00411	INTS5		
ENSG00000036448	8	1983155	2123475	1231	136	41903	2.6425	0.0041151	MYOM2		
ENSG00000061455	5	122414816	122539960	517	60	50766	2.6387	0.004161	PRDM6		
ENSG00000178187	5	178358192	178403434	188	25	49121	2.6374	0.0041768	ZNF454		
ENSG00000141744	17	37814234	37836728	81	8	35325	2.6356	0.0041997	PNMT		
ENSG00000108384	17	56759934	56821703	138	20	42838	2.6346	0.0042116	RAD51C		

ENSG00000149948	12	66207911	66370075	283	58	40484	2.634	0.0042189	HMGA2		
ENSG00000174165	11	66278108	66323709	96	12	51906	2.6333	0.0042284	ZDHHC24		
ENSG00000204478	1	13726907	13757803	1	1	12885	2.6323	0.004241	PRAMEF20		
ENSG00000163875	1	37948176	37990375	134	20	49799	2.6273	0.0043031	MEAF6		
ENSG00000143226	1	161465220	161503803	129	25	46451	2.6269	0.0043088	FCGR2A		
ENSG00000267228	18	44651027	44712652	233	21	55111	2.6238	0.0043475	IER3IP1		
ENSG00000036549	1	78018101	78159104	269	29	33468	2.6231	0.0043563	ZZZ3		
ENSG00000183396	3	48648192	48669288	23	8	45802	2.6226	0.0043629	TMEM89		
ENSG00000189410	1	21036225	21069330	108	25	47347	2.622	0.004371	SH2D5		
ENSG00000267179	19	12025890	12100105	270	19	36198	2.6203	0.0043929	ZNF763		
ENSG00000167522	16	89324038	89566969	624	67	44886	2.6112	0.0045112	ANKRD11		
ENSG00000136404	15	83766159	83823606	89	16	50617	2.611	0.0045136	TM6SF1		
ENSG00000223417	11	89634279	89664935	23	6	46700	2.611	0.0045142	TRIM49D1		
ENSG00000164548	7	23534399	23581660	123	22	52630	2.6106	0.0045187	TRA2A		
ENSG00000125388	4	2955335	3052474	339	31	48548	2.6102	0.0045245	GRK4		
ENSG00000164270	5	147820595	148066798	728	80	45034	2.6099	0.0045288	HTR4		
ENSG00000197054	19	12025890	12101196	273	19	36105	2.6068	0.0045695	ZNF763		
ENSG00000173638	21	46903486	46974325	285	41	49503	2.6056	0.0045855	SLC19A1		
ENSG00000138050	2	39953200	40016407	176	20	48177	2.605	0.0045938	THUMPD2		
ENSG00000114439	3	107231783	107540171	645	65	42159	2.6029	0.004622	BBX		
ENSG00000085644	16	3169778	3202806	69	9	43815	2.6025	0.0046267	ZNF213		
ENSG00000268280	5	55214468	55234569	47	19	43851	2.6024	0.0046288	AC008914.1		
ENSG00000123810	19	41850326	41880078	82	12	52062	2.6008	0.0046501	B9D2		
ENSG00000256162	6	131138546	131168275	115	20	49833	2.6	0.0046618	SMLR1		
ENSG00000109686	4	152013903	152256784	582	56	34822	2.5986	0.0046801	SH3D19		
ENSG00000173702	3	124614289	124682663	239	46	52606	2.598	0.0046879	MUC13		
ENSG00000168152	4	83811837	83851122	85	10	33270	2.5964	0.0047098	THAP9		
ENSG00000196914	11	120197787	120370645	347	30	50876	2.5961	0.0047151	ARHGEF12		
ENSG00000118579	4	17606254	17645728	155	11	45261	2.5946	0.0047355	MED28		
ENSG00000116254	1	6151853	6250183	351	49	33972	2.5942	0.00474	CHD5		
ENSG00000132394	3	127862297	128137485	575	34	42564	2.5935	0.0047503	EEFSEC		
ENSG00000213903	14	24770656	24797242	68	16	44238	2.593	0.0047568	LTB4R		
ENSG00000167491	19	19486635	19629740	274	24	44526	2.5926	0.0047633	GATAD2A		
ENSG00000136854	9	130364544	130467460	129	25	42397	2.5914	0.004779	STXBP1		
ENSG00000268091	12	131504221	131524769	136	23	41006	2.5905	0.0047915	AC078925.1		
ENSG00000028277	19	42580263	42710737	158	13	53167	2.5882	0.0048232	POU2F2		

ENSG00000137944	1	89391456	89468636	159	18	44632	2.5882	0.0048243	CCBL2		
ENSG00000169989	4	153680506	153710916	81	15	53700	2.5877	0.0048313	TIGD4		
ENSG00000188596	12	96873349	97279333	1248	70	52091	2.5876	0.0048317	C12orf55		
ENSG00000109919	11	47628867	47674175	55	13	39747	2.5867	0.0048456	MTCH2		
ENSG00000185897	19	35839362	35861387	57	22	43142	2.5864	0.0048494	FFAR3		
ENSG00000221944	2	233402779	233425226	81	15	52258	2.5851	0.0048674	TIGD1		
ENSG00000077254	1	78151672	78235537	141	26	40697	2.583	0.0048966	USP33		
ENSG00000156509	8	101135588	101168028	58	8	53892	2.583	0.0048976	FBXO43		
ENSG00000144559	3	11821916	11898393	165	29	44129	2.5808	0.004928	TAMM41		
ENSG00000116863	1	36544476	36569533	29	11	47059	2.58	0.0049396	ADPRHL2		
ENSG00000182791	11	66347640	66370554	30	13	45726	2.5788	0.0049571	CCDC87		
ENSG00000145107	3	196036213	196075374	158	21	49245	2.5777	0.0049727	TM4SF19		
ENSG00000204540	6	31072527	31117869	619	63	41430	2.5736	0.0050318	PSORS1C1		
ENSG00000147689	8	124181200	124232314	165	18	53840	2.5726	0.0050472	FAM83A		
ENSG00000178573	16	79609740	79644611	120	36	49231	2.571	0.0050702	MAF		
ENSG00000174032	13	45957451	46002590	106	16	31997	2.5698	0.0050876	SLC25A30		
ENSG00000167965	16	2244249	2269417	67	12	39017	2.5686	0.0051061	MLST8		
ENSG00000109906	11	113920315	114131398	664	121	48559	2.5685	0.0051069	ZBTB16		
ENSG00000074800	1	8911061	8949308	79	11	37625	2.5672	0.0051269	ENO1		
ENSG00000177202	19	49100000	49120970	66	17	45454	2.5671	0.0051275	SPACA4		
ENSG00000120088	17	43689267	43923194	1188	14	21433	2.5632	0.005185	CRHR1		
ENSG00000128254	22	32319507	32351504	111	25	45370	2.5632	0.0051856	C22orf24		
ENSG00000115816	2	37418755	37468856	147	28	52951	2.5621	0.0052015	CEBPZ		
ENSG00000256349	11	66266550	66311084	103	9	52066	2.5594	0.0052428	CTD-3074O7.11		
ENSG00000186113	11	55553032	55573976	80	15	53770	2.558	0.0052636	OR5D14		
ENSG00000178057	3	49047892	49070928	21	10	44868	2.5555	0.005302	NDUFAF3		
ENSG00000111785	12	107158373	107293090	245	34	51882	2.5552	0.0053067	RIC8B		
ENSG00000173467	7	16889029	16931611	215	41	30771	2.554	0.0053244	AGR3		
ENSG00000141627	18	46560039	46997717	1349	56	45379	2.5523	0.0053501	DYM		
ENSG00000232423	1	12988181	13127751	16	6	42974	2.5523	0.005351	PRAMEF6		
ENSG00000149547	11	125429112	125464575	83	15	53822	2.5521	0.0053539	EI24		
ENSG00000198252	14	53186898	53251716	127	16	54172	2.5518	0.0053578	STYX		
ENSG00000129003	15	62134588	62362672	750	49	42015	2.5507	0.005375	VPS13C		
ENSG00000198231	17	61840963	61906677	147	12	31696	2.5494	0.0053956	DDX42		
ENSG00000131668	9	96703905	96727654	74	12	51437	2.5461	0.005447	BARX1		
ENSG00000113522	5	131881711	131990313	160	14	41533	2.5457	0.0054531	RAD50		

ENSG00000174483	11	66268077	66311098	101	9	51957	2.5432	0.0054925	BBS1		
ENSG00000108375	17	56419861	56504956	174	27	51018	2.542	0.0055118	RNF43		
ENSG00000147669	8	101152812	101176230	48	7	53837	2.5415	0.0055182	POLR2K		
ENSG00000111775	12	120865893	120888545	73	16	47999	2.5412	0.0055232	COX6A1		
ENSG00000188566	9	140090147	140121461	72	16	55236	2.5401	0.0055411	NDOR1		
ENSG00000172769	11	58159937	58180882	123	5	52916	2.5395	0.0055509	OR5B3		
ENSG00000063177	19	49108585	49132793	54	11	41144	2.5385	0.0055672	RPL18		
ENSG00000196811	2	233394437	233421113	87	16	52453	2.5368	0.0055932	CHRNA1		
ENSG00000173653	11	66600306	66624017	30	14	47593	2.5368	0.0055936	RCE1		
ENSG00000106443	7	11003499	11219250	638	48	44376	2.5365	0.0055988	PHF14		
ENSG00000196839	20	43238163	43290874	145	34	44991	2.5358	0.0056101	ADA		
ENSG00000125695	17	61770205	61839457	155	14	34068	2.5353	0.005617	RP11-51F16.8		
ENSG00000174516	11	66224216	66254808	46	8	52371	2.5351	0.0056205	PELI3		
ENSG00000164049	3	48403709	48452666	100	7	50283	2.5322	0.0056676	FBXW12		
ENSG00000162545	1	20798884	20822713	47	13	48135	2.5309	0.0056886	CAMK2N1		
ENSG00000187048	1	47384849	47417156	85	10	34997	2.5307	0.0056913	CYP4A11		
ENSG00000164050	3	48435261	48481594	58	8	53504	2.5305	0.0056953	PLXNB1		
ENSG00000148516	10	31597424	31828742	253	32	40523	2.53	0.0057032	ZEB1		
ENSG00000164076	3	49885421	49917655	51	11	38665	2.5298	0.0057059	CAMKV		
ENSG00000167968	16	2275817	2298712	47	15	48967	2.5244	0.0057951	DNASE1L2		
ENSG00000230301	3	97973088	97994200	164	8	22351	2.5241	0.0058003	OR5H6		
ENSG00000101440	20	32772375	32867150	152	14	39326	2.5233	0.0058122	ASIP		
ENSG00000104450	8	101160134	101281506	259	23	53601	2.5229	0.0058194	SPAG1		
ENSG00000129595	5	111468138	111765013	952	106	46152	2.5218	0.0058386	EPB41L4A		
ENSG00000196661	11	124256278	124277264	66	8	46393	2.5209	0.0058531	OR8B3		
ENSG00000075399	16	89763542	89797394	126	34	36986	2.5207	0.0058569	VPS9D1		
ENSG00000196341	11	124169708	124190733	71	11	39409	2.5204	0.0058617	OR8D1		
ENSG00000197249	14	94833084	94867030	168	32	45107	2.5188	0.0058883	SERPINA1		
ENSG00000172057	17	38067294	38093854	75	11	44059	2.5181	0.0058997	ORMDL3		
ENSG00000164144	4	153691089	153849615	398	34	51329	2.518	0.0059007	ARFIP1		
ENSG00000197841	19	35215060	35243777	83	18	51897	2.5178	0.0059049	ZNF181		
ENSG00000142046	19	41846816	41899988	124	16	51372	2.5156	0.0059419	TMEM91		
ENSG00000084093	4	57764075	57812010	165	22	51157	2.5132	0.0059814	REST		
ENSG00000101384	20	10608332	10664694	175	44	45297	2.5128	0.0059885	JAG1		
ENSG00000186075	17	38014417	38044149	98	9	43276	2.5122	0.0059995	ZBP2		
ENSG00000064726	15	83675174	83746106	203	24	53516	2.5103	0.0060312	BTBD1		

ENSG00000189308	4	83821126	83944079	306	16	34177	2.5078	0.0060741	LIN54		
ENSG00000213809	12	10514952	10554473	111	15	35989	2.504	0.0061406	KLRK1		
ENSG00000171643	5	76135826	76227475	229	37	31751	2.5039	0.0061418	S100Z		
ENSG00000272658	14	24768161	24791252	56	12	46595	2.5029	0.0061583	LTB4R2		
ENSG00000118402	6	80614529	80667297	203	21	37036	2.5023	0.00617	ELOVL4		
ENSG00000198865	5	42746903	42812462	215	19	52835	2.5014	0.0061854	CCDC152		
ENSG00000070193	5	44293646	44399808	200	20	44311	2.5013	0.0061867	FGF10		
ENSG00000132825	20	58501894	58525352	33	14	52210	2.5008	0.0061959	PPP1R3D		
ENSG00000100519	14	53163890	53205305	74	11	55606	2.4979	0.006247	PSMC6		
ENSG00000145569	5	14571884	14625116	94	23	47543	2.4971	0.00626	FAM105A		
ENSG00000113209	5	140504800	140527703	60	18	51074	2.495	0.0062984	PCDHB5		
ENSG00000266173	17	61770192	61829330	132	13	33899	2.4934	0.0063266	STRADA		
ENSG00000185100	14	105180523	105223662	161	30	47335	2.4911	0.006367	ADSSL1		
ENSG00000169621	2	68684693	68868004	581	32	43887	2.4904	0.0063791	APLF		
ENSG00000273331	3	196032953	196075244	166	22	49485	2.4903	0.0063814	TM4SF19		
ENSG00000131351	19	17150539	17196435	184	21	51482	2.4897	0.006393	HAUS8		
ENSG00000105523	19	49094067	49128111	116	24	42494	2.4893	0.0063989	FAM83E		
ENSG00000100599	14	92970118	93165339	701	126	48104	2.4891	0.0064035	RIN3		
ENSG00000166037	11	95513129	95575857	230	20	34307	2.4883	0.0064176	CEP57		
ENSG00000163406	3	121602936	121672949	261	11	53144	2.4875	0.0064328	SLC15A2		
ENSG00000269601	11	120319880	120340047	43	12	49899	2.4871	0.0064389	AP000758.1		
ENSG00000255408	5	140170783	140401929	516	42	53965	2.4834	0.0065073	PCDHA3		
ENSG00000204967	5	140176659	140401929	504	42	53905	2.4817	0.0065374	PCDHA4		
ENSG00000167378	19	44078521	44110287	80	22	50938	2.4812	0.0065475	IRGQ		
ENSG00000120327	5	140592931	140615858	80	14	46808	2.4809	0.0065531	PCDHB14		
ENSG00000120952	1	12906941	12931764	104	8	37192	2.4803	0.0065629	PRAMEF2		
ENSG00000204969	5	140164444	140401929	534	42	54089	2.4792	0.0065839	PCDHA2		
ENSG00000164209	5	110063837	110110857	120	23	41227	2.479	0.0065866	SLC25A46		
ENSG00000185097	1	611059	632053	1	1	42765	2.4785	0.006596	OR4F16		
ENSG00000129514	14	38049189	38079245	75	18	48019	2.4785	0.0065973	FOXA1		
ENSG00000254986	11	66237484	66287130	105	10	52209	2.4781	0.0066035	DPP3		
ENSG00000156515	10	71019740	71171638	608	101	45003	2.4752	0.0066575	HK1		
ENSG00000174720	4	113548120	113588748	104	22	47062	2.475	0.0066624	LARP7		
ENSG00000198574	1	162355056	162391928	142	17	52143	2.4728	0.0067023	SH2D1B		
ENSG00000173991	17	37810440	37832808	74	10	41120	2.4704	0.0067482	TCAP		
ENSG00000204970	5	140155876	140401929	555	43	54113	2.4676	0.0068016	PCDHA1		

ENSG00000204965	5	140191222	140401929	460	39	53652	2.4664	0.0068233	PCDHA5		
ENSG00000130227	8	21767180	21874096	273	23	39294	2.466	0.0068313	XPO7		
ENSG00000164024	4	99906771	99993964	247	25	51178	2.4657	0.0068364	METAP1		
ENSG00000149089	11	34864641	34948046	482	24	31058	2.4643	0.0068636	APIP		
ENSG00000047315	4	57833888	57907334	273	36	54372	2.4606	0.0069347	POLR2B		
ENSG00000073578	5	208356	266815	356	9	23225	2.46	0.006946	SDHA		
ENSG00000077458	11	95492106	95533573	137	16	35017	2.4569	0.0070079	FAM76B		
ENSG00000168685	5	35842797	35889705	179	17	53307	2.4566	0.0070137	IL7R		
ENSG00000149929	16	29993645	30017757	50	9	34997	2.4565	0.0070144	HIRIP3		
ENSG00000122367	10	88418206	88505825	362	58	46050	2.4563	0.007018	LDB3		
ENSG00000162747	1	161582986	161611753	41	12	38291	2.4562	0.00702	FCGR3B		
ENSG00000163646	3	150633950	150700786	208	39	42033	2.4547	0.0070501	CLRN1		
ENSG00000100577	14	77777227	77807940	117	27	53380	2.4541	0.0070622	GSTZ1		
ENSG00000081842	5	140197563	140401929	441	37	53613	2.4496	0.0071514	PCDHA6		
ENSG00000122547	7	36182758	36351152	699	97	48455	2.4494	0.007154	EEPD1		
ENSG00000084636	1	32107848	32179920	156	31	38212	2.4478	0.0071866	COL16A1		
ENSG00000204963	5	140203969	140401929	431	36	53522	2.4476	0.0071899	PCDHA7		
ENSG00000175348	11	8958841	8996558	134	15	44922	2.4433	0.0072761	TMEM9B		
ENSG00000184599	1	113253041	113279857	50	16	51808	2.4433	0.0072772	FAM19A3		
ENSG00000174236	12	27839428	27860566	45	10	52789	2.4415	0.0073141	REP15		
ENSG00000162723	1	159911282	159934044	73	18	48771	2.4408	0.0073275	SLAMF9		
ENSG00000184445	12	123001793	123120943	238	26	50708	2.4403	0.0073379	KNTC1		
ENSG00000160294	21	47645047	47716211	311	28	46064	2.4401	0.0073424	MCM3AP		
ENSG00000204962	5	140210907	140401929	423	35	53583	2.4379	0.0073864	PCDHA8		
ENSG00000227839	1	50449990	50471874	18	8	49212	2.4375	0.0073937	AL645730.2		
ENSG00000112576	6	41892671	42028095	466	85	47283	2.4374	0.0073957	CCND3		
ENSG00000074054	2	122085352	122417163	856	31	35559	2.4359	0.0074272	CLASP1		
ENSG00000134882	13	99843028	100048688	591	49	41818	2.4351	0.0074435	UBAC2		
ENSG00000148053	9	87273466	87648505	1121	131	49375	2.4338	0.0074697	NTRK2		
ENSG00000104804	19	49374222	49411990	191	18	35598	2.4337	0.0074726	TULP2		
ENSG00000123106	12	28276182	28742883	1388	40	42166	2.433	0.0074869	CCDC91		
ENSG00000255298	11	124124723	124145763	176	8	52810	2.4325	0.0074972	OR8G5		
ENSG00000103707	15	65284845	65331977	144	27	39758	2.4305	0.007538	MTFMT		
ENSG00000135074	5	156812542	157012783	803	65	46868	2.4301	0.0075468	ADAM19		
ENSG00000168060	11	64802290	64836021	88	17	38273	2.4297	0.0075559	NAALADL1		
ENSG00000204293	11	124242291	124263258	91	6	52340	2.4279	0.0075941	OR8B2		

ENSG00000179172	1	12897261	12918578	71	5	38716	2.4274	0.0076046	<i>HNRNPCL1</i>		
ENSG00000172464	11	56398942	56419947	74	16	56073	2.4271	0.0076103	<i>OR5AP2</i>		
ENSG00000204961	5	140217048	140401929	409	34	53691	2.4236	0.0076842	<i>PCDHA9</i>		
ENSG00000135541	6	135594670	135828914	453	63	42805	2.4204	0.0077518	<i>AHI1</i>		
ENSG00000178149	3	49042921	49069726	22	9	43445	2.42	0.0077609	<i>DALRD3</i>		
ENSG00000161572	17	34251522	34280703	140	17	48752	2.4196	0.0077693	<i>LYZL6</i>		
ENSG00000055609	7	151822010	152143090	387	35	32583	2.4194	0.0077732	<i>KMT2C</i>		
ENSG00000114861	3	70993844	71643140	1433	171	42500	2.4193	0.0077749	<i>FOXP1</i>		
ENSG00000146285	6	108015308	108155521	511	61	44276	2.4178	0.0078071	<i>SCML4</i>		
ENSG00000134240	1	120280619	120321528	109	21	52590	2.4177	0.007809	<i>HMGCS2</i>		
ENSG00000197451	5	177621508	177648164	116	27	50722	2.4173	0.007819	<i>HNRNPAB</i>		
ENSG00000065371	3	123677368	123721025	82	24	42192	2.4172	0.00782	<i>ROPN1</i>		
ENSG00000168781	15	43815660	43892430	50	13	41788	2.4172	0.0078207	<i>PIIP5K1</i>		
ENSG00000149541	11	62372768	62399647	34	7	51635	2.4171	0.0078225	<i>B3GAT3</i>		
ENSG00000178394	5	63246183	63268334	53	13	53232	2.4163	0.0078388	<i>HTR1A</i>		
ENSG00000174106	12	65553351	65652107	137	22	45018	2.4146	0.0078757	<i>LEMD3</i>		
ENSG00000185158	17	30324891	30390523	113	13	51751	2.4116	0.0079417	<i>LRRC37B</i>		
ENSG00000250120	5	140225595	140401929	396	33	53715	2.4113	0.0079474	<i>PCDHA10</i>		
ENSG00000156110	10	75900960	76479061	1045	43	35472	2.4108	0.0079588	<i>ADK</i>		
ENSG00000100888	14	21843353	21934285	187	24	41743	2.4107	0.0079615	<i>CHD8</i>		
ENSG00000204538	6	31095313	31117127	275	40	40433	2.4103	0.0079705	<i>PSORS1C2</i>		
ENSG00000251664	5	140245058	140401929	364	30	53869	2.41	0.0079752	<i>PCDHA12</i>		
ENSG00000127663	19	4959125	5163606	697	74	48335	2.4086	0.0080079	<i>KDM4B</i>		
ENSG00000164082	3	51731086	51762629	33	16	49837	2.407	0.0080412	<i>GRM2</i>		
ENSG00000100580	14	77791364	77853452	186	28	46566	2.407	0.0080415	<i>TMED8</i>		
ENSG00000103449	16	51159886	51195278	69	17	40486	2.4061	0.0080615	<i>SALL1</i>		
ENSG00000248383	5	140296302	140401929	277	24	53272	2.4018	0.0081568	<i>PCDHAC1</i>		
ENSG00000105723	19	42724338	42756777	44	6	52433	2.4008	0.0081798	<i>GSK3A</i>		
ENSG00000249034	5	140230341	140253224	43	11	53257	2.4005	0.0081858	<i>AC005609.1</i>		
ENSG00000255819	12	10514952	10572745	147	18	37842	2.4004	0.0081884	<i>KLRC4-KLRK1</i>		
ENSG00000166762	15	43910701	43970316	99	13	22565	2.3987	0.0082271	<i>CATSPER2</i>		
ENSG00000142609	1	1843396	1945276	365	43	45168	2.3983	0.0082361	<i>C1orf222</i>		
ENSG00000239389	5	140251793	140401929	355	29	53907	2.3976	0.008252	<i>PCDHA13</i>		
ENSG00000249158	5	140238689	140401929	384	31	54022	2.3957	0.0082934	<i>PCDHA11</i>		
ENSG00000100473	14	31333720	31374271	93	31	50224	2.3956	0.0082966	<i>COCH</i>		
ENSG00000204957	19	42736927	42759125	35	5	50320	2.3955	0.008298	<i>AC006486.1</i>		

ENSG00000100583	14	77833032	77867840	95	14	42114	2.3952	0.008306	SAMD15		
ENSG00000087074	19	49365649	49389314	109	13	29502	2.3947	0.0083165	PPP1R15A		
ENSG00000164105	4	174281120	174308683	37	8	30702	2.3939	0.008335	SAP30		
ENSG00000147443	8	21756384	21781371	79	20	43644	2.3939	0.008335	DOK2		
ENSG00000128283	22	37946454	37975412	96	19	38697	2.3937	0.0083393	CDC42EP1		
ENSG00000176009	11	8949119	8974580	102	12	48790	2.3937	0.0083405	ASCL3		
ENSG00000149489	11	62369194	62392592	33	5	47363	2.3929	0.0083589	ROM1		
ENSG00000166869	16	23755948	23780272	63	12	46399	2.3929	0.0083589	CHP2		
ENSG00000140479	15	101830818	102075405	1140	178	44046	2.3924	0.0083684	PCSK6		
ENSG00000137959	1	79075607	79121830	90	23	52093	2.3923	0.0083712	IFI44L		
ENSG00000197786	11	58115597	58136542	59	5	48604	2.3917	0.0083848	OR5B17		
ENSG00000108395	17	57049999	57194282	235	27	54422	2.3915	0.0083896	TRIM37		
ENSG00000163239	1	154464695	154530623	214	14	49441	2.391	0.0084002	TDRD10		
ENSG00000140522	15	89743100	89774982	94	17	51891	2.391	0.0084013	RLBP1		
ENSG00000165792	14	21447929	21475189	116	18	47790	2.3901	0.0084214	METTL17		
ENSG00000108272	17	34938228	34967235	73	14	40343	2.39	0.0084244	DHRS11		
ENSG00000204913	17	38087727	38111000	84	13	52799	2.3888	0.0084518	LRRC3C		
ENSG00000151445	14	77883018	77934295	145	17	41042	2.3882	0.0084658	VIPAS39		
ENSG00000188763	7	72838109	72860450	33	11	51777	2.3863	0.0085092	FZD9		
ENSG00000048342	4	15461489	15613180	365	52	48061	2.385	0.0085393	CC2D2A		
ENSG00000120137	5	167965500	168016605	84	14	49833	2.3846	0.0085492	PANK3		
ENSG00000135902	2	233380703	233411377	110	21	53176	2.3844	0.0085528	CHRND		
ENSG00000171735	1	6835384	7839766	3059	340	47578	2.3832	0.0085803	CAMTA1		
ENSG00000128335	22	36612256	36646000	174	27	40044	2.383	0.0085851	APOL2		
ENSG00000138621	15	75305896	75419803	308	29	34550	2.3805	0.0086451	PPCDC		
ENSG00000155463	14	23225731	23251007	80	22	42324	2.3804	0.0086462	OXA1L		
ENSG00000253903	8	26933694	26954766	113	19	44984	2.379	0.008681	RP11-521M14.2		
ENSG00000106991	9	130567291	130627035	138	36	35678	2.3763	0.0087445	ENG		
ENSG00000196227	20	58498819	58533735	56	14	51434	2.376	0.0087506	FAM217B		
ENSG00000126858	17	30459473	30590393	236	27	44534	2.3756	0.0087604	RHOT1		
ENSG00000164404	5	132186873	132212576	62	11	46586	2.3744	0.0087891	GDF9		
ENSG00000104177	15	48421625	48480714	9	5	44346	2.3732	0.0088181	MYEF2		
ENSG00000175104	11	36498577	36541822	100	19	49243	2.3714	0.0088599	TRAF6		
ENSG00000054523	1	10260863	10451661	727	36	54059	2.3701	0.0088924	KIF1B		
ENSG00000090487	15	65245362	65292648	179	21	41920	2.3682	0.0089366	SPG21		
ENSG00000143258	1	161119240	161145513	50	13	53565	2.3676	0.0089528	USP21		

ENSG00000162040	16	1951464	1978441	123	12	47548	2.3668	0.0089721	HS3ST6		
ENSG00000179399	13	92040929	93529490	4673	326	43889	2.3664	0.008982	GPC5		
ENSG00000196074	20	58428618	58518710	213	13	50643	2.3663	0.0089829	SYCP2		
ENSG00000240204	7	129132320	129162773	93	24	38459	2.3646	0.0090242	SMKR1		
ENSG00000186513	11	57947906	57968990	53	9	46990	2.3645	0.0090262	OR9Q2		
ENSG00000073605	17	38050848	38086107	95	9	40281	2.3638	0.0090439	GSDMB		
ENSG00000156113	10	78619359	79408353	2271	246	45275	2.3631	0.0090608	KCNMA1		
ENSG00000124299	19	33867856	34022700	740	76	52299	2.3629	0.0090674	PEPD		
ENSG00000149100	11	32595344	32637808	159	24	51935	2.3604	0.0091271	EIF3M		
ENSG00000063176	19	49112548	49143974	72	13	38087	2.3603	0.0091299	SPHK2		
ENSG00000167914	17	38109226	38144019	148	19	53895	2.3593	0.0091541	GSDMA		
ENSG00000107798	10	90963326	91184314	650	81	36929	2.3564	0.0092267	LIPA		
ENSG00000188549	15	40613653	40643168	91	23	43826	2.3559	0.0092389	C15orf52		
ENSG00000135744	1	230828269	230860043	162	22	35090	2.3539	0.0092892	AGT		
ENSG00000147324	8	8630864	8761155	654	64	46002	2.3532	0.009306	MFHAS1		
ENSG00000164405	5	132192252	132213723	56	11	46996	2.3526	0.0093201	UQCRQ		
ENSG00000268643	19	42728735	42769284	69	7	52329	2.3521	0.0093329	AC006486.9		
ENSG00000103375	16	25217052	25250261	125	19	47394	2.3521	0.009333	AQP8		
ENSG00000197837	12	14910933	14934065	95	13	55991	2.3504	0.0093763	HIST4H4		
ENSG00000164366	5	186986	228330	224	17	30607	2.3502	0.0093811	CCDC127		
ENSG00000213906	14	24764940	24791259	64	13	43764	2.3498	0.0093914	LTB4R2		
ENSG00000105058	19	16286191	16312857	87	15	44498	2.3495	0.0093982	FAM32A		
ENSG00000256453	5	140040379	140063171	43	9	54501	2.3492	0.009407	DND1		
ENSG00000105568	19	52683292	52740687	277	22	56177	2.3489	0.0094154	PPP2R1A		
ENSG00000166444	11	8704898	8942498	765	76	45704	2.3478	0.009443	ST5		
ENSG00000105722	19	42741724	42769309	54	5	52809	2.3464	0.0094775	ERF		
ENSG00000204219	1	23697554	23761233	157	29	32505	2.3462	0.0094823	TCEA3		
ENSG00000134294	12	46741972	46776650	56	12	35766	2.3455	0.009502	SLC38A2		
ENSG00000235878	21	47602391	47623673	102	21	46094	2.3453	0.009505	AP001468.1		
ENSG00000230055	17	36876488	36901297	60	18	44612	2.3448	0.0095175	CISD3		
ENSG00000172037	3	49148547	49180551	34	16	48382	2.3421	0.0095869	LAMB2		
ENSG00000185250	6	109701418	109772374	209	21	40358	2.341	0.0096164	PPIL6		
ENSG00000198553	13	50579390	50605058	52	8	51110	2.3405	0.00963	KCNRG		
ENSG00000170745	2	18049114	18552882	2150	203	43250	2.3397	0.0096487	KCNS3		
ENSG00000196226	6	26033455	26053885	58	13	42019	2.3393	0.0096599	HIST1H2BB		
ENSG00000119917	10	91077651	91110728	162	13	29575	2.3387	0.0096758	IFIT3		

ENSG00000186472	7	82373329	82802246	1422	107	45743	2.3385	0.0096804	PCLO		
ENSG00000124574	6	43385104	43428168	118	22	47202	2.3358	0.0097503	ABCC10		
ENSG00000159873	22	29158662	29195283	142	21	39804	2.3346	0.0097822	CCDC117		
ENSG00000160844	7	99788283	99879855	188	22	47718	2.333	0.0098249	GATS		
ENSG00000120314	5	140034261	140063709	53	9	53998	2.3322	0.0098441	WDR55		
ENSG00000149499	11	62359690	62390237	44	6	47844	2.3314	0.0098663	EML3		
ENSG00000125384	14	52771023	52805324	139	24	34282	2.3313	0.0098684	PTGER2		
ENSG00000058262	3	127760484	127800526	118	6	54710	2.3313	0.0098694	SEC61A1		
ENSG00000146733	7	56068744	56129297	196	27	53041	2.3306	0.0098866	PSPH		
ENSG00000166411	15	78413840	78474291	171	27	45346	2.3303	0.0098953	IDH3A		
ENSG00000185278	1	173827220	173882687	156	20	42099	2.3303	0.0098965	ZBTB37		
ENSG00000152518	2	43439541	43463748	53	17	41516	2.3294	0.0099197	ZFP36L2		
ENSG00000168229	14	52724431	52753442	119	22	51592	2.3288	0.0099335	PTGDR		
ENSG00000268465	19	48959094	48985688	70	11	27721	2.3275	0.0099685	CTC-273B12.7		
ENSG00000249915	5	261736	363971	373	31	37398	2.3274	0.0099713	PDCD6		
ENSG00000257207	2	111150511	111240652	2	1	43140	2.3273	0.0099758	LIMS3		
ENSG00000141750	17	37356789	37392125	69	19	46809	2.3269	0.0099844	STAC2		
ENSG00000170445	5	140042758	140081609	74	9	54424	2.3264	0.0099993	HARS		
ENSG00000168517	17	43228067	43257407	57	16	48555	2.3263	0.010002	HEXIM2		
ENSG00000055813	2	56401258	56623308	763	112	48842	2.3257	0.010016	CCDC85A		
ENSG00000240065	6	32801913	32837362	283	38	51629	2.3242	0.010057	PSMB9		
ENSG00000167625	19	42714423	42742353	28	6	52202	2.3241	0.010059	ZNF526		
ENSG00000056661	17	36880150	36916070	99	25	46728	2.3237	0.01007	PCGF2		
ENSG00000164053	3	48478114	48517115	66	7	48601	2.3234	0.010078	ATRIP		
ENSG00000248333	1	1560603	1600473	42	6	36140	2.3226	0.010101	CDK11B		
ENSG00000268156	14	77872741	77893115	51	11	43697	2.3221	0.010113	FKSG61		
ENSG00000101082	20	35230721	35284619	68	30	48584	2.32	0.010172	SLA2		
ENSG00000135912	2	219565568	219630139	135	7	46811	2.3195	0.010184	TLL4		
ENSG00000237524	2	127646472	127669673	83	13	31958	2.3191	0.010194	AC114783.1		
ENSG00000204869	19	46533006	46590376	246	28	52944	2.3189	0.010199	IGFL4		
ENSG00000164051	3	48463574	48491866	58	8	48828	2.3189	0.0102	CCDC51		
ENSG00000043143	5	133850003	133928918	231	39	46869	2.3183	0.010218	JADE2		
ENSG00000232112	3	48471667	48495616	50	7	48018	2.3174	0.01024	TMA7		
ENSG00000148154	9	114649046	114707649	359	48	44877	2.3172	0.010246	UGCG		
ENSG00000161955	17	7451609	7474925	66	18	46283	2.317	0.010253	TNFSF13		
ENSG00000104055	15	43514793	43569055	83	10	31763	2.3154	0.010294	TGM5		

ENSG00000146966	7	140208220	140383793	425	45	39022	2.3146	0.010317	DENND2A		
ENSG00000135929	2	219636472	219690016	113	8	44398	2.3117	0.010398	CYP27A1		
ENSG00000228146	16	3184220	3209964	75	8	39541	2.3116	0.010399	CASP16		
ENSG00000151090	3	24148651	24546773	1280	199	47745	2.3113	0.010407	THRB		
ENSG00000108666	17	30641584	30687042	79	15	42989	2.3096	0.010455	C17orf75		
ENSG00000133112	13	45901008	45925505	84	13	30257	2.3089	0.010475	TPT1		
ENSG00000139629	12	51735031	51796651	162	41	46835	2.3085	0.010486	GALNT6		
ENSG00000179348	3	128188270	128222028	121	29	52152	2.3084	0.010487	GATA2		
ENSG00000162073	16	3009246	3033490	66	16	46975	2.3084	0.010488	PAQR4		
ENSG00000179546	1	23506993	23531222	104	8	49931	2.3076	0.010512	HTR1D		
ENSG00000174957	11	55934094	55955032	65	11	55371	2.3063	0.010548	OR5J2		
ENSG00000204175	10	46984087	47015643	6	4	44856	2.3053	0.010574	GPRIN2		
ENSG00000257545	12	106879736	107178696	715	78	49444	2.3042	0.010607	RP11-144F15.1		
ENSG00000166821	15	90210995	90244014	105	16	45568	2.3038	0.010616	PEX11A		
ENSG00000052850	11	44271994	44341716	250	51	49269	2.3028	0.010645	ALX4		
ENSG00000109133	4	41927137	41972589	172	15	50992	2.3026	0.01065	TMEM33		
ENSG00000197309	11	124045923	124066952	92	14	49834	2.3021	0.010665	OR10D3		
ENSG00000176029	11	8931623	8964553	125	13	50060	2.2987	0.010761	C11orf16		
ENSG00000225697	3	48653156	48682926	36	6	47488	2.2986	0.010763	SLC26A6		
ENSG00000112855	5	140061011	140088889	58	6	55612	2.2986	0.010764	HARS2		
ENSG00000145808	5	128785958	129084376	892	70	43083	2.2973	0.010802	ADAMTS19		
ENSG00000160307	21	48008875	48035121	162	19	41668	2.2959	0.010842	S100B		
ENSG00000218739	2	37413631	37453336	117	20	52811	2.2946	0.010879	CEBPZ-AS1		
ENSG00000142409	19	56588732	56642649	101	22	40861	2.294	0.010894	ZNF787		
ENSG00000136169	13	50008429	50079138	228	26	44500	2.2935	0.010909	SETDB2		
ENSG00000129933	19	19421490	19479563	163	18	40239	2.293	0.010923	MAU2		
ENSG00000167972	16	2315882	2400747	159	32	44603	2.2926	0.010935	ABCA3		
ENSG00000072364	5	132201071	132309326	288	20	44695	2.2925	0.010938	AFF4		
ENSG00000138231	3	137869854	137903791	86	4	52733	2.2924	0.010942	DBR1		
ENSG00000073711	3	135674515	135876733	371	34	42622	2.2921	0.010949	PPP2R3A		
ENSG00000213516	1	89435139	89468643	72	16	41396	2.2917	0.010962	RBMXL1		
ENSG00000125827	20	7947995	8010476	174	29	34720	2.2908	0.010987	TMX4		
ENSG00000233041	15	40633234	40658635	78	23	49935	2.289	0.011039	PHGR1		
ENSG00000163145	4	15331442	15457790	397	40	32752	2.288	0.011068	C1QTNF7		
ENSG00000141200	17	51890239	51912573	102	14	41731	2.2877	0.011076	KIF2B		
ENSG00000176692	16	86590857	86612539	85	17	46977	2.2854	0.011144	FOXC2		

ENSG00000151067	12	2069952	2812108	2243	253	46008	2.2851	0.011154	CACNA1C		
ENSG00000186577	6	34204157	34227247	62	10	37813	2.2832	0.01121	C6orf1		
ENSG00000198898	7	116441124	116572103	265	32	45944	2.283	0.011216	CAPZA2		
ENSG00000128268	22	39843349	39898199	91	26	43507	2.2817	0.011252	MGAT3		
ENSG00000204539	6	31072867	31098223	363	36	40955	2.2812	0.011267	CDSN		
ENSG00000183621	10	31099136	31330866	800	57	47401	2.281	0.011275	ZNF438		
ENSG00000100321	22	39735930	39791593	155	23	37737	2.28	0.011304	SYNGR1		
ENSG00000197894	4	99982132	100019952	220	20	45908	2.2797	0.011314	ADH5		
ENSG00000171462	6	43408090	43434370	54	14	44775	2.2787	0.011341	DLK2		
ENSG00000187372	5	140583509	140606993	69	16	43598	2.2787	0.011343	PCDHB13		
ENSG00000008300	3	48663902	48710348	55	7	48650	2.2774	0.011382	CELSR3		
ENSG00000133067	1	202153029	202298909	389	48	42478	2.2773	0.011383	LGR6		
ENSG00000154269	6	131939582	132078553	289	45	32929	2.2773	0.011384	ENPP3		
ENSG00000105576	19	12800008	12844825	42	22	46999	2.2772	0.011388	TNPO2		
ENSG00000124126	20	47230790	47454420	816	66	47433	2.2748	0.01146	PREX1		
ENSG00000134258	1	117676209	117763556	276	38	37348	2.2743	0.011474	VTCN1		
ENSG00000254093	8	10612473	10707394	554	39	46060	2.2741	0.011481	PINX1		
ENSG00000132692	1	156601182	156639324	70	23	42271	2.2727	0.011523	BCAN		
ENSG00000172324	11	59179416	59200449	69	12	50639	2.2723	0.011534	OR5A2		
ENSG00000184330	1	153379000	153405701	53	9	43934	2.2705	0.011588	S100A7A		
ENSG00000160284	21	47571062	47614390	294	32	40192	2.2705	0.011589	SPATC1L		
ENSG00000143222	1	161112566	161138646	52	13	53614	2.2699	0.011608	UFC1		
ENSG00000158796	1	161080764	161112478	51	8	54820	2.2692	0.01163	DEDD		
ENSG00000178971	17	8120191	8161362	127	24	46112	2.2687	0.011642	CTC1		
ENSG00000111371	12	46566846	46673800	230	53	44082	2.2683	0.011657	SLC38A1		
ENSG00000173715	11	66501922	66620987	128	32	49546	2.267	0.011696	C11orf80		
ENSG00000173210	5	148511046	148650105	359	40	49301	2.2668	0.011702	ABLIM3		
ENSG00000136938	9	100735643	100788225	93	20	42588	2.2652	0.011749	ANP32B		
ENSG00000206181	18	44548943	44571988	69	14	51406	2.2627	0.011827	TCEB3B		
ENSG00000213689	3	48496445	48519044	26	6	51958	2.2626	0.01183	TREX1		
ENSG00000168394	6	32802986	32831755	235	32	50457	2.2618	0.011856	TAP1		
ENSG00000130881	19	33658509	33708694	170	32	29780	2.2599	0.011913	LRP3		
ENSG00000241878	22	32004477	32068418	251	28	50794	2.2599	0.011914	PISD		
ENSG00000165917	11	47449308	47480730	86	9	39294	2.2592	0.011935	RAPSN		
ENSG00000173418	20	19987760	20024299	62	14	46219	2.259	0.011941	NAA20		
ENSG00000204923	2	68676551	68704390	56	7	40586	2.2586	0.011955	FBXO48		

ENSG00000108292	17	36851795	36896056	61	18	45865	2.2584	0.01196	MLLT6		
ENSG00000116489	1	113151795	113224241	139	20	50601	2.2582	0.011965	CAPZA1		
ENSG00000102882	16	30115426	30144827	45	15	43762	2.2568	0.012011	MAPK3		
ENSG00000181450	1	227741244	227875144	368	26	46543	2.2563	0.012026	ZNF678		
ENSG00000165555	14	77850364	77899860	108	14	42250	2.2558	0.012042	NOXRED1		
ENSG00000164509	5	55137207	55228678	267	38	41717	2.2549	0.012071	IL31RA		
ENSG00000185090	1	38249474	38276809	59	13	44465	2.2544	0.012085	MANEAL		
ENSG00000089597	11	62382298	62424104	50	10	50566	2.254	0.012099	GANAB		
ENSG00000258724	8	10572909	10707357	721	48	46829	2.2526	0.012142	SOX7		
ENSG00000161405	17	37911198	38030441	299	17	42794	2.2524	0.012147	IKZF3		
ENSG00000156535	6	74395508	74548040	500	42	50388	2.2514	0.012179	CD109		
ENSG00000115963	2	151314709	151405525	210	36	53881	2.2506	0.012204	RND3		
ENSG00000146007	5	140068265	140096248	59	5	56445	2.2504	0.012211	ZMAT2		
ENSG00000145879	5	147681982	147705485	85	9	26834	2.2498	0.012232	SPINK7		
ENSG00000135747	1	247098849	247252113	800	63	45010	2.2495	0.012241	ZNF670		
ENSG00000188279	10	49189649	49217818	8	6	43904	2.2494	0.012243	FAM25C		
ENSG00000171056	8	10571278	10707357	728	49	46866	2.2489	0.012259	SOX7		
ENSG00000173120	11	66876740	67035558	168	32	46210	2.2488	0.012263	KDM2A		
ENSG00000186567	19	45155545	45197631	106	24	39228	2.2487	0.012266	CEACAM19		
ENSG00000135862	1	182982595	183124727	605	16	29691	2.2485	0.012272	LAMC1		
ENSG00000106560	7	150372785	150400729	83	17	54666	2.2483	0.012279	GIMAP2		
ENSG00000176125	7	100476346	100497339	52	12	42693	2.248	0.012289	UFSP1		
ENSG00000173626	6	116806152	116876773	227	22	44574	2.2471	0.012316	TRAPPC3L		
ENSG00000128519	7	122624759	122645754	75	11	52789	2.2459	0.012354	TAS2R16		
ENSG00000141524	17	76096539	76138488	148	42	47862	2.2456	0.012364	TMC6		
ENSG00000166452	11	8922686	8951631	100	14	50295	2.245	0.012385	AKIP1		
ENSG00000238091	2	114194992	114215429	30	5	39759	2.2432	0.012441	AC016745.1		
ENSG00000114739	3	38485342	38544633	127	13	33802	2.2432	0.012442	ACVR2B		
ENSG00000106089	7	73103536	73144002	75	21	51374	2.2426	0.012462	STX1A		
ENSG00000169855	3	78636390	79826965	3048	188	46071	2.2424	0.012468	ROBO1		
ENSG00000174080	11	66320934	66346312	73	10	43168	2.2411	0.012509	CTSF		
ENSG00000088826	20	4091627	4178394	426	73	44494	2.2409	0.012518	SMOX		
ENSG00000185087	15	98970391	99067611	341	43	44689	2.2405	0.01253	FAM169B		
ENSG00000205029	11	55596228	55617214	82	16	50833	2.2404	0.012534	OR5D16		
ENSG00000185053	8	13937373	15105848	6869	326	40974	2.2398	0.012553	SGCZ		
ENSG00000070087	3	149672691	149778575	313	38	48009	2.2392	0.012571	PFN2		

ENSG00000170502	4	88333734	88390606	187	24	49152	2.2375	0.012626	NUDT9		
ENSG00000116721	1	12841546	12866777	90	17	39164	2.2374	0.012631	PRAMEF1		
ENSG00000164171	5	52275156	52400609	539	47	54179	2.2372	0.012638	ITGA2		
ENSG00000000971	1	196611008	196726634	291	27	41985	2.2368	0.012649	CFH		
ENSG00000128228	22	21986550	22008587	70	20	46316	2.2364	0.012662	SDF2L1		
ENSG00000160410	19	41072757	41107305	106	27	46407	2.2363	0.012665	SHKBP1		
ENSG00000241839	15	65124088	65170206	153	17	38071	2.2351	0.012704	PLEKHO2		
ENSG00000196793	10	44041792	44080066	118	11	52939	2.235	0.012707	ZNF239		
ENSG00000226763	19	44090769	44128649	68	15	52435	2.235	0.01271	SRRM5		
ENSG00000172554	2	936554	1381385	2235	125	40336	2.2346	0.012723	SNTG2		
ENSG00000035664	15	64189235	64374232	631	73	36997	2.2339	0.012744	DAPK2		
ENSG00000108588	17	61812610	61863711	126	11	31752	2.2327	0.012784	CCDC47		
ENSG00000197061	6	26094104	26114518	71	13	51340	2.2321	0.012806	HIST1H4C		
ENSG00000136305	14	24764302	24790636	62	13	43325	2.2319	0.012811	CIDEB		
ENSG00000004939	17	42315753	42355509	83	26	44794	2.2318	0.012815	SLC4A1		
ENSG00000178035	3	49051758	49076841	28	10	42797	2.2306	0.012855	IMPDH2		
ENSG00000174374	7	74431226	74500064	53	15	41760	2.23	0.012873	WBSCR16		
ENSG00000134049	18	44671413	44712745	155	15	55310	2.2282	0.012934	IER3IP1		
ENSG00000181752	11	55916870	55937793	55	11	55959	2.2277	0.01295	OR8K5		
ENSG00000121858	3	172213298	172251297	197	25	48216	2.2274	0.012961	TNFSF10		
ENSG00000214708	17	30458245	30480154	45	7	41311	2.2273	0.012963	AC090616.2		
ENSG00000127564	16	3008025	3040540	103	22	44668	2.2268	0.01298	PKMYT1		
ENSG00000114316	3	49305264	49388145	119	18	45892	2.2256	0.013019	USP4		
ENSG00000100591	14	77914213	77945817	108	13	38149	2.2248	0.013047	AHSA1		
ENSG00000184990	14	105209437	105244831	109	20	42938	2.2247	0.013052	SIVA1		
ENSG00000132840	5	78355540	78395289	122	17	34512	2.2241	0.013072	BHMT2		
ENSG00000138663	4	83945600	84006971	87	21	46875	2.2232	0.0131	COPS4		
ENSG00000082781	3	124470795	124630265	637	58	52996	2.2228	0.013115	ITGB5		
ENSG00000248871	17	7442416	7474918	105	23	46063	2.2212	0.013167	TNFSF12-TNFSF13		
ENSG00000233404	2	102498955	102521150	45	13	43781	2.2203	0.013198	FLJ20373		
ENSG00000141141	17	35959787	36013493	73	16	37541	2.2197	0.01322	DDX52		
ENSG00000115850	2	136535410	136604750	107	16	21665	2.2196	0.013224	LCT		
ENSG00000005955	17	34890737	34956278	152	20	39043	2.2195	0.013225	GGNBP2		
ENSG00000082213	5	31522373	31565165	163	31	48460	2.2193	0.013233	C5orf22		
ENSG00000142669	1	26595667	26618007	70	9	45541	2.2179	0.01328	SH3BGRL3		
ENSG00000204909	5	147690766	147729412	137	12	26149	2.2179	0.013281	SPINK9		

ENSG00000163885	3	126103782	126165399	251	49	49808	2.2175	0.013296	CCDC37		
ENSG00000164151	5	5410777	5500347	169	26	49804	2.2173	0.0133	KIAA0947		
ENSG00000181220	7	149159885	149204908	66	12	51603	2.2169	0.013314	ZNF746		
ENSG00000160570	19	42692750	42734292	44	6	53431	2.2168	0.013317	DEDD2		
ENSG00000187720	15	71379291	72085722	2385	234	46222	2.2167	0.013321	THSD4		
ENSG00000197467	10	71551644	71734031	861	181	51669	2.2165	0.013329	COL13A1		
ENSG00000234298	18	44538658	44560534	47	11	51069	2.2163	0.013334	TCEB3CL		
ENSG00000128578	7	129064274	129138240	164	18	38261	2.2154	0.013365	STRIP2		
ENSG00000111783	12	106966685	107166581	461	44	50015	2.215	0.01338	RFX4		
ENSG00000268361	19	44048844	44107188	202	33	47973	2.2146	0.013395	L34079.2		
ENSG00000164638	7	5304000	5356501	256	54	42865	2.2142	0.013408	SLC29A4		
ENSG00000196757	19	12025883	12071588	130	15	34769	2.2135	0.01343	ZNF700		
ENSG00000136682	2	114185268	114263766	106	10	43086	2.2111	0.013514	CBWD2		
ENSG00000173273	8	9403424	9649856	1009	33	52566	2.2111	0.013516	TNKS		
ENSG00000178921	17	8140936	8183809	146	25	41832	2.2109	0.013521	PFAS		
ENSG00000164591	5	150030436	150068927	64	7	30048	2.2105	0.013537	MYOZ3		
ENSG00000198756	1	183888796	184016863	370	57	44131	2.2084	0.013607	COLGALT2		
ENSG00000205795	2	10186907	10231071	177	32	52480	2.2084	0.013608	CYS1		
ENSG00000250091	12	124400971	124429531	58	7	54155	2.208	0.013622	DNAH10OS		
ENSG00000003509	2	37448774	37490546	147	25	52444	2.2065	0.013675	NDUFAF7		
ENSG00000117481	1	46795849	46840824	243	7	24555	2.206	0.013692	NSUN4		
ENSG00000213672	3	48691364	48733797	65	10	45045	2.2058	0.0137	NCKIPSD		
ENSG00000105732	19	42562629	42595701	28	12	49736	2.2058	0.0137	ZNF574		
ENSG00000117335	1	207915402	207978858	154	17	50410	2.2045	0.013746	CD46		
ENSG00000239697	17	7442208	7474925	106	23	45751	2.2035	0.013779	TNFSF12		
ENSG00000196071	1	248090493	248274224	537	56	41231	2.2034	0.013783	OR2L13		
ENSG00000198075	2	108984367	109014513	75	12	31051	2.2033	0.013787	SULT1C4		
ENSG00000100811	14	100694635	100759129	152	22	51596	2.2028	0.013806	YY1		
ENSG00000112343	6	25953030	25997384	105	18	41098	2.2013	0.013857	TRIM38		
ENSG00000126226	13	113821891	113873029	93	12	32484	2.2007	0.013878	PCID2		
ENSG00000070081	11	17219700	17381521	377	35	44000	2.2002	0.013895	NUCB2		
ENSG00000104517	8	103255240	103435069	570	52	53258	2.2001	0.013901	UBR5		
ENSG00000181634	9	117536915	117578406	79	22	47529	2.1992	0.013932	TNFSF15		
ENSG00000083099	6	90267863	90358472	221	33	41746	2.1979	0.013976	LYRM2		
ENSG00000159176	1	201442658	201488584	167	34	43145	2.1974	0.013996	CSRP1		
ENSG00000150457	13	21537171	21645686	301	36	40811	2.1967	0.014022	LATS2		

ENSG00000117601	1	173862947	173896516	85	13	36313	2.1965	0.014029	SERPINC1		
ENSG00000182093	21	40742170	40810454	176	18	49866	2.1962	0.014038	WRB		
ENSG00000136485	17	61617822	61681639	72	21	46658	2.1961	0.014042	DCAF7		
ENSG00000227450	17	36895613	36916969	71	20	47357	2.1959	0.014048	CTB-58E17.5		
ENSG00000178243	9	138225095	138248408	62	13	46835	2.1944	0.014105	C9orf62		
ENSG00000187741	16	89793957	89893065	672	39	35769	2.194	0.014116	FANCA		
ENSG00000075945	1	169880467	170064349	651	27	53859	2.1935	0.014136	KIFAP3		
ENSG00000168350	14	100602756	100636500	108	22	47363	2.1926	0.014169	DEGS2		
ENSG00000205884	8	11821446	11842108	98	21	42938	2.1919	0.014193	DEFB136		
ENSG00000221819	16	90085316	90106309	89	16	36813	2.1904	0.014248	C16orf3		
ENSG00000158850	1	161131100	161157287	47	13	52142	2.1902	0.014253	B4GALT3		
ENSG00000159495	15	43558478	43604453	68	7	26505	2.1893	0.014289	TGM7		
ENSG00000163499	2	219844911	219868143	17	9	30913	2.1865	0.014391	CRYBA2		
ENSG00000151725	4	185605772	185665287	368	11	47922	2.1861	0.014404	CENPU		
ENSG00000183530	22	32062242	32156126	265	29	50110	2.1858	0.014415	PRR14L		
ENSG00000161133	22	20694868	20755048	113	27	45609	2.1837	0.014494	USP41		
ENSG00000140323	15	40640436	40673257	86	19	52049	2.1835	0.014498	DISP2		
ENSG00000145087	3	120616919	121153608	2014	54	42905	2.1833	0.014506	STXBP5L		
ENSG00000129103	7	56121695	56158363	122	20	55621	2.1827	0.014528	SUMF2		
ENSG00000003147	7	8142814	8312317	740	122	43579	2.1813	0.01458	ICA1		
ENSG00000177311	3	141033055	141178634	338	54	38886	2.1812	0.014583	ZBTB38		
ENSG00000150045	12	9970077	10007606	98	20	47343	2.1812	0.014585	KLRF1		
ENSG00000118785	4	88886819	88914562	93	18	39438	2.1811	0.014587	SPP1		
ENSG00000204361	11	114539108	114589362	180	27	51012	2.1801	0.014626	NXPE2		
ENSG00000149451	20	3638612	3672893	140	40	46476	2.1783	0.01469	ADAM33		
ENSG00000119537	18	60984959	61044743	104	20	42591	2.1777	0.014715	KDSR		
ENSG00000140527	15	90224028	90296869	253	18	50066	2.1769	0.014743	WDR93		
ENSG00000160472	19	55878204	55899612	74	19	40506	2.1762	0.014769	TMEM190		
ENSG00000137801	15	39863280	39901667	84	13	42806	2.1761	0.014775	THBS1		
ENSG00000157734	15	64433914	64459680	56	11	45833	2.1755	0.014796	SNX22		
ENSG00000183807	6	117063363	117096886	114	22	50675	2.1735	0.014872	FAM162B		
ENSG00000087087	7	100462733	100496285	85	16	44259	2.1732	0.014883	SRRT		
ENSG00000128272	22	39905700	39928691	36	8	51178	2.1722	0.014921	ATF4		
ENSG00000139405	12	113613331	113640173	67	11	54106	2.1722	0.014922	RITA1		
ENSG00000215568	22	17432826	17499112	291	31	53689	2.1677	0.015092	GAB4		
ENSG00000087263	16	56475402	56523012	119	19	43159	2.1675	0.015099	OGFOD1		

ENSG00000185437	21	40807781	40897433	414	32	42197	2.1672	0.015112	SH3BGR		
ENSG00000187051	22	39915098	39938860	52	10	41408	2.1671	0.015114	RPS19BP1		
ENSG00000077549	1	19655267	19822066	660	62	51441	2.1663	0.015144	CAPZB		
ENSG00000168795	9	37428111	37475396	86	20	47761	2.1652	0.015186	ZBTB5		
ENSG00000231880	11	47589277	47609823	24	9	41642	2.1648	0.015201	KBTBD4		
ENSG00000105737	19	42492473	42583650	70	20	53067	2.1643	0.015219	GRIK5		
ENSG00000204536	6	31100216	31136015	395	43	45874	2.1632	0.015262	CCHCR1		
ENSG00000112320	6	107801162	107991357	406	71	38628	2.1629	0.015273	SOBP		
ENSG00000087152	17	42259173	42287481	61	16	45488	2.1628	0.015278	ATXN7L3		
ENSG00000186452	12	51226703	51291667	188	14	49847	2.1622	0.0153	TMPRSS12		
ENSG00000086589	5	150060356	150090669	29	12	47205	2.1619	0.015314	RBM22		
ENSG00000247270	16	66506775	66529747	42	11	35175	2.1609	0.015351	AC132186.1		
ENSG00000131116	19	44101371	44134026	64	12	53031	2.1606	0.015362	ZNF428		
ENSG00000103335	16	88771751	88861619	529	92	44586	2.1592	0.015418	PIEZO1		
ENSG00000075673	13	25244549	25295921	266	36	48804	2.1583	0.015454	ATP12A		
ENSG00000143382	1	150511884	150543413	79	27	45367	2.1582	0.015455	ADAMTSL4		
ENSG00000105428	19	5445426	5466867	78	22	47520	2.1578	0.015471	ZNRF4		
ENSG00000162882	2	42984229	43029733	205	19	42674	2.1571	0.015498	HAAO		
ENSG00000143224	1	161126200	161157803	56	14	53011	2.1552	0.015575	PPOX		
ENSG00000145283	4	87734621	87780416	77	18	46719	2.1547	0.015592	SLC10A6		
ENSG00000174576	11	66178475	66204178	47	16	47270	2.1542	0.015613	NPAS4		
ENSG00000100219	22	29180543	29206585	76	15	37911	2.1541	0.015615	XBP1		
ENSG00000129351	19	10754937	10813093	108	13	52890	2.1532	0.015651	ILF3		
ENSG00000161082	19	3214701	3307074	305	53	42697	2.152	0.0157	CELF5		
ENSG00000146731	7	56109323	56141682	99	18	54776	2.152	0.015701	CCT6A		
ENSG00000223609	11	5243908	5266600	59	12	45821	2.1513	0.015726	HBD		
ENSG00000092850	1	36539676	36563876	19	11	50195	2.1511	0.015734	TEKT2		
ENSG00000196449	1	38258616	38283857	38	9	43943	2.1509	0.015741	YRDC		
ENSG00000178172	5	147572357	147604700	78	5	51953	2.1495	0.015799	SPINK6		
ENSG00000174307	1	201424620	201448365	84	23	35885	2.149	0.015817	PHLDA3		
ENSG00000113248	5	140615147	140637799	72	11	41220	2.148	0.015858	PCDHB15		
ENSG00000181264	11	120185838	120214391	58	13	49701	2.1475	0.015877	TMEM136		
ENSG00000187475	6	26097640	26118364	67	11	51640	2.1471	0.015891	HIST1H1T		
ENSG00000145692	5	78397602	78438108	132	19	41233	2.147	0.015898	BHMT		
ENSG00000198099	4	100034808	100088949	333	14	48292	2.1462	0.015927	ADH4		
ENSG00000137310	6	31116319	31144936	308	36	48767	2.1459	0.015941	TCF19		

ENSG00000124749	6	55911388	56268892	1633	103	48256	2.1454	0.015962	COL21A1		
ENSG00000140632	16	4843204	4907343	224	34	51706	2.1448	0.015985	GLYR1		
ENSG00000079819	6	131150487	131394462	770	66	41301	2.1445	0.015995	EPB41L2		
ENSG00000204314	6	32106136	32132150	71	22	45152	2.1443	0.016004	PRRT1		
ENSG00000172548	5	156877027	156911725	115	18	47179	2.1433	0.016046	NIPAL4		
ENSG00000167797	11	67263968	67286120	27	13	46535	2.1425	0.016078	CDK2AP2		
ENSG00000141371	17	58459790	58518782	57	12	38198	2.1422	0.016088	C17orf64		
ENSG00000163935	3	52927588	53090766	398	34	52898	2.1415	0.016116	SFMBT1		
ENSG00000157933	1	2150134	2251558	276	58	46801	2.1408	0.016145	SKI		
ENSG00000100068	22	25737385	25811344	326	50	24011	2.1407	0.016149	LRP5L		
ENSG00000125821	20	18558537	18754561	863	55	51272	2.1385	0.01624	DTD1		
ENSG00000000457	1	169808772	169873408	229	20	56438	2.1361	0.016337	SCYL3		
ENSG00000269402	17	30496379	30516885	41	10	42475	2.136	0.01634	AC116407.2		
ENSG00000268126	5	147688550	147711891	107	10	25251	2.1351	0.016376	AC091948.1		
ENSG00000088782	20	128111	149804	97	8	32050	2.1342	0.016412	DEFB127		
ENSG00000104880	19	7449999	7547363	506	43	45563	2.1331	0.01646	ARHGEF18		
ENSG00000089012	20	1599798	1648425	205	32	47822	2.1323	0.01649	SIRPG		
ENSG00000198885	2	96981069	97004091	26	11	38662	2.1309	0.016548	ITPRIPL1		
ENSG00000213714	20	55098302	55121576	72	17	34502	2.13	0.016587	FAM209B		
ENSG00000114416	3	180575929	180710541	295	28	46078	2.1294	0.01661	FXR1		
ENSG00000166526	7	99651656	99690171	66	14	52898	2.1294	0.01661	ZNF3		
ENSG00000189409	1	1557474	1580639	10	6	37567	2.1286	0.016643	MMP23B		
ENSG00000203740	1	170105142	170146931	169	22	46489	2.1286	0.016644	METTL11B		
ENSG00000105705	19	19376827	19441653	175	21	41238	2.1285	0.016646	SUGP1		
ENSG00000219545	7	7670342	8053689	1751	223	47095	2.1282	0.01666	RPA3-AS1		
ENSG00000184730	16	28495970	28520291	49	11	44391	2.1271	0.016704	APOBR		
ENSG00000232629	6	32713875	32741311	361	19	31316	2.1266	0.016725	HLA-DQB2		
ENSG00000179407	3	128171282	128196091	107	25	42959	2.125	0.016791	DNAJB8		
ENSG00000096093	6	52275106	52397892	477	61	43819	2.1247	0.016806	EFHC1		
ENSG00000135315	6	84823960	84947353	223	28	46603	2.1233	0.016864	KIAA1009		
ENSG00000100027	22	22041833	22100123	220	39	48290	2.1228	0.016886	YPEL1		
ENSG00000100522	14	53231912	53268386	60	10	52262	2.1206	0.016978	GNPNAT1		
ENSG00000166963	15	43793156	43833818	47	10	39624	2.1205	0.016982	MAP1A		
ENSG00000124145	20	43943928	43987064	145	26	46960	2.1204	0.016987	SDC4		
ENSG00000110429	11	33752485	33806089	192	25	43943	2.1203	0.016991	FBXO3		
ENSG00000105443	19	48962289	48995571	90	16	30794	2.1186	0.01706	CYTH2		

ENSG00000160838	1	156880442	156912886	93	12	45999	2.1183	0.017075	<i>LRRC71</i>		
ENSG00000064489	19	19246376	19312967	246	25	50457	2.1175	0.017107	<i>MEF2BNB-MEF2B</i>		
ENSG00000213999	19	19246377	19313400	246	25	50457	2.1175	0.017107	<i>MEF2B</i>		
ENSG00000224389	6	31972539	32013195	66	25	38866	2.1174	0.017113	<i>C4B</i>		
ENSG00000163453	4	57886939	57986551	536	75	50604	2.1171	0.017124	<i>IGFBP7</i>		
ENSG00000073050	19	44037192	44094625	222	32	47115	2.117	0.01713	<i>XRCC1</i>		
ENSG00000166823	15	90281892	90304541	87	10	52172	2.1166	0.017148	<i>MESP1</i>		
ENSG00000204655	6	29614758	29650149	230	30	44065	2.1161	0.017169	<i>MOG</i>		
ENSG00000234465	19	44070952	44098116	89	19	51692	2.1154	0.017196	<i>PINLYP</i>		
ENSG00000143924	2	42386490	42569688	581	38	43555	2.1152	0.017205	<i>EML4</i>		
ENSG00000203724	1	197861777	197886497	48	19	46438	2.1143	0.017245	<i>C1orf53</i>		
ENSG00000236294	7	113081127	113101457	41	10	35427	2.1127	0.017312	<i>TSRM</i>		
ENSG00000166578	12	113623246	113668899	101	12	54139	2.1124	0.017324	<i>IQCD</i>		
ENSG00000026559	20	49610193	49649666	74	22	36465	2.1115	0.017365	<i>KCNG1</i>		
ENSG00000146729	7	56009486	56077874	240	32	52372	2.1113	0.017375	<i>GBAS</i>		
ENSG00000170345	14	75735477	75758933	82	24	38146	2.1106	0.017403	<i>FOS</i>		
ENSG00000182628	17	57177312	57242630	94	15	46968	2.1101	0.017426	<i>SKA2</i>		
ENSG00000161217	3	195931093	196024828	319	34	48013	2.1085	0.017492	<i>PCYT1A</i>		
ENSG00000178662	2	166316157	166555917	549	72	51069	2.1083	0.017503	<i>CSRNP3</i>		
ENSG00000173171	1	155168490	155193615	38	11	47427	2.107	0.01756	<i>MTX1</i>		
ENSG00000151065	12	2045220	2123701	298	19	54471	2.1061	0.0176	<i>DCP1B</i>		
ENSG00000115970	2	43383800	43833185	1288	75	48240	2.1059	0.017605	<i>THADA</i>		
ENSG00000183791	18	44544573	44566449	52	11	51379	2.1056	0.01762	<i>TCEB3C</i>		
ENSG00000164406	5	132198014	132220738	60	10	41747	2.1044	0.017672	<i>LEAP2</i>		
ENSG00000230873	6	17092489	17141603	125	24	46546	2.103	0.017735	<i>STMND1</i>		
ENSG00000213619	11	47576888	47616114	49	15	43034	2.1025	0.017753	<i>NDUFS3</i>		
ENSG00000170260	7	148926742	148962700	118	21	49382	2.1015	0.017799	<i>ZNF212</i>		
ENSG00000248713	4	100547686	100585805	138	26	47442	2.1012	0.017812	<i>RP11-766F14.2</i>		
ENSG00000205832	16	4596491	4660715	165	23	37346	2.1009	0.017825	<i>C16orf96</i>		
ENSG00000087085	7	100477615	100504594	76	13	43701	2.1006	0.017836	<i>ACHE</i>		
ENSG00000160271	9	135963107	136049301	264	44	47546	2.1006	0.01784	<i>RALGDS</i>		
ENSG00000092969	1	218509577	218627961	270	49	40173	2.1	0.017862	<i>TGFB2</i>		
ENSG00000196344	4	100323418	100366894	177	36	43984	2.0998	0.017872	<i>ADH7</i>		
ENSG00000137460	4	153847504	153910848	177	44	47475	2.0998	0.017874	<i>FHDC1</i>		
ENSG00000138741	4	122790182	122882909	185	30	51733	2.0986	0.017928	<i>TRPC3</i>		
ENSG00000182324	19	48948766	48979367	101	16	26574	2.0983	0.017939	<i>KCNJ14</i>		

ENSG00000132256	11	5674425	5969849	1770	116	50602	2.0976	0.01797	TRIM5		
ENSG00000114737	3	50633921	50659262	32	7	43722	2.0967	0.018008	CISH		
ENSG00000117592	1	173436405	173467946	64	14	46385	2.0963	0.018029	PRDX6		
ENSG00000197479	5	140569183	140592618	81	15	42768	2.0963	0.018029	PCDHB11		
ENSG00000132600	16	68334877	68402466	227	21	50247	2.0959	0.018046	PRMT7		
ENSG00000088882	20	2764715	2791283	101	23	43596	2.0956	0.018059	CPXM1		
ENSG00000129038	15	74208330	74254478	187	35	42999	2.0951	0.018083	LOXL1		
ENSG00000158805	16	89776808	89817311	257	29	37065	2.0944	0.018111	ZNF276		
ENSG00000143469	1	210101538	210347636	474	34	44245	2.0943	0.018116	SYT14		
ENSG00000170153	4	141770961	142144031	1140	101	45840	2.0939	0.018135	RNF150		
ENSG00000268861	19	7435850	7545131	545	45	45210	2.0917	0.018233	CTD-2207O23.3		
ENSG00000148057	9	86227964	86269045	127	19	47183	2.0912	0.018256	IDNK		
ENSG00000067208	1	92964253	93267961	770	30	39254	2.0908	0.018272	EVI5		
ENSG00000153443	16	4648884	4675028	97	13	35703	2.0907	0.018276	UBALD1		
ENSG00000155275	4	8427867	8505258	373	37	43657	2.0905	0.018285	TRMT44		
ENSG00000237847	1	16989498	17010007	8	4	31697	2.0904	0.01829	FAM231A		
ENSG00000166831	15	65022091	65077786	153	20	34794	2.0901	0.018303	RBPM52		
ENSG00000178795	11	76917603	77022732	425	38	38306	2.0887	0.018369	GDPD4		
ENSG00000168356	3	38877260	39002052	358	37	43119	2.0882	0.018389	SCN11A		
ENSG00000243232	5	140335820	140401936	120	26	53408	2.0879	0.018402	PCDHAC2		
ENSG00000113262	5	178395328	178433207	203	37	44295	2.0875	0.01842	GRM6		
ENSG00000075336	18	71805746	71836197	140	11	33348	2.0868	0.018454	TIMM21		
ENSG00000255730	19	41846758	41940906	251	17	51879	2.0867	0.018456	CTC-435M10.3		
ENSG00000204516	6	31452658	31488901	478	40	51217	2.0865	0.018467	MICB		
ENSG00000128610	7	121931448	121960745	70	21	45898	2.0864	0.01847	FEZF1		
ENSG00000153827	2	230618554	230797955	269	31	54347	2.086	0.018492	TRIP12		
ENSG00000111834	6	116927642	116964148	149	20	51766	2.0858	0.018496	RSPH4A		
ENSG00000113141	5	140016643	140052064	77	11	53958	2.0857	0.018503	IK		
ENSG00000164187	5	36088514	36162063	115	27	40214	2.0844	0.018562	LMBRD2		
ENSG00000172320	11	59200617	59221667	88	12	42257	2.0842	0.018571	OR5A1		
ENSG00000226104	19	10741715	10762093	49	7	55775	2.0842	0.018571	AC011475.1		
ENSG00000178188	16	28847921	28895526	91	7	26261	2.0838	0.018591	SH2B1		
ENSG00000136877	9	130546876	130586606	109	17	39724	2.0836	0.018596	FPGS		
ENSG00000176177	22	40129049	40299868	253	29	52001	2.0828	0.018633	ENTHD1		
ENSG00000139218	12	46302914	46395903	137	25	48243	2.0826	0.018644	SCAF11		
ENSG00000143155	1	168138171	168179950	131	15	39655	2.0825	0.018646	TIPRL		

ENSG00000178403	4	113424672	113447328	67	16	53955	2.0813	0.018704	NEUROG2		
ENSG00000129467	14	24777555	24814299	125	24	36883	2.0808	0.018726	ADCY4		
ENSG00000267942	12	66281518	66327967	83	22	36580	2.0805	0.01874	AC090673.2		
ENSG00000047936	6	117599463	117757018	596	75	48405	2.0802	0.018752	ROS1		
ENSG00000121892	4	39814483	39989576	579	53	43864	2.08	0.018765	PDS5A		
ENSG00000130270	19	1772074	1822275	148	39	42316	2.08	0.018765	ATP8B3		
ENSG00000115944	2	42550686	42662228	259	26	51883	2.0795	0.018788	COX7A2L		
ENSG00000117318	1	23874409	23896285	54	16	33745	2.0791	0.018806	ID3		
ENSG00000047932	6	117629374	117933691	1135	81	49808	2.0781	0.01885	GOPC		
ENSG00000104765	8	26230414	26373152	592	99	46112	2.078	0.018854	BNIP3L		
ENSG00000126231	13	113802968	113836694	66	7	25254	2.0775	0.018877	PROZ		
ENSG00000171681	12	14508610	14661697	451	40	47768	2.0773	0.018888	ATF7IP		
ENSG00000164707	7	135355985	135424006	242	33	51848	2.0761	0.018944	SLC13A4		
ENSG00000141258	17	2230792	2294352	213	35	37844	2.076	0.018949	SGSM2		
ENSG00000167971	16	2217184	2256526	67	18	41054	2.0754	0.018973	CASKIN1		
ENSG00000162409	1	57100995	57191008	345	31	45615	2.0754	0.018975	PRKAA2		
ENSG00000136147	13	50059746	50113123	252	23	37609	2.075	0.018995	PHF11		
ENSG00000129282	17	34948001	34975407	84	16	39225	2.0735	0.019063	MRM1		
ENSG00000178691	17	30254037	30338064	239	12	51723	2.0729	0.019092	SUZ12		
ENSG00000110721	11	67810326	67898911	150	22	54229	2.0725	0.019107	CHKA		
ENSG00000185745	10	91142303	91173745	98	19	32176	2.0722	0.019124	IFIT1		
ENSG00000198732	14	70310848	70509083	780	112	43878	2.0718	0.019141	SMOC1		
ENSG00000123064	12	113584979	113633284	101	13	54507	2.0714	0.01916	DDX54		
ENSG00000119771	2	23598088	23941481	1336	158	46437	2.071	0.019178	KLHL29		
ENSG00000119242	12	124393207	124467378	162	15	50315	2.0706	0.019198	CCDC92		
ENSG00000170915	6	52216219	52282575	279	48	43718	2.0704	0.019209	PAQR8		
ENSG00000272741	3	195965101	196055093	274	22	47452	2.07	0.019227	RP11-447L10.1		
ENSG00000130182	16	3128891	3159318	85	16	45613	2.07	0.019227	ZSCAN10		
ENSG00000047579	6	15513032	15673289	400	34	43528	2.069	0.019275	DTNBP1		
ENSG00000066827	8	135480031	135735292	893	92	47918	2.0688	0.01928	ZFAT		
ENSG00000167785	19	8910380	8953004	134	15	55582	2.0685	0.019295	ZNF558		
ENSG00000009954	7	72844728	72946608	173	23	52228	2.068	0.019322	BAZ1B		
ENSG00000188620	10	124885478	124907257	39	16	45147	2.0672	0.019357	HMX3		
ENSG00000184005	1	76530404	77110286	1968	197	41075	2.0666	0.019386	ST6GALNAC3		
ENSG00000100335	22	39885437	39924137	70	18	49411	2.0658	0.019423	MIEF1		
ENSG00000196176	6	26011907	26032278	58	16	43523	2.0652	0.019452	HIST1H4A		

ENSG00000186654	22	45054593	45143561	496	89	43873	2.0646	0.019482	PRR5		
ENSG00000176547	11	48336472	48357507	74	11	32630	2.064	0.01951	OR4C3		
ENSG00000130167	19	11396824	11447672	148	23	35474	2.0638	0.019516	TSPAN16		
ENSG00000121152	2	96991525	97049583	73	15	32865	2.0637	0.019523	NCAPH		
ENSG00000165392	8	30881317	31041285	384	46	50240	2.0621	0.0196	WRN		
ENSG00000087008	4	8358009	8452450	420	52	45723	2.0606	0.019671	ACOX3		
ENSG00000176472	19	44019649	44050282	111	19	47598	2.0596	0.019717	ZNF575		
ENSG00000180957	22	28237657	28326122	170	23	50063	2.0596	0.019717	PITPNB		
ENSG00000163283	2	233233244	233257599	104	27	49614	2.0595	0.019723	ALPP		
ENSG00000125977	20	32666104	32710138	64	11	42256	2.0591	0.01974	EIF2S2		
ENSG00000188636	22	44878452	44904178	94	16	40079	2.059	0.019748	LDOC1L		
ENSG00000188191	7	578834	777287	694	95	47944	2.0589	0.01975	PRKAR1B		
ENSG00000104112	15	51963550	52023223	168	27	52453	2.0585	0.019769	SCG3		
ENSG00000090060	14	96957770	97043448	171	20	53746	2.0584	0.019778	PAPOLA		
ENSG00000171806	1	169751670	169774107	102	17	55119	2.0582	0.019786	METTL18		
ENSG00000187049	11	61149159	61176335	22	8	40640	2.0579	0.019801	TMEM216		
ENSG00000131650	16	3003945	3028384	74	14	46722	2.0576	0.019816	KREMEN2		
ENSG00000126266	19	35832445	35853367	99	34	42634	2.0574	0.019822	FFAR1		
ENSG00000186952	5	109614934	110084657	1267	68	37166	2.0568	0.019852	TMEM232		
ENSG00000105516	19	49123287	49150695	54	10	33331	2.0555	0.019914	DBP		
ENSG00000136231	7	23339828	23520086	461	66	43299	2.0542	0.019976	IGF2BP3		
ENSG00000166794	15	64438011	64465404	55	11	43996	2.0536	0.02001	PPIB		
ENSG00000204946	7	148949262	149004393	179	27	47495	2.0533	0.020024	ZNF783		
ENSG00000204491	1	13464689	13487522	3	1	44440	2.0528	0.020047	PRAMEF18		
ENSG00000181513	17	43199967	43231548	74	20	50792	2.052	0.020085	ACBD4		
ENSG00000172667	3	178725011	178800067	178	24	52264	2.0511	0.020127	ZMAT3		
ENSG00000079277	1	47013090	47092515	167	25	42141	2.0503	0.020165	MKNK1		
ENSG00000048392	8	103206730	103261346	196	26	52077	2.0502	0.020172	RRM2B		
ENSG00000168334	3	39214701	39244087	61	18	51386	2.0498	0.020192	XIRP1		
ENSG00000174564	3	136655072	136739927	170	16	38806	2.0497	0.020196	IL20RB		
ENSG00000172232	19	815097	842017	106	31	46538	2.0497	0.020196	AZU1		
ENSG00000174989	12	117338761	117478953	340	28	30281	2.0491	0.020225	FBXW8		
ENSG00000142959	1	45239257	45263377	54	10	44684	2.0491	0.020227	BEST4		
ENSG00000143951	2	63338518	64064977	1745	69	43569	2.049	0.020232	WDPCP		
ENSG00000154511	1	93297724	93437057	243	14	41305	2.0488	0.020241	FAM69A		
ENSG00000123178	13	50476842	50520626	74	10	49192	2.0487	0.020244	SPRYD7		

ENSG00000180596	6	26105101	26134154	106	13	54940	2.0487	0.020245	HIST1H2BC		
ENSG00000197321	10	29736267	30035710	1337	144	51293	2.0484	0.02026	SVIL		
ENSG00000261787	8	67848736	67884825	42	13	43775	2.0482	0.020269	TCF24		
ENSG00000183733	2	70994442	71027775	133	18	42072	2.0479	0.020284	FIGLA		
ENSG00000131943	19	30181721	30216364	120	20	27243	2.0471	0.020322	C19orf12		
ENSG00000120833	12	93953590	93987263	101	20	45172	2.0469	0.020334	SOCS2		
ENSG00000135577	6	142369467	142419936	128	15	46410	2.0467	0.020345	NMBR		
ENSG00000103199	16	4788240	4827625	180	23	48061	2.0463	0.020361	ZNF500		
ENSG00000136048	12	102261129	102415908	616	84	41637	2.0453	0.020412	DRAM1		
ENSG00000117480	1	46849937	46889520	104	17	37906	2.0447	0.02044	FAAH		
ENSG00000130695	1	26550691	26615299	189	15	46483	2.0447	0.020442	CEP85		
ENSG00000186815	12	113648855	113746390	210	19	55531	2.0431	0.020519	TPCN1		
ENSG00000176555	11	48317775	48338704	92	11	31645	2.0428	0.020537	OR4S1		
ENSG00000068745	3	48715436	48787786	119	16	46781	2.041	0.020627	IP6K2		
ENSG00000133640	12	85420092	85667002	365	30	45279	2.0404	0.020653	LRRIQ1		
ENSG00000178125	8	67866334	67978839	134	13	34355	2.0404	0.020656	PPP1R42		
ENSG00000170091	5	173462607	173680504	798	120	42426	2.0401	0.02067	NSG2		
ENSG00000069018	5	135538999	135742730	564	47	50214	2.0383	0.020759	TRPC7		
ENSG00000104883	19	7531761	7572335	176	39	48483	2.036	0.020878	PEX11G		
ENSG00000158815	8	21889909	21916320	77	32	43596	2.0359	0.02088	FGF17		
ENSG00000086991	11	89047524	89332779	679	79	39345	2.0348	0.020934	NOX4		
ENSG00000203747	1	161501549	161610917	168	45	35591	2.0343	0.020958	FCGR3A		
ENSG00000185842	1	225073964	225596996	1731	72	37607	2.0344	0.020958	DNAH14		
ENSG00000214435	10	104619273	104671656	185	18	49500	2.0337	0.020992	AS3MT		
ENSG00000185264	22	37377163	37413882	207	23	52298	2.0331	0.021022	TEX33		
ENSG00000110455	11	44077475	44115772	143	27	53008	2.0326	0.021049	ACCS		
ENSG00000171016	15	55821088	55891145	284	33	42999	2.0322	0.021066	PYGO1		
ENSG00000115884	2	20390558	20435194	175	29	50799	2.0319	0.021083	SDC1		
ENSG00000197980	3	156533270	156773918	767	53	46305	2.0316	0.021098	LEKR1		
ENSG00000168488	16	28824356	28858558	77	7	27567	2.0314	0.021105	ATXN2L		
ENSG00000103061	16	68308406	68354849	105	17	49094	2.0302	0.021169	SLC7A6OS		
ENSG00000158125	2	31547187	31647581	368	71	48342	2.0298	0.021188	XDH		
ENSG00000065609	6	84252599	84429410	440	48	50100	2.0292	0.021217	SNAP91		
ENSG00000131165	16	89700839	89734253	134	25	42518	2.0289	0.021235	CHMP1A		
ENSG00000103056	16	68382231	68492591	261	34	47974	2.0285	0.021254	SMPD3		
ENSG00000163793	2	27488289	27514367	42	10	40783	2.0283	0.021265	DNAJC5G		

ENSG00000126070	1	36386319	36548101	110	29	51838	2.0279	0.021287	AGO3		
ENSG00000010244	17	30667136	30718905	91	16	40794	2.0271	0.021327	ZNF207		
ENSG00000133116	13	33580207	33650282	257	30	44971	2.0267	0.021346	KL		
ENSG00000204482	6	31543901	31566686	108	31	43379	2.026	0.021384	LST1		
ENSG00000158793	1	161077876	161105235	52	9	53961	2.0251	0.021428	NIT1		
ENSG00000185056	5	173390782	173443143	218	20	39734	2.025	0.021436	C5orf47		
ENSG00000015413	16	89669716	89714839	173	33	48080	2.0248	0.021442	DPEP1		
ENSG00000115828	2	37561717	37610465	180	41	46705	2.0231	0.021529	QPCT		
ENSG00000170956	19	42290369	42325591	53	6	30994	2.0228	0.021546	CEACAM3		
ENSG00000196132	20	62773144	62883604	384	72	46024	2.0224	0.021566	MYT1		
ENSG00000160741	1	153910145	153941101	47	10	49364	2.0215	0.021611	CRTC2		
ENSG00000172774	11	57972217	57993195	96	13	46086	2.0214	0.02162	OR1S1		
ENSG00000153879	19	33854236	33883592	109	17	48727	2.0209	0.021647	CEBPG		
ENSG00000185565	3	115511235	117726095	7123	432	44395	2.0207	0.021653	LSAMP		
ENSG00000104093	15	51729908	51925030	515	22	55031	2.0196	0.021712	DMXL2		
ENSG00000196532	6	26035639	26056097	60	14	40531	2.0191	0.021738	HIST1H3C		
ENSG00000115194	2	27466552	27508685	88	16	41916	2.0181	0.021792	SLC30A3		
ENSG00000170727	8	145476055	145525082	57	7	51694	2.0177	0.02181	BOP1		
ENSG00000080802	7	135036547	135204875	365	47	54538	2.0176	0.021814	CNOT4		
ENSG00000188848	4	42102955	42164895	206	28	40672	2.0173	0.021834	BEND4		
ENSG00000057935	2	42711709	42994087	730	50	45333	2.0171	0.021841	MTA3		
ENSG00000161813	12	50776166	50883787	87	33	41141	2.0157	0.021918	LARP4		
ENSG00000066923	7	99765186	99829111	162	12	46842	2.0156	0.021922	STAG3		
ENSG00000125753	19	45999837	46040241	123	22	52182	2.015	0.021954	VASP		
ENSG00000197263	11	124179134	124200184	75	13	42311	2.0144	0.021982	OR8D2		
ENSG00000122971	12	121153538	121187811	121	23	42832	2.014	0.022006	ACADS		
ENSG00000186094	1	48988527	50499585	2425	118	37620	2.0135	0.022029	AGBL4		
ENSG00000152822	6	146338782	146768734	818	91	43046	2.0133	0.022041	GRM1		
ENSG00000089101	20	20023158	20351346	826	130	51325	2.0124	0.022089	C20orf26		
ENSG00000007392	16	228968	289462	144	24	46485	2.0117	0.022124	LUC7L		
ENSG00000134352	5	55220923	55300821	157	23	41332	2.0106	0.022186	IL6ST		
ENSG00000179195	12	124446392	124509986	132	16	48748	2.0105	0.022192	ZNF664		
ENSG00000100095	22	26555440	26789562	954	143	43380	2.0093	0.022253	SEZ6L		
ENSG00000090263	7	140695854	140725028	68	10	49500	2.009	0.02227	MRPS33		
ENSG00000112667	6	43183367	43207222	84	17	44460	2.0086	0.02229	DNPH1		
ENSG00000178952	16	28843732	28867729	49	6	25919	2.0085	0.022295	TUFM		

ENSG00000169231	1	155155379	155188842	52	13	48569	2.0084	0.022302	THBS3		
ENSG00000221838	7	99689172	99717968	64	11	51647	2.008	0.022322	AP4M1		
ENSG00000152582	5	35607946	35824713	728	66	44210	2.0076	0.022343	SPEF2		
ENSG00000145780	5	114846608	114890591	88	19	52254	2.0064	0.022405	FEM1C		
ENSG00000164175	5	33934721	33994835	87	28	29558	2.0062	0.022415	SLC45A2		
ENSG00000138347	10	69855912	69981774	561	53	41721	2.0059	0.022432	MYPN		
ENSG00000259316	15	64462547	64675980	426	34	44084	2.0057	0.022446	CTD-2116N17.1		
ENSG00000172046	3	49135479	49168371	32	11	43681	2.0054	0.022462	USP19		
ENSG00000119335	9	131435703	131468679	25	10	53803	2.003	0.02259	SET		
ENSG00000168090	7	99676577	99699823	48	9	50512	2.0022	0.022631	COPS6		
ENSG00000168079	8	27717399	27860244	640	88	48027	2.0019	0.022647	SCARA5		
ENSG00000135870	1	173890352	174001435	231	19	34800	2.0018	0.02265	RC3H1		
ENSG00000145191	3	183842826	184412546	2008	241	47718	2.0017	0.022658	EIF2B5		
ENSG00000163870	3	127281912	127327094	46	17	54196	2.0013	0.022678	TPRA1		
ENSG00000123892	11	87836410	87918635	346	36	50747	2.0003	0.022732	RAB38		
ENSG00000010704	6	26077509	26108571	106	21	41094	1.9993	0.022787	HFE		
ENSG00000121022	8	67945314	68006018	90	10	34727	1.999	0.022804	COPS5		
ENSG00000131188	5	176863446	176893283	69	11	33924	1.9982	0.022849	PRR7		
ENSG00000061794	12	27853706	27919228	187	18	54217	1.9977	0.022872	MRPS35		
ENSG00000225996	1	150511897	150534367	61	22	45465	1.9964	0.022943	AL356356.1		
ENSG00000185567	14	105393581	105454694	177	27	46419	1.9962	0.022955	AHNAK2		
ENSG00000248405	22	45088113	45268586	1213	177	43083	1.9954	0.022998	PRR5-ARHGAP8		
ENSG00000188603	16	28467983	28516896	67	14	38993	1.9952	0.023008	CLN3		
ENSG00000164080	3	51565160	51712683	118	35	52109	1.9952	0.023013	RAD54L2		
ENSG00000103044	16	69129467	69162622	59	18	55069	1.995	0.023023	HAS3		
ENSG00000271810	1	113235236	113264055	74	19	53037	1.9939	0.023082	RP11-426L16.10		
ENSG00000253350	8	105592961	106441488	2505	205	44151	1.9933	0.023116	RP11-127H5.1		
ENSG00000175711	17	80890031	81019686	700	86	51063	1.9931	0.023126	B3GNTL1		
ENSG00000115183	2	159815146	160099170	940	108	39846	1.9917	0.023203	TANC1		
ENSG00000168806	15	43609974	43632803	35	8	35956	1.9913	0.023222	LCMT2		
ENSG00000150961	4	119633978	119769838	527	23	48390	1.9911	0.023235	SEC24D		
ENSG00000137171	6	42998515	43052837	140	19	38789	1.9909	0.023245	KLC4		
ENSG00000142937	1	45230923	45254451	45	9	41892	1.9908	0.023254	RPS8		
ENSG00000162552	1	22433798	22480462	169	30	47129	1.9904	0.023271	WNT4		
ENSG00000126249	19	34885289	34927073	93	20	38754	1.9904	0.023271	PDCD2L		
ENSG00000268242	11	11737060	11757257	65	18	49453	1.9899	0.023301	AC131935.1		

ENSG00000163915	3	185420316	185457575	49	17	48466	1.9878	0.023415	<i>C3orf65</i>		
ENSG00000171517	1	85267285	85368896	388	74	52030	1.9878	0.023419	<i>LPAR3</i>		
ENSG00000168591	17	42254338	42279099	48	12	41375	1.9871	0.023455	<i>TMUB2</i>		
ENSG00000164306	4	185560767	185626117	305	21	47344	1.9865	0.023491	<i>PRIMPOL</i>		
ENSG00000120328	5	140578269	140601696	68	16	41651	1.9864	0.023496	<i>PCDHB12</i>		
ENSG00000141579	17	80777311	80808454	137	18	47122	1.9858	0.023526	<i>ZNF750</i>		
ENSG00000081665	19	19886648	19942560	165	22	43185	1.9856	0.023538	<i>ZNF506</i>		
ENSG00000176349	7	1868222	1899567	189	18	44478	1.9847	0.023592	<i>AC110781.3</i>		
ENSG00000241484	22	45088355	45268665	1211	172	43097	1.9841	0.023621	<i>ARHGAP8</i>		
ENSG00000168928	16	75227994	75251083	180	27	47920	1.9841	0.023623	<i>CTRB2</i>		
ENSG00000125447	17	73222694	73268444	91	15	40655	1.984	0.023629	<i>GGA3</i>		
ENSG00000108175	10	80818792	81086276	951	180	42702	1.983	0.023685	<i>ZMIZ1</i>		
ENSG00000180573	6	26114373	26149344	93	15	53081	1.9829	0.023687	<i>HIST1H2AC</i>		
ENSG00000143570	1	153921575	153950188	41	9	49224	1.9826	0.023704	<i>SLC39A1</i>		
ENSG00000112234	6	99306420	99405849	228	24	52624	1.9824	0.023719	<i>FBXL4</i>		
ENSG00000100865	14	102798956	102839253	90	22	46660	1.9823	0.023725	<i>CINP</i>		
ENSG00000100991	20	33580207	33690674	347	23	50019	1.9823	0.023725	<i>TRPC4AP</i>		
ENSG00000150995	3	4525032	4899524	1288	193	41148	1.982	0.02374	<i>ITPR1</i>		
ENSG00000092964	8	26361791	26525694	757	76	44053	1.9814	0.023775	<i>DPYSL2</i>		
ENSG00000166250	11	122933035	123075989	670	82	45903	1.9806	0.023817	<i>CLMP</i>		
ENSG00000115827	2	172280727	172351562	234	18	50381	1.9804	0.023829	<i>DCAF17</i>		
ENSG00000163659	3	156381024	156434559	136	17	56580	1.9802	0.023841	<i>TIPARP</i>		
ENSG00000158062	1	26597819	26654854	155	15	41487	1.98	0.023851	<i>UBXN11</i>		
ENSG00000254636	10	124204169	124226868	87	14	51735	1.9796	0.023877	<i>ARMS2</i>		
ENSG00000171115	7	150137718	150186480	98	23	46238	1.9794	0.023884	<i>GIMAP8</i>		
ENSG00000164754	8	117848174	117897105	146	19	31805	1.9787	0.023927	<i>RAD21</i>		
ENSG00000187079	11	12685969	12976298	593	74	46517	1.9785	0.023939	<i>TEAD1</i>		
ENSG00000172365	11	58179738	58200786	106	6	53091	1.9774	0.024	<i>OR5B2</i>		
ENSG00000007968	1	23822922	23867712	119	21	34016	1.9771	0.024014	<i>E2F2</i>		
ENSG00000151846	13	25660300	25683389	58	11	54440	1.9765	0.02405	<i>PABPC3</i>		
ENSG00000166748	15	86675227	87582283	4153	302	46341	1.9762	0.024068	<i>AGBL1</i>		
ENSG00000109458	4	144247915	144405721	355	48	46799	1.9761	0.02407	<i>GAB1</i>		
ENSG00000261832	16	28467974	28513333	58	12	37663	1.9754	0.024109	<i>CLN3</i>		
ENSG00000119673	14	74024324	74052357	135	29	27629	1.9749	0.024141	<i>ACOT2</i>		
ENSG00000189079	12	46113448	46311823	214	37	46689	1.9745	0.024163	<i>ARID2</i>		
ENSG00000171604	5	139016884	139073467	111	18	49225	1.9744	0.024169	<i>CXXC5</i>		

ENSG00000147481	8	50812349	51716678	3019	115	42709	1.9738	0.024203	<i>SNTG1</i>		
ENSG00000126777	14	56015790	56178244	572	26	53437	1.9733	0.024233	<i>KTN1</i>		
ENSG00000213413	7	99805864	99829113	81	9	45405	1.9731	0.02424	<i>PVRIG</i>		
ENSG00000070476	3	126146444	126204762	234	31	45815	1.9729	0.024255	<i>ZXDC</i>		
ENSG00000169641	1	23400516	23514301	274	26	44798	1.9728	0.024259	<i>LUZP1</i>		
ENSG00000136156	13	48797294	48847063	79	14	41027	1.9721	0.024299	<i>ITM2B</i>		
ENSG00000110435	11	34927376	35052138	603	33	31619	1.9718	0.024319	<i>PDHX</i>		
ENSG00000174099	12	65662423	65892024	426	40	44255	1.9717	0.024324	<i>MSRB3</i>		
ENSG00000125124	16	56490748	56564195	183	24	38724	1.9712	0.024348	<i>BBS2</i>		
ENSG00000125818	20	1083906	1170596	213	43	49264	1.97	0.024417	<i>PSMF1</i>		
ENSG00000087077	7	100454760	100481076	66	12	42941	1.9699	0.024422	<i>TRIP6</i>		
ENSG00000169228	5	176718199	176740745	57	14	39960	1.9694	0.024455	<i>RAB24</i>		
ENSG00000132005	19	14062350	14127851	59	26	46463	1.969	0.024476	<i>RFX1</i>		
ENSG00000172362	11	58196593	58217646	72	7	53766	1.9688	0.02449	<i>OR5B12</i>		
ENSG00000143546	1	153352508	153373664	65	6	54035	1.9686	0.024497	<i>S100A8</i>		
ENSG00000141013	16	90076037	90121383	194	32	36884	1.9683	0.024519	<i>GAS8</i>		
ENSG00000104218	8	67964661	68118498	207	21	37719	1.9681	0.024526	<i>CSPP1</i>		
ENSG00000095752	19	55865757	55891831	96	21	42248	1.9676	0.024556	<i>IL11</i>		
ENSG00000139117	12	39030624	39311232	746	69	33750	1.9669	0.024599	<i>CPNE8</i>		
ENSG00000181163	5	170804120	170848141	159	12	55034	1.9667	0.024608	<i>NPM1</i>		
ENSG00000168917	3	136527489	136584734	180	9	55054	1.9663	0.024635	<i>SLC35G2</i>		
ENSG00000169118	15	64447716	64658442	424	34	44343	1.9659	0.024654	<i>CSNK1G1</i>		
ENSG00000168830	6	87637024	87736349	297	32	39805	1.9656	0.024675	<i>HTR1E</i>		
ENSG00000162374	1	50503686	50679458	218	43	41226	1.9655	0.024678	<i>ELAVL4</i>		
ENSG00000157045	16	15121710	15159921	110	13	45957	1.9655	0.024678	<i>NTAN1</i>		
ENSG00000111832	6	116882530	116928838	127	19	53719	1.9646	0.024729	<i>RWDD1</i>		
ENSG00000180855	19	12530521	12561926	280	11	47583	1.9639	0.02477	<i>ZNF443</i>		
ENSG00000153283	3	111001566	111394597	1228	93	38207	1.9639	0.024773	<i>CD96</i>		
ENSG00000213347	5	176718462	176749758	69	17	40225	1.9636	0.024788	<i>MXD3</i>		
ENSG00000163749	4	77224154	77353021	258	26	43803	1.9633	0.024804	<i>CCDC158</i>		
ENSG00000270316	10	104604029	104671656	229	22	49294	1.9629	0.024826	<i>C10orf32-ASMT</i>		
ENSG00000182752	9	118906083	119174601	513	107	46740	1.9629	0.024827	<i>PAPPA</i>		
ENSG00000196800	5	147539296	147564961	158	6	49120	1.9627	0.02484	<i>SPINK14</i>		
ENSG00000137845	15	58877403	59052177	320	36	37272	1.9627	0.024843	<i>ADAM10</i>		
ENSG00000224186	5	134358970	134701744	843	139	41795	1.9624	0.024857	<i>C5orf66</i>		
ENSG00000122042	13	30328508	30434821	299	25	53511	1.9617	0.024899	<i>UBL3</i>		

ENSG00000269783	10	99617889	99641294	55	13	39211	1.961	0.024939	GOLGA7B		
ENSG00000124496	6	42182669	42429789	659	93	39371	1.9609	0.024945	TRERF1		
ENSG00000118564	4	15596162	15693302	308	24	55254	1.9604	0.024977	FBXL5		
ENSG00000105220	19	34840385	34903061	155	27	39058	1.9597	0.025015	GPI		
ENSG00000100678	14	70500934	70665787	677	83	52625	1.9594	0.025034	SLC8A3		
ENSG00000069399	19	45240962	45273301	117	26	41366	1.9584	0.025093	BCL3		
ENSG00000053371	1	19620459	19648640	106	24	53283	1.9581	0.025109	AKR7A2		
ENSG00000172461	6	96453860	96673488	860	80	47345	1.9569	0.025179	FUT9		
ENSG00000196620	4	69502348	69546346	101	23	48235	1.9567	0.02519	UGT2B15		
ENSG00000130706	20	60867149	60893918	101	25	48787	1.9566	0.025194	ADRM1		
ENSG00000214325	16	75718367	75744089	65	10	43633	1.9561	0.025228	AC025287.1		
ENSG00000151117	11	18704669	18736332	106	28	48778	1.9557	0.025248	TMEM86A		
ENSG00000170923	19	9202945	9223982	119	9	48687	1.9554	0.025267	OR7G2		
ENSG00000157837	12	121190313	121352174	582	41	34712	1.9549	0.025297	SPPL3		
ENSG00000170381	7	82983222	83288326	1195	76	39297	1.9549	0.0253	SEMA3E		
ENSG00000165156	8	124250696	124297781	26	17	46523	1.9543	0.025332	ZHX1		
ENSG00000205302	5	122100691	122175803	305	25	44113	1.9542	0.025337	SNX2		
ENSG00000163704	3	9977226	10004078	65	12	38087	1.9535	0.025381	PRRT3		
ENSG00000143578	1	153930010	153956839	41	10	48816	1.9535	0.025382	CREB3L4		
ENSG00000166508	7	99680351	99709563	67	10	50561	1.9506	0.025552	MCM7		
ENSG00000178234	7	151712759	151829425	147	23	33070	1.9505	0.025557	GALNT11		
ENSG00000214944	5	72911983	73247818	1105	120	47539	1.9503	0.025571	ARHGEF28		
ENSG00000038210	4	25152263	25290714	450	52	43707	1.9497	0.025604	PI4K2B		
ENSG00000157216	1	54681105	54889152	631	111	44003	1.9484	0.025685	SSBP3		
ENSG00000122033	13	27999776	28034739	136	18	42562	1.9483	0.025688	MTIF3		
ENSG00000179144	7	150201918	150228161	134	20	48585	1.9483	0.025692	GIMAP7		
ENSG00000184897	3	129023615	129045120	40	8	41856	1.9482	0.025697	H1FX		
ENSG00000054967	11	73077309	73118519	85	18	42521	1.9479	0.025712	RELT		
ENSG00000233670	17	10715792	10751762	98	23	49380	1.9478	0.025722	PIRT		
ENSG00000103994	15	42695021	42793321	191	28	40837	1.9468	0.025778	ZNF106		
ENSG00000218357	22	47847048	47892860	141	23	50234	1.9462	0.025817	LL22NC03-75H12.2		
ENSG00000003249	16	90061273	90096536	151	32	37572	1.9456	0.025854	DBNDD1		
ENSG00000005001	16	2892728	2918171	98	15	47083	1.945	0.025888	PRSS22		
ENSG00000172772	11	58024264	58045732	108	10	44252	1.9446	0.025911	OR10W1		
ENSG00000174595	7	130407401	130428888	78	18	41848	1.944	0.025948	KLF14		
ENSG00000175727	12	122506628	122641894	294	15	54578	1.9439	0.025956	MLXIP		

ENSG00000196934	22	21727663	21753446	5	3	42635	1.9436	0.025972	<i>RIMBP3B</i>		
ENSG00000170921	17	61076917	61515060	807	64	47429	1.9434	0.025987	<i>TANC2</i>		
ENSG00000234745	6	31311649	31334965	1022	84	38590	1.9425	0.026036	<i>HLA-B</i>		
ENSG00000240682	3	128836258	128890136	57	16	36909	1.9424	0.026047	<i>ISY1</i>		
ENSG00000174695	5	82338665	82383682	122	13	38980	1.9421	0.026061	<i>TMEM167A</i>		
ENSG00000255394	8	11608896	11630309	137	25	44060	1.9421	0.026062	<i>C8orf49</i>		
ENSG00000203663	1	248191474	248212607	35	7	42687	1.9421	0.026065	<i>OR2L2</i>		
ENSG00000108278	17	34832473	34865154	70	13	34681	1.9417	0.026088	<i>ZNHIT3</i>		
ENSG00000103064	16	68288433	68345722	125	19	49725	1.9416	0.026094	<i>SLC7A6</i>		
ENSG00000197889	10	14991438	15040049	241	21	48523	1.9414	0.026108	<i>MEIG1</i>		
ENSG00000196943	14	24759068	24788330	78	14	40326	1.9405	0.02616	<i>NOP9</i>		
ENSG00000222004	7	26667490	26696889	77	10	36670	1.9398	0.0262	<i>C7orf71</i>		
ENSG00000106290	7	99694693	99727464	62	13	50424	1.9393	0.026233	<i>TAF6</i>		
ENSG00000163482	2	219526749	219577439	78	12	34508	1.9384	0.026289	<i>STK36</i>		
ENSG00000105227	19	40889675	40929273	79	22	45664	1.938	0.02631	<i>PRX</i>		
ENSG00000144668	3	37483606	37875005	1147	137	46306	1.9374	0.026347	<i>ITGA9</i>		
ENSG00000166884	11	59214411	59235464	109	13	39469	1.9369	0.02638	<i>OR4D6</i>		
ENSG00000167363	17	80683451	80719073	135	17	47922	1.9367	0.026392	<i>FN3K</i>		
ENSG00000119973	10	120342916	120365160	106	17	51946	1.9364	0.026412	<i>PRLHR</i>		
ENSG00000153250	2	161118662	161360305	678	67	47975	1.9358	0.026446	<i>RBMS1</i>		
ENSG00000183379	14	74862596	74902805	111	19	50069	1.9352	0.026485	<i>SYNDIG1L</i>		
ENSG00000164244	5	126843301	126900781	195	15	45751	1.935	0.026498	<i>PRRC1</i>		
ENSG00000126653	17	28432539	28523493	158	14	35059	1.9347	0.026514	<i>NSRP1</i>		
ENSG00000177303	17	73486342	73521664	146	24	40371	1.9343	0.026537	<i>CASKIN2</i>		
ENSG00000065665	10	12161636	12221960	191	20	42294	1.9336	0.026584	<i>SEC61A2</i>		
ENSG00000260851	16	66493715	66561215	120	17	31482	1.932	0.026681	<i>RP11-403P17.5</i>		
ENSG00000077348	19	41882279	41913384	87	8	52353	1.9319	0.026686	<i>EXOSC5</i>		
ENSG00000114738	3	50638951	50696720	73	13	43035	1.9319	0.026689	<i>MAPKAPK3</i>		
ENSG00000176678	16	86599974	86625303	106	23	44086	1.9314	0.026717	<i>FOXL1</i>		
ENSG00000198837	1	153891977	153929172	61	8	51532	1.9311	0.026734	<i>DENND4B</i>		
ENSG00000114735	3	50596583	50632366	41	8	45695	1.9305	0.026774	<i>HEMK1</i>		
ENSG00000162639	1	109180912	109214148	79	15	34467	1.93	0.026802	<i>HENMT1</i>		
ENSG00000105698	19	35749881	35780724	90	14	52349	1.9288	0.026877	<i>USF2</i>		
ENSG00000107187	9	139078096	139106955	100	27	50979	1.9286	0.026892	<i>LHX3</i>		
ENSG00000111412	12	117143593	117185875	150	29	50940	1.9279	0.026931	<i>C12orf49</i>		
ENSG00000107338	9	37909131	38079210	535	43	48937	1.9276	0.026955	<i>SHB</i>		

ENSG00000153002	3	148498889	148587974	319	54	38346	1.9275	0.026961	CPB1		
ENSG00000267795	16	4828398	4856492	90	14	51567	1.927	0.026991	SMIM22		
ENSG00000179604	17	71269763	71318314	146	31	49292	1.9265	0.027019	CDC42EP4		
ENSG00000146066	5	175805748	175826772	55	13	53203	1.926	0.027053	HIGD2A		
ENSG00000044090	6	42995355	43031683	80	14	36042	1.9259	0.027056	CUL7		
ENSG00000100354	22	40430821	40741812	588	39	37023	1.9259	0.027059	TNRC6B		
ENSG00000142227	19	48814766	48843810	113	19	54659	1.9258	0.027066	EMP3		
ENSG00000157703	7	138269030	138396097	480	95	45253	1.9252	0.027099	SVOPL		
ENSG00000221970	7	144005218	144026150	1	1	43959	1.9252	0.0271	OR2A1		
ENSG00000184160	4	3758075	3780251	95	22	38813	1.9251	0.027106	ADRA2C		
ENSG00000103168	16	84201458	84230669	191	32	50791	1.9239	0.027186	TAF1C		
ENSG00000153975	6	116946781	116999957	197	22	50211	1.9236	0.027204	ZUFSP		
ENSG00000103528	16	19169293	19289652	286	61	44777	1.9223	0.027285	SYT17		
ENSG00000204475	6	31546672	31570762	117	33	40159	1.9222	0.027293	NCR3		
ENSG00000108671	17	30761279	30820336	75	15	43025	1.9216	0.027328	PSMD11		
ENSG00000197887	11	57960674	57981653	70	9	49344	1.9208	0.027382	OR1S2		
ENSG00000175309	5	177625498	177669792	205	39	46785	1.9201	0.027425	PHYKPL		
ENSG00000139800	13	100605218	100634163	72	17	43910	1.9186	0.027517	ZIC5		
ENSG00000140320	15	40721920	40770441	71	23	38539	1.9182	0.027542	BAHD1		
ENSG00000139174	12	42842140	42994157	517	76	44846	1.9178	0.027566	PRICKLE1		
ENSG00000181718	11	55989490	56010737	74	10	56401	1.9176	0.027578	OR5T2		
ENSG00000159461	16	56385364	56469450	246	21	36774	1.9176	0.027582	AMFR		
ENSG00000180988	11	5831544	5852578	157	18	50942	1.9172	0.027609	OR52N2		
ENSG00000140374	15	76497696	76613813	274	23	35101	1.917	0.02762	ETFA		
ENSG00000187664	19	19356450	19383605	82	14	38909	1.9151	0.027737	HAPLN4		
ENSG00000166819	15	90197596	90232658	64	23	44574	1.9147	0.027765	PLIN1		
ENSG00000249709	19	12626184	12672356	112	35	40573	1.9141	0.027805	ZNF564		
ENSG00000213927	9	34651877	34674045	61	11	52091	1.9141	0.027806	CCL27		
ENSG00000103126	16	327440	412673	370	49	45442	1.914	0.027809	AXIN1		
ENSG00000158315	1	39341479	39417471	249	38	36349	1.9139	0.027819	RHBDL2		
ENSG00000131711	5	71393061	71515395	289	65	47679	1.9134	0.027852	MAP1B		
ENSG00000197919	9	21430440	21451315	78	16	40861	1.9132	0.027859	IFNA1		
ENSG00000142961	1	47063387	47092563	61	10	31753	1.913	0.027872	MOB3C		
ENSG00000007341	1	113056140	113173447	286	29	49190	1.9128	0.027889	ST7L		
ENSG00000039139	5	13680440	13954652	1057	80	50452	1.9124	0.027914	DNAH5		
ENSG00000122756	9	34541430	34600121	182	33	51086	1.9123	0.027916	CNTFR		

ENSG00000143543	1	153936745	153960164	34	7	47892	1.912	0.027938	JTB		
ENSG00000143375	1	151472986	151521168	54	21	44043	1.912	0.027939	CGN		
ENSG00000160867	5	176503887	176535145	127	23	42679	1.911	0.028004	FGFR4		
ENSG00000101425	20	36878551	36975907	306	65	44920	1.9108	0.028017	BPI		
ENSG00000089916	14	76608259	76730685	449	40	43118	1.9107	0.028022	GPATCH2L		
ENSG00000269094	17	36874086	36894451	33	13	42957	1.9106	0.028025	AC006449.1		
ENSG00000056291	4	72887521	73023784	190	21	48068	1.9105	0.028034	NPFFR2		
ENSG00000109618	4	25111627	25172204	149	28	44822	1.9102	0.028054	SEPSECS		
ENSG00000126261	19	34909257	34970853	149	21	35101	1.9101	0.028063	UBA2		
ENSG00000174437	12	110708561	110798898	226	20	51609	1.9096	0.028094	ATP2A2		
ENSG00000196098	3	98062698	98083663	46	10	40024	1.9089	0.02814	OR5K4		
ENSG00000168101	16	4733695	4755860	77	11	53168	1.9084	0.028168	NUDT16L1		
ENSG00000113194	5	175864629	175947075	205	28	45038	1.9082	0.028183	FAF2		
ENSG00000071054	2	102303312	102521149	428	42	48167	1.9076	0.028222	MAP4K4		
ENSG00000183090	4	144488455	144631828	349	33	47556	1.9073	0.028239	FREM3		
ENSG00000021645	14	78698734	80340762	4494	354	43039	1.9072	0.02825	NRXN3		
ENSG00000116497	1	33272368	33334476	105	15	53940	1.9071	0.028254	S100PBP		
ENSG00000137070	9	34640699	34671889	72	14	54377	1.907	0.028258	IL11RA		
ENSG00000233232	16	28457693	28491868	19	7	32329	1.9067	0.028281	NP1PB7		
ENSG00000205744	19	6457218	6492568	111	25	40018	1.9066	0.028288	DENND1C		
ENSG00000198366	6	26010718	26031186	53	14	42450	1.9065	0.028296	HIST1H3A		
ENSG00000105767	19	44116520	44153991	85	18	44154	1.9064	0.028298	CADM4		
ENSG00000263203	16	69142757	69164331	46	16	55672	1.9062	0.028314	CHTF8		
ENSG00000100379	22	37437779	37469430	68	20	47532	1.906	0.028328	KCTD17		
ENSG00000153896	19	35238981	35274134	84	18	56798	1.9054	0.028366	ZNF599		
ENSG00000165304	9	36562859	36687678	212	21	43505	1.9051	0.028383	MELK		
ENSG00000189339	1	1582939	1634167	75	16	34234	1.905	0.02839	SLC35E2B		
ENSG00000176927	17	28246218	28445470	306	22	34469	1.9046	0.028413	EFCAB5		
ENSG00000233493	19	55880613	55905966	105	25	42410	1.9044	0.028432	TMEM238		
ENSG00000144224	2	136489189	136552625	93	13	19612	1.9038	0.028465	UBXN4		
ENSG00000167751	19	51354824	51393823	216	38	45498	1.9028	0.028532	KLK2		
ENSG00000145103	3	121696170	121751051	120	23	49863	1.9021	0.028576	ILDR1		
ENSG00000135324	6	84733475	84810600	205	26	39729	1.902	0.028585	MRAP2		
ENSG00000132530	17	6648766	6688966	158	27	38471	1.9003	0.028696	XAF1		
ENSG00000113758	5	176873609	176911402	77	15	32294	1.8996	0.02874	DBN1		
ENSG00000243317	7	135337244	135388166	206	29	48275	1.8992	0.028766	C7orf73		

ENSG00000182667	11	131230373	132216716	3333	311	47038	1.8989	0.028787	NTM		
ENSG00000155640	10	98731041	98755582	23	7	43344	1.8985	0.028818	C10orf12		
ENSG00000166246	16	4774273	4809397	140	12	49749	1.898	0.02885	C16orf71		
ENSG00000166803	15	64647193	64689886	77	16	42807	1.8979	0.028857	KIAA0101		
ENSG00000183657	3	171499580	171537714	143	18	53447	1.8972	0.028898	PP13439		
ENSG00000123610	2	152204106	152246560	126	19	46997	1.897	0.028914	TNFAIP6		
ENSG00000072694	1	161541101	161658444	164	41	38707	1.8965	0.02895	FCGR2B		
ENSG00000135299	6	90132889	90353553	526	59	46068	1.8957	0.028998	ANKRD6		
ENSG00000171346	17	39659995	39688781	74	11	49819	1.8951	0.029038	KRT15		
ENSG00000148926	11	10316227	10338944	60	11	48991	1.8946	0.029075	ADM		
ENSG00000111348	12	15084951	15124662	94	19	50095	1.8941	0.029106	ARHGDIB		
ENSG00000239789	7	56009512	56034192	86	18	54062	1.8938	0.029125	MRPS17		
ENSG00000136014	12	95900336	95955266	224	47	47548	1.8929	0.029184	USP44		
ENSG00000161956	17	7455192	7485287	88	21	46062	1.8929	0.029184	SEN3		
ENSG00000114120	3	140650672	140708775	170	11	45459	1.8922	0.029232	SLC25A36		
ENSG00000248098	19	41874215	41940910	183	11	51643	1.8916	0.029275	BCKDHA		
ENSG00000179958	16	30424940	30451396	29	15	39066	1.8907	0.029332	DCTPP1		
ENSG00000266728	17	25940390	25977803	103	11	52865	1.8904	0.029349	AC015688.3		
ENSG00000166546	16	66451200	66537432	204	37	43804	1.8904	0.02935	BEAN1		
ENSG00000183206	18	14497338	14553584	176	22	40735	1.8895	0.029415	POTEC		
ENSG00000183579	22	29269580	29463475	502	62	40957	1.8893	0.029423	ZNRF3		
ENSG00000088543	3	50585462	50618458	46	10	45980	1.8889	0.02945	C3orf18		
ENSG00000164741	8	12930870	13383167	2598	173	47012	1.8889	0.029456	DLC1		
ENSG00000154957	17	11870756	11910827	92	14	53911	1.8888	0.029461	ZNF18		
ENSG00000197557	2	178467720	178493694	142	18	36569	1.8881	0.029509	TTC30A		
ENSG00000144061	2	110869888	110972643	196	17	23247	1.8881	0.02951	NPHP1		
ENSG00000169288	4	78773674	78883944	300	25	37308	1.888	0.029514	MRPL1		
ENSG00000071462	7	73087355	73129491	122	14	53052	1.8877	0.029531	WBSCR22		
ENSG00000060709	12	130870682	131210826	1528	217	42461	1.8876	0.029542	RIMBP2		
ENSG00000163586	2	88412510	88437635	79	20	37923	1.8875	0.029547	FABP1		
ENSG00000163491	3	27141576	27420951	957	53	43090	1.8873	0.029561	NEK10		
ENSG00000163681	3	57731177	57924895	328	32	51904	1.8866	0.029606	SLMAP		
ENSG00000138750	4	77025812	77079668	438	14	44029	1.8865	0.029612	NUP54		
ENSG00000184408	7	119903722	120400385	972	94	40199	1.8864	0.029619	KCND2		
ENSG00000155903	3	141195889	141344184	267	31	43006	1.886	0.029645	RASA2		
ENSG00000172893	11	71129239	71173914	89	12	25907	1.8858	0.02966	DHCR7		

ENSG00000076641	8	81870045	82034303	414	73	34335	1.8854	0.029686	PAG1		
ENSG00000166529	7	99637390	99672661	61	10	51998	1.8854	0.029687	ZSCAN21		
ENSG00000183873	3	38579548	38701164	338	78	50527	1.8853	0.029692	SCN5A		
ENSG00000128482	17	19304438	19330589	16	7	48867	1.8853	0.029695	RNF112		
ENSG00000124813	6	45285894	45642086	1102	115	45602	1.885	0.029713	RUNX2		
ENSG00000155366	1	113233728	113260056	71	16	53289	1.8848	0.029731	RHOC		
ENSG00000177200	16	53078945	53373062	808	41	50706	1.8842	0.029766	CHD9		
ENSG00000088992	12	117466728	117547284	293	38	41965	1.8842	0.02977	TESC		
ENSG00000270672	7	142364104	142385550	90	8	38698	1.8841	0.029776	MTRNR2L6		
ENSG00000203804	1	150523480	150543969	47	16	47276	1.8837	0.0298	ADAMTSL4-AS1		
ENSG00000253207	8	114602539	114639187	107	16	36297	1.8837	0.029801	RP11-67H2.1		
ENSG00000214517	11	73872144	73975748	165	33	40481	1.883	0.029853	PPME1		
ENSG00000187116	19	54808353	54834409	78	12	42548	1.8824	0.02989	LILRA5		
ENSG00000136930	9	127105745	127187723	125	21	46497	1.8803	0.030032	PSMB7		
ENSG00000142208	14	105225686	105272088	107	27	41968	1.8797	0.030071	AKT1		
ENSG00000204264	6	32798494	32822480	196	33	50356	1.8794	0.030096	PSMB8		
ENSG00000187186	9	34654160	34676109	71	11	52855	1.8794	0.030096	RP11-195F19.5		
ENSG00000053438	20	36139617	36162092	37	9	47635	1.8794	0.030096	NNAT		
ENSG00000048162	5	175800949	175825976	64	16	53545	1.879	0.030123	NOP16		
ENSG00000212719	17	21418051	21487722	49	11	45959	1.8787	0.030145	C17orf51		
ENSG00000214921	17	42315758	42337236	47	13	39979	1.8782	0.030174	AC003102.1		
ENSG00000214026	11	1958508	2015752	147	30	42771	1.8778	0.030202	MRPL23		
ENSG00000168096	16	4736513	4794379	219	25	49860	1.8778	0.030205	ANKS3		
ENSG00000183258	5	176928578	176954470	43	14	36917	1.8766	0.03029	DDX41		
ENSG00000103042	16	58689013	58729008	169	26	46252	1.8765	0.030292	SLC38A7		
ENSG00000155254	10	99462930	99487907	54	15	38521	1.8761	0.03032	MARVELD1		
ENSG00000115825	2	37467645	37561951	402	37	49078	1.8757	0.03035	PRKD3		
ENSG00000185189	8	144905764	144934200	53	15	40300	1.8753	0.030375	NRBP2		
ENSG00000205268	8	66619745	66764557	429	37	47644	1.8751	0.030389	PDE7A		
ENSG00000167904	8	56598983	56695966	293	30	49811	1.8747	0.030415	TMEM68		
ENSG00000184719	10	90023621	90354287	846	83	45239	1.8734	0.030506	RNLS		
ENSG00000188315	3	49296035	49325342	44	13	44797	1.8733	0.030511	C3orf62		
ENSG00000149480	11	62350686	62379312	40	6	45930	1.8728	0.030549	MTA2		
ENSG00000106546	7	17328246	17395776	95	26	51399	1.8727	0.030557	AHR		
ENSG00000074410	15	63603577	63684360	232	44	41492	1.8725	0.030566	CA12		
ENSG00000170959	11	30841916	31401357	927	67	45234	1.8724	0.030576	DCDC1		

ENSG00000134940	11	125531417	125561018	80	13	53492	1.872	0.030605	ACRV1		
ENSG00000076003	2	136587196	136643996	63	10	22180	1.8711	0.030664	MCM6		
ENSG00000112232	6	62379865	63006132	1847	89	46546	1.8707	0.030694	KHDRBS2		
ENSG00000135775	1	230768235	230839728	272	48	43849	1.8706	0.030701	COG2		
ENSG00000204010	10	91127813	91154962	69	16	35981	1.8704	0.030715	IFIT1B		
ENSG00000196663	14	102819300	102978818	532	35	50579	1.8703	0.030721	TECPR2		
ENSG00000196296	16	28879726	28925830	67	10	35217	1.87	0.030742	ATP2A1		
ENSG00000168269	5	169522901	169546727	128	19	43568	1.8692	0.030795	FOXI1		
ENSG00000141556	17	80699940	80910724	881	65	45982	1.8691	0.030806	TBCD		
ENSG00000151617	4	148392069	148476106	188	22	32600	1.8689	0.030818	EDNRA		
ENSG00000137574	8	56675701	56748007	245	16	53754	1.8687	0.030835	TGS1		
ENSG00000148842	10	104668050	104859978	550	36	49578	1.8654	0.031062	CNNM2		
ENSG00000168961	17	25946824	25986586	129	12	53435	1.8649	0.031101	LGALS9		
ENSG00000089091	20	18354011	18457925	364	45	44224	1.8643	0.031137	DZANK1		
ENSG00000145194	3	183957438	184020819	149	26	51042	1.8639	0.031171	ECE2		
ENSG00000185499	1	155148300	155172707	36	10	46532	1.8637	0.031179	MUC1		
ENSG00000135638	2	73133389	73172020	74	18	41836	1.8636	0.031186	EMX1		
ENSG00000172508	11	67172439	67203078	52	14	44107	1.8631	0.031226	CARNS1		
ENSG00000129270	17	34073268	34132711	167	19	48608	1.8623	0.031278	MMP28		
ENSG00000128928	15	40687686	40738146	136	15	39379	1.8614	0.031341	IVD		
ENSG00000116176	16	1261651	1285257	139	26	54766	1.8608	0.031387	TPSG1		
ENSG00000153767	3	120451484	120511916	150	23	39854	1.8598	0.03146	GTF2E1		
ENSG00000111644	12	6737241	6766626	54	15	40652	1.8594	0.031483	ACRBP		
ENSG00000013573	12	31216779	31267725	270	11	45056	1.8593	0.031489	DDX11		
ENSG00000112029	6	153281664	153314714	141	16	50943	1.8582	0.031572	FBXO5		
ENSG00000049618	6	157089063	157541913	1133	115	48051	1.8575	0.031622	ARID1B		
ENSG00000187013	17	59479112	59500641	63	11	39783	1.857	0.031653	C17orf82		
ENSG00000162869	2	48657737	48752525	306	38	50719	1.8566	0.031684	PPP1R21		
ENSG00000257923	7	101448959	101937249	1345	109	45906	1.8562	0.03171	CUX1		
ENSG00000125744	19	45978547	46010319	117	21	54074	1.856	0.031725	RTN2		
ENSG00000074582	2	219513487	219538166	62	9	35577	1.8557	0.031745	BCS1L		
ENSG00000163017	2	74109441	74156992	173	26	40682	1.8555	0.031762	ACTG2		
ENSG00000067836	16	4836969	4862951	74	18	51063	1.8554	0.031773	ROGDI		
ENSG00000204301	6	32152620	32201844	309	53	42149	1.8552	0.031781	NOTCH4		
ENSG00000143032	1	91167096	91192794	60	20	51917	1.855	0.031801	BARHL2		
ENSG00000065308	6	52352200	52451713	428	61	44351	1.8547	0.031822	TRAM2		

ENSG00000198089	22	31874674	32024572	583	42	50621	1.8542	0.031853	SFI1		
ENSG00000157766	15	89336674	89428585	307	59	41629	1.8539	0.031876	ACAN		
ENSG00000139329	12	91486406	91515608	107	15	37039	1.8538	0.031886	LUM		
ENSG00000173020	11	67023881	67064027	42	15	44804	1.8533	0.031922	ADRBK1		
ENSG00000166619	20	36110874	36166333	82	14	45619	1.8531	0.031936	BLCAP		
ENSG00000183196	16	75500949	75539282	116	26	39355	1.8528	0.031957	CHST6		
ENSG00000226479	2	120968854	120990984	45	8	49553	1.8517	0.032038	TMEM185B		
ENSG00000186834	17	43214684	43239468	50	13	48272	1.8516	0.032039	HEXIM1		
ENSG00000149782	11	64008995	64046622	72	20	45418	1.8514	0.032054	PLCB3		
ENSG00000105697	19	35761619	35786046	73	14	53494	1.8514	0.032059	HAMP		
ENSG00000137842	15	43405477	43487344	94	25	43812	1.8512	0.032071	TMEM62		
ENSG00000167969	16	2279396	2312301	70	17	49819	1.8501	0.032153	ECI1		
ENSG00000174652	19	9513272	9556254	198	11	51797	1.8497	0.032176	ZNF266		
ENSG00000042980	8	24141553	24226531	325	25	43216	1.8497	0.03218	ADAM28		
ENSG00000185122	8	145505280	145548385	87	9	48510	1.8496	0.032187	HSF1		
ENSG00000153147	4	144424616	144488639	131	11	53735	1.8493	0.032206	SMARCA5		
ENSG00000176953	16	28952128	28988418	52	16	39032	1.8492	0.032217	NFATC2IP		
ENSG00000059691	4	152581656	152692175	288	18	38914	1.8489	0.032239	PET112		
ENSG00000142910	1	32032116	32063288	53	23	43398	1.8488	0.032247	TINAGL1		
ENSG00000153721	6	154698638	154841793	668	118	46093	1.8486	0.032258	CNKS3		
ENSG00000137877	15	42130345	42196275	229	40	45170	1.8482	0.032288	SPTBN5		
ENSG00000196233	10	98582017	98750800	242	20	39112	1.8474	0.032344	LCOR		
ENSG00000144741	3	66109285	66448540	732	88	43364	1.8472	0.032362	SLC25A26		
ENSG00000163481	2	219518587	219547134	62	9	32691	1.8465	0.032413	RNF25		
ENSG00000186564	1	47891689	47916363	57	12	39041	1.8454	0.032487	FOXD2		
ENSG00000112655	6	43034006	43139457	283	42	42557	1.845	0.032518	PTK7		
ENSG00000185619	4	689537	774428	384	54	49546	1.845	0.032522	PCGF3		
ENSG00000108592	17	61886793	61917372	60	6	26376	1.8449	0.032523	FTSJ3		
ENSG00000176623	8	87470486	87536586	243	20	51686	1.8448	0.032534	RMDN1		
ENSG00000178033	6	116822809	116855955	118	12	46689	1.8443	0.032566	FAM26E		
ENSG00000112578	6	41878926	41910784	57	17	49213	1.8441	0.032586	BYSL		
ENSG00000118733	1	102258130	102472586	782	101	48760	1.8435	0.032626	OLFM3		
ENSG00000091831	6	151967826	152460754	1707	164	39229	1.8428	0.032676	ESR1		
ENSG00000124587	6	42921608	42956958	155	20	43788	1.8426	0.032695	PEX6		
ENSG00000140623	16	4817670	4848522	116	17	50024	1.8421	0.032728	Sep-12		
ENSG00000136631	1	150029369	150127505	145	15	45312	1.8416	0.032769	VPS45		

ENSG00000147955	9	34624719	34647806	51	13	52771	1.8415	0.032775	SIGMAR1		
ENSG00000213930	9	34628130	34661032	69	15	54881	1.8413	0.032789	GALT		
ENSG00000150054	10	28329922	28633415	1286	86	39222	1.8411	0.032805	MPP7		
ENSG00000065060	6	34749857	34860915	359	24	33144	1.8406	0.032841	UHRF1BP1		
ENSG00000147432	8	42542519	42602550	281	13	32341	1.8402	0.032869	CHRNA3		
ENSG00000136807	9	130537958	130563066	64	10	34640	1.8401	0.032879	CDK9		
ENSG00000213949	5	52073730	52265040	722	102	50020	1.8398	0.0329	ITGA1		
ENSG00000175416	5	175809456	175853570	117	25	50758	1.8391	0.032948	CLTB		
ENSG00000150667	15	39882232	40085031	706	55	37143	1.8391	0.032949	FSIP1		
ENSG00000112218	6	97232002	97295353	236	24	50546	1.839	0.032956	GPR63		
ENSG00000187134	10	4924796	5035475	559	65	48073	1.8382	0.033017	AKR1C1		
ENSG00000124233	20	43825638	43848413	60	9	50681	1.8378	0.033044	SEMG1		
ENSG00000198055	5	176820205	176879902	102	25	37360	1.8369	0.033115	GRK6		
ENSG00000196834	2	131207028	131277239	17	10	32364	1.8357	0.0332	POTE1		
ENSG00000204140	6	35738794	35771452	105	22	31818	1.8355	0.033219	CLPSL1		
ENSG00000170788	10	82085861	82126511	134	16	36410	1.8353	0.033231	DYDC1		
ENSG00000189233	8	27869481	27951388	236	53	47145	1.8347	0.033273	NUGGC		
ENSG00000124812	6	49791970	49854809	184	14	51007	1.8345	0.033291	CRISP1		
ENSG00000058673	1	203754782	203833252	263	22	48427	1.8336	0.033359	ZC3H11A		
ENSG00000161180	22	21977005	22001616	62	17	37061	1.8329	0.033406	CCDC116		
ENSG00000057657	6	106524195	106567814	87	27	51218	1.8328	0.033417	PRDM1		
ENSG00000116031	2	71047347	71072952	194	16	47600	1.8323	0.033456	CD207		
ENSG00000184571	22	25105001	25180687	349	41	52642	1.8319	0.033485	PIWIL3		
ENSG00000167822	11	55894247	55915194	97	10	55467	1.8305	0.033586	OR8J3		
ENSG00000152778	10	91164343	91190758	95	18	28741	1.8305	0.03359	IFIT5		
ENSG00000135835	1	180872290	180930750	171	47	47818	1.8296	0.033657	KIAA1614		
ENSG00000124466	19	43954939	43979812	69	18	45372	1.8286	0.033733	LYPD3		
ENSG00000173846	1	45255897	45281662	63	10	49726	1.8283	0.033749	PLK3		
ENSG00000196335	7	23739786	23882132	520	43	49414	1.8265	0.033889	STK31		
ENSG00000141376	17	58744814	59480199	969	92	37556	1.8259	0.033933	BCAS3		
ENSG00000269755	19	12533917	12605630	367	17	47571	1.8256	0.033952	CTD-3105H18.18		
ENSG00000169291	1	154432248	154484589	118	17	42421	1.8252	0.033983	SHE		
ENSG00000065320	17	8914859	9157317	986	144	46961	1.8251	0.033993	NTN1		
ENSG00000175318	15	72442148	72500126	93	18	51233	1.8239	0.034082	GRAMD2		
ENSG00000138767	4	78624541	78750769	249	22	35899	1.8232	0.034136	CNOT6L		
ENSG00000176601	2	135712061	135815038	224	22	24260	1.823	0.034152	MAP3K19		

ENSG00000132581	17	26965374	26999207	32	14	49325	1.8228	0.034166	<i>SDF2</i>		
ENSG00000105717	19	19662522	19739725	140	21	47379	1.8221	0.034221	<i>PBX4</i>		
ENSG00000184708	22	31822963	31902094	235	30	48080	1.8216	0.034257	<i>EIF4ENIF1</i>		
ENSG00000120329	5	140672196	140693612	88	16	45856	1.8207	0.034327	<i>SLC25A2</i>		
ENSG00000221988	6	32111218	32144011	87	23	46945	1.8205	0.034339	<i>PPT2</i>		
ENSG00000067369	15	43689407	43812926	184	19	38582	1.8202	0.034361	<i>TP53BP1</i>		
ENSG00000169442	1	26634448	26657014	72	12	40846	1.8199	0.03439	<i>CD52</i>		
ENSG00000132361	17	2582680	2625957	79	21	43110	1.8181	0.034528	<i>CLUH</i>		
ENSG00000166947	15	43388423	43523481	148	30	42206	1.8174	0.03458	<i>EPB42</i>		
ENSG00000123636	2	160165490	160483203	1023	87	37824	1.8165	0.03465	<i>BAZ2B</i>		
ENSG00000256235	5	150147508	150186296	117	13	22958	1.8157	0.034708	<i>SMIM3</i>		
ENSG00000131233	1	39320175	39357289	108	15	32624	1.8156	0.034716	<i>GJA9</i>		
ENSG00000135930	2	233404762	233458354	151	15	52258	1.8153	0.034741	<i>EIF4E2</i>		
ENSG00000175619	11	48228344	48249314	87	14	32258	1.8148	0.03478	<i>OR4B1</i>		
ENSG00000092067	14	23576513	23598825	68	22	44899	1.8147	0.034785	<i>CEBPE</i>		
ENSG00000123179	13	50224859	50275611	203	31	45482	1.8142	0.034824	<i>EBPL</i>		
ENSG00000269636	5	150147867	150186297	116	13	23044	1.8132	0.034904	<i>AC010441.1</i>		
ENSG00000162511	1	31195316	31240667	104	34	45665	1.8126	0.034943	<i>LAPTM5</i>		
ENSG00000158517	7	74178309	74213659	32	13	39809	1.8123	0.034974	<i>NCF1</i>		
ENSG00000170832	17	58246455	58509831	244	33	40009	1.812	0.034991	<i>USP32</i>		
ENSG00000188467	15	48403169	48444869	7	4	48825	1.8104	0.035118	<i>SLC24A5</i>		
ENSG00000256870	12	101539271	101614185	284	35	50578	1.8097	0.035169	<i>SLC5A8</i>		
ENSG00000112651	6	43011767	43037544	69	11	36537	1.8093	0.035201	<i>MRPL2</i>		
ENSG00000130751	19	47513077	47559033	115	34	43441	1.8087	0.035247	<i>NPAS1</i>		
ENSG00000228075	18	54804293	54827531	95	20	46479	1.8082	0.035291	<i>BOD1L2</i>		
ENSG00000166359	19	33612996	33676701	221	36	30754	1.8079	0.035308	<i>WDR88</i>		
ENSG00000172208	11	48256608	48277622	88	11	31731	1.8078	0.035316	<i>OR4X2</i>		
ENSG00000105700	19	18658572	18690197	96	12	33559	1.8076	0.035335	<i>KXD1</i>		
ENSG00000185372	5	180541357	180562304	52	12	28924	1.8075	0.035341	<i>OR2V1</i>		
ENSG00000171345	17	39669869	39694560	64	6	51475	1.8075	0.035345	<i>KRT19</i>		
ENSG00000188095	15	90293822	90331982	203	15	52092	1.8073	0.035359	<i>MESP2</i>		
ENSG00000170786	8	57202569	57243335	115	16	54442	1.807	0.035378	<i>SDR16C5</i>		
ENSG00000122543	7	5909458	5935993	159	35	45497	1.8057	0.035482	<i>OCM</i>		
ENSG00000233050	8	11911898	11939256	1	1	42786	1.8048	0.03555	<i>DEFB130</i>		
ENSG00000166997	7	99707236	99733134	44	12	48821	1.8045	0.03558	<i>CNPY4</i>		
ENSG00000169856	15	53039637	53093273	138	31	37561	1.8044	0.035586	<i>ONECUT1</i>		

ENSG00000079432	19	42762689	42809949	63	7	52018	1.804	0.035615	<i>CIC</i>		
ENSG00000133665	10	82094501	82137829	183	15	33121	1.8038	0.035629	<i>DYDC2</i>		
ENSG00000254772	11	62317073	62352401	59	10	42120	1.8038	0.035629	<i>EEF1G</i>		
ENSG00000257242	12	92368756	92546690	596	116	47514	1.8029	0.035706	<i>C12orf79</i>		
ENSG00000111817	6	116565336	116772424	553	55	38659	1.8023	0.035749	<i>DSE</i>		
ENSG00000212864	9	140104707	140126033	53	13	55410	1.8022	0.035757	<i>RNF208</i>		
ENSG00000106366	7	100760370	100792547	113	25	47466	1.8019	0.035781	<i>SERPINE1</i>		
ENSG00000186117	11	55568854	55589952	83	13	52949	1.8018	0.035786	<i>OR5L1</i>		
ENSG00000124444	19	44090544	44115309	42	13	53540	1.8015	0.035812	<i>ZNF576</i>		
ENSG00000116783	1	74653947	75020112	728	102	40476	1.8005	0.035887	<i>TNNI3K</i>		
ENSG00000138074	2	27412455	27445826	96	14	42124	1.7999	0.035935	<i>SLC5A6</i>		
ENSG00000272305	3	52993135	53143469	412	38	47302	1.7998	0.035948	<i>RP11-894J14.5</i>		
ENSG00000105507	19	48523210	48557310	199	21	50692	1.7996	0.035964	<i>CABP5</i>		
ENSG00000124157	20	43839941	43863099	51	8	48559	1.7995	0.035966	<i>SEMG2</i>		
ENSG00000146094	5	176918908	176948275	47	17	38640	1.7992	0.035997	<i>DOK3</i>		
ENSG00000213889	19	45982035	46015768	105	20	54738	1.7989	0.036017	<i>PPM1N</i>		
ENSG00000182362	21	47696251	47727665	185	17	43310	1.7982	0.036073	<i>YBEY</i>		
ENSG00000134369	1	201582411	201806102	555	98	45403	1.7981	0.036078	<i>NAV1</i>		
ENSG00000100784	14	91326799	91536980	533	54	51311	1.7979	0.036094	<i>RPS6KA5</i>		
ENSG00000142303	19	8635126	8685620	126	38	43295	1.7978	0.036106	<i>ADAMTS10</i>		
ENSG00000172478	2	241815465	241846306	227	17	53371	1.7975	0.036132	<i>C2orf54</i>		
ENSG00000100749	14	97253641	97408059	434	46	48730	1.7969	0.036173	<i>VRK1</i>		
ENSG00000241399	2	160615364	160664753	195	24	45491	1.7968	0.036186	<i>CD302</i>		
ENSG00000135587	6	109751966	109775122	62	16	41582	1.7966	0.036197	<i>SMPD2</i>		
ENSG00000037280	5	180018506	180086624	360	61	48497	1.7951	0.036317	<i>FLT4</i>		
ENSG00000196189	1	156107157	156157543	114	24	39261	1.7947	0.036351	<i>SEMA4A</i>		
ENSG00000157036	3	38527618	38593652	148	20	40572	1.7946	0.036356	<i>EXOG</i>		
ENSG00000072121	14	68184091	68293307	288	36	41302	1.7945	0.036363	<i>ZFYVE26</i>		
ENSG00000168124	16	3244247	3265188	83	13	46323	1.7943	0.036383	<i>OR1F1</i>		
ENSG00000244687	20	48687661	48742496	124	16	45738	1.7943	0.036384	<i>UBE2V1</i>		
ENSG00000137033	9	6205805	6267983	215	33	37310	1.7942	0.036389	<i>IL33</i>		
ENSG00000166192	15	72396599	72443311	86	13	50666	1.7938	0.036422	<i>SENP8</i>		
ENSG00000184995	9	21470841	21492312	64	13	45226	1.7935	0.036446	<i>IFNE</i>		
ENSG00000145626	5	35941112	36011130	186	29	42661	1.7931	0.03648	<i>UGT3A1</i>		
ENSG00000010295	12	6637541	6675239	95	18	42340	1.7925	0.03653	<i>IFFO1</i>		
ENSG00000124713	6	42918496	42941618	104	11	47163	1.792	0.036564	<i>GNMT</i>		

ENSG00000181499	11	123803492	123824580	93	16	54180	1.792	0.036569	OR6T1		
ENSG00000115159	2	157281802	157480247	467	46	46369	1.7915	0.03661	GPD2		
ENSG00000268857	2	157342597	157362655	43	13	49896	1.7912	0.036628	AC011308.1		
ENSG00000109758	4	3433614	3461211	88	26	45773	1.7901	0.036718	HGFAC		
ENSG00000173156	11	66814289	66849484	64	19	43233	1.7897	0.036754	RHOD		
ENSG00000101407	20	36601409	36671870	121	19	38410	1.7891	0.0368	TTI1		
ENSG00000122970	12	110552140	11066602	265	24	48086	1.7888	0.036823	IFT81		
ENSG00000259399	20	35192956	35250787	67	26	43710	1.7887	0.036832	TGIF2-C20orf24		
ENSG00000121853	3	172152923	172176246	89	16	39459	1.7883	0.036862	GHSR		
ENSG00000215262	8	36631842	36803646	341	33	41925	1.7882	0.036872	KCNU1		
ENSG00000000460	1	169621245	169833221	1103	56	51870	1.787	0.036966	C1orf112		
ENSG00000255641	12	10554911	10598600	66	13	43327	1.7864	0.037015	NKG2-E		
ENSG00000168477	6	31998931	32093111	274	54	35428	1.7863	0.037021	TNXB		
ENSG00000171951	2	224451658	224477221	44	13	36548	1.7863	0.037029	SCG2		
ENSG00000175294	11	65774223	65803988	96	19	41405	1.786	0.037046	CATSPER1		
ENSG00000120370	1	170491270	170532587	64	16	37644	1.7857	0.037075	GORAB		
ENSG00000180475	11	57985354	58006390	94	14	41166	1.7856	0.037081	OR10Q1		
ENSG00000115392	2	58376378	58478507	266	38	45016	1.7851	0.037119	FANCL		
ENSG00000234284	5	178440753	178472065	123	9	45992	1.7851	0.037121	ZNF879		
ENSG00000215183	9	35742987	35766610	33	12	52620	1.784	0.037209	MSMP		
ENSG00000272636	17	0	41427	128	16	49399	1.784	0.03721	DOC2B		
ENSG00000186451	3	57084469	57119460	118	21	47107	1.784	0.037211	SPATA12		
ENSG00000177728	17	73427240	73506171	260	28	35403	1.784	0.037213	KIAA0195		
ENSG00000213585	5	133297606	133350824	138	20	55232	1.7834	0.037257	VDAC1		
ENSG00000177932	5	178477416	178520538	146	17	46756	1.7832	0.037279	ZNF354C		
ENSG00000197272	16	28500683	28533372	77	13	47950	1.7832	0.03728	IL27		
ENSG00000061918	4	156670144	156738743	242	48	49323	1.783	0.037294	GUCY1B3		
ENSG00000163217	2	69082613	69108649	56	10	54559	1.7821	0.037364	BMP10		
ENSG00000164756	8	117952512	118198953	518	57	42763	1.7821	0.037368	SLC30A8		
ENSG00000196557	16	1193241	1281771	347	75	49226	1.7815	0.037419	CACNA1H		
ENSG00000205981	3	180691497	180717562	33	9	46691	1.7812	0.037439	DNAJC19		
ENSG00000205030	11	55584695	55605630	73	16	49989	1.7809	0.037468	OR5L2		
ENSG00000125970	20	32571452	32706114	192	22	45741	1.7808	0.037477	RALY		
ENSG00000167889	17	74854538	74956475	585	83	43470	1.7803	0.037515	MGAT5B		
ENSG00000185009	10	75871524	75920821	122	14	43436	1.7801	0.037529	AP3M1		
ENSG00000112337	6	25902982	25940946	129	14	40475	1.7795	0.037581	SLC17A2		

ENSG00000260230	9	111882573	111939571	242	33	51184	1.7793	0.037594	<i>FRRS1L</i>		
ENSG00000155629	10	98343069	98490271	421	71	45680	1.7792	0.037607	<i>PIK3AP1</i>		
ENSG00000177971	15	75921426	75951047	51	13	38786	1.779	0.037618	<i>IMP3</i>		
ENSG00000040608	22	20218938	20280769	124	37	44583	1.7788	0.037634	<i>RTN4R</i>		
ENSG00000171885	18	24422002	24455782	112	29	46628	1.7766	0.037816	<i>AQP4</i>		
ENSG00000125864	20	17464550	17559865	351	80	47777	1.7763	0.037838	<i>BFSP1</i>		
ENSG00000140006	14	64053757	64118579	169	17	32580	1.7754	0.037916	<i>WDR89</i>		
ENSG00000224361	2	23719913	23757214	130	24	45505	1.7751	0.03794	<i>AC011239.1</i>		
ENSG00000131748	17	37783318	37829737	124	18	38054	1.775	0.037945	<i>STARD3</i>		
ENSG00000136141	13	47117303	47337175	674	79	47294	1.7743	0.038004	<i>LRCH1</i>		
ENSG00000268069	12	48168706	48189787	81	17	53064	1.774	0.038029	<i>AC004466.1</i>		
ENSG00000179588	16	88509725	88613424	446	71	44688	1.7735	0.038073	<i>ZFPM1</i>		
ENSG00000172199	11	56133100	56154029	85	12	49724	1.7732	0.038094	<i>OR8U1</i>		
ENSG00000127084	9	95699733	95808518	369	49	48374	1.7728	0.03813	<i>FGD3</i>		
ENSG00000205189	8	81387854	81448500	164	26	41321	1.7712	0.038267	<i>ZBTB10</i>		
ENSG00000162755	1	161058151	161080136	56	17	52985	1.771	0.038283	<i>KLHDC9</i>		
ENSG00000156140	4	73136686	73444516	615	56	47505	1.7708	0.0383	<i>ADAMTS3</i>		
ENSG00000163959	3	195928358	195980049	213	32	50766	1.7703	0.038342	<i>SLC51A</i>		
ENSG00000125445	17	73247755	73272454	60	9	34211	1.7703	0.038342	<i>MRPS7</i>		
ENSG00000078814	20	33553206	33600240	141	17	48895	1.77	0.038366	<i>MYH7B</i>		
ENSG00000132004	19	12788867	12817457	23	11	48361	1.7694	0.038412	<i>FBXW9</i>		
ENSG00000254997	11	71249466	71270653	101	9	48337	1.7693	0.038421	<i>KRTAP5-9</i>		
ENSG00000101079	20	35270169	35384481	133	45	46337	1.769	0.038447	<i>NDRG3</i>		
ENSG00000164683	8	80666245	80690098	52	14	52008	1.7687	0.038474	<i>HEY1</i>		
ENSG00000112367	6	110002499	110156631	395	47	32489	1.768	0.038531	<i>FIG4</i>		
ENSG00000111653	12	6749446	6782314	38	13	42312	1.7677	0.038558	<i>ING4</i>		
ENSG00000161860	19	12999600	13040090	94	15	45483	1.7674	0.038583	<i>SYCE2</i>		
ENSG00000255508	11	62317075	62369003	79	12	44296	1.7673	0.038591	<i>MIR3654</i>		
ENSG00000178591	20	57891	87735	48	22	41406	1.7673	0.038591	<i>DEFB125</i>		
ENSG00000078369	1	1706729	1832495	199	31	44048	1.7672	0.038599	<i>GNB1</i>		
ENSG00000130948	9	98987588	99074434	280	41	39166	1.7671	0.038608	<i>HSD17B3</i>		
ENSG00000171223	19	12892310	12914124	48	15	40441	1.7671	0.038609	<i>JUNB</i>		
ENSG00000128923	15	59053391	59164099	282	34	41470	1.767	0.038618	<i>FAM63B</i>		
ENSG00000126814	14	61428169	61458076	32	15	45823	1.7668	0.038634	<i>TRMT5</i>		
ENSG00000101638	18	44249081	44349220	395	75	46425	1.7667	0.038642	<i>ST8SIA5</i>		
ENSG00000204542	6	31069000	31090336	335	29	46815	1.766	0.038694	<i>C6orf15</i>		

ENSG00000205409	11	5852158	5873182	148	7	55690	1.766	0.038699	OR52E6		
ENSG00000250305	8	12793151	12899012	721	75	49219	1.7659	0.038704	KIAA1456		
ENSG00000237388	11	48500269	48521332	79	13	29380	1.7657	0.03872	OR4A47		
ENSG00000175985	14	69941409	70005215	181	34	46572	1.7654	0.038745	PLEKHD1		
ENSG00000163947	3	56751446	57123357	1263	142	44376	1.7651	0.038777	ARHGEF3		
ENSG00000112365	6	109773797	109814440	106	23	38784	1.765	0.038782	ZBTB24		
ENSG00000113525	5	131867136	131902530	41	11	34168	1.7649	0.038791	IL5		
ENSG00000196475	4	80317508	80339372	23	10	47652	1.7646	0.038814	GK2		
ENSG00000125788	20	113010	136392	72	15	36611	1.7644	0.038829	DEFB126		
ENSG00000147457	8	23091150	23129512	155	24	37529	1.7644	0.038833	CHMP7		
ENSG00000149201	11	86075778	86144151	279	40	43117	1.7641	0.038859	CCDC81		
ENSG00000214114	1	39318636	39357289	117	16	33391	1.7628	0.038971	MYCBP		
ENSG00000068097	17	58110555	58166292	75	6	33422	1.7624	0.039	HEATR6		
ENSG00000167105	17	48338767	48368844	74	29	47291	1.7623	0.039011	TMEM92		
ENSG00000134533	12	15250717	15511609	600	59	52008	1.7615	0.039074	RERG		
ENSG00000214999	17	7972800	7994883	66	21	46065	1.7615	0.039075	AC129492.6		
ENSG00000134532	12	23672440	24113966	1242	189	49263	1.7601	0.039196	SOX5		
ENSG00000146385	6	132863832	132884860	98	20	43105	1.7597	0.03923	TAAR8		
ENSG00000166398	19	34735442	34856491	318	32	37038	1.7592	0.03927	KIAA0355		
ENSG00000168646	17	63514681	63567765	145	32	44006	1.7592	0.039274	AXIN2		
ENSG00000143256	1	161060346	161097901	80	18	53471	1.7588	0.039308	PFDN2		
ENSG00000081087	6	108352613	108497058	402	52	38997	1.7584	0.03934	OSTM1		
ENSG00000178913	5	140688057	140710330	79	14	47106	1.7584	0.039343	TAF7		
ENSG00000229859	11	60960779	60990570	29	6	49732	1.7581	0.039369	PGA3		
ENSG00000258864	5	112152910	112213279	224	27	41615	1.7578	0.039388	CTC-554D6.1		
ENSG00000111181	12	289243	333736	230	47	40382	1.7578	0.039388	SLC6A12		
ENSG00000161800	12	50360706	50436919	120	15	35654	1.7573	0.039434	RACGAP1		
ENSG00000149557	11	125305646	125376213	172	25	53877	1.7571	0.039448	FEZ1		
ENSG00000143006	1	53915072	53943161	82	12	37575	1.7571	0.039451	DMRTB1		
ENSG00000113211	5	140519683	140542868	86	15	43523	1.7566	0.039491	PCDHB6		
ENSG00000177106	11	684438	737727	199	40	46630	1.7566	0.039492	EPS8L2		
ENSG00000171014	11	123800250	123821344	96	15	54156	1.7557	0.039569	OR4D5		
ENSG00000160161	19	19639057	19667468	62	11	45184	1.7556	0.039582	CILP2		
ENSG00000124610	6	26007260	26028040	53	14	39687	1.7554	0.039599	HIST1H1A		
ENSG00000143614	1	153767201	153905451	290	26	47264	1.755	0.039626	GATAD2B		
ENSG00000163703	3	9965506	9997097	84	23	38002	1.7543	0.039693	CRELD1		

ENSG00000173452	7	19748933	19823221	336	27	33711	1.754	0.039717	TMEM196		
ENSG00000213123	3	196008090	196055170	151	14	48132	1.7538	0.039729	TCTEX1D2		
ENSG00000066855	8	66546969	66693496	429	35	49423	1.7537	0.039739	MTFR1		
ENSG00000112081	6	36552145	36583377	161	13	53362	1.7536	0.03975	SRSF3		
ENSG00000137142	9	38398991	38434444	196	27	40910	1.7533	0.039772	IGFBPL1		
ENSG00000164484	6	130676879	130774208	339	31	39206	1.7533	0.039778	TMEM200A		
ENSG00000171150	2	46916091	47000268	322	34	47267	1.7531	0.039789	SOC5		
ENSG00000152932	5	57868048	58165213	1025	102	49824	1.7524	0.039853	RAB3C		
ENSG00000176410	7	73085299	73107783	87	8	52335	1.7521	0.039875	DNAJC30		
ENSG00000164099	4	119191193	119284158	267	35	44209	1.7521	0.039878	PRSS12		
ENSG00000205810	12	10554911	10583194	51	12	46350	1.7519	0.039894	KLRC3		
ENSG00000182173	17	73502141	73530820	146	21	39946	1.7511	0.039961	TSEN54		
ENSG00000125434	17	8181081	8208661	100	19	46683	1.7504	0.040024	SLC25A35		
ENSG00000064999	6	34847042	35069179	611	59	37975	1.7501	0.040047	ANKS1A		
ENSG00000221968	11	61630991	61669523	90	17	45474	1.7498	0.040076	FADS3		
ENSG00000002726	7	150511715	150568592	295	32	36732	1.7496	0.040093	AOC1		
ENSG00000181698	11	56033029	56054146	74	13	54428	1.7485	0.040184	OR5T1		
ENSG00000105755	19	44000871	44041396	135	17	51511	1.7482	0.040219	ETHE1		
ENSG00000146216	6	43201418	43265997	191	29	39268	1.7478	0.040247	TTBK1		
ENSG00000108344	17	38127050	38164213	144	14	48331	1.7477	0.040257	PSMD3		
ENSG00000055130	7	148385006	148508128	324	35	52411	1.7475	0.040277	CUL1		
ENSG00000132912	5	150078002	150148671	121	10	28352	1.7463	0.04038	DCTN4		
ENSG00000113643	5	167903450	167956304	251	19	49963	1.7451	0.040483	RARS		
ENSG00000204644	6	29630169	29658887	281	26	39120	1.745	0.040494	ZFP57		
ENSG00000118804	4	77162886	77242752	315	28	46580	1.7444	0.040541	FAM47E-STBD1		
ENSG00000128052	4	55934644	56001756	180	38	49076	1.7442	0.040562	KDR		
ENSG00000096717	10	69634427	69688147	162	20	36528	1.7439	0.040589	SIRT1		
ENSG00000197982	1	38262651	38285126	39	10	42008	1.7433	0.040643	C1orf122		
ENSG00000138100	2	27495260	27540307	70	15	41094	1.743	0.040666	TRIM54		
ENSG00000214290	11	111159565	111189460	114	21	43214	1.7429	0.040672	COLCA2		
ENSG00000123444	11	47583749	47610567	34	11	41035	1.7429	0.04068	KBTBD4		
ENSG00000070770	16	58181811	58241824	194	18	51359	1.7421	0.040744	CSNK2A2		
ENSG00000204446	9	89753559	89784471	132	12	55566	1.7415	0.040794	C9orf170		
ENSG00000160097	1	33317869	33348083	52	11	54948	1.741	0.040842	FNDC5		
ENSG00000184640	17	75266651	75506678	781	117	42299	1.7409	0.040849	Sep-09		
ENSG00000268313	1	205672497	205694153	55	18	42182	1.7408	0.040861	AC119673.1		

ENSG00000181689	11	56075783	56096721	86	10	55703	1.7404	0.040892	OR8K3		
ENSG00000087076	19	49306274	49349935	133	29	43343	1.7397	0.04096	HSD17B14		
ENSG00000259030	1	74653919	75019666	727	101	40453	1.7389	0.041026	FPGT-TNNI3K		
ENSG00000261796	3	128796418	128889879	98	22	38412	1.7389	0.041028	ISY1-RAB43		
ENSG00000175229	11	65799423	65826651	63	9	36042	1.7386	0.041056	GAL3ST3		
ENSG00000163286	2	233261553	233285424	88	18	47863	1.7378	0.041125	ALPPL2		
ENSG00000165623	10	13253767	13286334	206	44	47829	1.7362	0.041263	UCMA		
ENSG00000182185	14	68276496	69206935	2478	182	42444	1.7362	0.041265	RAD51B		
ENSG00000070182	14	65203002	65356601	560	79	40864	1.7361	0.041269	SPTB		
ENSG00000152154	2	39882122	39955103	118	14	41909	1.7358	0.041298	TMEM178A		
ENSG00000205838	5	34828938	34909561	252	43	43814	1.7358	0.0413	TTC23L		
ENSG00000129353	19	10703133	10765235	197	26	48212	1.7354	0.041339	SLC44A2		
ENSG00000272414	4	77162874	77242282	313	28	46652	1.735	0.041367	FAM47E-STBD1		
ENSG00000008083	6	15236527	15532252	930	112	52831	1.7337	0.041481	JARID2		
ENSG00000162636	1	109092711	109197522	222	15	33932	1.7335	0.0415	FAM102B		
ENSG00000130939	1	10082890	10251297	423	39	41268	1.733	0.041551	UBE4B		
ENSG00000078043	18	44378353	44510123	397	31	53176	1.7324	0.041603	PIAS2		
ENSG00000161664	17	42237815	42266451	66	10	33676	1.7314	0.041693	ASB16		
ENSG00000260234	3	150590784	150669530	236	54	43261	1.7308	0.041741	RP11-166N6.3		
ENSG00000144821	3	108089216	108258169	396	57	45994	1.7297	0.04184	MYH15		
ENSG00000133805	11	10319860	10539126	915	123	47018	1.7296	0.041851	AMPD3		
ENSG00000142686	1	36169476	36195073	22	11	50895	1.7284	0.041958	C1orf216		
ENSG00000173421	3	49225861	49305537	119	17	46359	1.7279	0.042	CCDC36		
ENSG00000124562	6	34715183	34751571	154	11	33399	1.7269	0.042089	SNRPC		
ENSG00000170893	3	129683148	129706781	74	14	37642	1.7261	0.042164	TRH		
ENSG00000214309	7	99714317	99736118	39	11	47187	1.7258	0.042195	MBLAC1		
ENSG00000100209	22	29128019	29163503	109	22	44792	1.7257	0.042199	HSCB		
ENSG00000117525	1	94984781	95017356	47	13	51632	1.7257	0.042204	F3		
ENSG00000007402	3	50390233	50551675	225	33	41466	1.7242	0.042332	CACNA2D2		
ENSG00000140386	15	76630526	77207785	1276	45	41862	1.7242	0.042332	SCAPER		
ENSG00000259305	8	124228431	124289627	30	19	49453	1.7237	0.042382	ZHX1-C8ORF76		
ENSG00000258572	14	95972473	95994248	76	22	49295	1.7235	0.042404	RP11-1070N10.3		
ENSG00000164494	6	107463761	107790768	803	90	42030	1.7234	0.04241	PDSS2		
ENSG00000175414	5	175782471	175838866	136	29	52203	1.7232	0.042426	ARL10		
ENSG00000141140	17	34841477	34909284	149	18	33786	1.7231	0.042435	MYO19		
ENSG00000175591	11	72919343	72957397	67	30	44522	1.7224	0.0425	P2RY2		

ENSG00000185432	12	51307255	51336300	93	18	46749	1.722	0.042532	METTL7A		
ENSG00000112182	6	90626248	91016627	848	140	46082	1.722	0.042535	BACH2		
ENSG00000167644	19	38784801	38805649	74	13	54302	1.7216	0.042573	C19orf33		
ENSG00000254647	11	2171009	2192571	54	15	38614	1.7206	0.042661	INS		
ENSG00000100023	22	21996559	22064304	309	39	48031	1.72	0.042714	PPIL2		
ENSG00000013375	6	83860869	83913655	92	19	46274	1.7196	0.042748	PGM3		
ENSG00000213420	7	99757229	99784995	53	10	48077	1.7197	0.042748	GPC2		
ENSG00000096060	6	35531362	35706360	412	46	48192	1.7195	0.04276	FKBP5		
ENSG00000153246	2	160778519	160929121	535	57	37396	1.7189	0.042817	PLA2R1		
ENSG00000066933	15	72104632	72420918	583	40	48791	1.7185	0.042849	MYO9A		
ENSG00000120519	4	147165127	147453123	664	60	44252	1.7185	0.042854	SLC10A7		
ENSG00000105607	19	12991840	13035021	100	16	45930	1.7173	0.042966	GCDH		
ENSG00000095932	19	3464405	3490540	77	20	40733	1.717	0.042991	C19orf77		
ENSG00000007202	17	26931458	26982472	41	16	50255	1.717	0.042993	KIAA0100		
ENSG00000258728	9	34636642	34667110	68	14	54867	1.7169	0.042999	GALT		
ENSG00000115355	2	55504978	55657057	544	35	37834	1.7166	0.043027	CCDC88A		
ENSG00000076685	10	104835940	104963056	360	27	47706	1.7163	0.04305	NT5C2		
ENSG00000105373	19	48238779	48270315	184	20	38911	1.7151	0.04316	GLTSCR2		
ENSG00000182095	7	5336421	5475045	535	107	43911	1.7148	0.043187	TNRC18		
ENSG00000118496	6	146104638	146145889	97	16	51512	1.7143	0.043233	FBXO30		
ENSG00000073670	17	42826399	42869214	107	17	54277	1.7142	0.043247	ADAM11		
ENSG00000124102	20	43793517	43815185	76	5	52641	1.714	0.043269	PI3		
ENSG00000198523	6	118859461	118891893	94	15	54801	1.7139	0.043272	PLN		
ENSG00000076555	12	109544400	109716031	572	84	43381	1.7139	0.043275	ACACB		
ENSG00000236761	6	132019581	132042206	24	9	41082	1.7137	0.04329	CTAGE9		
ENSG00000106636	7	44230567	44263893	122	16	55951	1.7137	0.043293	YKT6		
ENSG00000177042	11	685428	715028	122	22	48315	1.7135	0.043315	TMEM80		
ENSG00000144366	2	189146396	189470653	799	63	47005	1.7134	0.043318	GULP1		
ENSG00000172780	3	128796412	128851644	53	16	39907	1.713	0.043354	RAB43		
ENSG00000102996	16	58049470	58090805	86	20	47743	1.7128	0.043373	MMP15		
ENSG00000221983	19	18672540	18698360	88	11	30815	1.7126	0.043395	UBA52		
ENSG00000087269	4	2929660	2975112	120	21	42478	1.7117	0.043472	NOP14		
ENSG00000079689	6	25642464	25712011	267	38	49411	1.711	0.04354	SCGN		
ENSG00000116731	1	14016693	14161574	463	51	46530	1.7106	0.043579	PRDM2		
ENSG00000163629	4	87505468	87746324	748	34	53618	1.71	0.043633	PTPN13		
ENSG00000172680	8	57015501	57036541	81	15	50635	1.71	0.043633	MOS		

ENSG00000221813	7	143691022	143712068	55	5	36141	1.7096	0.043673	OR6B1		
ENSG00000107874	10	104173002	104202418	52	15	52507	1.7094	0.043688	CUEDC2		
ENSG00000215462	13	49997495	50030554	90	18	42515	1.709	0.043729	AL136218.1		
ENSG00000106771	9	111767432	111892225	532	48	51667	1.7085	0.04377	TMEM245		
ENSG00000100906	14	35860717	35883955	99	22	52925	1.7076	0.043851	NFKBIA		
ENSG00000134684	1	33230840	33293754	124	15	53329	1.7075	0.043862	YARS		
ENSG00000071243	7	120580803	120627270	98	14	31976	1.7069	0.043924	ING3		
ENSG00000066468	10	123227848	123367972	286	66	45072	1.7068	0.043926	FGFR2		
ENSG00000172932	11	67046018	67079956	42	15	37339	1.7061	0.043991	ANKRD13D		
ENSG00000072518	11	63596400	63688491	151	16	30988	1.7053	0.044065	MARK2		
ENSG00000167632	8	140732586	141478678	2436	237	43938	1.7052	0.044079	TRAPPC9		
ENSG00000105339	8	142117377	142215907	246	54	47779	1.7045	0.044146	DENND3		
ENSG00000178031	9	18463892	18920948	2079	238	50242	1.7032	0.044263	ADAMTSL1		
ENSG00000255012	11	56370031	56390978	71	13	50115	1.7032	0.044266	OR5M1		
ENSG00000162654	1	89636831	89674615	94	18	46554	1.7028	0.044299	GBP4		
ENSG00000162745	1	161942982	162003644	187	44	44824	1.7023	0.044346	OLFML2B		
ENSG00000128191	22	20057755	20109400	193	22	52670	1.702	0.044378	DGCR8		
ENSG00000160868	7	99344604	99391888	49	15	36457	1.7015	0.044426	CYP3A4		
ENSG00000198723	19	7547862	7583336	124	28	50202	1.701	0.044467	C19orf45		
ENSG00000087884	11	77522155	77639478	269	22	50109	1.701	0.044471	AAMDC		
ENSG00000169371	15	75880424	75928810	95	10	29446	1.7006	0.044508	SNUPN		
ENSG00000164663	6	41747634	41873099	289	32	48888	1.7002	0.044546	USP49		
ENSG00000171587	21	41372926	42229065	3524	307	43713	1.7002	0.044548	DSCAM		
ENSG00000196963	5	140550980	140575793	105	15	43549	1.7001	0.044558	PCDHB16		
ENSG00000181027	19	47239303	47290245	164	26	52076	1.6993	0.044629	FKRP		
ENSG00000164403	5	132147833	132176590	34	9	45076	1.6993	0.044634	SHROOM1		
ENSG00000149016	11	62332517	62369649	51	10	46663	1.6991	0.044653	TUT1		
ENSG00000085719	8	87487059	87583726	315	33	49387	1.6986	0.044697	CPNE3		
ENSG00000167005	16	56453045	56496111	102	17	39649	1.6983	0.044723	NUDT21		
ENSG00000213892	19	45192421	45223986	136	33	50313	1.6971	0.044837	CEACAM16		
ENSG00000173457	11	64001956	64024413	53	12	42138	1.697	0.044853	PPP1R14B		
ENSG00000144655	3	39173346	39206053	109	24	41042	1.6965	0.044891	CSRNP1		
ENSG00000090006	19	41088789	41145725	183	23	45205	1.6963	0.044913	LTBP4		
ENSG00000197921	1	2450184	2471684	60	15	32992	1.6963	0.044916	HES5		
ENSG00000182368	9	45717107	45738274	1	1	42668	1.6959	0.04495	FAM27A		
ENSG00000204807	9	45723559	45744896	1	1	42668	1.6959	0.04495	FAM27E2		

ENSG00000134982	5	112033195	112191936	454	42	40610	1.6957	0.04497	APC		
ENSG00000183775	5	143540396	143875249	672	53	51392	1.6956	0.044981	KCTD16		
ENSG00000137216	6	44084651	44133256	178	28	42853	1.6953	0.045006	TMEM63B		
ENSG00000170606	5	132377654	132452141	224	18	52368	1.6949	0.045044	HSPA4		
ENSG00000108924	17	53332373	53412426	191	41	42717	1.6949	0.04505	HLF		
ENSG00000100664	14	103789881	103821362	122	20	49186	1.6948	0.045055	EIF5		
ENSG00000172459	11	56421138	56442163	75	14	52374	1.6948	0.045061	OR5AR1		
ENSG00000269099	13	25581541	25601675	125	8	53676	1.6948	0.045061	LSP1		
ENSG00000085491	1	108666658	108753471	320	35	51205	1.6942	0.045115	SLC25A24		
ENSG00000251283	4	157545646	157573606	120	17	54324	1.6941	0.045128	RP11-171N4.2		
ENSG00000100605	14	93393259	93592665	646	73	46344	1.6937	0.045162	ITPK1		
ENSG00000163012	2	187682562	187723935	176	9	30146	1.6933	0.045203	ZSWIM2		
ENSG00000170889	19	54694610	54762862	212	45	36189	1.6933	0.045203	RPS9		
ENSG00000167208	16	50690211	50725264	53	14	38423	1.6931	0.045216	SNX20		
ENSG00000145041	3	51423298	51544010	109	35	50336	1.693	0.045224	VPRBP		
ENSG00000213996	19	19365173	19394200	100	18	41197	1.6925	0.045273	TM6SF2		
ENSG00000178252	3	49034495	49063386	26	9	37051	1.692	0.045324	WDR6		
ENSG00000099814	14	105321617	105373107	202	21	33770	1.6913	0.045387	CEP170B		
ENSG00000151702	11	128546430	128693162	474	80	44269	1.6912	0.045404	FLI1		
ENSG00000024422	19	48206600	48256391	187	37	48294	1.6911	0.045405	EHD2		
ENSG00000162341	11	68806365	68868072	186	15	40789	1.6905	0.045466	TPCN2		
ENSG00000188396	1	45261585	45282957	49	8	51067	1.6904	0.045474	TCTEX1D4		
ENSG00000054965	11	73101532	73319234	383	38	45340	1.6904	0.045477	FAM168A		
ENSG00000156466	8	97144562	97183020	79	17	37988	1.6903	0.045485	GDF6		
ENSG00000101084	20	35224137	35250960	31	14	44487	1.689	0.045612	C20orf24		
ENSG00000072832	4	5739811	5904785	798	128	46528	1.6888	0.045627	CRMP1		
ENSG00000117122	1	17290997	17317330	80	17	41683	1.6886	0.045649	MFAP2		
ENSG00000103671	15	64669947	64757502	160	26	41138	1.6884	0.045666	TRIP4		
ENSG00000135114	12	121448095	121487045	154	28	51351	1.6884	0.045671	OASL		
ENSG00000125740	19	45961253	45988437	125	21	48485	1.6883	0.045681	FOSB		
ENSG00000203710	1	207659492	207823992	375	48	37003	1.6881	0.045698	CR1		
ENSG00000103657	15	63890817	64136141	602	43	45654	1.688	0.045704	HERC1		
ENSG00000141665	18	71730588	71825100	342	22	39247	1.688	0.04571	FBXO15		
ENSG00000184574	12	6718001	6755613	54	16	38866	1.6868	0.045825	LPAR5		
ENSG00000160753	1	155280687	155310905	25	9	44956	1.6866	0.045838	RUSC1		
ENSG00000125319	17	42209274	42249844	77	10	34738	1.6866	0.045845	C17orf53		

ENSG00000166407	11	8235851	8300263	307	64	36819	1.6861	0.045885	LMO1		
ENSG00000112031	6	153298497	153333820	120	15	55101	1.686	0.045897	MTRF1L		
ENSG00000205238	7	102181679	102212755	1	1	43848	1.6859	0.04591	SPDYE2		
ENSG00000156076	12	65434406	65525346	204	29	34678	1.6857	0.045928	WIF1		
ENSG00000140365	15	75618232	75644268	54	18	43433	1.6855	0.045947	COMMD4		
ENSG00000023902	1	150111373	150146916	69	11	42553	1.685	0.04599	PLEKHO1		
ENSG00000166402	11	8030791	8137659	355	71	46199	1.6849	0.046006	TUB		
ENSG00000232258	16	8609502	8632304	161	24	48094	1.6847	0.04602	TMEM114		
ENSG00000133639	12	92526286	92549673	60	17	55563	1.684	0.046093	BTG1		
ENSG00000143384	1	150537032	150562066	71	14	41468	1.6839	0.046097	MCL1		
ENSG00000127328	12	70122461	70226984	327	35	40867	1.6825	0.046236	RAB3IP		
ENSG00000112210	6	57043607	57097078	69	16	49721	1.6824	0.046248	RAB23		
ENSG00000128311	22	37396900	37425681	136	20	48705	1.682	0.04628	TST		
ENSG00000225399	3	49287518	49308744	24	7	49596	1.6819	0.046293	RP11-3B7.1		
ENSG00000127423	1	26148414	26195903	115	7	43007	1.6819	0.046297	AUNIP		
ENSG00000186994	19	8377468	8418146	192	23	48682	1.6814	0.046344	KANK3		
ENSG00000065802	2	239325383	239370891	184	21	39082	1.6813	0.046355	ASB1		
ENSG00000125741	19	46020685	46115470	278	56	43639	1.6812	0.046363	OPA3		
ENSG00000222033	2	171558961	171581077	53	16	46686	1.6807	0.046415	LINC01124		
ENSG00000166211	12	101859199	101890775	121	25	36768	1.6805	0.046434	SPIC		
ENSG00000256391	6	166297330	166319725	186	23	46639	1.6804	0.04644	SDIM1		
ENSG00000170325	11	129759601	129882730	284	50	40537	1.6803	0.046452	PRDM10		
ENSG00000188379	9	21374254	21395396	34	11	45789	1.6802	0.04646	IFNA2		
ENSG00000171992	5	149970642	150048782	160	35	41103	1.6801	0.046466	SYNPO		
ENSG00000110900	12	31069362	31159534	342	78	46946	1.68	0.046476	TSPAN11		
ENSG00000249931	15	32674983	32705396	13	8	40746	1.6799	0.046484	GOLGA8K		
ENSG00000115556	2	219462488	219511907	112	11	43861	1.6793	0.046544	PLCD4		
ENSG00000180549	9	139914626	139937462	58	12	54436	1.6787	0.046605	FUT7		
ENSG00000131018	6	152432819	152968936	1981	242	47663	1.6778	0.04669	SYNE1		
ENSG00000112541	6	165730776	166410091	2763	284	46954	1.6778	0.046691	PDE10A		
ENSG00000154114	11	120884781	120971484	150	15	54362	1.6776	0.046708	TBCEL		
ENSG00000204616	6	30060674	30090883	255	39	39312	1.6776	0.04671	TRIM31		
ENSG00000162645	1	89561815	89626139	199	16	51580	1.6775	0.046722	GBP2		
ENSG00000166428	14	105381153	105409574	90	11	49771	1.6771	0.046759	PLD4		
ENSG00000136040	12	94532499	94711451	694	120	49242	1.6762	0.046845	PLXNC1		
ENSG00000165071	8	133687253	133782958	316	28	42875	1.6762	0.046851	TMEM71		

ENSG00000109107	17	26890133	26914282	19	10	53626	1.6761	0.046858	ALDOC		
ENSG00000169282	3	155745490	156266545	1551	141	45652	1.6759	0.046874	KCNAB1		
ENSG00000119121	9	77327411	77513010	382	61	46103	1.6753	0.04694	TRPM6		
ENSG00000142611	1	2975732	3365185	1409	217	41670	1.6746	0.047009	PRDM16		
ENSG00000165672	10	120917215	120948345	75	13	35229	1.6744	0.047021	PRDX3		
ENSG00000007908	1	169681781	169743846	434	26	48450	1.674	0.047062	SELE		
ENSG00000178104	1	144826157	145086186	69	29	32107	1.6736	0.047101	PDE4DIP		
ENSG00000248592	3	52857137	52941578	186	17	51985	1.6733	0.047133	TMEM110-MUSTN1		
ENSG00000164691	6	159445500	159476184	134	12	30387	1.6733	0.047134	TAGAP		
ENSG00000070785	1	45306450	45462282	458	25	50088	1.673	0.047165	EIF2B3		
ENSG00000169230	5	176720775	176743960	56	15	38830	1.6726	0.047203	PRELID1		
ENSG00000043039	11	129235835	129332171	374	79	46730	1.6724	0.047222	BARX2		
ENSG00000034533	3	130722719	130756493	59	8	49973	1.6721	0.047253	ASTE1		
ENSG00000169018	15	68560141	68598203	71	15	49034	1.672	0.047259	FEM1B		
ENSG00000078687	17	75990249	76114916	298	44	46330	1.6719	0.047271	TNRC6C		
ENSG00000146383	6	132881461	132902498	124	24	47898	1.6719	0.047273	TAAR6		
ENSG00000135362	11	36307838	36496754	820	124	44423	1.6716	0.047304	PRR5L		
ENSG00000164106	4	174295852	174337531	80	17	38641	1.6714	0.047324	SCRG1		
ENSG00000101343	20	20005012	20046690	113	15	52485	1.6712	0.047341	CRNKL1		
ENSG00000106415	7	7998425	8143902	551	53	49046	1.6711	0.047349	GLCCI1		
ENSG00000196172	19	23911997	23951693	94	16	44009	1.6708	0.047382	ZNF681		
ENSG00000070759	1	45799555	45966872	300	26	52517	1.6705	0.047407	TESK2		
ENSG00000113532	5	100132639	100248970	273	23	45759	1.6698	0.04748	ST8SIA4		
ENSG00000113119	5	140009012	140034993	64	10	53907	1.6693	0.047524	TMCO6		
ENSG00000196275	7	74200483	74277847	36	13	42210	1.6685	0.04761	GTF2IRD2		
ENSG00000138085	2	27424895	27450046	74	12	42953	1.6681	0.047651	ATRAID		
ENSG00000106633	7	44173872	44247769	262	47	51344	1.6678	0.047676	GCK		
ENSG00000114126	3	141653277	141878386	875	37	54251	1.6678	0.047679	TFDP2		
ENSG00000153060	16	10711358	10798802	531	60	38506	1.6676	0.047702	TEKT5		
ENSG00000197472	1	247098849	247181395	372	43	41414	1.6672	0.04774	ZNF695		
ENSG00000172031	1	92485539	92539093	151	19	47772	1.6666	0.047793	EPHX4		
ENSG00000108961	17	8181815	8203410	74	17	45508	1.6666	0.047796	RANGRF		
ENSG00000213512	1	89587434	89651723	150	18	51972	1.6665	0.047812	GBP7		
ENSG00000164022	4	107226701	107280383	154	16	52775	1.6663	0.047829	AIMP1		
ENSG00000102910	16	48268207	48407033	236	16	38006	1.6659	0.047865	LONP2		
ENSG00000119523	9	101968708	101994238	64	9	55782	1.6657	0.047886	ALG2		

ENSG00000130203	19	45399011	45422650	81	22	46774	1.6654	0.047917	<i>APOE</i>		
ENSG00000196436	16	74401776	74435978	21	9	43482	1.6652	0.047933	<i>NPIP815</i>		
ENSG00000139675	13	53181605	53227919	170	12	54549	1.6651	0.047947	<i>HNRNPA1L2</i>		
ENSG00000211584	12	48137699	48186536	182	30	51968	1.665	0.047961	<i>SLC48A1</i>		
ENSG00000142273	19	45271126	45313891	115	22	38951	1.6641	0.048049	<i>CBL3</i>		
ENSG00000198912	1	3795689	3826857	143	22	46769	1.6639	0.048063	<i>C1orf174</i>		
ENSG00000144840	3	120395528	120471840	181	29	41164	1.6638	0.048075	<i>RABL3</i>		
ENSG00000144026	2	95803075	95841158	49	14	49003	1.6636	0.048093	<i>ZNF514</i>		
ENSG00000073008	19	45137098	45176850	95	22	40995	1.6632	0.048132	<i>PVR</i>		
ENSG00000147364	8	346428	431225	463	52	49006	1.663	0.048154	<i>FBXO25</i>		
ENSG00000188782	1	26507052	26539459	97	20	46935	1.6629	0.048164	<i>CATSPER4</i>		
ENSG00000249087	1	23685490	23708332	60	11	35242	1.6626	0.048194	<i>C1orf213</i>		
ENSG00000196748	6	35734371	35757329	89	15	31415	1.6626	0.048197	<i>CLPSL2</i>		
ENSG00000167895	17	76116851	76149049	139	32	48035	1.6615	0.048305	<i>TMC8</i>		
ENSG00000268432	5	157150003	157171727	80	14	47783	1.6613	0.048322	<i>AC026407.1</i>		
ENSG00000166848	16	75671684	75805770	336	40	41561	1.6613	0.048324	<i>TERF2IP</i>		
ENSG00000110536	11	47576982	47605013	30	11	43265	1.6606	0.048402	<i>PTPMT1</i>		
ENSG00000137996	1	100721763	100768325	129	11	31045	1.6604	0.048413	<i>RTCA</i>		
ENSG00000109255	4	56451396	56512865	228	27	47514	1.6604	0.048418	<i>NMU</i>		
ENSG00000198128	1	248213984	248234922	57	9	41671	1.6602	0.048442	<i>OR2L3</i>		
ENSG00000149187	11	47477496	47597121	163	29	42841	1.66	0.048461	<i>CELF1</i>		
ENSG00000235931	10	61705188	61730671	102	18	51683	1.6583	0.048627	<i>C10orf40</i>		
ENSG00000205517	19	11485017	11540018	117	19	34691	1.6582	0.048639	<i>RGL3</i>		
ENSG00000226288	11	4598021	4619135	82	14	50727	1.658	0.048658	<i>OR52I2</i>		
ENSG00000125966	20	33804457	33874801	143	22	43412	1.6579	0.048667	<i>MMP24</i>		
ENSG00000167771	11	63668693	63694316	28	7	31371	1.6578	0.048681	<i>RCOR2</i>		
ENSG00000163221	1	153336184	153358125	57	6	52594	1.6576	0.048694	<i>S100A12</i>		
ENSG00000188730	7	49803257	49971546	403	47	48397	1.6567	0.048794	<i>VWC2</i>		
ENSG00000268413	17	42325297	42365825	90	28	47334	1.6554	0.048924	<i>AC003043.1</i>		
ENSG00000165355	14	39856873	39911704	153	16	45313	1.655	0.04896	<i>FBXO33</i>		
ENSG00000173599	11	66605704	66735847	254	39	51912	1.6546	0.049	<i>PC</i>		
ENSG00000157388	3	53518683	53857760	885	149	42299	1.6542	0.049038	<i>CACNA1D</i>		
ENSG00000152219	11	30334598	30369774	115	14	47559	1.6541	0.04905	<i>ARL14EP</i>		
ENSG00000083312	5	72102139	72222560	253	25	51029	1.6541	0.049052	<i>TNPO1</i>		
ENSG00000148798	10	105026920	105060108	77	14	48015	1.654	0.049065	<i>INA</i>		
ENSG00000155363	1	113205763	113253368	106	19	52934	1.6536	0.0491	<i>MOV10</i>		

ENSG00000115956	2	68582305	68634585	332	23	39594	1.6533	0.049134	PLEK		
ENSG00000213533	3	52860235	52941612	182	17	51863	1.6531	0.049155	TMEM110		
ENSG00000168575	8	42263993	42407069	326	54	39984	1.6528	0.049184	SLC20A2		
ENSG00000268870	19	12492763	12561896	399	15	40791	1.6528	0.049189	CTD-3105H18.16		
ENSG00000255692	12	120127573	120148816	53	10	35126	1.6526	0.049209	RP1-127H14.3		
ENSG00000110697	11	67249239	67283734	40	16	44152	1.6525	0.049214	PITPNM1		
ENSG00000113212	5	140542243	140565957	87	12	44102	1.6524	0.049222	PCDHB7		
ENSG00000140451	15	65097831	65127867	120	20	40840	1.6522	0.049249	PIF1		
ENSG00000102858	16	4656494	4750975	422	50	46022	1.6516	0.049308	MGRN1		
ENSG00000155066	2	95930201	95967056	43	12	51874	1.6514	0.049329	PROM2		
ENSG00000171791	18	60780579	60997361	580	133	41875	1.6512	0.04935	BCL2		
ENSG00000125484	9	135535422	135580342	153	13	53278	1.6511	0.049363	GTF3C4		
ENSG00000170759	10	32287938	32355359	186	19	54702	1.6506	0.049407	KIF5B		
ENSG00000048462	16	12048964	12071925	98	15	33912	1.6502	0.049448	TNFRSF17		
ENSG00000115568	2	219492639	219534378	90	11	38316	1.6502	0.049451	ZNF142		
ENSG00000158092	3	136571050	136678665	299	12	51979	1.6499	0.049477	NCK1		
ENSG00000111640	12	6633093	6657537	69	12	42598	1.6499	0.049484	GAPDH		
ENSG00000213203	7	150403645	150431372	88	13	46758	1.6497	0.049505	GIMAP1		
ENSG00000176473	14	100832755	101006640	318	47	40134	1.6497	0.049505	WDR25		
ENSG00000143556	1	153420220	153443177	53	9	48571	1.6495	0.049524	S100A7		
ENSG00000186710	12	113577663	113607081	80	13	50318	1.6493	0.049547	CCDC42B		
ENSG00000181961	11	55100627	55121707	87	15	42528	1.6483	0.049645	OR4A16		
ENSG00000114200	3	165480692	165565260	325	34	42934	1.647	0.049776	BCHE		
ENSG00000160233	21	45865369	45888739	98	14	52773	1.647	0.049781	LRRC3		
ENSG00000188324	12	55678072	55699016	46	13	42648	1.6455	0.049935	OR6C6		
ENSG00000165416	13	53216844	53285044	222	12	54887	1.645	0.049982	SUGT1		
ENSG00000107929	10	845484	987564	384	29	47371	1.6447	0.050017	LARP4B		
ENSG00000213888	22	31732875	31754670	53	17	49779	1.6447	0.050019	AC005003.1		
ENSG00000164111	4	122579110	122628268	230	27	38475	1.6446	0.050025	ANXA5		
ENSG00000135973	2	105848200	105869924	55	12	45418	1.6441	0.050082	GPR45		
ENSG00000167774	19	8363167	8396263	157	18	38356	1.6437	0.05012	NDUFA7		
ENSG00000267855	19	8363490	8396280	157	18	38356	1.6437	0.05012	NDUFA7		
ENSG00000106261	7	99603204	99649312	81	15	51519	1.6427	0.050226	ZKSCAN1		
ENSG00000151498	11	134113389	134145749	83	15	49430	1.6425	0.050242	ACAD8		
ENSG00000168256	17	40153400	40187659	45	11	47281	1.6421	0.050282	NKIRAS2		
ENSG00000233927	19	8376042	8398224	112	17	46692	1.6421	0.050285	RPS28		

ENSG00000177614	1	230447392	230571475	506	71	44708	1.6411	0.050384	<i>PGBD5</i>		
ENSG00000106034	7	120618731	120947498	946	76	46163	1.641	0.050402	<i>CPED1</i>		
ENSG00000125246	13	100248919	100559387	1016	135	45545	1.6405	0.050446	<i>CLYBL</i>		
ENSG00000204788	9	69367902	69390597	1	1	42767	1.6399	0.05051	<i>CR769776.1</i>		
ENSG00000269430	21	45869814	45892078	78	13	52289	1.6391	0.050601	<i>LRRC3DN</i>		
ENSG00000179115	19	13023293	13054851	61	11	48123	1.639	0.050609	<i>FARSA</i>		
ENSG00000157999	7	6061007	6086017	114	19	48319	1.6387	0.050637	<i>ANKRD61</i>		
ENSG00000175467	11	65719160	65757299	116	16	48169	1.6386	0.050648	<i>SART1</i>		
ENSG00000244411	11	71228313	71249210	70	7	44488	1.6385	0.050657	<i>KRTAP5-7</i>		
ENSG00000165322	10	32084365	32227742	311	25	54638	1.6385	0.050662	<i>ARHGAP12</i>		
ENSG00000175390	11	7981798	8033409	176	40	44474	1.6383	0.050682	<i>EIF3F</i>		
ENSG00000165475	13	20967806	21109996	525	77	44588	1.6377	0.05074	<i>CRYL1</i>		
ENSG00000136720	2	128984290	129086151	350	57	41327	1.6374	0.050777	<i>HS6ST1</i>		
ENSG00000169689	17	79966578	79991983	50	12	47192	1.6373	0.050784	<i>STRA13</i>		
ENSG00000196781	9	84188598	84314220	456	99	47469	1.6372	0.05079	<i>TLE1</i>		
ENSG00000231738	12	85398094	85440055	51	13	48320	1.6368	0.050831	<i>TSPAN19</i>		
ENSG00000149554	11	125485036	125556150	201	20	51916	1.6362	0.050896	<i>CHEK1</i>		
ENSG00000204267	6	32779610	32816557	341	52	44179	1.6359	0.050931	<i>TAP2</i>		
ENSG00000122188	1	203724304	203755361	103	14	45394	1.6357	0.050951	<i>LAX1</i>		
ENSG00000019995	10	126620692	126686758	166	19	41351	1.6357	0.050956	<i>ZRANB1</i>		
ENSG00000204531	6	31122119	31158508	452	47	43851	1.6354	0.050984	<i>POU5F1</i>		
ENSG00000258386	14	32466108	32497891	92	18	45059	1.6352	0.051	<i>RP11-187E13.2</i>		
ENSG00000049192	5	64434563	64787747	1020	81	48480	1.6349	0.051031	<i>ADAMTS6</i>		
ENSG00000176567	11	48275413	48296330	95	12	30535	1.6346	0.05107	<i>OR4X1</i>		
ENSG00000157895	12	121430225	121464305	139	21	51843	1.6327	0.05127	<i>C12orf43</i>		
ENSG00000157510	5	148641434	148731365	232	52	44905	1.6322	0.05132	<i>AFAP1L1</i>		
ENSG00000111012	12	58146117	58172769	27	5	42615	1.632	0.051339	<i>CYP27B1</i>		
ENSG00000152611	5	35894397	35948881	197	23	46192	1.6319	0.051348	<i>CAPSL</i>		
ENSG00000103196	16	84843590	84964374	670	115	48273	1.6318	0.051365	<i>CRISPLD2</i>		
ENSG00000146147	6	53784780	54141078	886	91	40073	1.6317	0.051375	<i>MLIP</i>		
ENSG00000216588	19	45106940	45150081	143	24	47577	1.6317	0.051375	<i>IGSF23</i>		
ENSG00000131100	22	18064902	18121584	302	21	40543	1.6315	0.051393	<i>ATP6V1E1</i>		
ENSG00000178093	19	19613227	19636838	59	9	44333	1.6313	0.051418	<i>TSSK6</i>		
ENSG00000121068	17	59467257	59496827	88	15	40506	1.6312	0.05142	<i>TBX2</i>		
ENSG00000233198	9	140112018	140134090	55	15	54565	1.6308	0.051464	<i>RNF224</i>		
ENSG00000231852	6	31996042	32019447	67	25	40247	1.6303	0.051515	<i>CYP21A2</i>		

ENSG00000182749	1	26177701	26207744	49	10	36599	1.6301	0.051545	PAQR7		
ENSG00000181143	19	8949520	9102018	614	72	46732	1.63	0.051551	MUC16		
ENSG00000184349	5	106702590	107016596	811	142	45513	1.6299	0.051563	EFNA5		
ENSG00000105173	19	30292805	30325215	98	17	48258	1.6299	0.051563	CCNE1		
ENSG00000134321	2	6995937	7048370	83	19	49625	1.6298	0.051575	RSAD2		
ENSG00000266953	19	34877220	34910269	69	17	44190	1.6296	0.051596	RP11-618P17.4		
ENSG00000149636	20	35370194	35412221	46	24	47167	1.6294	0.051609	DSN1		
ENSG00000120675	13	43587339	43693045	292	25	39780	1.6291	0.051648	DNAJC15		
ENSG00000258388	6	32111622	32149755	106	22	48029	1.6288	0.051674	PPT2-EGFL8		
ENSG00000184203	3	195231221	195280209	179	23	45571	1.6287	0.051685	PPP1R2		
ENSG00000155858	5	157160703	157197717	111	12	51606	1.6283	0.051735	LSM11		
ENSG00000131495	5	140008325	140037370	77	10	53361	1.6281	0.051753	NDUFA2		
ENSG00000149532	11	61160121	61207503	52	9	38884	1.6271	0.05186	CPSF7		
ENSG00000105281	19	47268140	47301851	145	23	47883	1.6266	0.051914	SLC1A5		
ENSG00000166006	12	75423857	75613648	531	58	41676	1.6266	0.051916	KCNC2		
ENSG00000148704	10	118878032	118907812	41	10	39314	1.6265	0.051918	VAX1		
ENSG00000114098	3	137896109	138027231	132	38	49693	1.6265	0.051924	ARMC8		
ENSG00000063180	19	49131199	49159569	64	14	35608	1.6262	0.051956	CA11		
ENSG00000145741	5	72784233	72811460	45	15	42239	1.626	0.05198	BTF3		
ENSG00000237541	6	32699119	32724992	581	28	36865	1.6246	0.052124	HLA-DQA2		
ENSG00000127445	19	9935933	9970358	71	16	42500	1.624	0.052188	PIN1		
ENSG00000180539	9	139911916	139941234	76	15	53118	1.6238	0.052205	C9orf139		
ENSG00000136026	12	106621655	106708057	271	58	46166	1.6237	0.052225	CKAP4		
ENSG00000173486	11	63998475	64021604	54	11	44878	1.6235	0.052244	FKBP2		
ENSG00000136110	13	53267399	53323947	183	24	50005	1.6232	0.052274	LECT1		
ENSG00000268923	6	31963945	31984881	22	9	43717	1.623	0.052298	AL645922.1		
ENSG00000148343	9	131788900	131844361	113	20	31105	1.6227	0.052328	FAM73B		
ENSG00000261717	16	75436582	75508604	343	18	45840	1.6225	0.052347	RP11-77K12.1		
ENSG00000124194	20	42865887	42919013	151	16	30739	1.6217	0.052436	GDAP1L1		
ENSG00000135119	12	117166096	117301436	446	68	44757	1.6214	0.052463	RNFT2		
ENSG00000188807	1	9638932	9684935	65	13	43037	1.621	0.052506	TMEM201		
ENSG00000188573	5	167946121	167967639	96	11	45994	1.6209	0.05252	FBLL1		
ENSG00000137218	6	41727914	41764280	96	22	48889	1.6209	0.052521	FRS3		
ENSG00000179253	20	60282562	60304804	99	17	23857	1.6205	0.052561	RP11-429E11.3		
ENSG00000132185	1	161666762	161694142	120	29	41796	1.6203	0.052579	FCRLA		
ENSG00000251201	5	114904339	114971858	154	21	51111	1.6201	0.052603	TMED7-TICAM2		

ENSG00000243414	5	114904339	114971876	154	21	51111	1.6201	0.052603	<i>TICAM2</i>		
ENSG00000168539	11	62666151	62699279	75	22	47579	1.6192	0.0527	<i>CHRM1</i>		
ENSG00000205809	12	10569453	10604899	63	12	39735	1.6192	0.0527	<i>KLRC2</i>		
ENSG00000125995	20	34277194	34298906	58	11	46065	1.6191	0.05271	<i>ROMO1</i>		
ENSG00000177058	5	54911673	55079022	901	32	43569	1.619	0.052718	<i>SLC38A9</i>		
ENSG00000144524	2	232636381	232683963	117	16	54566	1.619	0.052727	<i>COPS7B</i>		
ENSG00000179813	13	43345686	43375683	102	14	51874	1.6188	0.052745	<i>FAM216B</i>		
ENSG00000149809	11	64869317	64893856	46	15	47326	1.6183	0.052794	<i>TM7SF2</i>		
ENSG00000084774	2	27430258	27476811	144	17	43154	1.618	0.052831	<i>CAD</i>		
ENSG00000065559	17	11914141	12057147	278	30	52129	1.6175	0.052885	<i>MAP2K4</i>		
ENSG00000269121	16	12052000	12072333	92	15	33336	1.6175	0.052887	<i>AC007216.2</i>		
ENSG00000048991	2	136279025	136492840	197	23	25716	1.6173	0.052902	<i>R3HDM1</i>		
ENSG00000011007	1	24059645	24098549	46	19	46056	1.617	0.052937	<i>TCEB3</i>		
ENSG00000243696	3	52837298	52879745	92	12	51866	1.6169	0.052945	<i>RP5-966M1.6</i>		
ENSG00000167536	17	27214799	27240089	26	9	46615	1.6166	0.052981	<i>DHRS13</i>		
ENSG00000172487	11	56117691	56138764	96	12	56092	1.6166	0.052987	<i>OR8J1</i>		
ENSG00000129636	16	47178298	47508060	377	36	43163	1.6159	0.053059	<i>ITFG1</i>		
ENSG00000185966	1	152528130	152549248	59	14	40834	1.6157	0.053084	<i>LCE3E</i>		
ENSG00000168803	15	43612872	43656096	79	11	38573	1.6156	0.053089	<i>ADAL</i>		
ENSG00000083097	6	83767385	83891069	208	22	49934	1.6143	0.053235	<i>DOPEY1</i>		
ENSG00000125457	17	73252309	73277308	81	14	34617	1.6142	0.053239	<i>MIF4GD</i>		
ENSG00000124406	4	42400390	42669122	935	83	50954	1.6141	0.053255	<i>ATP8A1</i>		
ENSG00000179213	19	51739603	51782584	131	18	26565	1.6139	0.053274	<i>SIGLECL1</i>		
ENSG00000138814	4	101934566	102279435	801	85	36578	1.6137	0.053299	<i>PPP3CA</i>		
ENSG00000130545	19	6453788	6477232	93	18	41923	1.6136	0.05331	<i>CRB3</i>		
ENSG00000135426	12	55331802	55388530	97	25	42264	1.6135	0.053321	<i>TESPA1</i>		
ENSG00000113272	5	157148205	157178456	102	17	48824	1.6133	0.053335	<i>THG1L</i>		
ENSG00000267988	7	45892684	45916045	93	18	47940	1.6126	0.053411	<i>AC096582.1</i>		
ENSG00000174891	3	157813644	158273519	1628	48	51600	1.6125	0.053422	<i>RSRC1</i>		
ENSG00000185022	22	38587889	38622518	115	16	38650	1.6125	0.053429	<i>MAFF</i>		
ENSG00000102699	13	24985064	25096948	705	36	50800	1.6121	0.053475	<i>PARP4</i>		
ENSG00000165084	8	69232957	69741257	1584	129	42162	1.6115	0.053536	<i>C8orf34</i>		
ENSG00000148204	9	126108449	126152603	149	31	46074	1.6115	0.053539	<i>CRB2</i>		
ENSG00000114209	3	167391086	167462727	113	9	31890	1.6113	0.053561	<i>PDCD10</i>		
ENSG00000109103	17	26863725	26889686	22	9	39028	1.6112	0.053566	<i>UNC119</i>		
ENSG00000144036	2	72393113	73063170	1182	39	35554	1.6111	0.053577	<i>EXOC6B</i>		

ENSG00000131771	17	37772993	37802879	76	14	31753	1.6106	0.053636	PPP1R1B		
ENSG00000124641	6	41863092	41898877	76	18	52901	1.61	0.053697	MED20		
ENSG00000138068	2	37384963	37433741	348	27	47069	1.6097	0.053732	SULT6B1		
ENSG00000117640	1	26135131	26169432	88	8	40823	1.6095	0.053758	MTFR1L		
ENSG00000120063	17	62996833	63062957	57	17	44445	1.6091	0.053796	GNA13		
ENSG00000197838	19	41584377	41612100	127	12	43386	1.6091	0.053801	CYP2A13		
ENSG00000124659	6	42702219	42724558	50	12	54206	1.6084	0.053872	TBCC		
ENSG00000179271	19	13054972	13078050	32	14	47100	1.6075	0.053969	GADD45GIP1		
ENSG00000105479	19	48789714	48835151	184	25	49468	1.6067	0.054062	CCDC114		
ENSG00000166166	14	103985521	104013410	81	14	51845	1.6061	0.054131	TRMT61A		
ENSG00000134146	15	35499546	35848394	815	73	36640	1.6059	0.054144	DPH6		
ENSG00000172489	11	56009676	56030698	66	9	56499	1.6059	0.054153	OR5T3		
ENSG00000087111	17	26870401	26908890	25	10	49597	1.6049	0.05426	PIGS		
ENSG00000132963	13	29223241	29263062	112	14	38661	1.6048	0.054268	POMP		
ENSG00000001617	3	50182478	50236508	93	17	38140	1.6046	0.054286	SEMA3F		
ENSG00000132874	18	42782960	43273072	1707	185	48594	1.6046	0.05429	SLC14A2		
ENSG00000114631	3	127338024	127401652	77	21	55165	1.604	0.05436	PODXL2		
ENSG00000142973	1	47213510	47295085	221	37	40030	1.6038	0.054376	CYP4B1		
ENSG00000011590	19	36185429	36217940	83	20	47858	1.6037	0.054395	ZBTB32		
ENSG00000107185	9	35739203	35768572	42	13	52627	1.6036	0.054403	RGP1		
ENSG00000174177	16	88762871	88791794	181	37	47263	1.6029	0.054473	CTU2		
ENSG00000132604	16	69379464	69452474	142	32	50833	1.6028	0.054489	TERF2		
ENSG00000055955	3	52836991	52875495	84	11	52379	1.6022	0.05456	ITIH4		
ENSG00000136158	13	80900111	80925086	49	17	39882	1.6019	0.054585	SPRY2		
ENSG00000131653	16	2195699	2238130	62	28	41508	1.6019	0.05459	TRAF7		
ENSG00000167515	16	88912628	88939094	138	25	41036	1.6018	0.054597	TRAPPC2L		
ENSG00000064300	17	47562655	47602379	118	38	43738	1.6016	0.054627	NGFR		
ENSG00000112640	6	42942237	42990080	160	25	37025	1.6015	0.054631	PPP2R5D		
ENSG00000173662	1	6605241	6649817	126	14	33752	1.601	0.054686	TAS1R1		
ENSG00000249992	3	45255958	45277770	96	16	38864	1.6006	0.054736	TMEM158		
ENSG00000197191	9	140109087	140130763	54	14	56206	1.6004	0.054754	C9orf169		
ENSG00000132837	5	78283438	78541861	750	65	36606	1.6002	0.054772	DMGDH		
ENSG00000167775	19	8357011	8383240	86	10	29559	1.5988	0.05493	CD320		
ENSG00000183571	15	99501459	99561024	274	42	39424	1.5987	0.054945	PGPEP1L		
ENSG00000256530	15	76020311	76041568	68	8	48786	1.5983	0.054991	AC019294.1		
ENSG00000134909	11	128824955	129159219	924	67	51162	1.5982	0.054999	ARHGAP32		

ENSG00000258713	20	2785633	2806479	44	15	40066	1.5982	0.055002	<i>C20orf141</i>		
ENSG00000125618	2	113963574	114046527	327	34	48881	1.598	0.055019	<i>PAX8</i>		
ENSG00000062650	10	88185013	88291572	276	34	43884	1.5979	0.055029	<i>WAPAL</i>		
ENSG00000162711	1	247569458	247622410	297	59	47626	1.5978	0.055048	<i>NLRP3</i>		
ENSG00000167766	19	53087313	53203749	667	78	49252	1.5975	0.055072	<i>ZNF83</i>		
ENSG00000179965	16	30408618	30450920	47	18	38150	1.5974	0.055084	<i>ZNF771</i>		
ENSG00000163141	1	150999046	151030076	78	20	50222	1.5969	0.055148	<i>BNIP1</i>		
ENSG00000104756	8	25275366	25325992	154	10	49559	1.5968	0.055153	<i>KCTD9</i>		
ENSG00000176884	9	140022842	140073207	115	31	38259	1.5967	0.055162	<i>GRIN1</i>		
ENSG00000162727	1	248298450	248319388	55	11	35648	1.5963	0.055212	<i>OR2M5</i>		
ENSG00000141012	16	88870142	88933378	404	45	48750	1.596	0.055242	<i>GALNS</i>		
ENSG00000259571	11	121976062	121996923	66	16	51243	1.596	0.055244	<i>BLID</i>		
ENSG00000170037	17	7825419	7863236	113	11	47270	1.5956	0.055293	<i>CNTROB</i>		
ENSG00000159167	8	23689428	23722320	102	17	49549	1.5936	0.055511	<i>STC1</i>		
ENSG00000106804	9	123704616	123822554	304	33	42340	1.593	0.055579	<i>C5</i>		
ENSG00000268556	2	105857759	105879601	43	11	37794	1.5923	0.055656	<i>AC012360.1</i>		
ENSG00000081177	14	69648228	69719075	160	23	34662	1.5922	0.05567	<i>EXD2</i>		
ENSG00000003137	2	72346367	72385167	90	22	38045	1.5922	0.055671	<i>CYP26B1</i>		
ENSG00000066117	12	50468755	50504495	51	14	37674	1.5921	0.055686	<i>SMARCD1</i>		
ENSG00000137965	1	79105481	79139763	82	16	52111	1.5919	0.055699	<i>IFI44</i>		
ENSG00000124568	6	25773125	25842287	235	26	36153	1.5913	0.055769	<i>SLC17A1</i>		
ENSG00000152256	2	173410101	173499823	323	28	49944	1.5912	0.055781	<i>PDK1</i>		
ENSG00000116032	19	990418	1019731	253	43	50662	1.5912	0.055785	<i>GRIN3B</i>		
ENSG00000134508	18	20704528	20850431	328	55	43021	1.5908	0.055832	<i>CABLES1</i>		
ENSG00000182578	5	149422854	149502935	257	59	41340	1.59	0.055917	<i>CSF1R</i>		
ENSG00000185532	10	52740945	54068110	4881	332	42836	1.5895	0.055976	<i>PRKG1</i>		
ENSG00000137474	11	76829310	76936284	431	61	41650	1.5893	0.055995	<i>MYO7A</i>		
ENSG00000146067	5	176936789	176991542	75	14	30601	1.5889	0.056038	<i>FAM193B</i>		
ENSG00000176986	10	75494120	75541919	75	12	42167	1.5888	0.056052	<i>SEC24C</i>		
ENSG00000188064	22	46306242	46383009	369	65	43809	1.5887	0.056065	<i>WNT7B</i>		
ENSG00000188389	2	242782033	242811060	78	15	50432	1.5882	0.05612	<i>PDCD1</i>		
ENSG00000086506	16	220452	241180	47	14	47897	1.5878	0.056165	<i>HBQ1</i>		
ENSG00000160216	21	45275067	45416417	390	50	45282	1.5865	0.056315	<i>AGPAT3</i>		
ENSG00000179262	19	13046669	13074456	40	15	47702	1.5861	0.05636	<i>RAD23A</i>		
ENSG00000180658	6	132011520	132032635	37	9	31631	1.586	0.05637	<i>OR2A4</i>		
ENSG00000198373	16	69786209	69985644	555	48	44580	1.5857	0.056402	<i>WWP2</i>		

ENSG00000114654	3	128710472	128769585	85	24	44547	1.5851	0.056469	EFCC1		
ENSG00000242372	20	33856714	33882788	71	10	44669	1.5849	0.056491	EIF6		
ENSG00000109606	4	24509064	24596173	251	36	45115	1.5847	0.056518	DHX15		
ENSG00000153832	2	230777018	230887825	194	28	48948	1.5839	0.056609	FBXO36		
ENSG00000176595	8	1912044	1965102	242	44	44056	1.5837	0.056627	KBTBD11		
ENSG00000184363	11	382614	414908	127	17	35475	1.5835	0.05665	PKP3		
ENSG00000006114	17	35864900	35979544	210	35	43335	1.5834	0.056665	SYNRG		
ENSG00000081692	1	227908126	227933112	52	14	50473	1.5831	0.056705	JMJD4		
ENSG00000187147	1	44860866	45127396	743	137	44073	1.5827	0.05674	RNF220		
ENSG00000170369	20	23794406	23817368	163	25	46940	1.5827	0.056741	CST2		
ENSG00000115523	2	85902298	85935977	140	15	45430	1.582	0.056822	GNLY		
ENSG00000149084	11	43567986	43888167	854	73	50336	1.582	0.056826	HSD17B12		
ENSG00000009830	14	77731299	77797227	235	40	50853	1.5819	0.056831	POMT2		
ENSG00000163636	3	63986225	64019658	122	25	46536	1.5815	0.05688	PSMD6		
ENSG00000198646	20	33274722	33423452	281	23	52359	1.5815	0.056884	NCOA6		
ENSG00000137776	15	59161244	59235852	106	17	34641	1.58	0.057049	SLTM		
ENSG00000162889	1	206848289	206917628	209	31	41646	1.5798	0.057075	MAPKAPK2		
ENSG00000140265	15	43640370	43673223	45	8	38148	1.5781	0.057276	ZSCAN29		
ENSG00000157741	7	138905102	139002982	159	22	39947	1.5776	0.057329	UBN2		
ENSG00000085733	11	70234510	70292690	118	16	50335	1.5772	0.057377	CTTN		
ENSG00000256632	12	133254635	133301498	155	22	49001	1.5771	0.05739	RP13-672B3.2		
ENSG00000134014	8	27937190	28058673	314	32	41586	1.5767	0.057428	ELP3		
ENSG00000115204	2	27522360	27558547	46	13	40710	1.5761	0.0575	MPV17		
ENSG00000136270	7	45129699	45161646	146	23	41901	1.5752	0.057604	TBRG4		
ENSG00000077152	1	202290785	202321108	44	10	41367	1.5752	0.057608	UBE2T		
ENSG00000232268	11	4605037	4626243	86	16	51975	1.5752	0.057608	OR52I1		
ENSG00000160460	19	40962148	41092370	344	63	44762	1.575	0.05763	SPTBN4		
ENSG00000132589	17	27196353	27234697	57	14	42637	1.5749	0.057634	FLOT2		
ENSG00000137642	11	121312912	121514402	447	80	40055	1.5749	0.057635	SORL1		
ENSG00000153714	9	12765020	12832130	211	51	45147	1.5747	0.057668	LURAP1L		
ENSG00000143363	1	150970896	151018189	140	32	46636	1.5745	0.057687	PRUNE		
ENSG00000117461	1	46495812	46652160	300	21	51720	1.5743	0.057709	PIK3R3		
ENSG00000188786	1	38265239	38335292	148	23	42664	1.5742	0.057716	MTF1		
ENSG00000154655	18	5944705	6425236	1341	155	43035	1.5741	0.057733	L3MBTL4		
ENSG00000075711	3	196759431	197036171	835	57	47278	1.5738	0.057767	DLG1		
ENSG00000146373	6	125273691	125423779	328	57	45281	1.573	0.057854	RNF217		

ENSG00000112425	6	145812719	146067160	847	34	53940	1.573	0.057862	<i>EPM2A</i>		
ENSG00000112175	6	55608443	55750362	334	62	50431	1.5726	0.057909	<i>BMP5</i>		
ENSG00000058272	12	80157343	80339240	239	21	24357	1.5724	0.05793	<i>PPP1R12A</i>		
ENSG00000164898	7	139014203	139041065	98	8	31173	1.5722	0.05795	<i>C7orf55</i>		
ENSG00000133574	7	150254365	150281041	153	16	45242	1.5722	0.05795	<i>GIMAP4</i>		
ENSG00000108342	17	38161614	38184066	90	10	47395	1.5722	0.057954	<i>CSF3</i>		
ENSG00000198218	3	49057140	49141796	96	21	41165	1.5719	0.057989	<i>QRICH1</i>		
ENSG00000142515	19	51348171	51374020	191	34	48892	1.5717	0.058016	<i>KLK3</i>		
ENSG00000214655	10	75535340	75571551	39	8	42042	1.5714	0.058048	<i>ZSWIM8</i>		
ENSG00000092201	14	21809631	21862425	128	17	40521	1.5711	0.058078	<i>SUPT16H</i>		
ENSG00000162976	2	11285324	11329000	187	29	44684	1.5709	0.058101	<i>PQLC3</i>		
ENSG00000131620	11	69914408	70045634	570	88	52781	1.5709	0.058101	<i>ANO1</i>		
ENSG00000137692	11	102922805	102972944	88	17	52104	1.5709	0.058102	<i>DCUN1D5</i>		
ENSG00000187848	12	133185366	133208972	105	14	55883	1.5708	0.058115	<i>P2RX2</i>		
ENSG00000149269	11	77022752	77195680	431	35	45048	1.5706	0.058138	<i>PAK1</i>		
ENSG00000178343	4	42389856	42414504	95	23	50629	1.5706	0.05814	<i>SHISA3</i>		
ENSG00000133710	5	147395246	147526852	653	38	33033	1.5706	0.05814	<i>SPINK5</i>		
ENSG00000205927	21	34388153	34411504	66	22	48978	1.57	0.058205	<i>OLIG2</i>		
ENSG00000023171	11	123386344	123508482	418	84	45993	1.57	0.058206	<i>GRAMD1B</i>		
ENSG00000204502	1	13349819	13379057	9	4	42657	1.5696	0.058256	<i>PRAMEF5</i>		
ENSG00000101194	20	61574052	61609949	146	36	46734	1.5695	0.05827	<i>SLC17A9</i>		
ENSG00000223474	1	26135212	26157288	57	7	36949	1.5692	0.058305	<i>AL020996.1</i>		
ENSG00000139567	12	52290692	52327145	133	29	48214	1.5691	0.058314	<i>ACVRL1</i>		
ENSG00000198824	13	115069988	115102796	78	11	46739	1.5689	0.058331	<i>CHAMP1</i>		
ENSG00000241404	6	32122360	32146058	71	19	47635	1.5688	0.058344	<i>EGFL8</i>		
ENSG00000272916	10	75546272	75581409	47	8	39248	1.5685	0.058383	<i>RP11-574K11.31</i>		
ENSG00000204614	6	30093885	30126512	315	20	46997	1.5666	0.058603	<i>TRIM40</i>		
ENSG00000137809	15	68584050	68734501	552	81	43368	1.5663	0.058644	<i>ITGA11</i>		
ENSG00000269169	19	989601	1009952	171	31	48812	1.5661	0.058657	<i>AC004528.1</i>		
ENSG00000011132	19	3740817	3771697	130	31	52432	1.5656	0.058723	<i>APBA3</i>		
ENSG00000150433	11	124956398	124991659	172	32	48905	1.5655	0.058732	<i>TMEM218</i>		
ENSG00000101444	20	32858074	32909608	73	9	33428	1.5655	0.058738	<i>AHCY</i>		
ENSG00000162302	11	64116620	64149687	93	10	38439	1.5654	0.058742	<i>RPS6KA4</i>		
ENSG00000244734	11	5236694	5260625	95	21	42843	1.5654	0.058748	<i>HBB</i>		
ENSG00000213760	6	31502239	31526204	165	31	48709	1.5644	0.058859	<i>ATP6V1G2</i>		
ENSG00000144802	3	101536835	101589866	85	17	46896	1.5644	0.058865	<i>NFKBIZ</i>		

ENSG00000171067	11	68018803	68049469	86	14	47409	1.5641	0.058899	<i>C11orf24</i>		
ENSG00000125998	20	33863534	33890204	65	10	42960	1.564	0.058903	<i>FAM83C</i>		
ENSG00000218537	22	24226613	24251117	154	23	44879	1.564	0.058912	<i>AP000350.4</i>		
ENSG00000177084	12	133190348	133273951	288	19	55124	1.5638	0.058933	<i>POLE</i>		
ENSG00000148408	9	140762241	141029076	527	61	43671	1.5632	0.059003	<i>CACNA1B</i>		
ENSG00000175279	1	10480159	10522210	130	15	40818	1.5627	0.059059	<i>APITD1</i>		
ENSG00000251503	1	10480159	10522210	130	15	40818	1.5627	0.059059	<i>APITD1-CORT</i>		
ENSG00000144028	2	96930074	96981297	59	13	36907	1.562	0.059144	<i>SNRNP200</i>		
ENSG00000161714	17	43176335	43220721	117	30	50487	1.5619	0.059151	<i>PLCD3</i>		
ENSG00000107960	10	105632300	105687963	161	17	44260	1.5619	0.05916	<i>OBFC1</i>		
ENSG00000197364	1	153399534	153422425	58	11	46784	1.5618	0.059171	<i>S100A7L2</i>		
ENSG00000162337	11	68070077	68226743	416	59	43055	1.5606	0.059305	<i>LRP5</i>		
ENSG00000174611	3	134311980	134380478	174	12	53698	1.5601	0.059371	<i>KY</i>		
ENSG00000171431	17	39022193	39051479	89	18	41011	1.5589	0.059508	<i>KRT20</i>		
ENSG00000133561	7	150312463	150339473	78	14	54375	1.5589	0.059509	<i>GIMAP6</i>		
ENSG00000166275	10	104603980	104634718	94	15	49343	1.5588	0.059521	<i>C10orf32</i>		
ENSG00000123545	6	97327189	97355757	113	17	53480	1.5583	0.059581	<i>NDUF4F4</i>		
ENSG00000168280	2	149622819	149893273	275	24	33681	1.5582	0.05959	<i>KIF5C</i>		
ENSG00000115738	2	8808975	8834583	63	18	38344	1.5582	0.059595	<i>ID2</i>		
ENSG00000064763	12	29292036	29503913	737	61	48860	1.5575	0.059672	<i>FAR2</i>		
ENSG00000166507	10	75551669	75581589	44	8	39007	1.5573	0.059703	<i>NDST2</i>		
ENSG00000176894	12	133254192	133307276	176	25	49176	1.5564	0.05981	<i>PXMP2</i>		
ENSG00000241690	20	2785614	2808712	50	18	41178	1.5563	0.059817	<i>TMEM239</i>		
ENSG00000110917	12	121114672	121149667	115	25	45658	1.5554	0.059925	<i>MLEC</i>		
ENSG00000174276	11	64873875	64895170	39	12	48203	1.5551	0.059958	<i>ZNHIT2</i>		
ENSG00000164023	4	108735719	108846203	249	51	45304	1.5548	0.059993	<i>SGMS2</i>		
ENSG00000066777	8	68075747	68265912	269	32	43704	1.5546	0.060021	<i>ARFGEF1</i>		
ENSG00000258973	14	24791516	24816588	109	18	33315	1.5538	0.060113	<i>RP11-934B9.3</i>		
ENSG00000008988	8	56969854	56997069	108	13	46849	1.5534	0.060163	<i>RPS20</i>		
ENSG00000069011	5	134353425	134380503	85	11	35323	1.553	0.06021	<i>PITX1</i>		
ENSG00000135596	6	109755265	109797171	112	23	37948	1.5524	0.060285	<i>MICAL1</i>		
ENSG00000185909	3	49199044	49223917	37	7	49970	1.5524	0.060286	<i>KLHDC8B</i>		
ENSG00000171612	1	9589541	9655237	107	16	44746	1.5523	0.060292	<i>SLC25A33</i>		
ENSG00000172531	11	67155654	67198654	65	16	45416	1.5522	0.060312	<i>PPP1CA</i>		
ENSG00000070610	9	35726863	35759983	47	16	54077	1.5521	0.060315	<i>GBA2</i>		
ENSG00000135047	9	90330434	90356308	97	14	34072	1.5514	0.060409	<i>CTSL</i>		

ENSG00000107872	10	104168946	104192893	33	11	51847	1.5512	0.060424	<i>FBXL15</i>		
ENSG00000163348	1	154919502	154946329	28	11	46987	1.5511	0.060435	<i>PYGO2</i>		
ENSG00000180304	15	64969772	65005480	64	15	38540	1.5511	0.060435	<i>OAZ2</i>		
ENSG00000173588	12	94690225	94863764	372	47	53856	1.5511	0.060443	<i>CCDC41</i>		
ENSG00000129988	20	36964759	37015665	219	37	44971	1.5508	0.060473	<i>LBP</i>		
ENSG00000117569	1	97177221	97299294	311	30	43984	1.55	0.060571	<i>PTBP2</i>		
ENSG00000165810	5	180457225	180498523	194	29	41539	1.5496	0.060616	<i>BTNL9</i>		
ENSG00000169609	15	83647193	83690393	112	26	49802	1.5493	0.060659	<i>C15orf40</i>		
ENSG00000242110	5	33976283	34018220	106	18	36877	1.549	0.060696	<i>AMACR</i>		
ENSG00000165494	11	82858030	82908493	107	16	40722	1.5487	0.060726	<i>PCF11</i>		
ENSG00000175634	11	67185931	67212872	40	11	40124	1.5484	0.060767	<i>RPS6KB2</i>		
ENSG00000103253	16	766936	795525	83	15	32476	1.5484	0.060768	<i>HAGHL</i>		
ENSG00000081248	1	200998642	201091694	322	64	35950	1.5483	0.060773	<i>CACNA1S</i>		
ENSG00000166927	11	60135955	60173424	102	13	54191	1.5483	0.060774	<i>MS4A7</i>		
ENSG00000125450	17	73191754	73241853	99	14	48177	1.5482	0.060793	<i>NUP85</i>		
ENSG00000177453	5	43182173	43290952	310	47	46752	1.548	0.060811	<i>NIM1K</i>		
ENSG00000242252	1	156201753	156223112	48	16	50592	1.5478	0.060841	<i>BGLAP</i>		
ENSG00000185670	11	62505791	62531660	44	8	43262	1.5471	0.060919	<i>ZBTB3</i>		
ENSG00000122966	12	120113595	120325095	598	65	46787	1.5471	0.06092	<i>CIT</i>		
ENSG00000108176	10	69546427	69607924	164	27	36833	1.5471	0.060923	<i>DNAJC12</i>		
ENSG00000185187	11	395716	427455	90	21	40091	1.5465	0.060992	<i>SIGIRR</i>		
ENSG00000144029	2	95742952	95825179	82	20	48915	1.5461	0.061041	<i>MRPS5</i>		
ENSG00000168802	16	69141913	69176487	64	20	54560	1.5458	0.061082	<i>CHTF8</i>		
ENSG00000184381	22	38497502	38611697	466	36	47936	1.5457	0.061086	<i>PLA2G6</i>		
ENSG00000164054	3	48499197	48552259	80	16	34983	1.5457	0.06109	<i>SHISA5</i>		
ENSG00000214021	3	9839770	9906822	212	31	40981	1.5456	0.061104	<i>TTLL3</i>		
ENSG00000185721	22	31785509	31934726	423	41	48625	1.5456	0.061104	<i>DRG1</i>		
ENSG00000064651	5	127409458	127535380	221	21	41421	1.5452	0.061153	<i>SLC12A2</i>		
ENSG00000169908	3	149076809	149105652	103	21	55286	1.5452	0.061154	<i>TM4SF1</i>		
ENSG00000167186	16	19068921	19101417	99	14	32862	1.545	0.061173	<i>COQ7</i>		
ENSG00000173511	11	63992010	64016259	59	14	45913	1.5442	0.061268	<i>VEGFB</i>		
ENSG00000168234	18	21562737	21725574	428	77	34257	1.5441	0.061279	<i>TTC39C</i>		
ENSG00000125414	17	10414465	10463274	122	12	37566	1.5438	0.061314	<i>MYH2</i>		
ENSG00000145740	5	68379473	68436896	142	17	45393	1.5435	0.061358	<i>SLC30A5</i>		
ENSG00000181552	14	21226586	21249107	176	26	33635	1.5434	0.061361	<i>EDDM3B</i>		
ENSG00000006611	11	17505442	17575963	262	47	40775	1.5431	0.061406	<i>USH1C</i>		

ENSG00000186207	1	152473320	152494653	65	10	36678	1.543	0.06141	LCE5A		
ENSG00000142224	1	206962215	207026324	185	31	48895	1.5428	0.061439	IL19		
ENSG00000165661	9	139088179	139147687	218	44	48291	1.5425	0.061477	QSOX2		
ENSG00000119927	10	113899624	113985135	222	35	44479	1.5424	0.061484	GPAM		
ENSG00000122406	1	93287582	93317481	59	8	46183	1.5423	0.061502	RPL5		
ENSG00000204323	17	73619514	73647484	50	16	47698	1.5413	0.061622	SMIM5		
ENSG00000166741	11	114118509	114194007	178	43	48284	1.541	0.061661	NNMT		
ENSG00000175514	11	67208772	67230200	36	11	36952	1.5407	0.06169	GPR152		
ENSG00000167562	19	53049075	53100427	293	44	44705	1.5398	0.061801	ZNF701		
ENSG00000164465	6	117764980	117901021	508	52	49506	1.539	0.061905	DCBLD1		
ENSG00000011465	12	91529025	91586900	69	16	36107	1.5382	0.061996	DCN		
ENSG00000198877	11	55530914	55551858	120	10	50163	1.5381	0.062011	OR5D13		
ENSG00000102893	16	47485034	47745434	244	25	42436	1.5377	0.062057	PHKB		
ENSG00000112659	6	43139913	43202325	156	26	42877	1.5375	0.062091	CUL9		
ENSG00000175920	4	3455033	3513200	401	55	48395	1.5373	0.062114	DOK7		
ENSG00000163888	3	183967001	183989251	54	11	53196	1.537	0.062147	CAMK2N2		
ENSG00000155100	8	92072424	92109323	61	9	47058	1.537	0.062152	OTUD6B		
ENSG00000142453	19	10972189	11043453	131	21	53952	1.5365	0.062212	CARM1		
ENSG00000180488	1	78235309	78354106	237	42	39001	1.5362	0.062248	FAM73A		
ENSG00000141314	17	30583195	30661680	242	36	40412	1.5362	0.062249	RHBDL3		
ENSG00000141560	17	80664559	80698204	193	22	44438	1.5357	0.062302	FN3KRP		
ENSG00000163357	1	154996300	155033406	62	17	41383	1.5357	0.062307	DCST1		
ENSG00000168671	5	36025119	36081460	198	31	39176	1.5354	0.06234	UGT3A2		
ENSG00000040487	1	19628820	19665794	182	27	52947	1.5353	0.062359	PQLC2		
ENSG00000244731	6	31939801	31980458	63	21	38049	1.5346	0.062435	C4A		
ENSG00000107175	9	35722332	35747001	33	14	52956	1.5345	0.062453	CREB3		
ENSG00000189067	16	11631853	11740237	503	74	45156	1.5342	0.062492	LITAF		
ENSG00000138684	4	123523783	123552224	85	15	42631	1.533	0.062639	IL21		
ENSG00000088298	20	33693167	33875928	489	48	43481	1.532	0.062756	EDEM2		
ENSG00000112149	6	14107872	14147149	123	27	47144	1.5319	0.062768	CD83		
ENSG00000183675	10	48726874	48837966	7	4	46511	1.5319	0.062779	PTPN20B		
ENSG00000096433	6	33578142	33674351	475	64	43246	1.5316	0.062815	ITPR3		
ENSG00000189143	7	73203872	73257014	137	11	28858	1.5315	0.062817	CLDN4		
ENSG00000255054	1	26127961	26160235	82	9	40458	1.5294	0.063081	RP1-317E23.6		
ENSG00000222009	1	45264154	45291257	59	10	51083	1.529	0.063129	BTBD19		
ENSG00000169696	17	79924683	79985282	137	25	40099	1.529	0.06313	ASPSCR1		

ENSG00000171790	1	41471269	41498909	88	16	48561	1.5288	0.063163	<i>SLFNL1</i>		
ENSG00000167930	16	274545	329942	190	38	39174	1.5284	0.063201	<i>ITFG3</i>		
ENSG00000135547	6	126058810	126092415	58	9	41460	1.5284	0.063203	<i>HEY2</i>		
ENSG00000154975	17	49697674	50247377	1486	132	44808	1.5281	0.063245	<i>CA10</i>		
ENSG00000243708	15	42110283	42150345	141	20	46487	1.528	0.063259	<i>PLA2G4B</i>		
ENSG00000168970	15	42110293	42150353	141	20	46487	1.528	0.063259	<i>JMJD7-PLA2G4B</i>		
ENSG00000151292	5	122837793	122962739	242	21	46691	1.5277	0.063296	<i>CSNK1G3</i>		
ENSG00000091436	2	173930163	174142738	726	78	43315	1.5276	0.06331	<i>MLTK</i>		
ENSG00000145386	4	122727599	122755087	68	12	43267	1.5275	0.06332	<i>CCNA2</i>		
ENSG00000105409	19	42460734	42511649	44	17	42949	1.5267	0.063414	<i>ATP1A3</i>		
ENSG00000124256	20	56168902	56205632	104	33	49250	1.5258	0.063527	<i>ZBP1</i>		
ENSG00000037965	12	54392832	54417570	30	10	51228	1.5258	0.06353	<i>HOXC8</i>		
ENSG00000133863	8	30679060	30758122	199	19	30816	1.5255	0.063568	<i>TEX15</i>		
ENSG00000145832	5	135160338	135234326	292	40	43658	1.5251	0.06362	<i>SLC25A48</i>		
ENSG00000185024	14	105665623	105791926	313	27	46391	1.5251	0.06362	<i>BRF1</i>		
ENSG00000166825	15	90318120	90368633	206	34	46214	1.525	0.063626	<i>ANPEP</i>		
ENSG00000177363	11	62443874	62467371	39	7	50599	1.5248	0.063655	<i>LRRN4CL</i>		
ENSG00000014138	11	65019233	65083060	89	18	44193	1.5246	0.063674	<i>POLA2</i>		
ENSG00000111142	12	95857296	95919615	266	29	47571	1.5244	0.06371	<i>METAP2</i>		
ENSG00000124593	6	41738087	41767879	71	17	47110	1.5241	0.063738	<i>PRICKLE4</i>		
ENSG00000244414	1	196778887	196811319	22	13	40922	1.5241	0.063742	<i>CFHR1</i>		
ENSG00000095574	10	124740322	124778333	141	19	40497	1.5241	0.063747	<i>IKZF5</i>		
ENSG00000127824	2	220104433	220152892	109	17	30283	1.5235	0.063815	<i>TUBA4A</i>		
ENSG00000182923	3	134194585	134303859	297	10	52797	1.5235	0.063815	<i>CEP63</i>		
ENSG00000198601	1	248333288	248354331	127	13	45058	1.5232	0.063858	<i>OR2M2</i>		
ENSG00000166471	11	9292201	9346327	184	20	43888	1.523	0.063881	<i>TMEM41B</i>		
ENSG00000115750	2	9973483	10084545	617	39	40261	1.5228	0.063909	<i>TAF1B</i>		
ENSG00000149260	11	76767979	76847201	248	54	44178	1.522	0.064009	<i>CAPN5</i>		
ENSG00000112715	6	43727921	43764224	96	28	41675	1.5214	0.064082	<i>VEGFA</i>		
ENSG00000226174	14	105854916	105926443	54	35	43925	1.5214	0.064084	<i>TEX22</i>		
ENSG00000254870	6	31487996	31524385	262	36	50632	1.5213	0.064091	<i>ATP6V1G2-DDX39B</i>		
ENSG00000255874	13	111511578	111532162	52	13	33638	1.5212	0.064101	<i>LINC00346</i>		
ENSG00000251493	5	72730654	72754352	29	7	52111	1.5205	0.064187	<i>FOXD1</i>		
ENSG00000111860	6	118771935	119041238	851	51	51719	1.5203	0.064221	<i>CEP85L</i>		
ENSG00000156127	14	75978768	76023358	130	24	47136	1.5196	0.064301	<i>BATF</i>		
ENSG00000175352	11	8992123	9035596	114	16	48116	1.5193	0.064339	<i>NRIP3</i>		

ENSG00000158901	20	44169792	44217965	226	8	26005	1.5192	0.064353	WFDC8		
ENSG00000235376	10	104995644	105017773	43	10	50222	1.5191	0.064364	RPEL1		
ENSG00000106803	9	101974346	102002897	86	9	55379	1.5191	0.064369	SEC61B		
ENSG00000253426	8	8999252	9035646	66	15	36097	1.5191	0.064374	RP11-10A14.4		
ENSG00000167106	9	130692858	130752792	143	16	35769	1.519	0.064386	FAM102A		
ENSG00000161011	5	179223388	179275078	212	43	42769	1.5189	0.064395	SQSTM1		
ENSG00000182512	14	95989840	96021061	142	27	45628	1.5189	0.064396	GLRX5		
ENSG00000196470	16	48380275	48492313	189	30	43711	1.5187	0.064416	SIAH1		
ENSG00000117676	1	26846252	26911521	143	22	37508	1.5178	0.064528	RPS6KA1		
ENSG00000140450	15	98452784	98527068	383	58	39179	1.5176	0.064553	ARRDC4		
ENSG00000134470	10	5980855	6030150	239	49	44966	1.5175	0.064575	IL15RA		
ENSG00000147437	8	25266776	25292170	53	9	44808	1.5172	0.064611	GNRH1		
ENSG00000114626	3	127381778	127409768	60	13	55482	1.5169	0.064648	ABTB1		
ENSG00000146587	7	5075452	5119119	177	24	46470	1.5168	0.064665	RBAK		
ENSG00000240972	22	24226191	24247414	118	21	44721	1.5166	0.064678	MIF		
ENSG00000115504	2	62890986	63283622	503	61	53104	1.5166	0.064688	EHBP1		
ENSG00000270024	8	67569831	67782707	362	28	38830	1.5166	0.064688	C8orf44-SGK3		
ENSG00000067057	10	3098525	3189904	720	91	46741	1.5164	0.064705	PFKP		
ENSG00000221836	7	143737461	143758473	95	10	47643	1.5156	0.06481	OR2A5		
ENSG00000115263	2	162989392	163018914	83	17	39381	1.5155	0.064821	GCG		
ENSG00000145348	4	106952756	107252652	771	41	52101	1.5154	0.064832	TBCK		
ENSG00000073792	3	185351527	185552844	391	47	45525	1.5152	0.06486	IGF2BP2		
ENSG00000160471	19	55850674	55876182	80	21	45903	1.5149	0.0649	COX6B2		
ENSG00000170275	3	33145471	33199265	143	25	41841	1.5149	0.064902	CRTAP		
ENSG00000197530	1	1540795	1575990	41	13	31822	1.5144	0.064957	MIB2		
ENSG00000187242	17	39007555	39033462	86	16	44065	1.5141	0.064996	KRT12		
ENSG00000203301	1	2133360	2155620	54	18	44549	1.5138	0.065038	AL590822.1		
ENSG00000112977	5	10669342	10771384	339	32	44554	1.5138	0.065038	DAP		
ENSG00000228768	17	29888161	29912678	84	28	53822	1.5137	0.065054	AC003101.1		
ENSG00000153989	6	117986665	118041803	151	30	47250	1.5136	0.065061	NUS1		
ENSG00000183963	22	31450091	31510743	228	31	45700	1.5135	0.065082	SMTN		
ENSG00000141543	17	78099013	78130982	135	21	46792	1.5133	0.065107	EIF4A3		
ENSG00000134253	1	117643682	117675209	91	17	55216	1.5129	0.065151	TRIM45		
ENSG00000204604	19	53331261	53370902	212	28	42472	1.5126	0.065197	ZNF468		
ENSG00000141933	19	497299	529654	137	39	42516	1.5125	0.065202	TPGS1		
ENSG00000167645	19	38785753	38817913	114	18	53405	1.5125	0.065203	YIF1B		

ENSG00000267812	21	37260353	37280727	27	9	47317	1.512	0.065262	FKSG68		
ENSG00000137634	11	114431313	114476484	131	23	40968	1.512	0.065267	NXPE4		
ENSG00000176749	17	30803637	30828274	41	11	38598	1.5112	0.065367	CDK5R1		
ENSG00000101204	20	61965420	62019753	344	64	44395	1.5109	0.065412	CHRNA4		
ENSG00000204852	12	111041832	111097235	114	13	48239	1.5097	0.065555	TCTN1		
ENSG00000167523	16	89714210	89747680	151	24	40746	1.5097	0.065557	SPATA33		
ENSG00000092847	1	36325409	36405211	64	18	50920	1.5097	0.06556	AGO1		
ENSG00000168925	16	75242898	75268822	177	25	45500	1.5095	0.065585	CTRB1		
ENSG00000131778	1	146704291	146777443	389	31	44426	1.5093	0.065608	CHD1L		
ENSG00000130935	17	65703949	65750647	140	15	42496	1.5088	0.065675	NOL11		
ENSG00000167778	12	53448388	53483204	76	18	42102	1.5087	0.065694	SPRYD3		
ENSG00000183765	22	29073731	29148410	211	37	47181	1.5086	0.065705	CHEK2		
ENSG00000175087	1	26427664	26462034	96	5	47876	1.5086	0.065706	PDIK1L		
ENSG00000120242	9	21399146	21420184	78	19	50996	1.5084	0.065723	IFNA8		
ENSG00000151012	4	139075251	139173503	285	37	43506	1.5083	0.06574	SLC7A11		
ENSG00000087266	4	2784750	2852825	275	44	42988	1.5082	0.065753	SH3BP2		
ENSG00000016864	3	52718505	52750048	64	8	52851	1.5081	0.065766	GLT8D1		
ENSG00000120659	13	43126872	43192149	217	28	54149	1.508	0.065782	TNFSF11		
ENSG00000012124	19	35800164	35848258	175	60	42524	1.5079	0.065792	CD22		
ENSG00000197774	16	1813208	1841709	103	20	46260	1.5074	0.065852	EME2		
ENSG00000167941	17	41821099	41846156	70	16	48963	1.5069	0.065924	SOST		
ENSG00000091428	2	173590002	173927621	1058	118	47821	1.506	0.06603	RAPGEF4		
ENSG00000196182	1	36795225	36861497	106	21	46881	1.5056	0.066084	STK40		
ENSG00000236980	3	49205065	49239291	54	8	46397	1.5056	0.066091	C3orf84		
ENSG00000162104	16	3993388	4176186	727	115	40932	1.5047	0.066203	ADCY9		
ENSG00000142235	19	48978528	49026446	107	24	41413	1.5042	0.066267	LMTK3		
ENSG00000233024	16	18441943	18483188	4	1	46364	1.5037	0.066328	NPIPA7		
ENSG00000119285	1	236702305	236777804	543	29	28718	1.5036	0.06634	HEATR1		
ENSG00000135269	7	115840547	115908837	278	20	47588	1.5032	0.066391	TES		
ENSG00000242173	16	308726	343003	141	39	38001	1.5032	0.066392	ARHGDIG		
ENSG00000258052	12	70185449	70259143	260	32	41750	1.5031	0.066412	AC025263.3		
ENSG00000259642	15	80205113	80227194	126	11	54665	1.5027	0.066462	C15orf37		
ENSG00000165566	13	25725822	25756426	68	21	44522	1.5027	0.066464	AMER2		
ENSG00000119421	9	124884745	124932098	174	25	35050	1.5019	0.066566	NDUFA8		
ENSG00000183662	3	68043359	68604776	2122	157	49589	1.5011	0.06666	FAM19A1		
ENSG00000111339	12	14968503	15006429	112	13	54592	1.5011	0.066668	ART4		

ENSG00000232125	2	207506345	207593120	359	46	46001	1.5008	0.066704	DYTN		
ENSG00000005513	16	1021808	1046979	142	30	42988	1.4998	0.066827	SOX8		
ENSG00000250173	5	969480	991415	40	14	45566	1.4994	0.066884	RP11-661C8.3		
ENSG00000257028	15	80205507	80227194	124	11	54627	1.4993	0.066899	C15ORF37		
ENSG00000130449	5	60618100	60851997	437	42	49096	1.4993	0.066904	ZSWIM6		
ENSG00000146521	6	168175217	168207539	174	24	40445	1.4991	0.066924	C6orf123		
ENSG00000127483	1	21059154	21123816	183	24	51082	1.4985	0.066997	HP1BP3		
ENSG00000108506	17	59932731	60015377	150	18	40981	1.4984	0.067016	INTS2		
ENSG00000118058	11	118297205	118407539	142	26	40907	1.4983	0.067029	KMT2A		
ENSG00000180884	19	35437258	35464953	110	16	51135	1.498	0.067067	ZNF792		
ENSG00000084734	2	27709709	27756554	105	17	48409	1.4977	0.067111	GCKR		
ENSG00000179071	11	85384893	85407320	50	14	49161	1.4973	0.067152	CCDC89		
ENSG00000075340	2	70824750	71005357	785	82	46381	1.4973	0.067162	ADD2		
ENSG00000116977	1	236671300	236726281	374	19	27029	1.4966	0.067249	LGALS8		
ENSG00000184887	14	105704827	105727430	73	7	52719	1.4966	0.067249	BTBD6		
ENSG00000105983	7	156451646	156695924	967	65	51955	1.4963	0.067287	LMBR1		
ENSG00000114902	3	52728971	52752182	51	8	53042	1.4963	0.067291	SPCS1		
ENSG00000108604	17	61899444	61930425	75	6	23538	1.4961	0.067319	SMARCD2		
ENSG00000179889	16	15058448	15243196	319	46	40991	1.496	0.067333	PDXDC1		
ENSG00000197604	10	72184585	72206314	49	11	44350	1.4959	0.067334	AC022532.1		
ENSG00000128309	22	37405676	37435863	113	24	45709	1.4958	0.067354	MPST		
ENSG00000256374	1	148191752	148212536	3	2	42528	1.4958	0.067355	PPIAL4D		
ENSG00000168412	4	187444809	187486721	177	29	41216	1.4957	0.067366	MTNR1A		
ENSG00000161179	22	21972378	21994353	46	10	30184	1.4953	0.067423	YDJC		
ENSG00000114480	3	81528850	81821312	575	53	40236	1.4945	0.067517	GBE1		
ENSG00000128872	15	52033758	52118565	263	18	53165	1.4945	0.067522	TMOD2		
ENSG00000147789	8	146042849	146082894	135	12	43141	1.4941	0.067576	ZNF7		
ENSG00000122203	5	175763064	175798971	98	15	52039	1.4939	0.0676	KIAA1191		
ENSG00000237765	4	15673285	15717188	125	17	53476	1.4938	0.067614	FAM200B		
ENSG00000153339	18	29399136	29543099	415	37	49991	1.493	0.067719	TRAPPC8		
ENSG00000169252	5	148196156	148218196	83	12	39538	1.4929	0.067727	ADRB2		
ENSG00000269242	19	12744645	12769211	48	12	32899	1.4926	0.067772	CTD-2192J16.22		
ENSG00000143458	1	151033054	151108018	189	26	41143	1.4926	0.067773	GABPB2		
ENSG00000141977	19	16262179	16294336	107	13	39646	1.4923	0.067817	CIB3		
ENSG00000157823	15	90363831	90447574	238	19	52232	1.4921	0.067831	AP3S2		
ENSG00000197622	1	151013447	151052801	94	20	45552	1.492	0.067853	CDC42SE1		

ENSG00000115207	2	27538716	27589868	67	15	42863	1.4919	0.067866	GTF3C2		
ENSG00000115290	2	165339322	165488358	279	43	44182	1.4918	0.067875	GRB14		
ENSG00000166822	16	75466952	75509395	193	16	42163	1.4918	0.067882	TMEM170A		
ENSG00000109061	17	10385624	10431860	74	10	30811	1.4913	0.067948	MYH1		
ENSG00000137166	6	41504164	41580122	281	40	47576	1.4907	0.068017	FOXP4		
ENSG00000205329	12	55715485	55736420	89	10	44067	1.4902	0.068083	OR6C3		
ENSG00000131051	20	34281531	34340234	197	13	45569	1.49	0.068106	RBM39		
ENSG00000135175	7	97603996	97630481	158	16	48320	1.4897	0.068157	OCM2		
ENSG00000130427	7	100308423	100331323	59	12	53842	1.4896	0.06816	EPO		
ENSG00000151690	2	191263081	191383931	351	32	46129	1.4896	0.068165	MFSD6		
ENSG00000213246	17	56412539	56440454	73	17	51718	1.4893	0.068201	SUPT4H1		
ENSG00000172482	2	241797896	241829919	161	17	52003	1.4884	0.068323	AGXT		
ENSG00000010256	3	48626435	48658409	31	13	43100	1.4882	0.06835	UQCRC1		
ENSG00000134255	1	111672249	111737724	139	23	43999	1.4877	0.068409	CEPT1		
ENSG00000180992	6	44071194	44105194	145	20	40952	1.4872	0.068482	MRPL14		
ENSG00000186119	11	55577086	55598073	83	12	51985	1.4869	0.068521	OR5D18		
ENSG00000136908	9	130687378	130710763	47	7	29004	1.4868	0.06854	DPM2		
ENSG00000108405	17	3789886	3829794	108	28	40983	1.4865	0.068578	P2RX1		
ENSG00000107485	10	8085567	8127161	166	30	49016	1.4864	0.068585	GATA3		
ENSG00000170322	11	129723531	129775485	117	19	49634	1.4863	0.068606	NFRKB		
ENSG00000176978	9	139994994	140019629	89	17	45413	1.4857	0.068675	DPP7		
ENSG00000153815	16	81468775	81755367	1261	184	45884	1.4853	0.068735	CMIP		
ENSG00000160339	9	137762654	137789924	145	26	53015	1.4851	0.068763	FCN2		
ENSG00000161847	19	10416888	10454316	151	26	52855	1.4848	0.068798	RAVER1		
ENSG00000115657	2	220064490	220093712	44	11	38836	1.4843	0.068868	ABCB6		
ENSG00000169704	3	128769610	128791249	18	6	32564	1.4837	0.068943	GP9		
ENSG00000125304	13	100143671	100226260	219	29	48379	1.4835	0.068973	TM9SF2		
ENSG00000163632	3	63795038	63844312	84	17	44583	1.4832	0.069013	C3orf49		
ENSG00000129055	3	134186548	134215558	77	7	50002	1.4827	0.069072	ANAPC13		
ENSG00000178776	5	147250289	147296101	212	28	40748	1.4827	0.069075	C5orf46		
ENSG00000180357	15	64742941	64988264	469	41	37982	1.4827	0.069082	ZNF609		
ENSG00000188242	5	456239	483213	153	17	30838	1.4826	0.069084	CTD-2228K2.5		
ENSG00000184857	16	8864241	8901505	226	38	46028	1.4823	0.069127	TMEM186		
ENSG00000094963	1	171144347	171191822	253	23	41024	1.4817	0.069212	FMO2		
ENSG00000213782	12	12956250	12992915	132	27	47195	1.4816	0.069229	DDX47		
ENSG00000205856	22	32534993	32565309	164	28	42206	1.4811	0.069291	C22orf42		

ENSG00000156234	4	78422907	78542988	229	51	47113	1.4809	0.06931	<i>CXCL13</i>		
ENSG00000163067	2	95821177	95860065	47	17	48758	1.4809	0.069312	<i>ZNF2</i>		
ENSG00000120324	5	140561942	140585215	96	14	43098	1.4802	0.069415	<i>PCDHB10</i>		
ENSG00000158792	16	89752751	89778113	75	16	37806	1.48	0.069431	<i>SPATA2L</i>		
ENSG00000112964	5	42413879	42731979	804	82	45553	1.4799	0.069455	<i>GHR</i>		
ENSG00000168610	17	40455342	40550586	205	21	45813	1.4792	0.069544	<i>STAT3</i>		
ENSG00000184517	16	75172390	75216134	191	23	40154	1.4787	0.069609	<i>ZFP1</i>		
ENSG00000090372	19	47212764	47260251	112	22	53120	1.4786	0.069626	<i>STRN4</i>		
ENSG00000136982	8	120836216	120878250	223	22	38089	1.4785	0.069642	<i>DSCC1</i>		
ENSG00000144736	3	72788428	72921065	225	18	45043	1.4775	0.069771	<i>SHQ1</i>		
ENSG00000163794	2	27520268	27541313	32	11	42155	1.4775	0.069777	<i>UCN</i>		
ENSG00000144063	2	110831447	110884143	50	16	28789	1.477	0.069837	<i>MALL</i>		
ENSG00000106399	7	7666149	7768238	387	42	50801	1.477	0.069844	<i>RPA3</i>		
ENSG00000184601	14	105036021	105066852	90	15	36193	1.4768	0.069864	<i>C14orf180</i>		
ENSG00000076344	16	308300	335980	97	29	35112	1.4768	0.06987	<i>RGS11</i>		
ENSG00000186010	19	19616545	19654285	94	10	46032	1.4767	0.06988	<i>NDUFA13</i>		
ENSG00000213921	19	40257235	40286775	102	18	46877	1.4765	0.069906	<i>LEUTX</i>		
ENSG00000146674	7	45941949	45971473	63	16	54011	1.4763	0.069929	<i>IGFBP3</i>		
ENSG00000198563	6	31487996	31520225	232	32	51683	1.4759	0.069988	<i>DDX39B</i>		
ENSG00000188822	1	24187016	24295549	293	20	45589	1.4757	0.070015	<i>CNR2</i>		
ENSG00000100218	22	23391593	23497208	232	26	50162	1.4753	0.070062	<i>RTDR1</i>		
ENSG00000171291	19	11949541	12004565	173	24	39519	1.4752	0.070074	<i>ZNF439</i>		
ENSG00000173826	17	61590695	61636338	80	17	51765	1.475	0.070109	<i>KCNH6</i>		
ENSG00000204511	6	31486494	31508009	169	22	53751	1.4747	0.070151	<i>MCCD1</i>		
ENSG00000255046	8	11645437	11670077	174	30	52756	1.4744	0.070188	<i>RP11-297N6.4</i>		
ENSG00000116161	1	174958300	174990851	63	16	53941	1.4737	0.070278	<i>CACYBP</i>		
ENSG00000162687	1	196184909	196588355	773	49	46370	1.4735	0.070307	<i>KCNT2</i>		
ENSG00000149781	11	63964150	64001354	89	20	48948	1.4732	0.070342	<i>FERMT3</i>		
ENSG00000175354	18	12775477	12939642	525	66	40881	1.473	0.07037	<i>PTPN2</i>		
ENSG00000159377	1	151362010	151384420	26	12	42572	1.473	0.070372	<i>PSMB4</i>		
ENSG00000053900	4	25368835	25430120	234	23	38497	1.473	0.070382	<i>ANAPC4</i>		
ENSG00000204084	1	38316369	38422729	270	30	40368	1.4727	0.07041	<i>INPP5B</i>		
ENSG00000117305	1	24118375	24175110	83	8	51617	1.4724	0.070458	<i>HMGCL</i>		
ENSG00000272573	3	52857130	52879235	56	7	52552	1.4714	0.070588	<i>MUSTN1</i>		
ENSG00000140280	15	52005208	52053782	162	17	54041	1.4711	0.070638	<i>LYSMD2</i>		
ENSG00000197446	19	41610337	41644271	181	24	45771	1.471	0.070642	<i>CYP2F1</i>		

ENSG00000169554	2	145131648	145292147	255	61	45478	1.471	0.07065	ZEB2		
ENSG00000178772	3	194050494	194082057	162	26	42562	1.4709	0.07066	CPN2		
ENSG00000162004	16	762582	786954	88	14	29024	1.4708	0.070668	CCDC78		
ENSG00000008838	17	38165350	38227468	162	18	49245	1.4708	0.07067	MED24		
ENSG00000187715	3	127624075	127716514	300	35	45682	1.4708	0.070674	KBTBD12		
ENSG00000183395	12	102580237	102601623	36	7	51529	1.4708	0.070677	PMCH		
ENSG00000140057	14	96848448	96965764	295	52	48832	1.4707	0.070692	AK7		
ENSG00000166441	11	8693958	8746306	154	35	44719	1.4703	0.070741	RPL27A		
ENSG00000172663	11	67221824	67246743	42	15	43046	1.4702	0.070748	TMEM134		
ENSG00000198848	16	55826763	55877249	98	25	48272	1.4699	0.0708	CES1		
ENSG00000112874	5	102874556	102908494	95	14	52882	1.4694	0.070856	NUDT12		
ENSG00000174332	1	53961910	54209877	652	70	41629	1.4694	0.070867	GLIS1		
ENSG00000159650	3	126190124	126246616	225	48	45804	1.4686	0.070972	UROC1		
ENSG00000183682	1	39947318	40001607	144	26	36446	1.468	0.071047	BMP8A		
ENSG00000198326	20	2785614	2810930	54	19	41497	1.4678	0.071084	TMEM239		
ENSG00000019549	8	49820249	49844299	33	13	45229	1.4677	0.071094	SNAI2		
ENSG00000080709	5	113686642	113842337	406	59	43267	1.4672	0.071162	KCNN2		
ENSG00000181001	11	5799084	5820046	70	7	45398	1.467	0.071195	OR52N1		
ENSG00000128266	22	23402540	23477224	168	19	50836	1.4668	0.071211	GNAZ		
ENSG00000113303	5	180316077	180387906	209	16	44709	1.4665	0.071253	BTNL8		
ENSG00000127528	19	16425628	16448685	95	20	50545	1.4661	0.071315	KLF2		
ENSG00000269693	19	12626534	12701789	159	37	35886	1.466	0.071319	CTD-2192J16.20		
ENSG00000145241	4	68327521	68421324	336	23	49924	1.466	0.071327	CENPC		
ENSG00000007174	17	11491748	11883065	1098	140	46613	1.466	0.07133	DNAH9		
ENSG00000135097	12	120769133	120816983	114	14	50263	1.4659	0.071344	MSI1		
ENSG00000213190	1	151020234	151050970	65	16	44274	1.4657	0.071363	MLLT11		
ENSG00000120322	5	140547371	140570081	87	13	42708	1.4655	0.071386	PCDHB8		
ENSG00000168071	11	64097695	64135006	81	12	35499	1.4646	0.071516	CCDC88B		
ENSG00000188536	16	212846	233709	38	13	44898	1.4645	0.07153	HBA2		
ENSG00000177191	19	41921264	41944635	59	5	53728	1.4644	0.071539	B3GNT8		
ENSG00000120279	6	153009030	153055702	206	19	33752	1.4639	0.071617	MYCT1		
ENSG00000101413	20	36651948	36730768	153	15	37995	1.4636	0.071658	RPRD1B		
ENSG00000170677	18	67946137	68007436	250	40	47460	1.4632	0.071708	SOC6		
ENSG00000180953	15	80181182	80226044	248	23	53502	1.4631	0.071717	ST20		
ENSG00000221986	1	109824987	109859663	90	22	42710	1.4621	0.071852	MYBPHL		
ENSG00000145833	5	134084469	134200823	147	36	40808	1.4619	0.071879	DDX46		

ENSG00000174963	3	147093833	147134647	85	18	53551	1.4612	0.071985	ZIC4		
ENSG00000104946	19	50370682	50402005	70	14	42886	1.4602	0.072111	TBC1D17		
ENSG00000075884	2	143838931	144535921	1822	169	47514	1.4602	0.072118	ARHGAP15		
ENSG00000205047	16	87721749	87749290	125	29	46835	1.4601	0.07213	FLJ00104		
ENSG00000064201	11	2313227	2349430	150	22	46123	1.4598	0.072169	TSPAN32		
ENSG00000105605	19	54402589	54457195	75	33	36232	1.4598	0.072178	CACNG7		
ENSG00000117114	1	81761845	82468120	2559	270	48165	1.4596	0.072198	LPHN2		
ENSG00000008197	6	50671541	50750701	152	19	46645	1.4595	0.07221	TFAP2D		
ENSG00000172053	3	49123365	49152553	31	9	40918	1.4591	0.07227	QARS		
ENSG00000169224	1	247660360	247750992	320	53	48080	1.4591	0.072272	GCSAML		
ENSG00000116106	2	222272747	222448922	491	67	46097	1.4588	0.072312	EPHA4		
ENSG00000206172	16	216679	237521	46	14	47982	1.4583	0.072379	HBA1		
ENSG00000268927	16	70685570	70709739	84	26	42877	1.4582	0.07239	FLJ00418		
ENSG00000142945	1	45195490	45243439	136	18	42406	1.4581	0.072401	KIF2C		
ENSG00000170558	18	25520930	25767410	602	73	47189	1.4581	0.072406	CDH2		
ENSG00000004838	3	50368541	50394283	17	6	54038	1.458	0.072421	ZMYND10		
ENSG00000077092	3	25205823	25649423	1931	185	49327	1.4577	0.072466	RARB		
ENSG00000081377	9	99242523	99392112	191	29	42166	1.4576	0.072481	CDC14B		
ENSG00000175084	2	220273099	220301461	67	14	36253	1.4575	0.072483	DES		
ENSG00000059758	12	96662039	96804338	389	42	47921	1.4574	0.072498	CDK17		
ENSG00000197343	7	99146029	99184076	47	13	39520	1.4574	0.072506	ZNF655		
ENSG00000139350	12	97291001	97357129	161	16	54811	1.4574	0.072507	NEDD1		
ENSG00000221949	12	62985531	63007214	61	15	55761	1.4573	0.072515	C12orf61		
ENSG00000250021	15	90367540	90466114	260	22	51152	1.4573	0.072519	C15orf38-AP3S2		
ENSG00000197536	5	131736328	131821736	271	32	37922	1.4566	0.072609	C5orf56		
ENSG00000197119	14	100747448	100782884	87	25	49806	1.4562	0.072667	SLC25A29		
ENSG00000167910	8	59392737	59422795	82	16	40325	1.4562	0.07267	CYP7A1		
ENSG00000170043	17	7823663	7845441	59	10	44661	1.4559	0.072705	TRAPPC1		
ENSG00000151062	12	1891123	2038002	548	85	44496	1.4558	0.072725	CACNA2D4		
ENSG00000112273	6	22559678	22581892	94	16	49244	1.4557	0.072735	HDGFL1		
ENSG00000169174	1	55495221	55540525	156	37	44747	1.4555	0.072768	PCSK9		
ENSG00000176809	17	62840430	62925598	26	17	36301	1.4555	0.072771	LRRRC37A3		
ENSG00000160111	19	16993758	17147625	490	97	44527	1.4547	0.072874	CPAMD8		
ENSG00000156574	10	72182071	72217707	75	16	43089	1.4546	0.072887	NODAL		
ENSG00000025293	20	34349896	34548303	564	29	43314	1.4545	0.072897	PHF20		
ENSG00000141668	18	70193915	70315756	317	45	37377	1.4544	0.072916	CBLN2		

ENSG00000132274	11	5700919	5768319	430	52	49391	1.4543	0.072932	TRIM22		
ENSG00000130204	19	45383826	45416946	120	28	47470	1.4539	0.072986	TOMM40		
ENSG00000226180	16	87717144	87739753	103	23	50067	1.4526	0.073171	AC010536.1		
ENSG00000154768	17	34077916	34102098	87	11	50020	1.4514	0.073339	C17orf50		
ENSG00000131732	5	80587409	80619116	98	15	50244	1.4512	0.073358	ZCCHC9		
ENSG00000185156	17	8690436	8712667	82	14	43913	1.4512	0.073368	MFSD6L		
ENSG00000139797	13	98818039	98839519	55	15	42325	1.4508	0.073412	RNF113B		
ENSG00000239839	8	6863391	6885823	58	20	47495	1.4508	0.073417	DEFA3		
ENSG00000187118	3	28273075	28376633	223	25	44881	1.4508	0.073421	CMC1		
ENSG00000137948	1	92404928	92489983	285	18	39426	1.45	0.073527	BRDT		
ENSG00000154099	16	84168865	84222373	266	47	51086	1.4495	0.073596	DNAAF1		
ENSG00000170801	4	8261492	8318838	273	46	43985	1.4489	0.073685	HTRA3		
ENSG00000215372	8	7203039	7253080	22	7	41453	1.4485	0.073736	ZNF705G		
ENSG00000006016	19	18673030	18728551	203	27	36461	1.4485	0.073739	CRLF1		
ENSG00000160058	1	32820704	32870332	33	20	55099	1.4485	0.073746	BSDC1		
ENSG00000172955	4	100113795	100150694	101	18	40369	1.4482	0.073785	ADH6		
ENSG00000180447	9	89549279	89572104	59	13	43797	1.4481	0.073801	GAS1		
ENSG00000154719	21	26947968	26989829	164	13	26331	1.4479	0.073829	MRPL39		
ENSG00000108179	10	81097225	81125093	70	14	42688	1.4478	0.073835	PPIF		
ENSG00000135052	9	88631061	88725088	285	25	30384	1.4476	0.07386	GOLM1		
ENSG00000125945	1	23675941	23705935	79	14	38687	1.4475	0.073885	ZNF436		
ENSG00000146414	6	146175381	146295559	222	15	55975	1.4472	0.073917	SHPRH		
ENSG00000087191	17	61894512	61919379	50	5	22829	1.447	0.073949	PSMC5		
ENSG00000149806	11	64878100	64899945	37	12	45281	1.4469	0.073962	FAU		
ENSG00000096996	19	18159805	18219754	282	42	47688	1.4468	0.07397	IL12RB1		
ENSG00000198890	1	107589267	107611916	33	7	55133	1.4467	0.073989	PRMT6		
ENSG00000156687	8	35082975	35664068	1184	85	43279	1.4464	0.074031	UNC5D		
ENSG00000121390	13	20238896	20367142	289	28	40887	1.4464	0.074032	PSPC1		
ENSG00000115652	2	106699759	106820795	361	43	49823	1.4463	0.07404	UXS1		
ENSG00000170619	8	146056427	146089121	110	13	43585	1.4461	0.074076	COMMD5		
ENSG00000198520	1	45130364	45201263	159	43	45137	1.4451	0.074212	C1orf228		
ENSG00000105750	19	21096028	21143503	332	12	54259	1.4451	0.074222	ZNF85		
ENSG00000181789	3	128958449	129006614	101	11	41285	1.4449	0.074243	COPG1		
ENSG00000119922	10	91051712	91079033	53	16	38313	1.4449	0.074245	IFIT2		
ENSG00000187239	9	132639466	132815473	694	69	49620	1.4449	0.074249	FNBP1		
ENSG00000170929	19	9193855	9214889	103	14	50288	1.4443	0.07433	OR1M1		

ENSG00000117308	1	24112089	24137271	21	5	54602	1.4442	0.074339	GALE		
ENSG00000170890	12	120749914	120775592	65	9	46387	1.4442	0.074346	PLA2G1B		
ENSG00000183742	7	20164278	20267027	298	36	37636	1.4436	0.074431	MACC1		
ENSG00000118971	12	4372938	4424516	93	37	45186	1.4431	0.074497	CCND2		
ENSG00000168175	14	55508349	55546910	83	15	52055	1.4429	0.074528	MAPK1IP1L		
ENSG00000181908	11	64206546	64229126	49	15	44823	1.4425	0.074577	AP003774.4		
ENSG00000143952	2	64109280	64256206	493	48	40142	1.4424	0.074589	VPS54		
ENSG00000073417	15	85513671	85692376	641	47	38215	1.4424	0.074601	PDE8A		
ENSG00000153233	12	71021853	71324623	1065	125	41946	1.4423	0.074613	PTPRR		
ENSG00000144935	3	142432916	142536730	230	23	42345	1.442	0.074656	TRPC1		
ENSG00000172009	19	2775458	2823599	108	16	33898	1.4419	0.074659	THOP1		
ENSG00000059915	10	104152376	104191296	61	18	48456	1.4412	0.074759	PSD		
ENSG00000118017	3	137832560	137861229	55	9	44573	1.4412	0.074766	A4GNT		
ENSG00000255103	1	39866151	39892154	46	12	47698	1.4405	0.074863	KIAA0754		
ENSG00000105447	19	48939030	48970279	92	16	29304	1.4402	0.074905	GRWD1		
ENSG00000177479	3	48946254	49033815	110	18	38479	1.4402	0.074912	ARIH2		
ENSG00000167633	19	55225969	55388448	419	47	37172	1.4396	0.074988	KIR3DL1		
ENSG00000081014	15	51190869	51308097	327	23	54552	1.4393	0.075035	AP4E1		
ENSG00000185347	14	105946192	105975912	54	7	29757	1.4391	0.075066	C14orf80		
ENSG00000145050	3	51412478	51436828	18	8	50862	1.439	0.075074	MANF		
ENSG00000168509	1	145403095	145427545	20	9	44165	1.439	0.075076	HFE2		
ENSG00000156973	2	232587135	232660982	211	20	53105	1.4389	0.075084	PDE6D		
ENSG00000147592	8	71537553	71591409	189	21	34507	1.4388	0.075109	LACTB2		
ENSG00000164749	8	76310149	76489078	787	64	42684	1.4387	0.075115	HNF4G		
ENSG00000100890	14	35581052	35753271	622	52	48914	1.4385	0.075146	KIAA0391		
ENSG00000177370	17	890357	916911	70	15	44675	1.4381	0.0752	TIMM22		
ENSG00000139865	14	38055052	38520647	1177	108	45994	1.4378	0.075251	TTC6		
ENSG00000140795	16	46730891	46834319	95	18	37343	1.4374	0.075305	MYLK3		
ENSG00000122735	9	34447412	34530982	161	22	51590	1.4368	0.075388	DNAI1		
ENSG00000182557	17	4326983	4401503	408	64	50990	1.4367	0.0754	SPNS3		
ENSG00000131871	15	101801022	101827705	84	17	34197	1.4366	0.075414	VIMP		
ENSG00000178150	19	48665575	48800865	672	81	46674	1.4365	0.07543	ZNF114		
ENSG00000174156	6	52751437	52784483	115	15	33955	1.4364	0.07544	GSTA3		
ENSG00000114904	3	52734800	52814965	179	16	48780	1.4364	0.075444	NEK4		
ENSG00000224867	1	220593286	220618023	92	13	46976	1.4362	0.075472	AC096644.1		
ENSG00000213937	16	3052457	3074506	63	18	50253	1.4356	0.075564	CLDN9		

ENSG00000136319	14	20714717	20784153	245	42	49642	1.4355	0.075566	TTC5		
ENSG00000126218	13	113767128	113813843	82	26	39054	1.4355	0.075568	F10		
ENSG00000137501	11	85395267	85532184	358	35	49204	1.4351	0.075563	SYTL2		
ENSG00000004766	7	92851653	92998338	255	45	41898	1.4348	0.075674	CCDC132		
ENSG00000086504	16	407384	430527	159	23	39896	1.4343	0.075739	MRPL28		
ENSG00000266302	17	16583575	16717767	125	18	33851	1.4335	0.075853	RP11-219A15.1		
ENSG00000099840	19	2086380	2109592	67	16	48251	1.4335	0.075863	IZUMO4		
ENSG00000130254	19	5577010	5634057	150	23	49702	1.4334	0.075878	SAFB2		
ENSG00000265818	6	8005959	8112763	473	43	44944	1.4332	0.075897	EEF1E1-BLOC1S5		
ENSG00000124541	6	42979383	43011894	85	16	36950	1.4332	0.075907	RRP36		
ENSG00000241233	11	71239071	71260253	99	8	49504	1.4322	0.07605	KRTAP5-8		
ENSG00000166816	16	75135758	75160669	86	20	42715	1.4317	0.07612	LDHD		
ENSG00000144045	2	74735258	74763463	16	8	51888	1.4315	0.076143	DQX1		
ENSG00000136114	13	52941305	52990629	153	14	51465	1.4311	0.076194	THSD1		
ENSG00000122257	16	24539014	24594184	188	18	51551	1.4309	0.076233	RBBP6		
ENSG00000114268	3	48545117	48609448	80	19	39496	1.4308	0.076237	PFKFB4		
ENSG00000153774	16	75317596	75477383	637	23	48165	1.4308	0.076249	CFDP1		
ENSG00000183463	13	28541851	28572791	88	16	41612	1.4304	0.076302	URAD		
ENSG00000178980	19	48271829	48297943	86	22	48169	1.4302	0.07633	SEPW1		
ENSG00000234719	16	12011230	12080500	279	38	33734	1.43	0.076366	RP11-166B2.1		
ENSG00000166928	11	60136003	60195161	175	21	51440	1.4294	0.076445	MS4A14		
ENSG00000269531	12	80188742	80212321	31	9	26176	1.4294	0.076449	AC073569.1		
ENSG00000153234	2	157170944	157208860	49	11	35949	1.429	0.076497	NR4A2		
ENSG00000161013	5	179214597	179243952	114	28	46564	1.429	0.076508	MGAT4B		
ENSG00000156990	3	9869533	9896286	79	16	37313	1.4288	0.076527	RPUSD3		
ENSG00000170160	17	16582851	16717767	126	18	33684	1.4288	0.076532	CCDC144A		
ENSG00000185000	8	145529954	145560573	42	12	43708	1.4286	0.076554	DGAT1		
ENSG00000155561	7	135232667	135343505	560	35	50797	1.4286	0.076558	NUP205		
ENSG00000131773	8	136459700	136678965	558	50	45138	1.4282	0.076621	KHDRBS3		
ENSG00000077150	10	104143867	104172281	57	16	46497	1.4281	0.076628	NFKB2		
ENSG00000174942	11	56174734	56195708	109	14	46822	1.4281	0.076633	OR5R1		
ENSG00000144331	2	180296709	180736232	1768	176	50356	1.428	0.076647	ZNF385B		
ENSG00000268301	12	11177087	11197275	93	11	32240	1.4276	0.0767	AC018630.1		
ENSG00000165458	11	71924745	71960149	72	16	47486	1.4276	0.076704	INPPL1		
ENSG00000169682	16	28975542	29005869	53	17	41004	1.4272	0.076756	SPNS1		
ENSG00000103160	16	84145886	84188797	150	32	52805	1.4272	0.076765	HSDL1		

ENSG00000198258	19	9928568	9950791	52	16	36983	1.4267	0.076827	UBL5		
ENSG00000178206	2	132034330	132060127	47	11	36887	1.4266	0.07685	CYP4F31P		
ENSG00000178999	17	8098056	8123918	90	18	47224	1.4263	0.076897	AURKB		
ENSG00000181371	11	56247825	56268871	88	13	51812	1.426	0.076937	OR5M8		
ENSG00000181016	7	112110908	112141117	107	20	43707	1.4259	0.076943	LSMEM1		
ENSG00000183098	13	93869095	95069655	3705	323	46159	1.4257	0.076983	GPC6		
ENSG00000171132	2	45868484	46425129	2132	243	46996	1.4252	0.077054	PRKCE		
ENSG00000129226	17	7472785	7495429	50	12	46227	1.4251	0.07706	CD68		
ENSG00000006125	17	33895065	34063436	568	44	54703	1.4251	0.077063	AP2B1		
ENSG00000150471	4	62056976	62954053	2274	211	41931	1.4247	0.077125	LPHN3		
ENSG00000267824	16	20489024	20510981	36	9	33586	1.424	0.077218	AC137056.1		
ENSG00000213676	6	32055953	32106030	136	38	36961	1.424	0.077225	ATF6B		
ENSG00000170185	4	144096070	144154983	138	12	55910	1.424	0.077229	USP38		
ENSG00000139266	12	58138881	58164190	28	11	42066	1.4239	0.077239	Mar-09		
ENSG00000196284	6	44767054	45355690	2250	56	48445	1.4237	0.07727	SUPT3H		
ENSG00000068028	3	50357219	50388411	19	8	52022	1.4236	0.077275	RASSF1		
ENSG00000186115	19	15978833	16018930	250	22	54478	1.4235	0.077298	CYP4F2		
ENSG00000044459	9	17124980	17513921	1465	52	34415	1.4228	0.077398	CNTLN		
ENSG00000122034	13	27988681	28019958	149	20	40172	1.4227	0.077409	GTF3A		
ENSG00000197548	3	11303995	11609139	803	54	45398	1.4225	0.077447	ATG7		
ENSG00000109065	17	72756686	72782506	81	10	41383	1.4224	0.077456	NAT9		
ENSG00000105662	19	18784487	18903004	336	52	48250	1.4223	0.07747	CRTC1		
ENSG00000184661	8	25306513	25375436	198	15	47811	1.4222	0.077478	CDCA2		
ENSG00000162188	11	62465130	62486673	43	9	54484	1.4222	0.077489	GNG3		
ENSG00000099899	22	20089389	20114915	92	18	51399	1.4221	0.077497	TRMT2A		
ENSG00000204287	6	32397619	32422823	486	26	42534	1.4218	0.077538	HLA-DRA		
ENSG00000077157	1	202307827	202571834	387	23	41763	1.4217	0.077551	PPP1R12B		
ENSG00000135446	12	58131510	58159796	30	15	41571	1.4214	0.077593	CDK4		
ENSG00000117906	15	77213960	77252601	89	23	42736	1.4213	0.07761	RCN2		
ENSG00000183103	19	42331148	42358760	44	7	38520	1.4211	0.077643	LYPD4		
ENSG00000172340	3	67400884	67715038	1343	125	46310	1.4207	0.077705	SUCLG2		
ENSG00000100365	22	37247030	37284057	137	26	38209	1.4206	0.077718	NCF4		
ENSG00000172830	11	67060919	67090078	41	13	34664	1.4202	0.07778	SSH3		
ENSG00000205629	16	25113050	25199552	186	16	53262	1.42	0.077802	LCMT1		
ENSG00000082438	2	165500134	165710189	684	58	43720	1.4199	0.077819	COBLL1		
ENSG00000164120	4	175401328	175454305	208	38	50097	1.4197	0.077846	HPGD		

ENSG00000258941	14	39693106	39830397	418	34	44464	1.4194	0.077893	RP11-407N17.3		
ENSG00000069248	1	229567045	229654103	197	14	46859	1.4191	0.077933	NUP133		
ENSG00000196248	11	123837368	123858488	87	14	52649	1.4184	0.07803	OR10S1		
ENSG00000143545	1	153944127	153968834	42	14	52170	1.4184	0.078031	RAB13		
ENSG00000106080	7	30040203	30076300	79	11	55619	1.4184	0.078042	FKBP14		
ENSG00000179165	6	36348328	36420666	257	22	36395	1.4176	0.07816	PXT1		
ENSG00000104938	19	7818035	7844491	124	20	44407	1.4175	0.078165	CLEC4M		
ENSG00000025796	6	108178960	108289393	226	21	48555	1.4175	0.078171	SEC63		
ENSG00000154438	7	116993276	117078177	117	20	36959	1.4175	0.078172	ASZ1		
ENSG00000177465	14	74048410	74073200	123	23	37807	1.4174	0.078186	ACOT4		
ENSG00000205143	9	34611376	34638104	49	12	51145	1.4172	0.078212	ARID3C		
ENSG00000253958	8	8549448	8571616	143	6	55196	1.4169	0.078253	CLDN23		
ENSG0000012061	19	45900591	45992086	287	48	45439	1.4167	0.078285	ERCC1		
ENSG00000168936	4	1707679	1733085	133	16	46363	1.4163	0.078342	TMEM129		
ENSG00000149792	11	64879655	64904843	41	13	45375	1.4163	0.078347	MRPL49		
ENSG00000183317	1	38169552	38240805	289	35	50471	1.4156	0.07844	EPHA10		
ENSG00000140470	15	100501794	100892210	2129	228	41948	1.4156	0.078453	ADAMTS17		
ENSG00000185885	11	303506	325272	71	22	36653	1.4154	0.078477	IFITM1		
ENSG00000106236	7	98236609	98269180	68	19	40661	1.4151	0.078519	NPTX2		
ENSG00000144278	2	154718426	155320361	1988	135	45245	1.4145	0.078604	GALNT13		
ENSG00000075651	3	171308195	171538740	732	45	42053	1.4145	0.078605	PLD1		
ENSG00000067225	15	72481370	72534164	95	21	47123	1.4143	0.07863	PKM		
ENSG00000111737	12	120522899	120565306	105	23	36432	1.4142	0.078658	RAB35		
ENSG00000166159	12	1919433	1955918	121	39	49548	1.4141	0.07866	LRTM2		
ENSG00000267303	19	10416147	10441354	102	19	51222	1.4139	0.078702	CTD-2369P2.12		
ENSG00000138658	4	113450492	113568151	265	28	48059	1.4128	0.078856	C4orf21		
ENSG00000132781	1	45784835	45816142	44	13	48211	1.4128	0.078858	MUTYH		
ENSG00000162408	1	6571407	6624595	195	9	36916	1.4128	0.078859	NOL9		
ENSG00000105668	19	36147715	36179367	139	17	47149	1.4127	0.078873	UPK1A		
ENSG00000171793	1	41435007	41488235	169	30	50603	1.4126	0.07888	CTPS1		
ENSG00000139725	12	122205664	122251309	124	18	36668	1.4125	0.078896	RHOF		
ENSG00000169885	1	1836266	1858735	56	10	36943	1.4123	0.078928	CALML6		
ENSG00000158296	20	45176463	45314714	366	81	43917	1.4122	0.078952	SLC13A3		
ENSG00000172890	11	71154155	71245153	244	21	23568	1.4121	0.078963	NADSYN1		
ENSG00000187595	17	40167594	40227383	115	18	38592	1.4121	0.078965	ZNF385C		
ENSG00000135763	1	229751981	229805946	111	13	52579	1.412	0.078982	URB2		

ENSG00000186364	1	145576115	145599439	25	10	43915	1.4119	0.078984	<i>NUDT17</i>		
ENSG00000132773	1	45795342	45819647	43	11	47059	1.4117	0.079026	<i>TOE1</i>		
ENSG00000268635	11	77174416	77198074	62	15	45464	1.4114	0.079057	<i>DKFZP434E1119</i>		
ENSG00000162222	11	62485541	62517765	69	10	51077	1.4113	0.07908	<i>TTC9C</i>		
ENSG00000160396	19	40875178	40906094	69	21	49196	1.4112	0.079088	<i>HIPK4</i>		
ENSG00000257341	14	105943536	105968604	25	10	28693	1.4112	0.079089	<i>CRIP1</i>		
ENSG00000121270	16	48190821	48291479	285	16	33813	1.4111	0.079113	<i>ABCC11</i>		
ENSG00000122679	7	45187390	45235901	332	22	30836	1.4107	0.079173	<i>RAMP3</i>		
ENSG00000104774	19	12747325	12787556	70	19	35266	1.4106	0.079175	<i>MAN2B1</i>		
ENSG00000258674	19	19617036	19656885	93	10	46860	1.4101	0.079253	<i>CTC-260F20.3</i>		
ENSG00000129465	14	24795227	24819251	105	17	34141	1.4101	0.07926	<i>RIPK3</i>		
ENSG00000165171	7	73238920	73266865	77	4	21791	1.41	0.079265	<i>WBSCR27</i>		
ENSG00000186792	3	50320262	50346899	26	10	48910	1.4099	0.079291	<i>HYAL3</i>		
ENSG00000077097	3	25629475	25716398	193	18	48890	1.4098	0.079297	<i>TOP2B</i>		
ENSG00000163346	1	154906552	154938599	55	14	39213	1.4094	0.079353	<i>PBXIP1</i>		
ENSG00000168421	4	40182673	40258587	259	59	43613	1.4092	0.079381	<i>RHOH</i>		
ENSG00000185028	5	181626	205468	122	21	33437	1.4092	0.079394	<i>LRRC14B</i>		
ENSG00000093217	3	38378251	38472839	335	33	33090	1.4091	0.079406	<i>XYLB</i>		
ENSG00000122180	1	203042260	203065164	58	19	46091	1.4088	0.079441	<i>MYOG</i>		
ENSG00000212928	14	57661888	57683291	43	5	26092	1.4088	0.079445	<i>AL391152.1</i>		
ENSG00000197603	5	37096330	37259530	225	24	46575	1.4087	0.079455	<i>C5orf42</i>		
ENSG00000134824	11	61550452	61644826	215	29	42649	1.4081	0.079551	<i>FADS2</i>		
ENSG00000186603	1	45782545	45804347	24	11	53468	1.4078	0.079591	<i>HPDL</i>		
ENSG00000182771	10	87349312	88136250	2565	246	43196	1.4071	0.079694	<i>GRID1</i>		
ENSG00000198429	19	11988599	12035144	137	21	36267	1.4071	0.079701	<i>ZNF69</i>		
ENSG00000135631	2	73290510	73393849	335	31	37618	1.4066	0.079769	<i>RAB11FIP5</i>		
ENSG00000143851	1	202106141	202140716	122	35	48591	1.4064	0.079797	<i>PTPN7</i>		
ENSG00000243477	3	50323833	50346852	25	10	48561	1.4051	0.079997	<i>NAT6</i>		
ENSG00000139990	14	69507598	69629867	230	27	41266	1.4049	0.080027	<i>DCAF5</i>		
ENSG00000089123	20	13236709	13629587	1198	87	45878	1.4048	0.080039	<i>TASP1</i>		
ENSG00000178385	2	208683027	208900284	436	56	45012	1.4045	0.080081	<i>PLEKHM3</i>		
ENSG00000130703	20	60803580	60881268	238	26	46083	1.4043	0.080111	<i>OSBPL2</i>		
ENSG00000250565	2	46707889	46779696	247	38	42695	1.4038	0.080195	<i>ATP6V1E2</i>		
ENSG00000135913	2	219304974	219443084	286	19	46222	1.4037	0.080197	<i>USP37</i>		
ENSG00000185201	11	297631	325272	92	30	35365	1.4036	0.080215	<i>IFITM2</i>		
ENSG00000181074	11	5765923	5786959	163	13	50830	1.4036	0.080218	<i>OR52N4</i>		

ENSG00000146776	7	105235514	105527050	857	163	44240	1.4033	0.080264	ATXN7L1		
ENSG00000153086	2	135586117	135669604	102	14	30679	1.4032	0.080277	ACMSD		
ENSG00000204310	6	32125989	32155873	98	22	46276	1.4028	0.080345	AGPAT1		
ENSG00000189320	7	135403096	135443594	149	29	49519	1.4025	0.080389	FAM180A		
ENSG00000162585	1	2105903	2154159	111	30	45531	1.4024	0.080394	C1orf86		
ENSG00000079459	8	11643082	11706818	439	55	48493	1.4013	0.080565	FDFT1		
ENSG00000089692	12	6871678	6897621	47	19	46433	1.4012	0.080574	LAG3		
ENSG00000100604	14	93379425	93411638	131	27	54494	1.4009	0.080618	CHGA		
ENSG00000139624	12	50513575	50571288	114	11	31880	1.4008	0.080641	CERS5		
ENSG00000152977	3	147101209	147238080	336	31	54971	1.4007	0.080659	ZIC1		
ENSG00000103653	15	75064398	75105539	86	16	28890	1.3998	0.080783	CSK		
ENSG00000151917	6	56809773	56902140	202	16	49017	1.3994	0.080844	BEND6		
ENSG00000124657	6	27915019	27935960	33	13	40230	1.3994	0.08085	OR2B6		
ENSG00000086159	12	50350977	50380922	44	16	31028	1.3993	0.080857	AQP6		
ENSG00000153560	3	33419828	33492863	255	22	40329	1.3992	0.08087	UBP1		
ENSG00000205883	8	11829830	11852099	92	20	42381	1.3991	0.080886	DEFB135		
ENSG00000173110	1	161484036	161506681	71	16	41600	1.3991	0.080898	HSPA6		
ENSG00000205086	2	42152508	42191406	120	24	46651	1.399	0.080908	C2orf91		
ENSG00000164093	4	111528579	111573279	80	15	53319	1.3989	0.080919	PITX2		
ENSG00000171530	5	76976991	77174604	781	64	41547	1.3989	0.080926	TBCA		
ENSG00000010803	1	41482872	41717826	706	43	50446	1.3988	0.080943	SCMH1		
ENSG00000152785	4	81942119	81988685	114	19	35821	1.3987	0.080946	BMP3		
ENSG00000204498	6	31504647	31536606	205	35	49227	1.3986	0.080969	NFKBIL1		
ENSG00000197454	1	248175250	248196188	53	9	42083	1.3984	0.080999	OR2L5		
ENSG00000011405	11	17089277	17239530	299	29	43959	1.3982	0.081022	PIK3C2A		
ENSG00000250151	3	9824766	9887085	195	23	41393	1.3982	0.081033	ARPC4-TTL3		
ENSG00000164512	5	55385507	55539186	518	70	38343	1.3981	0.081042	ANKRD55		
ENSG00000198242	17	27036411	27061377	43	9	46621	1.3975	0.081135	RPL23A		
ENSG00000170946	11	31381387	31463396	137	17	47723	1.3971	0.081194	DNAJC24		
ENSG00000104731	16	87720091	87809598	465	51	47505	1.3966	0.081268	KLHDC4		
ENSG00000127603	1	39536988	39962849	937	70	45203	1.3952	0.081485	MACF1		
ENSG00000196569	6	129194342	129847714	1979	148	42580	1.3951	0.081485	LAMA2		
ENSG00000184454	1	24872602	24945819	358	51	48406	1.395	0.081505	NCMAP		
ENSG00000108312	17	42272401	42308994	78	16	42642	1.3946	0.081563	UBTF		
ENSG00000182393	19	39776965	39799313	81	9	32809	1.3946	0.081567	IFNL1		
ENSG00000272333	19	36198921	36239779	104	20	50924	1.3946	0.081575	KMT2B		

ENSG00000163938	3	52705172	52738508	69	8	50841	1.3945	0.081584	GNL3		
ENSG00000163155	1	151122224	151148424	30	13	38550	1.394	0.081658	LYSMD1		
ENSG00000188686	8	145480549	145502470	4	2	50616	1.3939	0.081675	SCXA		
ENSG00000180881	12	75659759	75794708	283	33	49109	1.3936	0.081717	CAPS2		
ENSG00000155886	9	19497450	19796926	959	124	42952	1.3936	0.081724	SLC24A2		
ENSG00000188624	19	46613328	46637931	57	15	50671	1.3935	0.081741	IGFL3		
ENSG00000171877	15	44152962	44497450	462	53	33384	1.3933	0.081763	FRMD5		
ENSG00000089057	20	4823002	5000939	519	91	44385	1.3927	0.081858	SLC23A2		
ENSG00000138604	15	69442923	69574556	261	23	40878	1.3923	0.081913	GLCE		
ENSG00000166483	11	9585228	9625004	113	22	43804	1.3923	0.081915	WEE1		
ENSG00000173137	8	145586790	145628457	65	11	34916	1.392	0.081955	ADCK5		
ENSG00000136536	2	160559000	160637538	356	28	48070	1.3918	0.081993	Mar-07		
ENSG00000100038	22	22301397	22347213	142	19	49636	1.3917	0.082002	TOP3B		
ENSG00000013810	4	1713227	1756898	247	22	44315	1.3911	0.082098	TACC3		
ENSG00000166946	15	43467316	43497396	30	12	48081	1.3908	0.082137	CCNDBP1		
ENSG00000186790	1	47871744	47893723	51	10	37702	1.3908	0.082149	FOXE3		
ENSG00000137821	15	71135578	71352414	294	34	47652	1.3902	0.082234	LRRC49		
ENSG00000149761	11	63983413	64008158	62	17	48193	1.3901	0.082246	NUDT22		
ENSG00000125255	13	103686350	103729196	240	39	53055	1.3901	0.082256	SLC10A2		
ENSG00000137204	6	43253432	43283276	60	14	39503	1.3898	0.08229	SLC22A7		
ENSG00000124215	20	58523471	58619066	251	44	44793	1.3898	0.082297	CDH26		
ENSG00000221947	8	71571600	71712606	562	25	33273	1.3896	0.082329	XKR9		
ENSG00000163684	3	58281974	58320422	196	15	33736	1.3889	0.082435	RPP14		
ENSG00000115137	2	25156505	25204963	116	18	42855	1.3888	0.082444	DNAJC27		
ENSG00000164758	8	118522952	118562501	128	23	54502	1.3886	0.082474	MED30		
ENSG00000150527	14	39724488	39866156	421	33	43290	1.3886	0.082474	CTAGE5		
ENSG00000089154	12	120555007	120642513	132	14	28726	1.3884	0.082513	GCN1L1		
ENSG00000087274	4	2835584	2941803	203	29	47993	1.3882	0.082532	ADD1		
ENSG00000135127	12	120417673	120542298	279	26	33307	1.388	0.082572	CCDC64		
ENSG00000109381	4	139939266	140108372	355	46	50244	1.3878	0.082595	ELF2		
ENSG00000103260	16	755115	779655	78	14	28222	1.3876	0.082631	METRNL		
ENSG00000115604	2	102917989	103025218	471	30	44620	1.3876	0.082633	IL18R1		
ENSG00000259159	11	119199652	119227368	75	8	50582	1.3875	0.082651	MFRP		
ENSG00000223953	11	119199652	119227383	75	8	50582	1.3875	0.082651	C1QTNF5		
ENSG00000235718	11	119199652	119227383	75	8	50582	1.3875	0.082651	MFRP		
ENSG00000105664	19	18883583	18912123	60	22	48007	1.3872	0.08269	COMP		

ENSG00000229183	11	60979688	61028929	21	11	37037	1.3869	0.082731	PGA4		
ENSG00000013725	11	60729115	60797849	275	50	42270	1.3868	0.082758	CD6		
ENSG00000104969	19	2744712	2793369	128	13	32008	1.3867	0.08276	SGTA		
ENSG00000177432	4	89607066	89629386	61	14	37885	1.3864	0.082805	NAP1L5		
ENSG00000215114	8	59313823	59374060	188	24	55514	1.3864	0.082811	UBXN2B		
ENSG00000180053	8	23549964	23574111	106	17	46662	1.386	0.082871	NKX2-6		
ENSG00000250067	19	19617036	19658390	101	12	45936	1.386	0.082872	YJEFN3		
ENSG00000182004	1	203820731	203849678	122	10	56112	1.386	0.082881	SNRPE		
ENSG00000114812	3	42520791	42589059	202	45	36194	1.3854	0.082971	VIPR1		
ENSG00000166862	22	36949968	37109603	482	94	45557	1.3853	0.082976	CACNG2		
ENSG00000164733	8	11690033	11736957	268	34	52111	1.3853	0.082977	CTSB		
ENSG00000256188	12	11275557	11297243	114	8	27817	1.3852	0.08299	TAS2R30		
ENSG00000197681	17	36327711	36368166	10	2	42859	1.3849	0.083048	TBC1D3		
ENSG00000108688	17	32587240	32609261	76	13	53359	1.3845	0.083102	CCL7		
ENSG00000058056	3	179360543	179517189	424	67	42631	1.3836	0.083235	USP13		
ENSG00000010610	12	6886024	6939974	164	35	40607	1.3834	0.083269	CD4		
ENSG00000155097	8	104023291	104095279	228	33	47872	1.3833	0.08329	ATP6V1C1		
ENSG00000169991	1	19220775	19293180	284	47	43577	1.3822	0.083455	IFFO2		
ENSG00000214212	19	10937251	10990466	82	15	54657	1.3818	0.083518	C19orf38		
ENSG00000117791	1	220911567	220968150	173	19	30983	1.3815	0.083562	Mar-02		
ENSG00000109113	17	27031299	27055447	38	8	48701	1.3812	0.083605	RAB34		
ENSG00000182053	11	49040504	49069579	130	11	22744	1.3811	0.08363	TRIM49B		
ENSG00000076554	8	80860571	81153467	849	70	43202	1.381	0.083638	TPD52		
ENSG00000157168	8	31486902	32632548	3860	259	45780	1.3807	0.083681	NRG1		
ENSG00000011454	9	125693112	125877145	258	37	46973	1.3807	0.083682	RABGAP1		
ENSG00000148935	11	22637188	22844601	477	63	40525	1.3804	0.083728	GAS2		
ENSG00000115041	2	95953052	96061825	139	16	51282	1.3802	0.083767	KCNIP3		
ENSG00000131864	19	57620506	57653294	99	13	46665	1.3798	0.083825	USP29		
ENSG00000168131	6	27868963	27890174	60	17	42833	1.3794	0.083888	OR2B2		
ENSG00000248485	1	161218517	161265240	204	27	47697	1.3791	0.083929	PCP4L1		
ENSG00000177239	9	139971379	140013635	123	22	46262	1.3786	0.084008	MAN1B1		
ENSG00000168661	19	35407807	35446074	139	11	37587	1.3784	0.084048	ZNF30		
ENSG00000172586	10	75531805	75553410	21	4	45023	1.3782	0.084078	CHCHD1		
ENSG00000161526	17	73653196	73714142	101	21	44680	1.378	0.084104	SAP30BP		
ENSG00000086015	1	46242659	46511796	609	22	55214	1.3779	0.084112	MAST2		
ENSG00000160229	19	20949110	21001922	488	19	55137	1.3775	0.084183	ZNF66		

ENSG00000091136	7	107554244	107653700	252	49	44880	1.3774	0.084198	LAMB1		
ENSG00000163206	1	152840793	152867523	19	9	38017	1.377	0.084257	SMCP		
ENSG00000188629	19	9425021	9503293	250	18	45434	1.3768	0.084288	ZNF177		
ENSG00000160193	21	44253204	44309678	322	28	43327	1.3765	0.084341	WDR4		
ENSG00000115525	2	86056267	86126137	246	22	53520	1.3764	0.084351	ST3GAL5		
ENSG00000147606	8	92211722	92420378	507	62	48738	1.3762	0.084375	SLC26A7		
ENSG00000239264	6	7871483	8036646	727	85	42552	1.3761	0.084392	TXNDC5		
ENSG00000149743	11	63981271	64003726	48	15	50449	1.3757	0.084457	TRPT1		
ENSG00000270011	19	9424850	9503293	251	18	45482	1.3756	0.084475	ZNF559-ZNF177		
ENSG00000101448	20	44155625	44186391	105	8	33397	1.3754	0.0845	EPPIN		
ENSG00000197077	22	25338697	25603415	779	97	46110	1.3753	0.084522	KIAA1671		
ENSG00000174013	3	196285482	196325930	121	27	43704	1.3752	0.084535	FBXO45		
ENSG00000187889	1	57174477	57295369	418	83	44467	1.3751	0.084548	C1orf168		
ENSG00000178741	15	75202132	75240509	81	12	31999	1.3747	0.084614	COX5A		
ENSG00000164684	8	81530686	81797016	432	41	42961	1.3745	0.084637	ZNF704		
ENSG00000196510	12	110800705	110851535	161	19	43063	1.3735	0.084796	ANAPC7		
ENSG00000196263	19	57009212	57051590	180	16	55407	1.3727	0.084924	ZNF471		
ENSG00000158321	7	69053905	70268054	2837	191	49980	1.3723	0.084992	AUTS2		
ENSG00000015676	7	44408720	44540479	302	15	54883	1.3721	0.085016	NUDCD3		
ENSG00000197125	11	124300022	124321054	69	16	48411	1.372	0.085025	OR8B8		
ENSG00000165752	10	134010996	134155351	697	98	42070	1.3716	0.085101	STK32C		
ENSG00000124380	2	70110692	70142707	62	8	32254	1.3715	0.085106	SNRNP27		
ENSG00000179218	19	13039392	13065303	38	13	50372	1.3715	0.085109	CALR		
ENSG00000168439	11	63942744	63982015	105	18	45915	1.3711	0.085179	STIP1		
ENSG00000242616	9	114413615	114442526	140	19	36466	1.3707	0.085241	GNG10		
ENSG00000143147	1	168043997	168116821	171	23	49464	1.3702	0.085306	GPR161		
ENSG00000144119	2	119903819	119926465	76	15	43689	1.3699	0.085361	C1QL2		
ENSG00000137494	11	82894781	82981736	219	27	49867	1.3699	0.085362	ANKRD42		
ENSG00000204480	1	13684889	13708405	7	4	25554	1.3691	0.085481	PRAMEF19		
ENSG00000162813	1	220220824	220273804	137	28	49280	1.369	0.085496	BPNT1		
ENSG00000140400	15	75638133	75670971	34	11	37469	1.3688	0.085527	MAN2C1		
ENSG00000144635	3	32557463	32622366	180	32	51559	1.3687	0.085547	DYNC1L1		
ENSG00000116984	1	236948610	237077281	363	28	42217	1.3684	0.085598	MTR		
ENSG00000088448	13	111520887	111577416	207	23	38130	1.3682	0.085625	ANKRD10		
ENSG00000022567	8	142207265	142328404	464	70	51180	1.3682	0.085628	SLC45A4		
ENSG00000198961	5	108660410	108755695	395	25	41821	1.368	0.085648	PJA2		

ENSG00000164867	7	150678083	150721676	95	27	46304	1.3679	0.085664	NOS3		
ENSG00000155229	10	99208081	99268551	111	18	50013	1.3674	0.08575	MMS19		
ENSG00000187857	12	55748895	55769833	85	7	39439	1.3672	0.085775	OR6C75		
ENSG00000115297	2	74730590	74754274	12	6	57454	1.3666	0.085877	TLX2		
ENSG00000100170	22	32429019	32519016	273	17	50353	1.3666	0.085879	SLC5A1		
ENSG00000172594	6	123100315	123140865	120	32	38612	1.3663	0.085922	SMPDL3A		
ENSG00000180979	15	42824720	42851000	46	12	47302	1.3662	0.085935	LRRC57		
ENSG00000083845	19	58887767	58916173	85	16	49236	1.3658	0.085994	RPS5		
ENSG00000105549	19	351750	386013	148	48	37674	1.3656	0.08603	THEG		
ENSG00000176920	19	49189228	49219207	101	14	27243	1.3653	0.086087	FUT2		
ENSG00000048649	11	77361041	77542063	444	23	36350	1.3649	0.086142	RSF1		
ENSG00000249109	5	177199198	177231397	16	6	33259	1.3649	0.086143	RP11-1026M7.2		
ENSG00000182580	3	184269572	184310197	157	26	52974	1.3647	0.086172	EPHB3		
ENSG00000138688	4	123063488	123293913	391	44	45878	1.3646	0.086185	KIAA1109		
ENSG00000164751	8	77882494	77923280	119	22	44768	1.3646	0.086187	PEX2		
ENSG00000197953	3	151441704	151489127	182	23	53983	1.3645	0.0862	AADACL2		
ENSG00000164197	5	63451671	63678696	382	31	52530	1.3639	0.086304	RNF180		
ENSG00000066654	16	20734986	20763406	80	11	36217	1.3637	0.086336	THUMPD1		
ENSG00000174173	3	101270706	101295290	68	14	48487	1.3636	0.086348	TRMT10C		
ENSG00000072134	17	19108928	19250028	85	18	47731	1.3634	0.086372	EPN2		
ENSG00000120251	4	158115334	158297227	338	39	49777	1.3634	0.086377	GRIA2		
ENSG00000115839	2	135799835	135943964	221	18	27243	1.3633	0.086392	RAB3GAP1		
ENSG00000140285	15	49705293	49790972	306	29	38484	1.3627	0.086484	FGF7		
ENSG00000154889	18	11872621	11919222	229	44	35890	1.3626	0.086507	MPPE1		
ENSG00000115307	2	74743772	74767066	14	8	51102	1.3626	0.08651	AUP1		
ENSG00000146670	11	64823772	64861636	97	23	43079	1.3624	0.086543	CDCA5		
ENSG00000166206	15	26778693	27194686	1493	149	41046	1.3623	0.086559	GABRB3		
ENSG00000162571	1	1099264	1143315	220	31	37152	1.3621	0.086579	TLL10		
ENSG00000173875	19	12711732	12752735	120	15	32163	1.362	0.086596	ZNF791		
ENSG00000105676	19	19134384	19180563	93	12	56498	1.3618	0.086623	ARMC6		
ENSG00000120333	1	174969925	175002561	70	18	53001	1.3617	0.086648	MRPS14		
ENSG00000114127	3	142015449	142176904	276	30	51038	1.3616	0.086657	XRN1		
ENSG00000237412	2	233375173	233400422	90	21	54716	1.3615	0.086674	PRSS56		
ENSG00000214736	6	41745400	41767636	57	14	45434	1.3613	0.086711	TOMM6		
ENSG00000122133	9	138443602	138468801	52	18	45728	1.3612	0.086722	PAEP		
ENSG00000118898	16	4922508	5020742	466	70	43080	1.3611	0.086739	PPL		

ENSG00000204334	2	171630296	171665481	122	12	49501	1.3609	0.086769	ERICH2		
ENSG00000253379	8	72305675	72514260	515	71	42890	1.3607	0.086809	RP11-1102P16.1		
ENSG00000125637	2	113904902	113976973	202	48	41348	1.3607	0.086811	PSD4		
ENSG00000145335	4	90635250	90769466	451	36	35847	1.3604	0.086852	SNCA		
ENSG00000126246	19	36220058	36243354	69	14	51099	1.3595	0.086994	IGFLR1		
ENSG00000204919	13	57705052	57728073	21	8	41768	1.3594	0.087004	PRR20A		
ENSG00000267880	19	51367552	51388040	101	20	44357	1.3594	0.087014	AC037199.1		
ENSG00000137814	15	42831008	42872192	75	14	47506	1.3591	0.087052	HAUS2		
ENSG00000179988	10	124703897	124767029	199	24	50461	1.3591	0.087059	PSTK		
ENSG00000112137	6	12707893	13298645	1585	131	41294	1.3589	0.087093	PHACTR1		
ENSG00000110013	11	124493009	124575603	125	22	46299	1.3585	0.087153	SIAE		
ENSG00000025156	6	122710691	122764264	128	15	55788	1.3581	0.087217	HSF2		
ENSG00000214753	11	62470102	62504821	70	13	53908	1.3581	0.087224	HNRNPUL2		
ENSG00000268328	2	70119482	70139841	40	6	32153	1.3575	0.08731	AC019206.1		
ENSG00000042062	20	49192645	49318065	437	62	39143	1.3574	0.08733	FAM65C		
ENSG00000117984	11	1763982	1795222	100	16	47554	1.3572	0.087355	CTSD		
ENSG00000170631	8	146145744	146186274	126	22	42344	1.3571	0.08738	ZNF16		
ENSG00000144118	2	120987640	121062289	250	17	46705	1.3571	0.087382	RALB		
ENSG00000269591	13	20258547	20279240	46	10	34401	1.3569	0.08741	AL354808.2		
ENSG00000258790	14	35581755	35796680	786	59	48357	1.3568	0.087415	KIAA0391		
ENSG00000166689	11	16789842	17045990	904	96	42061	1.3567	0.087434	PLEKHA7		
ENSG00000182050	12	86362516	87242681	2623	102	48223	1.3564	0.087484	MGAT4C		
ENSG00000158955	17	44900567	44974096	183	29	33235	1.3563	0.087504	WNT9B		
ENSG00000073111	3	127307066	127351276	51	20	54903	1.356	0.087552	MCM2		
ENSG00000196331	6	27851203	27871669	51	11	38778	1.3557	0.087601	HIST1H2BO		
ENSG00000196544	17	8081652	8103564	66	15	46999	1.3556	0.087609	C17orf59		
ENSG00000145945	6	3839620	3861551	84	12	36494	1.3555	0.087636	FAM50B		
ENSG00000176742	11	5210965	5231930	133	19	39088	1.3553	0.087656	OR51V1		
ENSG00000170522	4	110957002	111130355	675	110	45055	1.3553	0.087664	ELOVL6		
ENSG00000146828	7	100414442	100474631	160	28	46698	1.3549	0.087727	SLC12A9		
ENSG00000249139	20	44155625	44186065	100	8	34414	1.3545	0.087782	EPPIN-WFDC6		
ENSG00000151576	3	113714680	113817269	196	30	53794	1.3537	0.087917	QTRTD1		
ENSG00000197859	9	136387286	136450641	109	33	45872	1.3537	0.087919	ADAMTSL2		
ENSG00000203691	1	225590404	225612040	63	12	44029	1.3536	0.08794	AC092811.1		
ENSG00000135776	1	229642329	229704442	123	16	51060	1.3534	0.087969	ABCB10		
ENSG00000126822	14	65160820	65223610	142	22	52989	1.3531	0.088017	PLEKHG3		

ENSG00000176092	1	26638350	26690621	189	29	45716	1.353	0.088021	AIM1L		
ENSG00000145040	3	48589160	48611206	32	12	45931	1.3529	0.088046	UCN2		
ENSG00000159409	1	151664880	151699290	55	11	38523	1.3528	0.088065	CELF3		
ENSG00000119689	14	75338594	75380448	120	15	41628	1.3527	0.088079	DLST		
ENSG00000176531	19	43969106	44019087	155	25	51087	1.3526	0.088096	PHLDB3		
ENSG00000148795	10	104580288	104607290	76	14	46425	1.3517	0.088237	CYP17A1		
ENSG00000121797	3	46438654	46464488	121	14	26825	1.3515	0.088265	CCRL2		
ENSG00000162267	3	52818784	52853025	80	13	51124	1.3515	0.088268	ITIH3		
ENSG00000172016	2	79374132	79396879	90	14	53328	1.3514	0.088285	REG3A		
ENSG00000185324	16	89737145	89772772	146	22	40017	1.3509	0.088356	CDK10		
ENSG00000108576	17	28511337	28573020	113	25	38146	1.3507	0.08839	SLC6A4		
ENSG00000267748	19	38769791	38805550	114	18	54022	1.3507	0.088402	CTB-102L5.4		
ENSG0000014123	6	96959471	97013152	91	16	50553	1.3506	0.088408	UFL1		
ENSG00000185483	1	64229693	64657181	1031	97	41962	1.3502	0.088481	ROR1		
ENSG00000167333	11	4609902	4639489	98	15	52671	1.3495	0.088588	TRIM68		
ENSG00000131914	1	26727269	26766213	98	18	33162	1.3493	0.088623	LIN28A		
ENSG00000006715	7	38752563	38981994	831	61	38519	1.3493	0.088625	VPS41		
ENSG00000088386	13	99326055	99414908	336	73	38665	1.3492	0.088642	SLC15A1		
ENSG00000229292	19	56270507	56294545	58	18	42588	1.349	0.088662	RFPL4AL1		
ENSG00000196110	19	9394951	9430514	101	18	40796	1.3489	0.088683	ZNF699		
ENSG00000120054	10	101791950	101851634	175	28	32692	1.3488	0.088697	CPN1		
ENSG00000165388	10	48345024	48383866	51	18	47066	1.3487	0.088712	ZNF488		
ENSG00000160323	9	136269478	136334508	262	31	47839	1.3487	0.088713	ADAMTS13		
ENSG00000182183	1	53089016	53145355	153	32	44291	1.3486	0.088726	FAM159A		
ENSG00000163874	1	37930153	37959980	73	17	42289	1.3486	0.088735	ZC3H12A		
ENSG00000140398	15	75629296	75657592	42	15	41566	1.3485	0.088745	NEIL1		
ENSG00000268996	9	139970807	139991121	37	13	42511	1.3483	0.088783	AL807752.1		
ENSG00000198939	5	178312895	178370213	268	26	53630	1.3483	0.088788	ZFP2		
ENSG00000092853	1	36175819	36245568	60	15	43689	1.3482	0.0888	CLSPN		
ENSG00000182308	4	41973713	41998476	107	14	42491	1.3482	0.088802	DCAF4L1		
ENSG00000135245	7	128085903	128108472	89	22	50616	1.348	0.088829	HILPDA		
ENSG00000136488	17	61962275	61984021	77	14	27487	1.3475	0.088912	CSH1		
ENSG00000122678	7	44101846	44132139	73	8	53041	1.3472	0.088957	POLM		
ENSG00000133315	11	63756030	63943578	436	74	40391	1.3472	0.088959	MACROD1		
ENSG00000109851	11	20167701	20192159	90	31	51079	1.3471	0.088978	DBX1		
ENSG00000188186	7	99736530	99763567	41	8	50713	1.3466	0.08905	LAMTOR4		

ENSG00000232810	6	31533344	31556113	91	24	48766	1.3466	0.089051	TNF		
ENSG00000133020	17	10283639	10335267	89	11	29617	1.3466	0.089054	MYH8		
ENSG00000041515	13	109238500	109870355	2756	252	45314	1.3465	0.089068	MYO16		
ENSG00000157379	14	24749804	24779039	97	15	36300	1.3465	0.089073	DHRS1		
ENSG00000117682	1	26748773	26807785	116	20	41242	1.3462	0.089113	DHDDS		
ENSG00000164265	5	147240245	147271754	209	25	44510	1.3462	0.089118	SCGB3A2		
ENSG00000108691	17	32572304	32594222	57	8	55369	1.3462	0.089127	CCL2		
ENSG00000122786	7	134419003	134665479	746	94	43585	1.3461	0.089139	CALD1		
ENSG00000205330	12	55704346	55725408	72	12	45539	1.3459	0.089163	OR6C1		
ENSG00000163832	3	47527130	47565251	80	17	42844	1.3458	0.089191	ELP6		
ENSG00000181035	19	19164808	19233697	159	20	55693	1.3455	0.089237	SLC25A42		
ENSG00000120915	8	27338296	27413081	231	28	42763	1.345	0.089306	EPHX2		
ENSG00000166575	11	86738886	87044800	1764	71	45122	1.345	0.089306	TMEM135		
ENSG00000103005	16	58023450	58065522	95	15	54058	1.3449	0.089336	USB1		
ENSG00000108091	10	61538521	61676414	553	42	45204	1.3448	0.089346	CCDC6		
ENSG00000163946	3	56644161	56727265	372	28	38532	1.3448	0.089352	FAM208A		
ENSG00000120211	9	5221419	5245304	50	8	47018	1.3442	0.089441	INSL4		
ENSG00000065057	16	2079816	2107867	59	21	40462	1.3441	0.089455	NTHL1		
ENSG00000137193	6	37127979	37153202	56	14	49499	1.344	0.089478	PIM1		
ENSG00000198879	10	7190586	7463450	1091	117	48818	1.344	0.089479	SFMBT2		
ENSG00000204659	5	179095584	179117975	69	12	47281	1.3437	0.089519	CBY3		
ENSG00000084676	2	24704783	25003571	762	58	50339	1.3437	0.089531	NCOA1		
ENSG00000254901	19	19277712	19313400	130	15	51121	1.3431	0.089619	MEF2BNB		
ENSG00000205978	14	24857992	24898494	114	37	45481	1.3425	0.089722	NYNRIN		
ENSG00000172967	22	17254302	17312589	160	19	48694	1.3425	0.089722	XKR3		
ENSG00000110011	11	63987750	64011758	56	16	46906	1.3423	0.089744	DNAJC4		
ENSG00000136960	8	120559326	120695693	369	57	44629	1.3423	0.089756	ENPP2		
ENSG00000156510	10	70970059	71037315	266	51	40587	1.3422	0.089768	HKDC1		
ENSG00000141068	17	25773670	25963461	422	51	50985	1.3421	0.089778	KSR1		
ENSG00000180104	5	433273	482052	258	23	30442	1.3418	0.089824	EXOC3		
ENSG00000198515	4	47927994	48028689	385	30	37374	1.3417	0.089849	CNGA1		
ENSG00000164877	7	1458101	1509138	179	24	42183	1.3416	0.089859	MICALL2		
ENSG00000254598	11	11363489	11384904	58	18	42160	1.3411	0.089937	CSNK2A3		
ENSG00000136100	13	52976737	53034763	149	14	51955	1.341	0.089968	VPS36		
ENSG00000120471	11	128794626	128823040	106	28	43784	1.3408	0.089995	TP53AIP1		
ENSG00000007372	11	31796340	31849509	84	15	48348	1.3406	0.09002	PAX6		

ENSG00000006015	19	18689495	18713146	80	15	37904	1.3406	0.090022	<i>C19orf60</i>		
ENSG00000196150	8	146066632	146137553	157	21	43378	1.3406	0.090029	<i>ZNF250</i>		
ENSG00000119596	14	75220069	75332244	222	18	40596	1.3405	0.090037	<i>YLPM1</i>		
ENSG00000113048	5	71505236	71626473	191	28	39448	1.3402	0.090091	<i>MRPS27</i>		
ENSG00000185681	9	124912190	124972367	160	35	36837	1.3402	0.090095	<i>MORN5</i>		
ENSG00000105695	19	35773028	35814707	101	29	47518	1.3401	0.090106	<i>MAG</i>		
ENSG00000183484	14	105505728	105541782	84	10	26911	1.3378	0.090479	<i>GPR132</i>		
ENSG00000183597	22	19994537	20063449	263	42	39875	1.3377	0.090502	<i>TANGO2</i>		
ENSG00000150201	10	43857090	43881783	86	20	32854	1.3371	0.090589	<i>FXYP4</i>		
ENSG00000113263	5	156559944	156692201	515	60	48848	1.3371	0.09059	<i>ITK</i>		
ENSG00000005189	16	20807751	20870987	97	19	40734	1.337	0.090615	<i>AC004381.6</i>		
ENSG00000157554	21	39741949	40043704	1102	147	43587	1.3367	0.090664	<i>ERG</i>		
ENSG00000139970	14	60052694	60347684	667	63	47241	1.3366	0.090674	<i>RTN1</i>		
ENSG00000144021	2	96921870	96949087	34	10	40089	1.3364	0.09071	<i>CIAO1</i>		
ENSG00000145649	5	54388476	54416080	51	10	47369	1.3359	0.090785	<i>GZMA</i>		
ENSG00000119946	10	101078856	101164087	215	33	38164	1.3356	0.090844	<i>CNNM1</i>		
ENSG00000255275	1	19165767	19257615	464	89	47198	1.3354	0.090878	<i>RP13-279N23.2</i>		
ENSG00000205246	19	23935807	24020937	187	27	47628	1.3353	0.090895	<i>RPSAP58</i>		
ENSG00000137824	15	41018082	41058049	87	14	51884	1.3349	0.090946	<i>RMDN3</i>		
ENSG00000172987	10	100208875	101005619	2283	104	38864	1.3347	0.090982	<i>HPSE2</i>		
ENSG00000144580	2	219423303	219471803	124	11	45423	1.3345	0.091025	<i>RQCD1</i>		
ENSG00000182993	12	14946506	15069520	346	22	52602	1.3342	0.091062	<i>C12orf60</i>		
ENSG00000112214	6	97000424	97074512	239	23	53067	1.3341	0.091082	<i>FHL5</i>		
ENSG00000066422	3	101357733	101406339	105	13	54233	1.334	0.091102	<i>ZBTB11</i>		
ENSG00000144460	2	226255364	226528734	544	59	43060	1.3338	0.091127	<i>NYAP2</i>		
ENSG00000151322	14	33394139	34283382	2971	366	45497	1.3337	0.091144	<i>NPAS3</i>		
ENSG00000178821	1	1839029	1860712	54	9	37002	1.3335	0.091189	<i>TMEM52</i>		
ENSG00000164283	5	54263692	54328499	229	29	39103	1.3334	0.091204	<i>ESM1</i>		
ENSG00000113732	5	172400760	172472448	198	37	38976	1.333	0.091261	<i>ATP6V0E1</i>		
ENSG00000134245	1	112999163	113082787	222	48	45757	1.333	0.09127	<i>WNT2B</i>		
ENSG00000106333	7	100189800	100215798	38	9	49861	1.3329	0.091284	<i>PCOLCE</i>		
ENSG00000255374	12	11233886	11254912	144	11	38281	1.3326	0.091339	<i>TAS2R43</i>		
ENSG00000008256	7	6191407	6322275	344	45	39452	1.3324	0.091358	<i>CYTH3</i>		
ENSG00000143537	1	155013042	155045252	46	16	47155	1.3323	0.091383	<i>ADAM15</i>		
ENSG00000127561	16	2029661	2054276	129	15	46143	1.3323	0.091388	<i>SYNGR3</i>		
ENSG00000160606	17	27041366	27064953	39	9	44727	1.3315	0.091517	<i>TLCD1</i>		

ENSG00000149798	11	65072289	65099900	46	14	48185	1.3312	0.091569	CDC42EP2		
ENSG00000114771	3	151521825	151556276	177	18	20955	1.3311	0.09157	AADAC		
ENSG00000167701	8	145718356	145742557	38	10	43627	1.3307	0.091647	GPT		
ENSG00000188394	9	125786806	125807975	16	9	54697	1.3306	0.091664	GPR21		
ENSG00000135100	12	121406346	121450315	180	28	50766	1.3303	0.091712	HNF1A		
ENSG00000125533	20	61627331	61648387	67	24	48282	1.3302	0.091729	BHLHE23		
ENSG00000110328	11	11282423	11653552	1761	246	44256	1.3295	0.091847	GALNT18		
ENSG00000166170	14	104012881	104039168	61	10	51295	1.3293	0.091874	BAG5		
ENSG00000175274	11	44897454	44982840	266	58	40739	1.3291	0.0919	TP53I11		
ENSG00000085382	6	105165968	105317794	420	29	43351	1.3291	0.09191	HACE1		
ENSG00000103254	16	760581	782601	75	13	28829	1.3288	0.091951	FAM173A		
ENSG00000178722	5	60923535	61057590	457	59	46853	1.3287	0.091973	C5orf64		
ENSG00000142789	1	22318149	22349032	154	26	28090	1.3287	0.091979	CELA3A		
ENSG00000256436	12	11172986	11194006	100	12	34120	1.3286	0.091992	TAS2R31		
ENSG00000118707	20	35191891	35232353	48	21	43813	1.328	0.09209	TGIF2		
ENSG00000206422	18	7221123	7242045	52	12	40745	1.3279	0.092098	LRRC30		
ENSG00000070366	17	1953133	2217065	755	43	38711	1.3276	0.092162	SMG6		
ENSG00000185475	11	62544887	62567877	30	8	37944	1.3275	0.092172	TMEM179B		
ENSG00000152795	4	83333717	83361294	88	14	45850	1.3272	0.092229	HNRNPDL		
ENSG00000116132	1	170621869	170718560	201	37	48226	1.3269	0.092279	PRRX1		
ENSG00000164344	4	187120133	187189625	315	34	45452	1.3268	0.092285	KLKB1		
ENSG00000124942	11	62191016	62333707	315	55	41780	1.3265	0.092343	AHNAK		
ENSG00000115661	2	220100177	220125059	52	11	34756	1.3259	0.092445	STK16		
ENSG00000259040	6	7871755	8074597	872	89	43083	1.3258	0.092445	BLOC1S5-TXNDC5		
ENSG00000203443	3	172024218	172049513	62	14	47336	1.3256	0.092479	AC092964.1		
ENSG00000100938	14	24691628	24718448	31	11	41023	1.3248	0.092618	GMPR2		
ENSG00000103742	15	65663802	65725410	152	32	42116	1.3238	0.092778	IGDCC4		
ENSG00000136274	7	45110037	45138513	123	18	45824	1.3234	0.092846	NACAD		
ENSG00000076662	19	10434452	10460499	100	21	54686	1.3234	0.092856	ICAM3		
ENSG00000096384	6	44204824	44231620	97	24	51526	1.3234	0.092859	HSP90AB1		
ENSG00000160783	1	156172784	156222874	133	19	45706	1.3233	0.092875	PMF1		
ENSG00000185104	1	50895150	51435935	826	59	50883	1.3228	0.092959	FAF1		
ENSG00000206199	3	149468892	149696172	587	58	51057	1.3225	0.093002	ANKUB1		
ENSG00000129925	16	410773	447113	227	33	35093	1.3216	0.093144	TMEM8A		
ENSG00000140650	16	8872680	8953188	528	49	50207	1.3214	0.093186	PMM2		
ENSG00000159212	21	36031688	36100525	160	21	50636	1.3211	0.093239	CLIC6		

ENSG00000154027	1	77737736	78035651	1207	122	40262	1.321	0.093246	AK5		
ENSG00000169509	1	152476978	152498486	65	9	34658	1.321	0.093254	CRC1		
ENSG00000107614	10	17174253	17254053	321	18	51653	1.3206	0.093314	TRDM1		
ENSG00000214314	7	99030552	99050747	40	8	33865	1.32	0.093424	AC073063.1		
ENSG00000088899	20	3133263	3164192	100	27	50221	1.3197	0.093474	LZTS3		
ENSG00000173401	12	75718419	75774340	113	16	49504	1.3196	0.093487	GLIPR1L1		
ENSG00000108510	17	60009966	60152643	196	23	40609	1.3194	0.093518	MED13		
ENSG00000162664	1	90450671	90511090	100	31	44077	1.3194	0.093519	ZNF326		
ENSG00000086205	11	49158187	49240222	326	27	41286	1.3194	0.093525	FOLH1		
ENSG00000114270	3	48591506	48642700	56	18	46904	1.3192	0.093556	COL7A1		
ENSG00000196968	10	75522049	75550009	37	6	44384	1.3191	0.093561	FUT11		
ENSG00000055118	7	150632049	150685403	134	24	45719	1.3189	0.093604	KCNH2		
ENSG00000267120	19	36220153	36246333	72	14	50133	1.3189	0.093604	AD000671.6		
ENSG00000152672	2	71025775	71057732	179	12	48277	1.318	0.093749	CLEC4F		
ENSG00000083857	4	187498937	187657876	545	91	43222	1.3177	0.093802	FAT1		
ENSG00000137275	6	3054225	3125421	131	41	40382	1.3175	0.093833	RIPK1		
ENSG00000134222	1	109812178	109835808	88	21	43533	1.3173	0.093867	PSRC1		
ENSG00000179057	11	18715852	18757777	147	30	48918	1.3169	0.093943	IGSF22		
ENSG00000179477	17	7965954	8001021	111	31	47960	1.3167	0.093966	ALOX12B		
ENSG00000176402	7	99510892	99537243	64	13	41942	1.3165	0.094009	GJC3		
ENSG00000100526	14	54853567	54896936	128	20	38246	1.3161	0.094077	CDKN3		
ENSG00000149357	11	71786941	71824433	82	6	24254	1.316	0.09408	LAMTOR1		
ENSG00000164256	5	23497264	23538706	81	19	38301	1.3157	0.094131	PRDM9		
ENSG00000109111	17	26979109	27039697	63	14	51730	1.3156	0.094162	SUPT6H		
ENSG00000173213	18	37225	83545	107	15	41947	1.3155	0.094172	RP11-683L23.1		
ENSG00000106268	7	2271857	2300781	141	27	47618	1.3151	0.09424	NUDT1		
ENSG00000260238	1	156172773	156223123	135	20	45876	1.3151	0.094246	PMF1-BGLAP		
ENSG00000171722	1	162332993	162356660	91	28	45320	1.3148	0.094293	C1orf111		
ENSG00000106852	9	124954856	125001905	77	30	47457	1.3148	0.094293	LHX6		
ENSG00000160752	1	155268539	155300457	30	6	38734	1.3142	0.094392	FDPS		
ENSG00000204513	1	12874468	12901264	34	24	36732	1.3141	0.094402	PRAMEF11		
ENSG00000077942	22	45888118	46007015	474	73	43628	1.3136	0.09449	FBLN1		
ENSG00000246366	8	71510812	71585514	247	25	36989	1.3135	0.094501	RP11-382J12.1		
ENSG00000090621	1	40016488	40052462	109	20	41701	1.3135	0.094512	PABPC4		
ENSG00000182156	17	77694681	77726021	124	19	45349	1.3134	0.094524	ENPP7		
ENSG00000227507	6	31538302	31560299	94	27	45844	1.3133	0.09454	LTB		

ENSG00000221910	7	143622259	143643372	82	8	28475	1.3132	0.094557	OR2F2		
ENSG00000166960	18	30507366	31031065	1186	38	39753	1.313	0.094589	CCDC178		
ENSG00000187522	10	14870163	14923740	88	19	35920	1.3128	0.094618	HSPA14		
ENSG00000222038	2	131359054	131425664	25	11	44310	1.3122	0.094719	POTEJ		
ENSG00000116688	1	12030238	12083571	161	19	46250	1.3121	0.094743	MFN2		
ENSG00000091651	16	46713555	46742306	22	6	30980	1.3121	0.094747	ORC6		
ENSG00000051341	3	121140278	121274853	335	26	48673	1.3116	0.094833	POLQ		
ENSG00000167103	9	130673158	130703076	64	12	35001	1.3114	0.094867	PIP5KL1		
ENSG00000135924	2	220133989	220161622	64	16	35093	1.3107	0.094979	DNAJB2		
ENSG00000268484	15	96894487	96914900	49	16	44917	1.3107	0.094986	AC087477.1		
ENSG00000106125	7	30801033	30942002	559	65	37915	1.3105	0.095006	FAM188B		
ENSG00000156239	21	30234513	30267693	178	16	41576	1.3103	0.095043	N6AMT1		
ENSG00000179002	1	19156093	19196176	254	42	51006	1.3095	0.095178	TAS1R2		
ENSG00000155085	6	109804059	110022420	793	33	31622	1.3092	0.095235	AK9		
ENSG00000198846	8	59707977	60041767	905	121	46098	1.309	0.095259	TOX		
ENSG00000196678	16	20781515	20921671	244	26	40695	1.3088	0.095296	ERI2		
ENSG00000185651	22	21893736	21988323	131	12	31385	1.3088	0.095296	UBE2L3		
ENSG00000169508	13	99936784	99969659	85	19	41383	1.3087	0.095322	GPR183		
ENSG00000134970	5	114939205	114978689	114	13	53913	1.3082	0.095399	TMED7		
ENSG00000159459	15	43225095	43408311	228	29	35505	1.3081	0.095416	UBR1		
ENSG00000162878	2	42265160	42295668	140	15	45003	1.308	0.095434	PKDCC		
ENSG00000197046	18	43395477	43434045	87	17	29728	1.3079	0.095461	SIGLEC15		
ENSG00000162413	1	6640784	6684667	88	17	55404	1.3073	0.095555	KLHL21		
ENSG00000106993	9	4669559	4718398	191	16	28805	1.3066	0.095567	CDC37L1		
ENSG00000165996	10	17621958	17669376	230	29	52733	1.3066	0.095675	PTPLA		
ENSG00000149823	11	64846796	64889332	71	16	45456	1.3064	0.095708	VPS51		
ENSG00000185615	16	323152	347215	109	26	40715	1.3063	0.095729	PDIA2		
ENSG00000167992	11	61015762	61072896	42	18	40896	1.3059	0.095786	VWCE		
ENSG00000196405	14	100427786	100620573	609	65	43038	1.3058	0.09581	EVL		
ENSG00000187416	7	103959104	104559001	2013	197	46280	1.3055	0.095857	LHFPL3		
ENSG00000115226	2	27704750	27728112	40	7	43500	1.3055	0.095859	FNDC4		
ENSG00000196616	4	100216121	100252558	120	23	38462	1.3052	0.095908	ADH1B		
ENSG00000160087	1	1179289	1219265	136	24	44186	1.3051	0.095927	UBE2J2		
ENSG00000103023	16	58303901	58338951	199	13	51846	1.3051	0.095932	PRSS54		
ENSG00000170448	4	47839257	47926653	253	20	46877	1.305	0.095946	NFXL1		
ENSG00000234857	11	62447747	62504856	112	13	52754	1.305	0.095946	HNRNPUL2-BSCL2		

ENSG00000148634	10	69671665	69845105	377	37	34559	1.3049	0.095963	HERC4		
ENSG00000179837	3	51418731	51445330	19	9	55920	1.3048	0.095978	RBM15B		
ENSG00000124159	20	43912085	43947169	122	15	44335	1.3048	0.095988	MATN4		
ENSG00000163606	3	112630056	112703969	377	34	46339	1.3047	0.095996	CD200R1		
ENSG00000261115	7	140764032	141190180	1060	126	42287	1.3046	0.096013	TMEM178B		
ENSG00000165272	9	33431152	33457609	101	24	51049	1.3046	0.09602	AQP3		
ENSG00000162551	1	21825858	21914905	431	61	45757	1.3044	0.096051	ALPL		
ENSG00000151812	14	58020640	58458912	1936	179	47415	1.3044	0.096052	SLC35F4		
ENSG00000173548	15	75930247	75964642	60	16	42052	1.3037	0.096173	SNX33		
ENSG00000137392	6	35752759	35775088	65	19	32590	1.3032	0.096248	CLPS		
ENSG00000058453	1	17056768	17309474	179	34	39976	1.3028	0.096329	CROCC		
ENSG00000196502	16	28606903	28644946	66	18	37769	1.3027	0.096333	SULT1A1		
ENSG00000153162	6	7717030	7891655	658	96	44441	1.3025	0.096369	BMP6		
ENSG00000104205	8	67614653	67784257	307	21	37606	1.3022	0.096424	SGK3		
ENSG00000152475	19	58868985	58902427	117	16	50413	1.302	0.096459	ZNF837		
ENSG00000146083	5	175943698	175975026	80	17	38382	1.3019	0.096481	RNF44		
ENSG00000196652	7	99092274	99142323	57	16	40731	1.3016	0.09653	ZKSCAN5		
ENSG00000175544	11	67209877	67236699	45	14	39071	1.301	0.096623	CABP4		
ENSG00000197563	18	59700800	59864351	691	38	39511	1.3009	0.09665	PIGN		
ENSG00000182986	19	53357043	53410946	242	33	50748	1.3007	0.096678	ZNF320		
ENSG00000138180	10	95246389	95298849	227	30	35432	1.3006	0.096703	CEP55		
ENSG00000187514	2	232561605	232588251	88	14	46628	1.3003	0.096746	PTMA		
ENSG00000175463	11	67161386	67187560	43	12	45784	1.2993	0.096926	TBC1D10C		
ENSG00000179292	11	66049341	66074135	39	15	44330	1.2987	0.097018	TMEM151A		
ENSG00000164300	5	79397050	79561898	704	107	47030	1.2986	0.097041	SERINC5		
ENSG00000118689	6	108871038	109015977	250	30	36718	1.298	0.097143	FOXO3		
ENSG00000077522	1	236839754	236937931	401	60	43033	1.2977	0.097195	ACTN2		
ENSG00000163939	3	52569368	52729933	401	21	49113	1.2977	0.0972	PBRM1		
ENSG00000068383	10	134341324	134606979	913	71	53690	1.2977	0.0972	INPP5A		
ENSG00000124224	20	56796188	56894495	320	30	44267	1.2972	0.097279	PPP4R1L		
ENSG00000100433	14	88639113	88803251	678	99	43781	1.297	0.097317	KCNK10		
ENSG00000065150	13	98595912	98686551	153	26	33570	1.2969	0.097326	IPO5		
ENSG00000185803	8	145567795	145594932	45	12	47355	1.2965	0.097394	SLC52A2		
ENSG00000167748	19	51312404	51337043	91	18	45828	1.2961	0.097476	KLK1		
ENSG00000130294	2	241643181	241769725	386	66	43712	1.2952	0.097617	KIF1A		
ENSG00000134339	11	18250770	18280190	76	24	35151	1.2948	0.097695	SAA2		

ENSG00000163347	3	190013490	190050264	210	34	52473	1.2948	0.097698	CLDN1		
ENSG00000119522	9	126131933	126702431	1558	107	41278	1.2947	0.097707	DENND1A		
ENSG00000137822	15	43651419	43709293	69	13	41850	1.2944	0.09777	TUBGCP4		
ENSG00000141664	18	60180240	60264942	234	30	39221	1.294	0.097825	ZCCHC2		
ENSG00000138435	2	175602320	175639200	97	15	30607	1.2937	0.097877	CHRNA1		
ENSG00000145526	5	19463060	20585982	3314	207	42231	1.2937	0.097888	CDH18		
ENSG00000165457	11	71917645	71942994	65	14	48489	1.2934	0.097936	FOLR2		
ENSG00000215472	18	46998051	47027956	134	14	54124	1.2932	0.097976	RPL17-C18orf32		
ENSG00000106086	7	30057020	30180096	335	21	54471	1.293	0.098009	PLEKHA8		
ENSG00000153993	7	84614869	84826171	360	49	45917	1.2929	0.098026	SEMA3D		
ENSG00000152223	18	43417574	43557240	347	34	33299	1.2926	0.098072	EPG5		
ENSG00000182824	22	18711427	18755407	12	7	42602	1.2926	0.098078	AC008132.1		
ENSG00000140943	16	84077368	84160511	426	57	49409	1.2923	0.098131	MBTPS1		
ENSG00000160691	1	154924774	154956871	32	10	44113	1.2923	0.098134	SHC1		
ENSG00000115866	2	136654247	136753670	78	6	19825	1.2922	0.098136	DARS		
ENSG00000149418	11	130019457	130090271	222	47	48756	1.2918	0.098205	ST14		
ENSG00000116991	1	232523711	232707304	506	60	44929	1.2917	0.098233	SIPA1L2		
ENSG00000243566	7	76129745	76658340	1474	136	37204	1.2915	0.098265	UPK3B		
ENSG00000089335	19	35158544	35187302	137	18	54552	1.2911	0.098328	ZNF302		
ENSG00000069329	16	46680054	46733430	41	9	35992	1.291	0.098355	VPS35		
ENSG00000163435	1	201967073	201996316	97	18	38930	1.2908	0.098387	ELF3		
ENSG00000221909	7	99133931	99166159	39	13	40077	1.2908	0.09839	FAM200A		
ENSG00000168000	11	62447747	62487317	74	11	52322	1.2907	0.098412	BSCL2		
ENSG00000116830	1	117592925	117660075	216	34	40028	1.2906	0.098424	TTF2		
ENSG00000122986	12	111055646	111152755	217	22	46348	1.2906	0.098424	HVCN1		
ENSG00000188167	3	33121913	33148293	68	13	35961	1.2903	0.098468	TMPPE		
ENSG00000185624	17	79791035	79828570	104	12	55133	1.2896	0.098587	P4HB		
ENSG00000112658	6	43129037	43159243	88	16	40470	1.2896	0.098594	SRF		
ENSG00000035403	10	75747872	75889918	276	40	41707	1.2896	0.098602	VCL		
ENSG00000049089	1	40756159	40793488	131	19	34014	1.2892	0.098663	COL9A2		
ENSG00000089163	12	120730119	120761052	96	17	47965	1.2892	0.098664	SIRT4		
ENSG00000176476	16	28555236	28613111	165	18	40682	1.289	0.098698	CCDC101		
ENSG00000069849	3	141584966	141655356	283	28	52694	1.2882	0.098832	ATP1B3		
ENSG00000158545	16	88626789	88708374	347	44	52418	1.2882	0.098837	ZC3H18		
ENSG00000269120	13	41101138	41121323	71	17	37717	1.2882	0.098845	AL133318.1		
ENSG00000183709	19	39749154	39770732	61	12	35484	1.2875	0.098959	IFNL2		

ENSG00000122420	1	78759568	79015434	787	94	46704	1.2875	0.098968	PTGFR		
ENSG00000175806	8	9901778	10296401	1747	152	42227	1.2874	0.09897	MSRA		
ENSG00000116251	1	6231329	6279449	132	20	30978	1.2872	0.099012	RPL22		
ENSG00000152332	1	162457041	162509419	152	11	52251	1.2871	0.09903	UHMK1		
ENSG00000100968	14	24824879	24858810	120	18	39227	1.2863	0.099163	NFATC4		
ENSG00000075415	12	98977369	99005946	84	17	53934	1.2863	0.099176	SLC25A3		
ENSG00000122194	6	161113270	161184347	226	30	39083	1.2858	0.099254	PLG		
ENSG00000141582	17	77796955	77823228	81	23	45216	1.2856	0.099291	CBX4		
ENSG00000170044	3	101808088	102208685	1061	71	45594	1.2854	0.099326	ZPLD1		
ENSG00000133106	13	43450524	43576407	393	71	48047	1.2852	0.099358	EPST11		
ENSG00000183747	16	20452783	20508991	135	13	31018	1.2849	0.09942	ACSM2A		
ENSG00000269339	12	51609860	51630085	54	10	39087	1.2849	0.099421	AC139768.1		
ENSG00000101310	20	18478137	18552059	302	22	39961	1.2848	0.099431	SEC23B		
ENSG00000169193	7	23626998	23694327	116	18	47610	1.2847	0.099454	CCDC126		
ENSG00000151500	11	134108173	134133264	71	16	48870	1.2845	0.099487	THYN1		
ENSG00000114378	3	50327320	50359812	35	15	46525	1.2842	0.099528	HYAL1		
ENSG00000132763	1	45955725	45986739	76	8	56451	1.2833	0.099698	MMACHC		
ENSG00000233224	6	27850477	27870963	55	12	39322	1.2831	0.099733	HIST1H2AM		
ENSG00000123737	4	122712472	122748176	86	14	40065	1.2828	0.099773	EXOSC9		
ENSG00000158106	8	144441057	144476390	112	24	45870	1.2824	0.099844	RHPN1		
ENSG00000162144	11	61106217	61139771	15	9	42439	1.2823	0.099866	CYB561A3		
ENSG00000152422	5	82363317	82659606	754	43	39914	1.2821	0.099909	XRCC4		
ENSG00000126217	13	113538692	113764053	908	139	48127	1.2819	0.099939	MCF2L		
ENSG00000076382	17	26894588	26936297	34	18	51781	1.2818	0.099952	SPAG5		
ENSG00000176153	14	65395870	65419531	99	18	38922	1.2818	0.099964	GPX2		
ENSG00000265681	18	47004851	47028906	111	13	54383	1.2815	0.10001	RPL17		
ENSG00000154342	1	228184752	228258961	153	21	46776	1.2811	0.10008	WNT3A		
ENSG00000173818	17	78378965	78421886	184	35	49721	1.2811	0.10008	ENDOV		
ENSG00000253276	7	106287211	106311442	85	26	40702	1.2806	0.10016	CCDC71L		
ENSG00000182674	8	73439626	73860584	1151	102	42265	1.2805	0.10018	KCNB2		
ENSG00000095059	19	12776531	12802716	31	15	45923	1.2805	0.10019	DHPS		
ENSG00000163719	3	9681117	9754077	135	24	43905	1.2797	0.10032	MTMR14		
ENSG00000109047	17	9789637	9818938	149	19	34772	1.2795	0.10036	RCVRN		
ENSG00000177294	17	6669542	6710420	178	31	49831	1.2794	0.10037	FBXO39		
ENSG00000100647	14	70068313	70191859	201	35	47377	1.2794	0.10038	KIAA0247		
ENSG00000189306	22	42895974	42925808	97	11	44364	1.2792	0.10041	RRP7A		

ENSG00000100523	14	53500686	53630000	281	24	35645	1.2791	0.10042	<i>DDHD1</i>		
ENSG00000267964	10	75521935	75542378	31	6	44700	1.2791	0.10044	<i>AC022400.2</i>		
ENSG00000028116	2	58124786	58397055	619	60	47285	1.279	0.10045	<i>VRK2</i>		
ENSG00000173542	4	71758043	71898166	218	41	34428	1.2789	0.10047	<i>MOB1B</i>		
ENSG00000167858	17	6682452	6745080	292	40	52968	1.2789	0.10047	<i>TEKT1</i>		
ENSG00000108294	17	36898989	36930484	90	23	44327	1.2789	0.10047	<i>PSMB3</i>		
ENSG00000104140	15	41154412	41176487	57	6	35878	1.2788	0.10048	<i>RHOV</i>		
ENSG00000106605	7	43788279	43856939	160	19	47170	1.2787	0.1005	<i>BLVRA</i>		
ENSG00000115234	2	27583389	27609995	47	11	41894	1.2786	0.10052	<i>SNX17</i>		
ENSG00000136108	13	53019564	53060763	118	12	47689	1.2784	0.10056	<i>CKAP2</i>		
ENSG00000177683	7	108184987	108220194	85	13	36191	1.2777	0.10067	<i>THAP5</i>		
ENSG00000152061	1	174118548	174974445	2145	49	43675	1.2777	0.10068	<i>RABGAP1L</i>		
ENSG00000118655	1	114437763	114466708	56	14	41242	1.2776	0.1007	<i>DCLRE1B</i>		
ENSG00000074047	2	121483199	121760229	704	126	44506	1.2774	0.10072	<i>GLI2</i>		
ENSG00000148288	9	136018340	136049332	98	25	41413	1.2774	0.10073	<i>GBGT1</i>		
ENSG00000172572	12	20512179	20847315	1279	132	45074	1.2774	0.10073	<i>PDE3A</i>		
ENSG00000175166	3	184006497	184036842	66	16	43749	1.2773	0.10074	<i>PSMD2</i>		
ENSG00000134215	1	108103782	108517766	1551	146	48355	1.2772	0.10077	<i>VAV3</i>		
ENSG00000105341	19	41927223	41956622	71	10	47442	1.277	0.1008	<i>ATP5SL</i>		
ENSG00000038274	5	162920120	162956342	115	21	44302	1.2769	0.10082	<i>MAT2B</i>		
ENSG00000187801	1	40905774	40939390	137	31	46983	1.2768	0.10084	<i>ZFP69B</i>		
ENSG00000162980	2	152635498	152695006	148	22	40804	1.2766	0.10087	<i>ARL5A</i>		
ENSG00000204103	20	39304488	39327880	42	8	47033	1.2762	0.10094	<i>MAFB</i>		
ENSG00000111897	6	122754499	122802967	135	16	56419	1.276	0.10098	<i>SERINC1</i>		
ENSG00000132139	17	34061530	34089897	98	17	47387	1.2752	0.10113	<i>GAS2L2</i>		
ENSG00000170892	19	54683789	54707585	84	17	40091	1.2751	0.10113	<i>TSEN34</i>		
ENSG00000022556	19	55454498	55522510	382	53	45338	1.2752	0.10113	<i>NLRP2</i>		
ENSG00000154328	8	11617148	11654855	235	37	50363	1.275	0.10116	<i>NEIL2</i>		
ENSG00000138801	4	108501433	108651608	467	43	49204	1.2749	0.10117	<i>PAPSS1</i>		
ENSG00000122687	7	2263866	2291840	128	25	49166	1.2748	0.1012	<i>FTSJ2</i>		
ENSG00000168273	3	52558029	52623253	169	16	48101	1.2746	0.10122	<i>SMIM4</i>		
ENSG00000197372	19	23698433	23880022	556	46	47211	1.2747	0.10122	<i>ZNF675</i>		
ENSG00000126550	4	70906119	70934562	108	19	49192	1.2742	0.1013	<i>HTN1</i>		
ENSG00000100105	22	31711790	31752218	88	22	47353	1.2739	0.10135	<i>PATZ1</i>		
ENSG00000132824	20	43114862	43160750	87	13	44746	1.2736	0.1014	<i>SERINC3</i>		
ENSG00000169567	5	130484720	130517428	90	10	24813	1.2735	0.10142	<i>HINT1</i>		

ENSG00000113645	5	167708656	167909308	689	117	43404	1.2735	0.10142	WWC1		
ENSG00000103066	16	68269207	68304961	82	14	51928	1.2735	0.10142	PLA2G15		
ENSG00000172354	7	100261154	100286797	68	16	53265	1.2733	0.10146	GNB2		
ENSG00000172551	12	55214303	55262177	252	23	39767	1.2732	0.10148	MUCL1		
ENSG00000171867	20	4656882	4692236	115	27	46085	1.2732	0.10148	PRNP		
ENSG00000185133	22	31508717	31540682	95	26	42672	1.273	0.10151	INPP5J		
ENSG00000140107	14	100779674	100806715	63	16	45222	1.2728	0.10155	SLC25A47		
ENSG00000150551	2	133392426	133439152	89	9	36482	1.2724	0.10162	LYPD1		
ENSG00000268024	17	32571900	32592306	51	9	55121	1.2717	0.10175	AC005549.3		
ENSG00000175764	9	124574207	124865885	1130	95	43169	1.2714	0.10179	TTL11		
ENSG00000139116	12	39677030	39847192	307	31	36750	1.2713	0.10181	KIF21A		
ENSG00000172073	2	88814169	88839102	111	12	50379	1.2713	0.10182	TEX37		
ENSG00000213658	16	28986147	29012104	47	20	40200	1.2709	0.10188	LAT		
ENSG00000180667	1	207207194	207236325	40	9	54167	1.2706	0.10193	YOD1		
ENSG00000142279	19	34961874	35007258	133	31	33819	1.2705	0.10195	WTIP		
ENSG00000135655	12	62644119	62821211	476	35	55486	1.2702	0.102	USP15		
ENSG00000174992	16	29779561	29803096	15	9	45706	1.2701	0.10203	ZG16		
ENSG00000119535	1	36921644	36958879	116	26	49138	1.2699	0.10207	CSF3R		
ENSG00000268424	5	101559696	101581279	93	16	41670	1.2698	0.10207	AC008948.1		
ENSG00000112414	6	142612991	142777403	274	35	41979	1.2698	0.10208	GPR126		
ENSG00000163884	3	126051478	126086285	72	15	54466	1.2695	0.10214	KLF15		
ENSG00000204335	2	171561861	171584588	68	11	47942	1.2694	0.10216	SP5		
ENSG00000198502	6	32475120	32508064	59	13	35958	1.2693	0.10217	HLA-DRB5		
ENSG00000164961	8	126026502	126114082	274	24	30195	1.2691	0.10221	KIAA0196		
ENSG00000168268	3	52548386	52579070	73	13	45420	1.269	0.10223	NT5DC2		
ENSG00000133398	5	6361994	6388707	100	16	57017	1.2689	0.10224	MED10		
ENSG00000167815	19	12897634	12922694	80	11	33358	1.2687	0.10228	PRDX2		
ENSG00000139974	14	61437832	61560451	154	30	49408	1.2684	0.10232	SLC38A6		
ENSG00000110237	11	73009334	73090136	195	19	38403	1.2683	0.10234	ARHGEF17		
ENSG00000182979	14	105876159	105947066	61	33	42177	1.2679	0.10241	MTA1		
ENSG00000259120	17	73632323	73654057	44	12	44677	1.268	0.10241	SMIM6		
ENSG00000165923	11	47671143	47746941	142	18	39349	1.2677	0.10246	AGBL2		
ENSG00000151876	5	41915356	41951845	57	10	44238	1.2674	0.10251	FBXO4		
ENSG00000095713	10	99614757	99800585	336	60	49946	1.2671	0.10257	CRTAC1		
ENSG00000243244	2	48746522	48836025	416	49	48600	1.2669	0.1026	STON1		
ENSG00000153015	5	64054757	64324590	598	35	53354	1.2667	0.10263	CWC27		

ENSG00000138381	2	190516111	190545557	69	13	44481	1.2667	0.10264	ASNSD1		
ENSG00000111666	12	102080725	102147918	228	32	45875	1.2664	0.10268	CHPT1		
ENSG00000240403	19	55351898	55388662	181	16	43918	1.2663	0.1027	KIR3DL2		
ENSG00000136244	7	22755503	22781621	100	19	35944	1.2661	0.10273	IL6		
ENSG00000110711	11	67240512	67268574	35	12	41728	1.2661	0.10273	AIP		
ENSG00000135537	6	108606098	108857999	478	53	41193	1.2658	0.10278	LACE1		
ENSG00000166123	16	46908290	46975209	80	18	41993	1.2659	0.10278	GPT2		
ENSG00000179029	17	8066555	8089717	62	14	50001	1.2655	0.10285	TMEM107		
ENSG00000197594	6	132119156	132226295	349	60	40148	1.2654	0.10287	ENPP1		
ENSG00000065000	19	2090988	2174464	374	46	44493	1.2653	0.10289	AP3D1		
ENSG00000173692	2	231911578	232047541	253	30	38894	1.2652	0.10291	PSMD1		
ENSG00000180318	12	85663885	85705562	81	14	35997	1.2651	0.10291	ALX1		
ENSG00000127527	19	16456050	16592896	319	42	46399	1.2649	0.10296	EPS15L1		
ENSG00000086232	7	6051881	6108861	264	32	46368	1.2647	0.10299	EIF2AK1		
ENSG00000008382	19	4333524	4370083	122	25	51192	1.2647	0.10299	MPND		
ENSG00000188428	6	8003800	8074647	354	26	43478	1.2645	0.10303	BLOC1S5		
ENSG00000162298	11	64879252	64912004	58	17	45599	1.2643	0.10306	SYVN1		
ENSG00000155792	8	120875957	121073152	931	57	39430	1.2642	0.10309	DEPTOR		
ENSG00000104973	19	50311539	50352073	94	20	42781	1.2638	0.10316	MED25		
ENSG00000146830	7	100267130	100297071	64	15	55845	1.2637	0.10317	GIGYF1		
ENSG00000184154	11	71781382	71831828	117	7	23571	1.2636	0.10319	LRTOMT		
ENSG00000091583	17	64198151	64262643	292	37	42298	1.2626	0.10336	APOH		
ENSG00000170011	3	39840405	40311812	1641	126	40166	1.2625	0.10338	MYRIP		
ENSG00000071539	5	882758	929472	138	15	38364	1.2622	0.10344	TRIP13		
ENSG00000026297	6	167332992	167380679	188	30	35018	1.2616	0.10354	RNASET2		
ENSG00000078804	20	33282094	33311243	57	8	49157	1.2616	0.10355	TP53INP2		
ENSG00000243646	21	34628663	34679539	165	25	46918	1.2612	0.10361	IL10RB		
ENSG00000125944	1	23620264	23680829	75	16	41772	1.2609	0.10367	HNRNPR		
ENSG00000163273	2	232776530	232801113	63	24	47283	1.2609	0.10367	NPPC		
ENSG00000155329	5	132322677	132372296	145	11	40804	1.2607	0.10371	ZCCHC10		
ENSG00000132017	19	14053304	14082254	28	13	43958	1.2605	0.10375	DCAF15		
ENSG00000179163	1	24161567	24204784	151	8	49970	1.2604	0.10376	FUCA1		
ENSG00000125485	9	135458384	135555788	237	32	51950	1.2601	0.10382	DDX31		
ENSG00000233812	15	32684108	32705493	11	7	40266	1.2597	0.10388	AC139426.2		
ENSG00000115540	2	198370295	198428423	87	15	53628	1.2597	0.1039	MOB4		
ENSG00000175315	11	65769312	65790976	75	14	42853	1.2592	0.10398	CST6		

ENSG00000142619	1	17565593	17620728	256	37	55875	1.2591	0.10399	<i>PADI3</i>		
ENSG00000143816	1	228096357	228145599	149	22	48677	1.259	0.10401	<i>WNT9A</i>		
ENSG00000178467	3	49017319	49054587	30	9	37843	1.2589	0.10404	<i>P4HTM</i>		
ENSG00000119392	9	131256979	131314567	94	13	34833	1.2586	0.10408	<i>GLE1</i>		
ENSG00000182141	19	21463962	21522227	196	16	42116	1.2579	0.10422	<i>ZNF708</i>		
ENSG00000188818	5	700471	861101	179	42	40693	1.2575	0.10428	<i>ZDHHC11</i>		
ENSG00000177576	18	46998028	47023622	112	13	53678	1.2574	0.1043	<i>C18orf32</i>		
ENSG00000153132	4	141299609	141359122	168	17	49651	1.2573	0.10432	<i>CLGN</i>		
ENSG00000214513	2	73419386	73449641	92	13	41870	1.2569	0.10439	<i>NOTO</i>		
ENSG00000050748	5	179650143	179729099	310	50	51515	1.2568	0.10442	<i>MAPK9</i>		
ENSG00000182545	14	20963696	20989328	59	19	41182	1.2568	0.10442	<i>RNASE10</i>		
ENSG00000154556	4	186496598	186887806	1815	225	47394	1.2567	0.10443	<i>SORBS2</i>		
ENSG00000172336	7	100293676	100315118	64	12	56823	1.2567	0.10443	<i>POP7</i>		
ENSG00000240247	8	6844288	6885778	65	23	47109	1.2567	0.10444	<i>DEFA1B</i>		
ENSG00000167202	15	78266378	78380066	531	52	40262	1.2566	0.10444	<i>TBC1D2B</i>		
ENSG00000242498	15	90433159	90466188	100	12	52478	1.2564	0.10448	<i>C15orf38</i>		
ENSG00000112208	6	57027124	57064631	51	9	51500	1.2563	0.1045	<i>BAG2</i>		
ENSG00000206190	15	25912420	26120317	965	146	43201	1.2563	0.10451	<i>ATP10A</i>		
ENSG00000121895	4	38958365	39044542	393	56	48541	1.2562	0.10452	<i>TMEM156</i>		
ENSG00000175970	12	121138238	121171443	122	21	47069	1.2561	0.10454	<i>UNC119B</i>		
ENSG00000180061	19	55814169	55855416	158	24	49184	1.2561	0.10454	<i>TMEM150B</i>		
ENSG00000124120	20	43094526	43133244	68	12	45499	1.2561	0.10454	<i>TTPAL</i>		
ENSG00000064607	19	19091697	19154832	142	17	55007	1.256	0.10456	<i>SUGP2</i>		
ENSG00000172014	9	69371812	69435560	6	3	42650	1.2558	0.1046	<i>ANKRD20A4</i>		
ENSG00000257230	12	59907059	59927965	81	16	48214	1.2555	0.10466	<i>RP11-272B17.2</i>		
ENSG00000103479	16	53457889	53535561	147	12	44728	1.2553	0.10468	<i>RBL2</i>		
ENSG00000169410	15	75749462	75881630	219	23	33884	1.2553	0.10469	<i>PTPN9</i>		
ENSG00000130226	7	153574182	154695995	4030	372	43173	1.2552	0.1047	<i>DPP6</i>		
ENSG00000254550	11	76803886	76824377	56	13	48760	1.2552	0.1047	<i>OMP</i>		
ENSG00000111674	12	7012909	7042861	54	8	36748	1.2551	0.10473	<i>ENO2</i>		
ENSG00000221933	7	143761275	143782288	71	10	46068	1.2549	0.10475	<i>OR2A25</i>		
ENSG00000137040	9	6001043	6025618	49	11	42484	1.2549	0.10475	<i>RANBP6</i>		
ENSG00000163154	1	151119105	151142225	29	11	39451	1.2546	0.10481	<i>TNFAIP8L2</i>		
ENSG00000165898	14	74950423	74973809	65	9	54722	1.2538	0.10496	<i>ISCA2</i>		
ENSG00000148734	10	71997085	72053432	233	46	43194	1.2537	0.10497	<i>NPFFR1</i>		
ENSG00000125730	19	6667715	6740573	298	50	49025	1.2537	0.10497	<i>C3</i>		

ENSG00000187024	9	130445257	130497152	74	12	45843	1.2537	0.10498	<i>PTRH1</i>		
ENSG00000163497	2	219835809	219860379	27	8	27586	1.2534	0.10504	<i>FEV</i>		
ENSG00000152056	2	224606403	224712744	417	38	43340	1.2529	0.10513	<i>AP1S3</i>		
ENSG00000122863	10	73714123	73783322	237	29	40355	1.2528	0.10513	<i>CHST3</i>		
ENSG00000104951	19	50382911	50442796	189	39	42618	1.2527	0.10515	<i>IL4I1</i>		
ENSG00000142025	19	42338806	42366401	51	7	40136	1.2523	0.10523	<i>DMRTC2</i>		
ENSG00000137709	11	120097349	120200653	221	54	43259	1.2523	0.10524	<i>POU2F3</i>		
ENSG00000117523	1	171444651	171572650	363	27	48936	1.252	0.10528	<i>PRRC2C</i>		
ENSG00000160209	21	45128975	45192188	216	44	45896	1.2516	0.10536	<i>PDXK</i>		
ENSG00000140839	16	74432529	74465368	42	16	47791	1.2515	0.10537	<i>CLEC18B</i>		
ENSG00000203733	6	142444227	142466288	43	8	47487	1.2514	0.1054	<i>GJE1</i>		
ENSG00000114423	3	105364305	105598396	720	56	52045	1.2511	0.10544	<i>CBLB</i>		
ENSG00000141504	17	7519552	7541194	56	16	44267	1.2508	0.10551	<i>SAT2</i>		
ENSG00000128802	10	48403092	48426853	37	14	45966	1.2504	0.10557	<i>GDF2</i>		
ENSG00000165055	7	128106783	128156656	219	31	53859	1.2502	0.10561	<i>METTL2B</i>		
ENSG00000139679	13	48953707	49028840	93	15	35472	1.2502	0.10561	<i>LPAR6</i>		
ENSG00000139977	14	57847262	57892635	49	13	34332	1.2502	0.10561	<i>NAA30</i>		
ENSG00000138152	10	124020821	124107677	353	42	43305	1.25	0.10565	<i>BTBD16</i>		
ENSG00000034971	1	171594557	171631823	158	26	46422	1.2498	0.10569	<i>MYOC</i>		
ENSG00000100593	14	77930740	77975210	155	19	40815	1.2497	0.1057	<i>ISM2</i>		
ENSG00000177519	2	154323852	154345322	40	9	53996	1.2497	0.10571	<i>RPRM</i>		
ENSG00000225663	17	79770287	79801178	89	13	53768	1.2492	0.10579	<i>FAM195B</i>		
ENSG00000106330	7	100199725	100223007	43	8	53910	1.2491	0.10581	<i>MOSPD3</i>		
ENSG00000167985	11	61187514	61225001	55	8	35523	1.2491	0.10581	<i>SDHAF2</i>		
ENSG00000182670	21	38435526	38585413	584	26	54513	1.249	0.10583	<i>TTC3</i>		
ENSG00000103245	16	769753	801329	80	17	37441	1.2489	0.10585	<i>NARFL</i>		
ENSG00000139842	13	113852552	113929399	166	13	28847	1.2487	0.10588	<i>CUL4A</i>		
ENSG00000143595	1	154283566	154307801	80	13	46257	1.2483	0.10596	<i>AQP10</i>		
ENSG00000064655	20	45513263	45827492	975	141	41741	1.2483	0.10596	<i>EYA2</i>		
ENSG00000087365	11	65808200	65846779	68	13	45374	1.2478	0.10605	<i>SF3B2</i>		
ENSG00000108587	17	28794380	28864610	117	14	43905	1.2478	0.10605	<i>GOSR1</i>		
ENSG00000131808	11	30242563	30266808	55	6	49759	1.2476	0.10609	<i>FSHB</i>		
ENSG00000164089	4	109653196	109694210	62	15	34488	1.2475	0.10611	<i>ETNPPL</i>		
ENSG00000164168	4	148528534	148603195	48	10	34188	1.2474	0.10613	<i>TMEM184C</i>		
ENSG00000008130	1	1672671	1721896	93	19	37651	1.2471	0.10619	<i>NADK</i>		
ENSG00000182676	17	79781368	79802926	62	8	54434	1.2466	0.10627	<i>PPP1R27</i>		

ENSG00000100241	22	50873429	50923454	183	36	45896	1.2461	0.10636	<i>SBF1</i>		
ENSG00000138641	4	89432199	89639693	491	53	38176	1.2457	0.10643	<i>HERC3</i>		
ENSG00000103404	16	23062727	23170591	296	21	55087	1.2455	0.10647	<i>USP31</i>		
ENSG00000106609	7	66376212	66433538	162	17	51219	1.2452	0.10653	<i>TMEM248</i>		
ENSG00000164654	7	7596503	7658560	261	31	46315	1.245	0.10657	<i>MIOS</i>		
ENSG00000157343	6	35694809	35726856	65	19	46037	1.2448	0.1066	<i>ARMC12</i>		
ENSG00000117228	1	89508002	89541043	111	15	52307	1.2443	0.1067	<i>GBP1</i>		
ENSG00000050555	9	133874469	133979860	386	59	40325	1.2441	0.10673	<i>LAMC3</i>		
ENSG00000154914	17	9538015	9643008	274	42	33016	1.2441	0.10673	<i>USP43</i>		
ENSG00000119408	9	127009885	127125586	307	40	48935	1.2436	0.10682	<i>NEK6</i>		
ENSG00000137860	15	45534428	45578149	164	10	19777	1.2435	0.10683	<i>SLC28A2</i>		
ENSG00000197880	1	23897985	23977058	170	41	46051	1.2431	0.10692	<i>MDS2</i>		
ENSG00000169715	16	56649387	56671024	109	28	43305	1.2431	0.10692	<i>MT1E</i>		
ENSG00000143457	1	150608701	150679630	227	14	52034	1.2429	0.10695	<i>GOLPH3L</i>		
ENSG00000231672	2	218138742	218631316	1507	136	38982	1.2429	0.10695	<i>DIRC3</i>		
ENSG00000108469	17	73612925	73673269	137	21	48624	1.2428	0.10698	<i>RECQL5</i>		
ENSG00000113387	5	32521739	32614185	248	39	36150	1.2422	0.10708	<i>SUB1</i>		
ENSG00000178761	15	75182328	75209462	51	10	33142	1.2421	0.1071	<i>FAM219B</i>		
ENSG00000166068	15	38534527	38659450	420	22	33312	1.2412	0.10726	<i>SPRED1</i>		
ENSG00000114742	3	39083489	39148155	198	26	40608	1.2408	0.10734	<i>WDR48</i>		
ENSG00000074071	16	1811891	1833156	67	15	45339	1.2407	0.10736	<i>MRPS34</i>		
ENSG00000259332	15	80127537	80226096	398	36	53680	1.2405	0.10739	<i>ST20-MTHFS</i>		
ENSG00000164690	7	155582680	155614967	73	29	46125	1.2394	0.1076	<i>SHH</i>		
ENSG00000170085	5	175655365	175782994	347	28	50856	1.2393	0.10761	<i>SIMC1</i>		
ENSG00000109471	4	123362625	123387880	58	13	41991	1.2392	0.10763	<i>IL2</i>		
ENSG00000154721	21	27001584	27099874	316	41	37757	1.2387	0.10772	<i>JAM2</i>		
ENSG00000149596	20	42730335	42826218	405	68	51159	1.2385	0.10776	<i>JPH2</i>		
ENSG00000197165	16	28593264	28618430	61	10	38445	1.2384	0.10779	<i>SULT1A2</i>		
ENSG00000104760	8	17711889	17777874	456	36	28837	1.2377	0.10791	<i>FGL1</i>		
ENSG00000160917	7	99026545	99064994	74	12	34334	1.2372	0.10801	<i>CPSF4</i>		
ENSG00000169762	4	16152128	16239033	314	34	48452	1.2369	0.10806	<i>TAPT1</i>		
ENSG00000163637	3	64069543	64441152	1181	138	42227	1.2368	0.10808	<i>PRICKLE2</i>		
ENSG00000171126	2	42659157	42731237	202	36	45325	1.2366	0.10811	<i>KCNG3</i>		
ENSG00000255537	11	125355110	125379424	51	9	55101	1.2362	0.1082	<i>AP000708.1</i>		
ENSG00000124209	20	56874752	56952563	271	34	47432	1.2358	0.10827	<i>RAB22A</i>		
ENSG00000162290	3	53307447	53391654	153	22	48591	1.2357	0.10829	<i>DCP1A</i>		

ENSG00000251369	19	58036625	58081231	62	14	56828	1.2355	0.10832	ZNF550		
ENSG00000115602	2	102917962	102978497	289	21	47980	1.2355	0.10833	IL1RL1		
ENSG00000106992	9	130618759	130650022	81	26	40383	1.2354	0.10833	AK1		
ENSG00000105583	19	12768885	12792170	39	16	43643	1.2354	0.10835	WDR83OS		
ENSG00000243896	7	143945700	143966815	5	2	43844	1.2352	0.10838	OR2A7		
ENSG00000244693	7	143953794	143976381	5	2	43844	1.2352	0.10838	CTAGE8		
ENSG00000140199	15	34515460	34640261	589	42	42252	1.2351	0.10839	SLC12A6		
ENSG00000120645	12	165931	297626	504	97	41926	1.2345	0.1085	IQSEC3		
ENSG00000221883	3	48945221	48966818	36	9	40832	1.2344	0.10852	ARIH2OS		
ENSG00000169375	15	75651720	75758183	131	18	34298	1.2342	0.10857	SIN3A		
ENSG00000177283	10	35917177	35940362	51	11	45119	1.2341	0.10858	FZD8		
ENSG00000177693	15	102452245	102473298	5	1	43527	1.2338	0.10863	OR4F4		
ENSG00000268626	17	72336906	72358271	76	15	45291	1.2339	0.10863	AC103809.2		
ENSG00000167637	19	44321444	44363307	199	17	53680	1.2336	0.10868	ZNF283		
ENSG00000163156	1	151119140	151152773	38	15	41303	1.2335	0.1087	SCNM1		
ENSG00000165724	9	140466531	140494942	59	10	47750	1.2335	0.1087	ZMYND19		
ENSG00000204520	6	31361356	31393092	540	42	31041	1.2332	0.10874	MICA		
ENSG00000083635	13	45503384	45573618	116	24	36964	1.2329	0.10881	NUFIP1		
ENSG00000112312	6	24765159	24796327	92	25	44997	1.2322	0.10894	GMNN		
ENSG00000183542	12	10549983	10572356	54	10	37846	1.2318	0.10901	KLRC4		
ENSG00000061987	12	62850597	63001363	459	38	54452	1.2318	0.10901	MON2		
ENSG00000092295	14	24708320	24743638	75	20	38567	1.2317	0.10903	TGM1		
ENSG00000112333	6	108477262	108520013	80	22	42326	1.2313	0.1091	NR2E1		
ENSG00000185988	19	1514073	1545455	164	26	33488	1.2312	0.10912	PLK5		
ENSG00000073712	14	53313986	53429153	282	34	44718	1.2311	0.10914	FERMT2		
ENSG00000172061	3	194065976	194100472	237	34	41509	1.2307	0.10922	LRRC15		
ENSG00000007866	6	35431374	35474853	141	31	38741	1.2305	0.10925	TEAD3		
ENSG00000110911	12	51363184	51432349	217	18	36029	1.2305	0.10926	SLC11A2		
ENSG00000059728	2	70114820	70180077	142	13	30183	1.2304	0.10927	MXD1		
ENSG00000131730	5	80519104	80572216	146	18	51462	1.2301	0.10933	CKMT2		
ENSG00000196821	6	34545065	34674636	323	26	37158	1.2298	0.10938	C6orf106		
ENSG00000109736	4	2922288	2946586	61	16	45023	1.2296	0.10942	MFSD10		
ENSG00000177030	11	634233	716715	376	40	46007	1.2296	0.10942	DEAF1		
ENSG00000183578	15	51338795	51407473	152	20	54540	1.2293	0.10948	TNFAIP8L3		
ENSG00000125037	3	9994221	10062800	213	11	42983	1.2285	0.10963	EMC3		
ENSG00000136444	17	48546161	48573336	65	13	35278	1.2285	0.10963	RSAD1		

ENSG00000112308	6	24695089	24731064	126	34	48744	1.2285	0.10964	<i>C6orf62</i>		
ENSG00000146826	7	99742043	99766338	37	8	49161	1.2279	0.10974	<i>C7orf43</i>		
ENSG00000164100	4	118944773	119189803	864	53	35015	1.2278	0.10976	<i>NDST3</i>		
ENSG00000184478	11	5958570	5979591	72	16	54343	1.2277	0.10979	<i>OR56A3</i>		
ENSG00000155265	10	99599996	99641337	97	20	40050	1.2269	0.10994	<i>GOLGA7B</i>		
ENSG00000247077	12	133277405	133309228	134	26	47497	1.2264	0.11002	<i>PGAM5</i>		
ENSG00000178078	19	4314040	4352783	141	27	50307	1.2263	0.11004	<i>STAP2</i>		
ENSG00000075223	7	80361854	80561675	503	87	46497	1.2262	0.11007	<i>SEMA3C</i>		
ENSG00000173705	3	33181537	33270707	328	39	48017	1.2258	0.11014	<i>SUSD5</i>		
ENSG00000030419	2	213854429	214027151	501	48	39143	1.2255	0.11019	<i>IKZF2</i>		
ENSG00000150627	4	176976985	177113978	555	43	53435	1.2255	0.11019	<i>WDR17</i>		
ENSG00000134376	1	197160592	197457585	489	60	44219	1.2254	0.11021	<i>CRB1</i>		
ENSG00000066032	2	79402357	80885905	5011	403	42777	1.2253	0.11023	<i>CTNNA2</i>		
ENSG00000169758	15	76342178	76531462	515	73	40850	1.2249	0.1103	<i>C15orf27</i>		
ENSG00000162621	1	74925562	74988298	107	20	33587	1.2249	0.11031	<i>LRRC53</i>		
ENSG00000178802	15	75172346	75201798	51	10	33142	1.2249	0.11031	<i>MPI</i>		
ENSG00000167074	22	41753337	41805330	111	10	48229	1.2249	0.11031	<i>TEF</i>		
ENSG00000164287	5	54398799	54479005	197	20	54118	1.2248	0.11033	<i>CDC20B</i>		
ENSG00000185436	1	24470647	24524449	198	33	44977	1.2247	0.11034	<i>IFNL1</i>		
ENSG00000147439	8	22467931	22536661	209	24	47308	1.2247	0.11035	<i>BIN3</i>		
ENSG00000188321	19	9424448	9471838	152	15	44967	1.2243	0.11043	<i>ZNF559</i>		
ENSG00000186377	1	47417036	47526423	249	26	36687	1.2242	0.11044	<i>CYP4X1</i>		
ENSG00000002330	11	64027302	64062176	50	20	47717	1.224	0.11048	<i>BAD</i>		
ENSG00000119772	2	25445845	25575459	263	57	50199	1.2239	0.11049	<i>DNMT3A</i>		
ENSG00000070540	17	66407089	66463654	146	27	51538	1.2233	0.11061	<i>WIPI1</i>		
ENSG00000147869	9	14709722	14732715	120	27	44066	1.223	0.11066	<i>CER1</i>		
ENSG00000204613	6	30109722	30138711	254	21	45937	1.2227	0.11072	<i>TRIM10</i>		
ENSG00000197892	8	28914796	29130641	450	55	46543	1.2227	0.11073	<i>KIF13B</i>		
ENSG00000155906	6	151715989	151783259	268	30	38675	1.222	0.11085	<i>RMND1</i>		
ENSG00000128284	22	36526372	36572225	158	30	37730	1.2213	0.11098	<i>APOL3</i>		
ENSG00000197747	1	151945391	151976866	109	10	47696	1.2213	0.11099	<i>S100A10</i>		
ENSG00000171298	17	78065355	78103678	259	27	47333	1.2213	0.11099	<i>GAA</i>		
ENSG00000183318	17	8646424	8671877	81	19	46700	1.2212	0.111	<i>SPDYE4</i>		
ENSG00000214239	6	159037471	159059322	99	14	52622	1.2211	0.11102	<i>AL591025.1</i>		
ENSG00000188883	7	139127436	139178458	208	35	40380	1.2204	0.11115	<i>KLRG2</i>		
ENSG00000198538	19	53290662	53370853	373	58	38851	1.2203	0.11117	<i>ZNF28</i>		

ENSG00000105329	19	41797492	41869816	152	25	52120	1.2196	0.11131	TGFB1		
ENSG00000163762	3	149026285	149062201	110	26	51913	1.2183	0.11155	TM4SF18		
ENSG00000130307	19	17349985	17403595	219	31	44277	1.2182	0.11156	USHBP1		
ENSG00000157593	6	44211833	44235291	77	23	54387	1.218	0.11162	SLC35B2		
ENSG00000145934	5	166701804	167701162	2518	293	42196	1.2178	0.11164	TENM2		
ENSG00000114853	3	42685176	42719072	81	21	47279	1.2175	0.1117	ZBTB47		
ENSG00000250733	8	140933416	140956190	84	16	49381	1.2175	0.1117	C8orf17		
ENSG00000249773	7	55944970	56032932	283	35	53038	1.2174	0.11172	MRPS17		
ENSG00000172731	10	72048729	72152382	430	63	47887	1.2173	0.11174	LRRC20		
ENSG00000185480	12	102503956	102601298	197	20	54031	1.2172	0.11176	PARPBP		
ENSG00000052802	4	166238775	166274312	145	26	41865	1.217	0.1118	MSMO1		
ENSG00000065154	10	126075872	126117545	139	18	55146	1.2166	0.11188	OAT		
ENSG00000160908	7	99074142	99107947	45	16	45352	1.2164	0.11192	ZNF394		
ENSG00000145949	6	2653863	2761200	529	67	52137	1.2162	0.11195	MYLK4		
ENSG00000132313	2	86416478	86450917	116	14	39024	1.2159	0.11201	MRPL35		
ENSG00000206503	6	29899037	29923661	807	46	43495	1.2159	0.11201	HLA-A		
ENSG00000119699	14	76414442	76459334	75	18	46859	1.2156	0.11208	TGFB3		
ENSG00000163686	3	58213233	58291420	341	26	35640	1.2153	0.11212	ABHD6		
ENSG00000184986	14	105982940	106006539	24	5	40119	1.2151	0.11216	TMEM121		
ENSG00000161960	17	7466024	7492323	63	13	46441	1.2148	0.11221	EIF4A1		
ENSG00000179873	19	56286770	56358166	403	76	37885	1.2149	0.11221	NLRP11		
ENSG00000104415	8	134193282	134252587	177	46	46441	1.2146	0.11226	WISP1		
ENSG00000169756	2	109140857	109313702	597	38	35095	1.2146	0.11227	LIMS1		
ENSG00000080815	14	73593126	73700399	254	36	51088	1.2145	0.11228	PSEN1		
ENSG00000129255	17	7476847	7506107	67	14	44640	1.2144	0.1123	MPDU1		
ENSG00000131055	20	30215691	30242809	78	8	33095	1.2144	0.1123	COX4I2		
ENSG00000198488	11	76735385	76763096	91	19	47667	1.214	0.11237	B3GNT6		
ENSG00000205784	19	4880449	4912879	110	22	41134	1.2137	0.11244	ARRDC5		
ENSG00000051180	15	40976972	41034354	130	13	51644	1.2132	0.11252	RAD51		
ENSG00000108551	17	17387751	17409709	46	12	31105	1.2131	0.11254	RASD1		
ENSG00000156374	10	105052553	105120891	119	18	44545	1.213	0.11256	PCGF6		
ENSG00000157103	3	11024410	11090933	218	54	47226	1.2128	0.1126	SLC6A1		
ENSG00000130508	2	1625659	1758624	496	79	45808	1.2125	0.11265	PXDN		
ENSG00000174562	19	51318545	51350469	134	34	47361	1.2124	0.11268	KLK15		
ENSG00000121058	17	55005548	55048415	105	26	50298	1.2123	0.11269	COIL		
ENSG00000182687	17	74060875	74083622	38	7	39076	1.2122	0.11272	GALR2		

ENSG00000272104	3	50378323	50415354	23	8	54265	1.212	0.11276	<i>XXcos-LUCA11.5</i>		
ENSG00000197471	16	29664300	29692187	48	11	31698	1.2119	0.11277	<i>SPN</i>		
ENSG00000101266	20	449116	534465	193	33	43634	1.2116	0.11284	<i>CSNK2A1</i>		
ENSG00000231145	2	190632909	190653157	55	12	44359	1.2115	0.11285	<i>AC013468.1</i>		
ENSG00000198944	5	132139033	132162488	32	8	44208	1.2115	0.11285	<i>SOWAHA</i>		
ENSG00000105610	19	12985237	13007995	51	11	43033	1.2115	0.11285	<i>KLF1</i>		
ENSG00000132702	1	156579086	156605517	39	8	26890	1.211	0.11294	<i>HAPLN2</i>		
ENSG00000121057	17	55152453	55208710	225	42	46126	1.2108	0.11299	<i>AKAP1</i>		
ENSG00000264424	17	10336607	10382876	86	11	29850	1.2107	0.113	<i>MYH4</i>		
ENSG00000106266	7	2281405	2403953	436	63	42661	1.2104	0.11305	<i>SNX8</i>		
ENSG00000162430	1	26116667	26154713	107	13	46394	1.2103	0.11308	<i>SEP1</i>		
ENSG00000164081	3	51686709	51748339	55	24	52631	1.2101	0.11313	<i>TEX264</i>		
ENSG00000154217	17	65363575	65703372	935	193	48301	1.2099	0.11316	<i>PITPNC1</i>		
ENSG00000269407	20	23320015	23344066	82	13	37609	1.2099	0.11316	<i>AL096677.1</i>		
ENSG00000166925	7	100050982	100086902	64	12	52244	1.2094	0.11326	<i>TSC22D4</i>		
ENSG00000176428	7	73072155	73096442	89	10	50976	1.2092	0.11329	<i>VPS37D</i>		
ENSG00000143420	1	150563327	150612088	129	21	47039	1.2088	0.11337	<i>ENSA</i>		
ENSG00000064199	11	124533694	124577414	60	15	44318	1.2087	0.11338	<i>SPA17</i>		
ENSG00000161265	19	36223365	36246346	64	13	49404	1.2087	0.11338	<i>U2AF1L4</i>		
ENSG00000186509	11	57781353	57959088	669	50	42990	1.2086	0.11341	<i>OR9Q1</i>		
ENSG00000129534	14	45662393	45732743	134	19	44307	1.2086	0.11341	<i>MIS18BP1</i>		
ENSG00000113583	5	133281201	133314478	60	17	55794	1.2085	0.11342	<i>C5orf15</i>		
ENSG00000154309	1	222978406	223189337	721	70	50383	1.2081	0.1135	<i>DISP1</i>		
ENSG00000109920	11	47728072	47798995	153	20	38496	1.2077	0.11357	<i>FNBP4</i>		
ENSG00000033867	3	27404214	27535911	497	40	52004	1.2077	0.11358	<i>SLC4A7</i>		
ENSG00000090971	19	55986371	56008935	95	23	50002	1.2075	0.11363	<i>NAT14</i>		
ENSG00000149571	11	126283254	126883355	2178	189	47414	1.2074	0.11364	<i>KIRREL3</i>		
ENSG00000163293	4	47906159	48052188	517	39	39705	1.2073	0.11366	<i>NIPAL1</i>		
ENSG00000172262	5	43055278	43202123	536	42	46870	1.2073	0.11367	<i>ZNF131</i>		
ENSG00000131115	19	44701700	44751421	86	14	38730	1.2069	0.11373	<i>ZNF227</i>		
ENSG00000081059	5	133440402	133497556	122	17	38942	1.2068	0.11376	<i>TCF7</i>		
ENSG00000034677	8	101259288	101358446	222	21	51504	1.2063	0.11385	<i>RNF19A</i>		
ENSG00000104537	8	124683034	124759647	212	40	47153	1.2061	0.1139	<i>ANXA13</i>		
ENSG00000108733	17	33891814	33915882	87	16	54780	1.206	0.11392	<i>PEX12</i>		
ENSG00000112041	6	35455651	35490715	118	23	47457	1.2057	0.11396	<i>TULP1</i>		
ENSG00000176871	12	118460712	118510235	169	32	43190	1.2057	0.11396	<i>WSB2</i>		

ENSG00000126267	19	36129125	36159763	92	17	42749	1.2055	0.114	COX6B1		
ENSG00000197296	20	42921478	42949809	66	9	28941	1.2055	0.114	FITM2		
ENSG00000028839	6	134263308	134321570	133	19	36190	1.205	0.1141	TBPL1		
ENSG00000204308	6	32136131	32161930	76	20	45287	1.2049	0.11412	RNF5		
ENSG00000114933	2	206848445	206961027	306	31	37261	1.2039	0.11431	INO80D		
ENSG00000196776	3	107752145	107819872	108	26	51894	1.2035	0.11439	CD47		
ENSG00000163521	2	220091328	220120200	67	14	38533	1.2032	0.11444	GLB1L		
ENSG00000185689	6	4069440	4141185	241	27	44618	1.2025	0.11458	C6orf201		
ENSG00000172301	17	30168883	30196356	70	15	47541	1.2025	0.11459	COPRS		
ENSG00000196427	1	108755963	108796689	42	8	48730	1.2021	0.11466	NBPF4		
ENSG00000079393	10	76844192	76878979	110	19	39691	1.2021	0.11467	DUSP13		
ENSG00000204572	11	71266609	71289980	154	22	46901	1.2021	0.11467	KRTAP5-10		
ENSG00000136238	7	6404154	6453608	225	32	42687	1.202	0.11468	RAC1		
ENSG00000137947	1	89308615	89367627	189	24	35982	1.202	0.11469	GTF2B		
ENSG00000069275	1	205671947	205729404	161	28	39737	1.2019	0.1147	NUCKS1		
ENSG00000168310	4	185298867	185405734	378	97	47809	1.2018	0.11471	IRF2		
ENSG00000169221	16	30358423	30391585	42	11	31295	1.2017	0.11473	TBC1D10B		
ENSG00000137497	11	71703910	71801739	229	13	29796	1.2011	0.11485	NUMA1		
ENSG00000121281	16	50270048	50362046	233	48	45278	1.2007	0.11493	ADCY7		
ENSG00000152377	5	136300987	136944068	1935	176	45635	1.2003	0.11501	SPOCK1		
ENSG00000224689	19	9790600	9821452	141	13	40860	1.2003	0.11502	ZNF812		
ENSG00000169964	3	44893361	44917162	47	15	37128	1.1999	0.11509	TMEM42		
ENSG00000018699	2	32843099	33056118	881	91	50529	1.1998	0.11511	TTC27		
ENSG00000212124	12	11164218	11185219	109	16	36446	1.1996	0.11515	TAS2R19		
ENSG00000103024	16	1810287	1831731	65	15	45420	1.1995	0.11517	NME3		
ENSG00000117450	1	45966708	45998719	88	9	56778	1.1993	0.1152	PRDX1		
ENSG00000174132	5	99861009	99932445	178	17	36836	1.199	0.11526	FAM174A		
ENSG00000143376	1	151574541	151681567	185	25	41287	1.199	0.11527	SNX27		
ENSG00000163462	1	155135873	155167447	48	10	48990	1.1988	0.1153	TRIM46		
ENSG00000163220	1	153320330	153343503	86	8	49202	1.1987	0.11533	S100A9		
ENSG00000083817	19	58072934	58100295	50	7	57279	1.1986	0.11535	ZNF416		
ENSG00000165474	13	20751609	20777037	93	18	37635	1.1985	0.11536	GJB2		
ENSG00000130876	19	33689570	33726756	121	31	33605	1.1984	0.11538	SLC7A10		
ENSG00000269422	16	88884366	88904545	187	17	53332	1.1984	0.11539	AC092384.1		
ENSG00000249160	5	10495108	10532196	139	28	44508	1.1983	0.1154	RP11-1C1.5		
ENSG00000121903	1	33928246	33972107	105	11	48734	1.1977	0.11552	ZSCAN20		

ENSG00000168743	4	106805932	106935184	466	42	34889	1.1975	0.11556	<i>NPNT</i>		
ENSG00000172403	4	119799996	119992402	716	106	52436	1.1974	0.11557	<i>SYNPO2</i>		
ENSG00000104960	19	50343992	50374001	81	19	49883	1.1973	0.1156	<i>PTOV1</i>		
ENSG00000175170	20	25734102	25858861	198	22	36465	1.1973	0.1156	<i>FAM182B</i>		
ENSG00000143552	1	153955161	154137592	312	30	49829	1.1971	0.11564	<i>NUP210L</i>		
ENSG00000058668	1	203585689	203723209	255	55	38561	1.1965	0.11575	<i>ATP2B4</i>		
ENSG00000134910	11	125451607	125505110	204	16	40852	1.1961	0.11583	<i>STT3A</i>		
ENSG00000188175	7	92807899	92865837	110	27	45661	1.1959	0.11586	<i>HEPACAM2</i>		
ENSG00000250264	6	32771544	32816599	468	53	43549	1.1958	0.11588	<i>TAP2</i>		
ENSG00000175497	2	115189876	116613328	3859	263	46817	1.1954	0.11596	<i>DPP10</i>		
ENSG00000133884	11	65091225	65130720	65	17	41885	1.195	0.11604	<i>DPF2</i>		
ENSG00000212127	12	11080005	11334172	1425	36	35345	1.1948	0.11607	<i>TAS2R14</i>		
ENSG00000229615	2	87079023	87102827	51	7	40835	1.1947	0.1161	<i>AC111200.1</i>		
ENSG00000099203	19	10933114	10956994	32	9	52754	1.1947	0.1161	<i>TMED1</i>		
ENSG00000037897	12	58152254	58176576	31	5	37437	1.1947	0.11611	<i>METTL1</i>		
ENSG00000143387	1	150758684	150790799	55	12	48426	1.1946	0.11612	<i>CTSK</i>		
ENSG00000115221	2	160946177	161138399	621	63	45494	1.1946	0.11612	<i>ITGB6</i>		
ENSG00000092330	14	24698849	24721880	27	11	44736	1.1946	0.11612	<i>TINF2</i>		
ENSG00000167104	20	31609454	31641853	98	18	47949	1.1946	0.11612	<i>BPIFB6</i>		
ENSG00000260286	6	24787549	24809117	84	19	38613	1.1941	0.11621	<i>C6orf229</i>		
ENSG00000170365	4	146392346	146489231	164	24	33118	1.194	0.11625	<i>SMAD1</i>		
ENSG00000142494	17	19388698	19492347	218	52	44201	1.1938	0.11628	<i>SLC47A1</i>		
ENSG00000187164	10	118633742	118896097	351	36	36189	1.1935	0.11634	<i>KIAA1598</i>		
ENSG00000115607	2	103025149	103079025	248	19	38028	1.1935	0.11635	<i>IL18RAP</i>		
ENSG00000167178	15	74382652	74440881	39	18	41286	1.1933	0.11637	<i>ISLR2</i>		
ENSG00000101255	20	351261	388203	178	44	37793	1.1931	0.11641	<i>TRIB3</i>		
ENSG00000170903	11	105856350	105903130	93	16	54992	1.1931	0.11642	<i>MSANTD4</i>		
ENSG00000254959	7	30781753	30941696	630	75	37977	1.1928	0.11648	<i>INMT-FAM188B</i>		
ENSG00000184465	6	169847307	170112159	708	61	36290	1.1926	0.11651	<i>WDR27</i>		
ENSG00000170871	4	6773102	6895897	221	39	43895	1.1923	0.11656	<i>KIAA0232</i>		
ENSG00000179046	4	189002427	189040757	264	42	35500	1.1923	0.11657	<i>TRIML2</i>		
ENSG00000171861	17	675513	705749	112	25	53544	1.1923	0.11657	<i>RNMTL1</i>		
ENSG00000105483	19	48674027	48769203	454	53	47370	1.1919	0.11664	<i>CARD8</i>		
ENSG00000163218	1	153292596	153331316	191	13	40529	1.1914	0.11674	<i>PGLYRP4</i>		
ENSG00000158717	16	88752903	88782829	159	33	48087	1.1914	0.11675	<i>RNF166</i>		
ENSG00000108797	17	40824631	40861832	43	11	51177	1.1914	0.11675	<i>CNTNAP1</i>		

ENSG00000213121	6	153542455	153678623	538	62	49900	1.1912	0.11678	AL590867.1		
ENSG00000265944	18	6501415	6600652	365	70	36397	1.1911	0.11682	C18orf64		
ENSG00000262039	17	47438102	47564350	382	76	44444	1.1909	0.11685	RP11-81K2.1		
ENSG00000163898	3	185214050	185280401	220	20	34302	1.1907	0.11688	LIPH		
ENSG00000065534	3	123318896	123613178	497	63	43342	1.1907	0.11689	MYLK		
ENSG00000068615	2	86431116	86575206	519	41	38594	1.1903	0.11696	REEP1		
ENSG00000241852	8	22447114	22471663	60	7	54606	1.1903	0.11696	C8orf58		
ENSG00000121749	12	72223487	72330629	283	30	45667	1.1902	0.11698	TBC1D15		
ENSG00000162407	1	56950419	57120974	639	70	38963	1.1897	0.11709	PPAP2B		
ENSG00000079112	8	95129399	95239531	362	54	43694	1.1896	0.1171	CDH17		
ENSG00000184227	14	73993818	74020498	26	13	47460	1.1893	0.11715	ACOT1		
ENSG00000146618	7	19174405	19195044	51	14	48257	1.1891	0.1172	FERD3L		
ENSG00000198807	14	37116773	37158920	161	27	46939	1.1891	0.1172	PAX9		
ENSG00000089327	19	35635633	35670786	141	26	48751	1.189	0.11722	FXYD5		
ENSG00000182912	21	45927099	45955835	43	20	46915	1.1889	0.11724	C21orf90		
ENSG00000103018	16	69448428	69510169	209	26	51923	1.1888	0.11726	CYB5B		
ENSG00000116774	1	114512063	114534876	88	16	41089	1.1888	0.11727	OLFML3		
ENSG00000010165	1	171740788	171793163	199	12	52120	1.1886	0.11729	METTL13		
ENSG00000121988	2	135884486	136298806	627	26	20361	1.1886	0.11729	ZRANB3		
ENSG00000136237	7	22147856	22406763	868	109	49537	1.1886	0.1173	RAPGEF5		
ENSG00000163354	1	154980996	155016257	68	14	40530	1.1879	0.11744	DCST2		
ENSG00000156831	8	126093921	126389362	750	84	40011	1.1879	0.11744	NSMCE2		
ENSG00000175893	9	14601069	14703469	476	56	50245	1.1878	0.11746	ZDHHC21		
ENSG00000179294	17	36817961	36841187	45	11	41298	1.1873	0.11755	C17orf96		
ENSG00000178562	2	204561198	204613635	134	18	50302	1.1868	0.11764	CD28		
ENSG00000187144	1	16703612	16773919	207	35	46958	1.1867	0.11767	SPATA21		
ENSG00000163617	3	113672984	113785460	189	33	53458	1.1867	0.11768	KIAA1407		
ENSG00000143515	1	154288029	154333783	145	18	44884	1.1865	0.11771	ATP8B2		
ENSG00000145824	5	134896373	134924969	50	11	49208	1.1865	0.11772	CXCL14		
ENSG00000135914	2	231962944	231999832	57	15	39219	1.1861	0.1178	HTR2B		
ENSG00000163633	4	87787358	87867354	229	27	47236	1.1855	0.11791	C4orf36		
ENSG00000166924	7	100071550	100102422	58	8	55131	1.1855	0.11792	NYAP1		
ENSG00000176046	16	28538606	28560495	55	11	43952	1.1854	0.11793	NUPR1		
ENSG00000173264	11	64027534	64066972	50	19	47714	1.1853	0.11794	GPR137		
ENSG00000262730	17	7819249	7843940	63	13	44258	1.1848	0.11804	RP11-1099M24.7		
ENSG00000129295	8	133574320	133697838	236	31	37768	1.184	0.11821	LRRC6		

ENSG00000019485	11	45105564	45257734	353	47	38143	1.1837	0.11827	PRDM11		
ENSG000000108651	17	30177923	30238784	186	19	46411	1.1836	0.11829	UTP6		
ENSG000000124019	2	225233415	225276802	169	20	52144	1.1835	0.1183	FAM124B		
ENSG000000107281	9	139923922	139950655	84	18	52154	1.1833	0.11835	NPDC1		
ENSG000000226321	2	241848202	241942728	256	39	50490	1.1832	0.11836	AC104809.3		
ENSG000000144040	2	73159165	73312747	297	31	41888	1.1831	0.11839	SFXN5		
ENSG000000168259	17	40118451	40183394	96	17	45444	1.1828	0.11844	DNAJC7		
ENSG000000039987	19	12852516	12879272	28	17	43917	1.1826	0.11848	BEST2		
ENSG000000185559	14	101182042	101211539	91	26	44868	1.1826	0.11849	DLK1		
ENSG000000037749	5	153408466	153610038	604	53	46089	1.1825	0.1185	MFAP3		
ENSG000000142657	1	10448649	10490201	130	21	51378	1.1824	0.11852	PGD		
ENSG000000151687	2	190529016	190635919	223	28	48472	1.1823	0.11854	ANKAR		
ENSG000000159259	21	37747676	37801313	179	22	41215	1.1823	0.11854	CHAF1B		
ENSG000000138101	2	25590067	25906503	566	77	45017	1.1819	0.11863	DTNB		
ENSG000000181781	19	453346	484983	150	29	39553	1.1818	0.11864	ODF3L2		
ENSG000000170561	5	2735959	2762969	73	19	42764	1.1815	0.1187	IRX2		
ENSG000000204673	19	50362295	50391716	65	12	44459	1.1815	0.1187	AKT1S1		
ENSG000000124116	20	44366583	44430571	304	22	39136	1.1814	0.11871	WFDC3		
ENSG000000177954	1	153953235	153974626	38	16	52818	1.1814	0.11872	RPS27		
ENSG000000168159	1	228664762	228693467	74	15	44439	1.1814	0.11872	RNF187		
ENSG000000160870	7	99292660	99342819	94	7	27954	1.1811	0.11878	CYP3A7		
ENSG000000029363	6	136568001	136620989	41	19	51095	1.1811	0.11879	BCLAF1		
ENSG000000164451	6	116840174	116890031	136	16	41118	1.1807	0.11885	FAM26D		
ENSG000000147862	9	14071842	14408982	777	158	41566	1.1806	0.11888	NFIB		
ENSG000000179941	12	76728254	76752222	46	13	37405	1.1806	0.11888	BBS10		
ENSG000000196408	16	2018918	2044193	136	18	49563	1.1806	0.11888	NOXO1		
ENSG000000160117	19	17382454	17408455	125	15	43703	1.1805	0.11889	ANKLE1		
ENSG000000157778	7	1596966	1620641	77	15	49000	1.1804	0.11892	PSMG3		
ENSG000000212126	12	11128512	11149511	105	9	27191	1.1801	0.11897	TAS2R50		
ENSG000000243789	15	42110283	42139779	95	13	44849	1.18	0.119	JMJD7		
ENSG000000104695	8	30621973	30681830	169	19	36789	1.1797	0.11907	PPP2CB		
ENSG000000232263	21	31651463	31671832	84	16	39255	1.1796	0.11908	KRTAP25-1		
ENSG000000091039	12	76735577	76963589	483	34	38479	1.1796	0.11909	OSBPL8		
ENSG000000269095	19	17336749	17376257	162	35	46149	1.1796	0.11909	AC010646.3		
ENSG000000120860	12	102396705	102465927	149	24	53421	1.1795	0.11911	CCDC53		
ENSG000000198931	16	88865747	88888352	172	26	47572	1.1793	0.11914	APRT		

ENSG00000206536	3	98099510	98120475	82	11	47698	1.1791	0.11917	OR5K3		
ENSG00000198832	22	31490758	31526055	118	21	43094	1.1789	0.11921	SELM		
ENSG00000121361	12	21907889	21938515	23	12	55196	1.1783	0.11934	KCNJ8		
ENSG00000143013	1	87784151	87824606	102	31	40223	1.1782	0.11936	LMO4		
ENSG00000173227	11	66764249	66828334	81	32	46838	1.1782	0.11936	SYT12		
ENSG00000159917	19	44722882	44819199	189	19	35156	1.1781	0.11938	ZNF235		
ENSG00000186431	19	55375704	55411838	326	40	47378	1.1777	0.11946	FCAR		
ENSG00000066697	9	103179438	103223511	134	11	49204	1.1775	0.1195	MSANTD3		
ENSG00000115423	2	84733579	85056713	909	60	44323	1.1773	0.11954	DNAH6		
ENSG00000174914	11	56457864	56478781	72	13	46476	1.177	0.1196	OR9G1		
ENSG00000269047	16	1021252	1041663	121	23	42250	1.1769	0.11962	AC009041.2		
ENSG00000111424	12	48225320	48346831	375	61	44061	1.1767	0.11966	VDR		
ENSG00000136487	17	61947578	61969295	84	9	20188	1.1756	0.11987	GH2		
ENSG00000107331	9	139891686	139933367	120	23	54417	1.1754	0.11993	ABCA2		
ENSG00000126778	14	61100133	61134977	48	12	39552	1.1752	0.11996	SIX1		
ENSG00000160953	19	1275890	1388430	270	68	44276	1.1751	0.11998	MUM1		
ENSG00000151014	4	139926943	139976906	94	24	47055	1.1751	0.11999	CCRN4L		
ENSG00000156795	8	124418965	124489470	363	14	46986	1.1749	0.12001	WDYHV1		
ENSG00000055957	3	52801603	52836078	82	10	50619	1.1746	0.12007	ITIH1		
ENSG00000186665	17	65977217	65999765	35	8	33872	1.1745	0.12009	C17orf58		
ENSG00000182950	15	76006318	76030029	48	8	47828	1.1745	0.1201	ODF3L1		
ENSG00000182255	11	30021288	30048570	84	15	51217	1.1744	0.12012	KCNA4		
ENSG00000269307	19	17368227	17403775	149	20	43978	1.1743	0.12013	CTD-2278/10.6		
ENSG00000169676	4	9773258	9795632	61	12	36142	1.1743	0.12014	DRD5		
ENSG00000054983	14	88294164	88470009	890	62	43970	1.1743	0.12014	GALC		
ENSG00000154736	21	28280231	28348832	245	32	43797	1.1741	0.12018	ADAMTS5		
ENSG00000178988	4	6699428	6721607	45	17	42106	1.1738	0.12024	MRFAP1L1		
ENSG00000180096	16	30379454	30417312	65	15	41326	1.1736	0.12029	Sep-01		
ENSG00000164221	5	114592885	114642528	107	22	45321	1.1733	0.12033	CCDC112		
ENSG00000125257	13	95662083	95963687	1318	146	39230	1.1733	0.12033	ABCC4		
ENSG00000205022	16	88918034	88943068	106	18	39621	1.1732	0.12036	PABPN1L		
ENSG00000141198	17	52966748	53049310	306	31	51369	1.1732	0.12036	TOM1L1		
ENSG00000140022	14	81717000	81912809	581	68	44801	1.1731	0.12037	STON2		
ENSG00000124212	20	48110411	48194683	178	46	45132	1.173	0.1204	PTGIS		
ENSG00000146070	6	46661938	46713430	102	19	34716	1.1728	0.12043	PLA2G7		
ENSG00000006747	7	12600203	12703228	449	77	49751	1.1727	0.12045	SCIN		

ENSG00000175567	11	73675712	73704352	90	14	43336	1.1723	0.12054	UCP2		
ENSG00000163993	4	6684796	6708897	83	24	37627	1.1717	0.12066	S100P		
ENSG00000152484	13	27630293	27756033	422	51	44461	1.1717	0.12066	USP12		
ENSG00000025434	11	47259851	47300396	91	14	41296	1.1711	0.12078	NR1H3		
ENSG00000134545	12	10584863	10617284	85	15	42754	1.1708	0.12084	KLRC1		
ENSG00000255622	5	140525577	140548639	82	14	42780	1.1706	0.12088	PCDHB17		
ENSG00000249884	2	86722791	86958245	556	58	42022	1.1702	0.12096	RNF103-CHMP3		
ENSG00000028310	5	840406	902939	159	19	41952	1.1702	0.12097	BRD9		
ENSG00000186051	9	108414738	108435367	64	13	37934	1.1702	0.12097	TAL2		
ENSG00000138835	9	116197011	116370018	505	26	55539	1.17	0.12099	RGS3		
ENSG00000164077	3	49936302	49977606	64	11	39782	1.1697	0.12106	MON1A		
ENSG00000129292	8	133777618	133871052	205	18	50023	1.1697	0.12107	PHF20L1		
ENSG00000129946	19	406583	470996	291	57	39259	1.1696	0.12109	SHC2		
ENSG00000115561	2	86720554	86958245	566	59	41903	1.1693	0.12114	CHMP3		
ENSG00000128699	2	190625049	190659097	90	15	46368	1.1692	0.12117	ORMDL1		
ENSG00000213934	11	5259313	5281122	68	10	37277	1.1689	0.12122	HBG1		
ENSG00000112033	6	35300335	35405968	309	36	28252	1.1688	0.12123	PPARD		
ENSG00000196357	19	36663188	36747159	286	26	52993	1.1688	0.12123	ZNF565		
ENSG00000067365	16	8705540	8750081	164	18	49211	1.1687	0.12126	METTL22		
ENSG00000128881	15	43020932	43223007	277	36	36291	1.1685	0.12129	TTBK2		
ENSG00000106327	7	100208039	100250402	80	12	55015	1.168	0.12139	TFR2		
ENSG00000092068	14	23584504	23662883	208	59	42184	1.168	0.1214	SLC7A8		
ENSG00000233828	5	86502423	86544822	64	17	45391	1.1678	0.12144	AC008394.1		
ENSG00000123700	17	68154814	68186189	59	13	50625	1.1676	0.12149	KCNJ2		
ENSG00000116793	1	114229453	114312111	162	19	48476	1.1674	0.12152	PHTF1		
ENSG00000196119	11	124429893	124451037	85	16	55013	1.1669	0.12163	OR8A1		
ENSG00000180376	3	56581189	56665846	402	34	42638	1.1668	0.12164	CCDC66		
ENSG00000167112	9	131061382	131095021	83	15	35683	1.1668	0.12165	TRUB2		
ENSG00000149262	11	77579766	77715724	417	32	52271	1.1666	0.12169	INTS4		
ENSG00000179934	3	39361197	39385171	78	17	40356	1.1662	0.12177	CCR8		
ENSG00000203993	9	140499784	140523358	51	10	47594	1.1661	0.12178	C9orf37		
ENSG00000090659	19	7794879	7822464	113	25	40303	1.1661	0.12178	CD209		
ENSG00000164743	8	13414352	13435796	135	26	53391	1.1661	0.12179	C8orf48		
ENSG00000184076	22	30153358	30176402	75	16	38883	1.1661	0.1218	UQCR10		
ENSG00000196329	7	150409341	150457121	166	24	49169	1.1656	0.12188	GIMAP5		
ENSG00000159251	15	35070297	35098340	112	40	47942	1.1651	0.122	ACTC1		

ENSG00000126561	17	40429565	40473961	85	13	38221	1.1651	0.122	STAT5A		
ENSG00000179615	12	55958199	55979128	82	11	36861	1.1647	0.12206	OR2AP1		
ENSG00000080298	9	3208297	3536004	790	72	37628	1.1644	0.12213	RFX3		
ENSG00000163075	2	120292008	120429827	269	32	47697	1.1642	0.12217	PCDP1		
ENSG00000132823	20	42815136	42849431	131	26	32990	1.1641	0.12219	OSER1		
ENSG00000114391	3	101389935	101415626	61	11	55633	1.164	0.12221	RPL24		
ENSG00000149476	11	61090682	61130767	21	13	44584	1.164	0.12221	DAK		
ENSG00000030066	11	47789639	47880107	188	19	35747	1.1639	0.12224	NUP160		
ENSG00000073169	22	50629408	50666045	153	30	44395	1.1636	0.1223	SELO		
ENSG00000008513	8	134457091	134594183	552	119	44694	1.1631	0.1224	ST3GAL1		
ENSG00000263812	18	74230612	74332925	509	86	42325	1.1629	0.12243	LINC00908		
ENSG00000256100	11	63732092	63765818	62	8	27111	1.1628	0.12245	AP000721.4		
ENSG00000167754	19	51436559	51466349	128	24	35264	1.1628	0.12245	KLK5		
ENSG00000144644	3	30757692	30946257	677	71	41285	1.1628	0.12246	GADL1		
ENSG00000166801	11	58900221	58932512	93	7	55266	1.1627	0.12247	FAM111A		
ENSG00000134817	11	56991051	57014709	66	17	52380	1.1626	0.12249	APLNR		
ENSG00000071894	8	145608444	145644753	67	14	35695	1.1622	0.12257	CPSF1		
ENSG00000198556	7	99060464	99111273	66	17	40482	1.1622	0.12258	ZNF789		
ENSG00000148824	10	135197598	135244811	206	29	42193	1.1622	0.12258	MTG1		
ENSG00000169019	4	47442885	47475736	100	15	41608	1.162	0.12263	COMMD8		
ENSG00000181935	11	55329604	55350536	181	17	50905	1.1619	0.12265	OR4C16		
ENSG00000138107	10	104228986	104272482	146	10	50060	1.1618	0.12266	ACTR1A		
ENSG00000188690	10	127467146	127521817	126	9	55738	1.1618	0.12266	UROS		
ENSG00000036257	2	225324867	225460110	404	24	55556	1.1614	0.12273	CUL3		
ENSG00000134109	3	5219331	5271642	140	28	34714	1.1614	0.12274	EDEM1		
ENSG00000204472	6	31572961	31594798	90	18	36825	1.1613	0.12276	AIF1		
ENSG00000152457	10	14929358	15006431	217	46	46021	1.1612	0.12279	DCLRE1C		
ENSG00000227782	17	15933505	15953994	49	8	47326	1.1605	0.12293	AC002553.1		
ENSG00000125166	16	58731035	58778261	191	23	45095	1.1603	0.12296	GOT2		
ENSG00000065268	19	973174	1004569	213	28	46532	1.1603	0.12296	WDR18		
ENSG00000197153	6	27848093	27870884	60	13	40580	1.1601	0.123	HIST1H3J		
ENSG00000231861	3	98206448	98227496	51	16	35055	1.16	0.12302	OR5K2		
ENSG00000188163	9	140128036	140152222	72	15	46998	1.16	0.12303	FAM166A		
ENSG00000254834	11	56334212	56355263	76	10	50577	1.1596	0.12311	OR5M10		
ENSG00000129245	17	7484548	7528189	89	16	42176	1.1595	0.12312	FXR2		
ENSG00000133488	22	30874900	30911698	162	19	50879	1.1595	0.12313	SEC14L4		

ENSG00000187105	14	73935189	74035651	210	48	41320	1.159	0.12323	HEATR4		
ENSG00000079931	6	132607194	132732684	330	49	34374	1.1588	0.12326	MOXD1		
ENSG00000175826	17	7136910	7165810	38	6	56442	1.1588	0.12326	CTDNEP1		
ENSG00000074755	17	3897739	4056314	611	41	47774	1.1587	0.12328	ZZEF1		
ENSG00000224586	6	28483702	28512729	75	17	42684	1.1587	0.12329	GPX5		
ENSG00000258890	17	62492706	62548579	95	20	43587	1.1586	0.12331	CEP95		
ENSG00000112200	6	56941642	57045105	140	14	53871	1.1584	0.12334	ZNF451		
ENSG00000120159	9	26830683	26902802	198	32	45586	1.1584	0.12335	CAAP1		
ENSG00000177098	11	117994092	118033603	80	23	45980	1.1584	0.12335	SCN4B		
ENSG00000215621	17	79770293	79794533	68	10	54038	1.1583	0.12338	AC174470.1		
ENSG00000196092	9	36823272	37044103	860	123	48488	1.1578	0.12348	PAX5		
ENSG00000110700	11	17085936	17109334	52	11	42359	1.1577	0.12349	RPS13		
ENSG00000144824	3	111441344	111705364	1092	93	45424	1.1575	0.12354	PHLDB2		
ENSG00000267883	21	47173565	47200005	48	8	49788	1.1573	0.12357	PRED60		
ENSG00000187837	6	26045968	26066699	54	12	33475	1.1573	0.12358	HIST1H1C		
ENSG00000214102	7	141398153	141441071	71	9	51327	1.1566	0.12371	WEE2		
ENSG00000264194	17	10038831	10060277	110	30	45262	1.1564	0.12376	AC000003.2		
ENSG00000129450	19	51618165	51649908	45	22	34824	1.1563	0.12378	SIGLEC9		
ENSG00000226979	6	31529831	31552101	97	22	50690	1.1563	0.12379	LTA		
ENSG00000110200	11	71807424	71833826	65	7	29059	1.156	0.12384	ANAPC15		
ENSG00000145293	4	83341715	83392244	154	30	42963	1.1557	0.12391	ENOPH1		
ENSG00000196352	1	207484853	207544311	140	16	46318	1.155	0.12405	CD55		
ENSG00000143434	1	151094161	151129104	82	19	41493	1.1548	0.12408	SEMA6C		
ENSG00000188215	16	20856247	20921706	122	19	39396	1.1548	0.12408	DCUN1D3		
ENSG00000124208	20	48687661	48780174	235	24	48757	1.1545	0.12415	TMEM189-UBE2V1		
ENSG00000240849	20	48687663	48780335	235	24	48757	1.1545	0.12415	TMEM189		
ENSG00000172381	11	57788402	57809403	104	13	49505	1.1539	0.12426	OR6Q1		
ENSG00000141522	17	79815597	79839282	68	9	54664	1.1539	0.12426	ARHGDIA		
ENSG00000173621	11	66614118	66637946	28	11	49436	1.1539	0.12427	LRFN4		
ENSG00000198569	9	140115209	140141006	67	17	52866	1.1536	0.12433	SLC34A3		
ENSG00000270757	2	198355137	198425450	106	16	53866	1.1531	0.12444	HSPE1-MOB4		
ENSG00000138246	3	132126370	132267876	332	39	43548	1.1525	0.12455	DNAJC13		
ENSG00000169900	16	31217283	31238680	19	9	44139	1.1525	0.12455	PYDC1		
ENSG00000267706	19	55853669	55880884	84	22	44349	1.1524	0.12457	CTD-2105E13.6		
ENSG00000189362	2	191359068	191409448	126	19	45542	1.1522	0.12463	TMEM194B		
ENSG00000164114	4	156253810	156308122	234	20	32367	1.152	0.12466	MAP9		

ENSG00000171208	16	47101614	47187908	82	13	39696	1.1519	0.12469	NETO2		
ENSG00000188612	17	73153408	73189078	95	22	37186	1.1517	0.12472	SUMO2		
ENSG00000180305	20	44248165	44269835	83	8	44393	1.1517	0.12472	WFDC10A		
ENSG00000014824	4	41982489	42102474	477	18	30532	1.1516	0.12475	SLC30A9		
ENSG00000139998	14	65402532	65449494	139	28	43692	1.1515	0.12476	RAB15		
ENSG00000066056	1	43756664	43798779	61	12	36673	1.1509	0.12488	TIE1		
ENSG00000105369	19	42371190	42395439	19	4	44038	1.1509	0.12488	CD79A		
ENSG00000128534	7	117814086	117842878	149	11	51678	1.1508	0.12491	NAA38		
ENSG00000130158	19	11299971	11383157	243	33	39126	1.1505	0.12498	DOCK6		
ENSG00000140612	15	85202775	85269947	158	24	47163	1.1503	0.12501	SEC11A		
ENSG00000065029	6	35216686	35273762	140	17	30894	1.1501	0.12505	ZNF76		
ENSG00000156966	2	232250254	232275875	74	16	41669	1.15	0.12507	B3GNT7		
ENSG00000185821	12	55810038	55830976	56	9	52635	1.15	0.12507	OR6C76		
ENSG00000197780	1	109595108	109628624	136	24	50753	1.1497	0.12513	TAF13		
ENSG00000095739	10	28956271	28981868	68	17	52536	1.1496	0.12515	BAMBI		
ENSG00000225119	10	38707074	38746820	136	12	45879	1.1495	0.12518	LINC00999		
ENSG00000204020	10	90511163	90547999	163	23	47154	1.1495	0.12518	LIPN		
ENSG00000096264	6	41293393	41328625	183	24	39464	1.1491	0.12526	NCR2		
ENSG00000185267	10	14851249	14890574	97	21	38512	1.1489	0.12529	CDNF		
ENSG00000149635	20	45159585	45189213	88	22	45299	1.1488	0.12533	OCSTAMP		
ENSG00000256591	11	61186692	61263294	126	17	37654	1.1487	0.12534	RP11-286N22.8		
ENSG00000176797	8	7728726	7750186	3	1	43121	1.1474	0.1256	DEFB103A		
ENSG00000109062	17	72734791	72775492	96	18	44705	1.1474	0.1256	SLC9A3R1		
ENSG00000205358	16	56693726	56715041	113	32	41668	1.1473	0.12562	MT1H		
ENSG00000197406	14	102017688	102039789	46	14	45363	1.1472	0.12565	DIO3		
ENSG00000111206	12	2956847	2996206	89	16	34500	1.147	0.12569	FOXM1		
ENSG00000142606	1	2512078	2574481	229	16	32388	1.1465	0.12578	MMEL1		
ENSG00000138760	4	77069890	77145046	298	24	33167	1.1461	0.12588	SCARB2		
ENSG00000130513	19	18475541	18509986	117	18	47683	1.1459	0.12592	GDF15		
ENSG00000124107	20	43870880	43893205	85	9	40427	1.1458	0.12594	SLPI		
ENSG00000137720	11	111739659	111766699	62	9	43326	1.1455	0.126	C11orf1		
ENSG00000198467	9	35671989	35701017	80	20	50415	1.1455	0.12601	TPM2		
ENSG00000176340	11	63732079	63754015	44	7	28242	1.1455	0.12601	COX8A		
ENSG00000100626	14	69715994	69831183	435	72	43301	1.1453	0.12605	GALNT16		
ENSG00000132334	10	129695325	129894119	871	167	52316	1.1452	0.12607	PTPRE		
ENSG00000105248	19	4237076	4279087	129	11	32694	1.1449	0.12612	CCDC94		

ENSG00000106635	7	72940686	72982332	85	13	52817	1.1449	0.12613	<i>BCL7B</i>		
ENSG00000176909	19	49205999	49232978	96	9	25243	1.1449	0.12613	<i>MAMSTR</i>		
ENSG00000163635	3	63840233	63999138	351	44	45583	1.1444	0.12623	<i>ATXN7</i>		
ENSG00000059769	9	114383632	114442508	254	35	40438	1.1444	0.12623	<i>DNAJC25</i>		
ENSG00000244115	9	114383666	114442509	254	35	40438	1.1444	0.12623	<i>DNAJC25-GNG10</i>		
ENSG00000269197	8	70840403	70860635	91	14	53841	1.1443	0.12624	<i>AC090574.1</i>		
ENSG00000151348	11	44107099	44276979	360	37	52164	1.1444	0.12624	<i>EXT2</i>		
ENSG00000234409	22	20125950	20148399	86	15	48940	1.1442	0.12627	<i>AC006547.14</i>		
ENSG00000106341	7	31716329	31758069	133	29	47634	1.144	0.12631	<i>PPP1R17</i>		
ENSG00000164219	5	114536527	114608569	168	28	38270	1.144	0.12632	<i>PGGT1B</i>		
ENSG00000136286	7	44992261	45028697	99	18	47021	1.1439	0.12633	<i>MYO1G</i>		
ENSG00000203791	10	126426718	126490439	142	22	47048	1.1439	0.12633	<i>METTL10</i>		
ENSG00000167770	11	63743325	63779283	74	12	30357	1.1439	0.12634	<i>OTUB1</i>		
ENSG00000159216	21	36150098	37386965	3991	312	45528	1.1439	0.12634	<i>RUNX1</i>		
ENSG00000198721	6	4105923	4145831	127	15	42249	1.1438	0.12636	<i>ECI2</i>		
ENSG00000089157	12	120624489	120649038	43	12	31125	1.1437	0.12638	<i>RPLP0</i>		
ENSG00000161010	5	179251436	179299173	183	26	39871	1.1436	0.1264	<i>C5orf45</i>		
ENSG00000079215	5	36596457	36698436	276	56	40399	1.1435	0.12641	<i>SLC1A3</i>		
ENSG00000204859	1	6630061	6659340	63	20	50298	1.1434	0.12644	<i>ZBTB48</i>		
ENSG00000114744	3	149446257	149480286	93	14	47372	1.1434	0.12644	<i>COMMD2</i>		
ENSG00000142089	11	309669	337537	83	22	39075	1.1432	0.12648	<i>IFITM3</i>		
ENSG00000198720	17	27906787	27951779	69	22	41965	1.1432	0.12648	<i>ANKRD13B</i>		
ENSG00000133247	19	55841221	55869488	91	20	47114	1.1429	0.12654	<i>SUV420H2</i>		
ENSG00000169126	10	28054115	28297977	638	50	43832	1.1426	0.1266	<i>ARMC4</i>		
ENSG00000080822	3	98206756	98251910	106	22	39493	1.1424	0.12663	<i>CLDND1</i>		
ENSG00000112335	6	108522426	108592464	137	22	40267	1.1425	0.12663	<i>SNX3</i>		
ENSG00000168026	3	39139152	39190394	178	24	34833	1.1424	0.12665	<i>TTC21A</i>		
ENSG00000081154	3	101282939	101323281	117	16	50030	1.1423	0.12666	<i>PCNP</i>		
ENSG00000114650	3	47445203	47528616	101	18	47457	1.1417	0.12679	<i>SCAP</i>		
ENSG00000113494	5	35038861	35240794	711	78	37287	1.1416	0.12681	<i>PRLR</i>		
ENSG00000256713	11	60998514	61028920	20	11	36756	1.1415	0.12684	<i>PGA5</i>		
ENSG00000130287	19	19312782	19373042	153	26	38877	1.1408	0.12699	<i>NCAN</i>		
ENSG00000112706	6	76620832	76792395	387	63	49436	1.1405	0.12705	<i>IMPG1</i>		
ENSG00000105287	19	47167532	47230384	155	24	47768	1.1405	0.12705	<i>PRKD2</i>		
ENSG00000175198	13	100731269	101192686	1055	74	38788	1.1403	0.12708	<i>PCCA</i>		
ENSG00000205085	7	128302342	128336929	184	15	54917	1.1402	0.1271	<i>FAM71F2</i>		

ENSG00000239887	1	162326698	162366600	146	36	45959	1.1398	0.12719	<i>C1orf226</i>		
ENSG00000106462	7	148494475	148591413	231	32	52774	1.1397	0.1272	<i>EZH2</i>		
ENSG00000067798	12	78214685	78616790	1490	156	48803	1.1396	0.12723	<i>NAV3</i>		
ENSG00000003393	2	202555277	202655912	356	32	38012	1.1395	0.12724	<i>ALS2</i>		
ENSG00000079337	12	48118455	48174823	206	34	50057	1.1395	0.12725	<i>RAPGEF3</i>		
ENSG00000215883	1	54628009	54675709	110	35	47744	1.1394	0.12726	<i>CYB5RL</i>		
ENSG00000205155	19	36226015	36247911	58	13	49548	1.1393	0.12729	<i>PSENEN</i>		
ENSG00000141519	17	78000435	78084412	450	48	45259	1.1392	0.1273	<i>CCDC40</i>		
ENSG00000089693	12	6847170	6886641	145	21	39759	1.1387	0.12741	<i>MLF2</i>		
ENSG00000222040	2	96768707	96791984	33	7	50152	1.1383	0.12751	<i>ADRA2B</i>		
ENSG00000166106	11	130308869	130356532	160	40	47039	1.1383	0.12751	<i>ADAMTS15</i>		
ENSG00000169564	2	70304585	70326332	32	7	33767	1.138	0.12755	<i>PCBP1</i>		
ENSG00000176715	16	89144783	89232254	511	40	36393	1.138	0.12756	<i>ACSF3</i>		
ENSG00000213218	17	61939372	61961126	96	6	21009	1.138	0.12756	<i>CSH2</i>		
ENSG00000056586	9	125596835	125677620	155	27	43385	1.1379	0.12758	<i>RC3H2</i>		
ENSG00000203783	1	153180060	153201793	83	8	42375	1.1379	0.12759	<i>PRR9</i>		
ENSG00000160972	8	145693352	145737504	64	13	44243	1.1378	0.1276	<i>PPP1R16A</i>		
ENSG00000101193	20	61559471	61586996	96	20	47072	1.1376	0.12765	<i>GID8</i>		
ENSG00000143995	2	66650584	66811001	399	72	40351	1.1372	0.12773	<i>MEIS1</i>		
ENSG00000171385	1	112303284	112541777	774	137	43857	1.1368	0.1278	<i>KCND3</i>		
ENSG00000189253	11	89592450	89619185	2	1	43587	1.1367	0.12783	<i>TRIM64B</i>		
ENSG00000141052	17	12559207	12682266	405	77	40357	1.1367	0.12783	<i>MYOCD</i>		
ENSG00000136630	1	221041699	221068401	80	17	49363	1.1366	0.12785	<i>HLX</i>		
ENSG00000179142	8	143981975	144009259	116	13	32324	1.1365	0.12788	<i>CYP11B2</i>		
ENSG00000053501	19	17316155	17340638	134	20	39424	1.1361	0.12796	<i>USE1</i>		
ENSG00000091073	7	76080993	76145312	122	15	30143	1.136	0.12798	<i>DTX2</i>		
ENSG00000139687	13	48867887	49066122	252	29	35828	1.1359	0.12801	<i>RB1</i>		
ENSG00000115520	2	198308147	198350032	52	9	53099	1.1352	0.12814	<i>COQ10B</i>		
ENSG00000203864	1	117226734	117259225	59	16	43555	1.1351	0.12816	<i>C1orf137</i>		
ENSG00000174915	11	438268	501393	247	27	52505	1.1351	0.12818	<i>PTDSS2</i>		
ENSG00000255038	11	65824748	65847090	39	11	49379	1.135	0.12819	<i>RP11-1167A19.2</i>		
ENSG00000006652	7	112053023	112131072	305	42	39556	1.1349	0.12821	<i>IFRD1</i>		
ENSG00000143036	1	95275898	95370802	395	66	50508	1.1344	0.12832	<i>SLC44A3</i>		
ENSG00000253206	8	50438945	50476973	79	7	40350	1.1341	0.12837	<i>RP11-738G5.2</i>		
ENSG00000154380	1	225664537	225850844	493	31	52982	1.1339	0.12842	<i>ENAH</i>		
ENSG00000269205	16	2021633	2042918	126	16	50008	1.1337	0.12846	<i>AC005606.1</i>		

ENSG00000127554	16	2024208	2047750	124	14	49798	1.1335	0.1285	<i>GFER</i>		
ENSG00000091317	3	32512804	32554900	110	23	53158	1.1333	0.12855	<i>CMTM6</i>		
ENSG00000120725	5	138272409	138639246	565	47	41966	1.133	0.1286	<i>SIL1</i>		
ENSG00000198736	16	1978211	2003327	88	27	34347	1.133	0.12861	<i>MSRB1</i>		
ENSG00000258292	12	96186875	96227085	152	23	44015	1.1329	0.12863	<i>RP11-536G4.1</i>		
ENSG00000254536	10	135194338	135243999	227	33	41709	1.1326	0.12869	<i>RP11-108K14.8</i>		
ENSG00000170291	17	7144735	7173259	47	7	55411	1.1325	0.12871	<i>ELP5</i>		
ENSG00000177455	16	28933260	28960667	31	12	36711	1.1323	0.12876	<i>CD19</i>		
ENSG00000132688	1	156628555	156657189	76	14	46797	1.1322	0.12877	<i>NES</i>		
ENSG00000170279	7	148277657	148322952	152	39	42983	1.1317	0.12888	<i>C7orf33</i>		
ENSG00000186960	14	29231910	29292493	74	29	50500	1.1316	0.1289	<i>C14orf23</i>		
ENSG00000137076	9	35686945	35742392	92	20	50717	1.1314	0.12895	<i>TLN1</i>		
ENSG00000054356	2	220144345	220184370	111	22	38919	1.1312	0.12898	<i>PTPRN</i>		
ENSG00000168487	8	22012249	22079839	205	48	48267	1.1311	0.12901	<i>BMP1</i>		
ENSG00000145863	5	160964069	161139599	449	45	43886	1.1308	0.12906	<i>GABRA6</i>		
ENSG00000117425	1	45275516	45318735	104	13	50366	1.1305	0.12912	<i>PTCH2</i>		
ENSG00000068650	13	113334643	113551482	696	85	40783	1.1304	0.12915	<i>ATP11A</i>		
ENSG00000254706	1	162325197	162361905	137	36	46338	1.1301	0.12921	<i>RP11-565P22.6</i>		
ENSG00000101335	20	35159887	35188228	31	14	46978	1.13	0.12923	<i>MYL9</i>		
ENSG00000062370	19	44820708	44881377	230	27	39803	1.1297	0.12931	<i>ZNF112</i>		
ENSG00000198570	1	211639864	211676259	141	28	47716	1.1294	0.12936	<i>RD3</i>		
ENSG00000189157	4	77125193	77214933	436	38	43446	1.1293	0.12939	<i>FAM47E</i>		
ENSG00000125841	20	317426	350304	134	25	41343	1.129	0.12944	<i>NRSN2</i>		
ENSG00000024526	1	68929835	68972904	141	18	44518	1.1288	0.1295	<i>DEPDC1</i>		
ENSG00000181693	11	56047529	56068566	78	15	55668	1.1287	0.12952	<i>OR8H1</i>		
ENSG00000143479	1	206798881	206867764	189	30	42345	1.1285	0.12955	<i>DYRK3</i>		
ENSG00000020426	14	61191460	61446671	337	42	40354	1.1282	0.12961	<i>MNAT1</i>		
ENSG00000241468	7	99036098	99073954	67	10	31446	1.1281	0.12964	<i>ATP5J2</i>		
ENSG00000171189	21	30899254	31322351	1356	114	39992	1.1281	0.12965	<i>GRIK1</i>		
ENSG00000122035	13	27834464	27857827	51	14	39135	1.1278	0.1297	<i>RASL11A</i>		
ENSG00000163950	4	1684527	1724282	147	21	44734	1.1274	0.12979	<i>SLBP</i>		
ENSG00000121067	17	47666246	47765596	128	33	52671	1.1273	0.1298	<i>SPOP</i>		
ENSG00000005436	2	75869126	75948115	250	28	43994	1.1272	0.12982	<i>GCFC2</i>		
ENSG00000244482	19	54710737	54756649	126	31	38745	1.1272	0.12982	<i>LILRA6</i>		
ENSG00000063978	4	2453947	2637047	473	61	47809	1.1269	0.12989	<i>RNF4</i>		
ENSG00000182325	8	145569091	145593036	39	10	47423	1.1264	0.12999	<i>FBXL6</i>		

ENSG00000164610	7	33124409	33159013	111	16	52987	1.1264	0.13001	RP9		
ENSG00000163931	3	53248723	53300068	226	23	43794	1.1259	0.13011	TKT		
ENSG00000164631	7	6718064	6756554	149	21	35124	1.1258	0.13012	ZNF12		
ENSG00000115524	2	198244508	198309815	88	15	52087	1.1257	0.13014	SF3B1		
ENSG00000124227	20	56783551	56813709	69	21	47126	1.1257	0.13014	ANKRD60		
ENSG00000243725	1	55171495	55218330	228	10	29714	1.1256	0.13016	TTC4		
ENSG00000096968	9	4975033	5138183	468	30	45747	1.1256	0.13017	JAK2		
ENSG00000126583	19	54372444	54420906	90	28	34198	1.1256	0.13017	PRKCG		
ENSG00000143443	1	151010216	151034462	48	14	49501	1.1255	0.13019	C1orf56		
ENSG00000114383	3	50347458	50375682	25	12	47483	1.1254	0.13022	TUSC2		
ENSG00000163349	1	114461814	114530426	162	29	46601	1.1251	0.13027	HIPK1		
ENSG00000129625	5	112202084	112268236	250	26	41078	1.1251	0.13027	REEP5		
ENSG00000186275	1	146363546	146477744	8	6	42738	1.125	0.1303	NBPF12		
ENSG00000128989	15	52829242	52872080	119	14	46019	1.1249	0.13031	ARPP19		
ENSG00000164284	5	148714993	148744146	55	10	45557	1.1247	0.13036	GRPEL2		
ENSG00000135549	6	122783076	123057518	791	74	45878	1.1246	0.13039	PKIB		
ENSG00000084234	11	129929732	130024699	319	29	38499	1.1246	0.13039	APLP2		
ENSG00000167118	9	131123598	131163015	79	17	40088	1.1245	0.1304	URM1		
ENSG00000151611	4	146529415	146591187	157	25	45513	1.1243	0.13044	MMAA		
ENSG00000162892	1	207060788	207087484	69	10	34234	1.1241	0.13049	IL24		
ENSG00000169871	7	100718720	100745017	117	20	42478	1.1241	0.13049	TRIM56		
ENSG00000107949	10	127502115	127552264	85	13	52949	1.1236	0.1306	BCCIP		
ENSG00000123124	8	87344967	87500649	488	35	46541	1.1234	0.13064	WWP1		
ENSG00000064218	9	966964	1001731	127	23	49049	1.1234	0.13064	DMRT3		
ENSG00000137252	6	55029050	55157418	473	47	49105	1.1233	0.13065	HCRTR2		
ENSG00000114670	3	130735694	131079309	817	62	41448	1.1233	0.13066	NEK11		
ENSG00000180035	16	30379427	30421429	67	15	41136	1.123	0.13071	ZNF48		
ENSG00000255154	3	58293341	58313847	96	12	35063	1.1228	0.13075	RPP14		
ENSG00000105393	19	17368159	17402058	144	19	43518	1.1228	0.13075	BABAM1		
ENSG00000144290	2	162270843	162851792	1371	55	50203	1.1228	0.13076	SLC4A10		
ENSG00000204525	6	31226526	31249907	807	49	43279	1.1224	0.13085	HLA-C		
ENSG00000182261	11	7970971	7996973	81	18	51601	1.1223	0.13086	NLRP10		
ENSG00000185442	15	93150673	93363114	948	103	37551	1.1221	0.1309	FAM174B		
ENSG00000163539	3	33527737	33769848	450	38	52135	1.122	0.13093	CLASP2		
ENSG00000136535	2	162262605	162292381	55	15	50768	1.1211	0.13112	TBR1		
ENSG00000173320	4	184764584	184954679	556	110	45215	1.1211	0.13113	STOX2		

ENSG00000229974	7	134822797	134842916	59	5	55356	1.1211	0.13113	AC083862.1		
ENSG00000101191	20	61499090	61579304	307	41	44657	1.121	0.13114	DIDO1		
ENSG00000258289	14	65371079	65421309	211	20	32500	1.1209	0.13116	CHURC1		
ENSG00000185808	21	38421470	38455470	156	20	54645	1.1208	0.13119	PIGP		
ENSG00000117151	1	85005289	85050163	131	18	36355	1.1206	0.13122	CTBS		
ENSG00000105699	19	35729233	35768867	131	20	50604	1.1205	0.13126	LSR		
ENSG00000138942	22	31546168	31613005	176	26	41314	1.1203	0.1313	RNF185		
ENSG00000196456	7	150055879	150119558	214	28	45027	1.12	0.13136	ZNF775		
ENSG00000144218	2	100152323	100769201	1513	123	48744	1.1193	0.1315	AFF3		
ENSG00000248919	7	99007372	99073820	122	19	35346	1.1191	0.13154	ATP5J2-PTCD1		
ENSG00000164871	8	7290206	7331196	2	1	42757	1.1192	0.13154	SPAG11B		
ENSG00000015592	8	27082840	27125937	160	25	44908	1.1191	0.13155	STMN4		
ENSG00000166734	15	44570927	44717956	235	15	34379	1.119	0.13156	CASC4		
ENSG00000169764	2	64058074	64128696	180	29	42357	1.1189	0.13159	UGP2		
ENSG00000243667	2	68340068	68394692	115	18	43395	1.1188	0.13161	WDR92		
ENSG00000113924	3	120337020	120411418	289	50	50689	1.1183	0.13171	HGD		
ENSG00000112494	6	167674657	167739507	410	52	46438	1.118	0.13179	UNC93A		
ENSG00000173456	11	119195237	119218023	45	13	46507	1.1178	0.13182	RNF26		
ENSG00000127022	5	179095629	179167926	204	27	46133	1.1177	0.13186	CANX		
ENSG00000160683	11	118744475	118778508	66	25	48269	1.1176	0.13186	CXCR5		
ENSG00000182463	20	51578946	52121869	1623	226	44438	1.1176	0.13186	TSHZ2		
ENSG00000212643	5	112217313	112238791	85	11	38953	1.1174	0.1319	ZRSR1		
ENSG00000103591	15	67483371	67557533	168	15	52332	1.1173	0.13192	AAGAB		
ENSG00000188199	10	81452983	81484437	34	7	35992	1.1171	0.13197	NUTM2B		
ENSG00000171848	2	10252455	10281545	58	13	44527	1.1168	0.13203	RRM2		
ENSG00000197653	12	124237042	124430753	560	73	45822	1.1167	0.13207	DNAH10		
ENSG00000172466	18	32902176	32935446	53	14	35550	1.1165	0.1321	ZNF24		
ENSG00000268864	19	54092882	54116751	79	19	44713	1.1164	0.13212	CTB-167G5.5		
ENSG00000106603	7	43638055	43779316	470	24	40590	1.1164	0.13213	COA1		
ENSG00000107742	10	73808793	73858790	142	20	35090	1.1162	0.13218	SPOCK2		
ENSG00000177548	16	28905742	28957847	68	17	38281	1.116	0.13221	RABEP2		
ENSG00000116221	1	54639714	54701137	155	34	49164	1.1155	0.13232	MRPL37		
ENSG00000234438	15	65359154	65382276	48	15	53358	1.1151	0.13241	KBTD13		
ENSG00000117090	1	160567890	160627085	204	42	42188	1.1148	0.13247	SLAMF1		
ENSG00000164941	8	95815539	95903974	314	27	55254	1.1147	0.13248	INTS8		
ENSG00000111863	6	11702287	11817279	367	60	38490	1.1141	0.13262	ADTRP		

ENSG00000167525	17	27020215	27048872	32	9	51612	1.1139	0.13266	PROCA1		
ENSG00000152128	2	135203330	135486570	768	89	38523	1.1135	0.13274	TMEM163		
ENSG00000134575	11	47250853	47280457	65	12	43935	1.1135	0.13274	ACP2		
ENSG00000104870	19	50000073	50039590	117	18	40034	1.1135	0.13275	FCGRT		
ENSG00000137675	11	102552218	102586537	185	26	44606	1.1134	0.13277	MMP27		
ENSG00000198925	2	220064494	220104439	70	14	41957	1.1132	0.13281	ATG9A		
ENSG00000087258	16	56215302	56401356	566	75	46270	1.1131	0.13283	GNAO1		
ENSG00000258817	11	49963943	49984971	98	14	42889	1.1124	0.13299	OR4C13		
ENSG00000204577	19	54710147	54756602	127	31	38894	1.1122	0.13303	LILRB3		
ENSG00000166046	12	106685707	106750793	186	25	48817	1.1121	0.13305	TCP11L2		
ENSG00000221946	19	35624154	35655204	76	24	50746	1.112	0.13307	FXYP7		
ENSG00000129810	3	20192085	20237784	182	23	42689	1.1119	0.13309	SGOL1		
ENSG00000134716	1	60348980	60402462	129	19	44992	1.1117	0.13313	CYP2J2		
ENSG00000272647	7	99146291	99215433	91	19	39608	1.1114	0.1332	GS1-259H13.10		
ENSG00000167513	16	88859621	88885666	149	26	46472	1.1114	0.1332	CDT1		
ENSG00000162975	2	11042063	11064350	82	24	42602	1.1113	0.13321	KCNF1		
ENSG00000115548	2	86657770	86729839	200	27	44685	1.1112	0.13324	KDM3A		
ENSG00000143878	2	20636835	20659200	53	18	54446	1.1112	0.13325	RHOB		
ENSG00000136935	9	127630646	127720771	151	17	54136	1.1111	0.13326	GOLGA1		
ENSG00000204486	1	13506066	13536943	4	1	42634	1.1111	0.13327	PRAMEF21		
ENSG00000241563	1	10499776	10521959	46	8	30972	1.1108	0.13332	CORT		
ENSG00000063438	5	294291	448406	598	66	38478	1.1106	0.13338	AHRR		
ENSG00000123609	2	152116979	152156571	171	15	42120	1.1104	0.13341	NMI		
ENSG00000122862	10	70837862	70874567	121	17	31622	1.1103	0.13343	SRGN		
ENSG00000124802	6	8063593	8112811	179	25	47960	1.11	0.13351	EEF1E1		
ENSG00000177535	1	247604255	247625308	202	27	48893	1.1099	0.13352	OR2B11		
ENSG00000173221	5	95077023	95168709	255	48	51190	1.1093	0.13366	GLRX		
ENSG00000105849	7	19725085	19758710	149	17	37186	1.1093	0.13366	TWISTNB		
ENSG00000107593	10	102037903	102100243	157	32	38333	1.1093	0.13366	PKD2L1		
ENSG00000197355	9	139961953	139988991	60	16	44585	1.1087	0.13377	UAP1L1		
ENSG00000109572	4	170523784	170654824	362	34	47185	1.1087	0.13378	CLCN3		
ENSG00000129559	14	24676058	24711660	49	14	40954	1.1081	0.1339	NEDD8		
ENSG00000198208	14	75360657	75400099	106	16	45410	1.108	0.13394	RPS6KL1		
ENSG00000124193	20	42076568	42102245	92	24	40920	1.1074	0.13405	SRSF6		
ENSG00000106246	7	99004362	99073787	125	19	35517	1.1072	0.1341	PTCD1		
ENSG00000230610	1	38282232	38303886	53	12	42250	1.1068	0.13419	AL929472.1		

ENSG00000255526	14	24673161	24711558	58	14	41967	1.1062	0.13432	NEDD8-MDP1		
ENSG00000273088	1	155131885	155169748	63	12	47497	1.1059	0.13439	RP11-201K10.3		
ENSG00000131738	17	39509746	39536052	55	14	41882	1.1056	0.13446	KRT33B		
ENSG00000104388	8	61419416	61546186	328	21	47046	1.1054	0.1345	RAB2A		
ENSG00000181626	18	12083852	12139748	205	14	38461	1.1052	0.13453	ANKRD62		
ENSG00000269155	6	168186210	168208927	121	17	40506	1.1052	0.13454	AL009178.1		
ENSG00000107959	10	3169920	3225003	352	30	48997	1.1047	0.13465	PITRM1		
ENSG00000119655	14	74932895	74970880	105	9	54110	1.1043	0.13473	NPC2		
ENSG00000172399	4	120046939	120118944	273	29	44289	1.1041	0.13477	MYOZ2		
ENSG00000137752	11	104886170	104982158	350	30	46615	1.1041	0.13477	CASP1		
ENSG00000263264	19	7403848	7458271	155	27	40332	1.1038	0.13484	CTB-133G6.1		
ENSG00000144445	2	210876147	211046107	155	30	46985	1.1035	0.1349	KANSL1L		
ENSG00000197147	1	89980395	90073423	263	25	39510	1.1032	0.13497	LRRC8B		
ENSG00000213920	14	24673143	24695276	41	10	42111	1.1031	0.13499	MDP1		
ENSG00000154415	7	113506832	113725975	438	23	38894	1.103	0.135	PPP1R3A		
ENSG00000116691	1	12069523	12102102	78	18	44335	1.103	0.13502	MIIP		
ENSG00000182272	11	359796	392116	161	29	38703	1.1028	0.13505	B4GALNT4		
ENSG00000147654	8	110541940	110588225	120	24	43267	1.1026	0.1351	EBAG9		
ENSG00000186118	1	47124527	47149266	50	7	37346	1.1026	0.13511	TEX38		
ENSG00000162843	1	241805580	241975435	702	84	50455	1.1025	0.13512	WDR64		
ENSG00000128655	2	178477980	178983066	2085	94	44881	1.1022	0.13519	PDE11A		
ENSG00000180875	1	240642873	240785449	446	105	45100	1.1019	0.13525	GREM2		
ENSG00000157470	15	59654892	59825748	569	77	44521	1.1019	0.13525	FAM81A		
ENSG00000135248	7	128339115	128381797	168	32	51572	1.1019	0.13526	FAM71F1		
ENSG00000165821	14	21979232	22015350	97	23	46060	1.1019	0.13526	SALL2		
ENSG00000167700	8	145724457	145746596	32	7	40840	1.101	0.13544	MFSD3		
ENSG00000205882	8	11840692	11863821	77	15	43370	1.1009	0.13547	DEFB134		
ENSG00000150990	12	125421371	125483668	363	47	44081	1.1008	0.1355	DHX37		
ENSG00000114554	3	126697437	126766235	258	32	43588	1.1006	0.13553	PLXNA1		
ENSG00000181649	11	2939503	2960685	55	17	39214	1.1005	0.13556	PHLDA2		
ENSG00000151150	10	61776056	62503248	2563	184	48915	1.1002	0.13562	ANK3		
ENSG00000145920	5	175213313	175321023	328	54	47079	1.1	0.13566	CPLX2		
ENSG00000138594	15	52111825	52249492	363	18	52172	1.0998	0.1357	TMOD3		
ENSG00000111641	12	6656029	6687857	52	14	40662	1.0998	0.13571	NOP2		
ENSG00000143603	1	154659931	154852756	570	125	46408	1.0997	0.13573	KCNN3		
ENSG00000171467	6	43264872	43347216	142	20	43671	1.0989	0.13591	ZNF318		

ENSG00000174990	16	87911625	87980135	371	56	40591	1.0985	0.13598	CA5A		
ENSG00000213402	11	67192981	67215538	39	8	36227	1.0985	0.13599	PTPRCAP		
ENSG00000149658	20	61816781	61857586	128	18	50856	1.0983	0.13605	YTHDF1		
ENSG00000095464	10	95362345	95435767	258	47	44427	1.0979	0.13612	PDE6C		
ENSG00000257315	1	203755437	203779686	80	8	35277	1.0974	0.13623	ZBED6		
ENSG00000012822	12	54094903	54131529	103	23	46929	1.0972	0.13627	CALCOCO1		
ENSG00000146197	6	35172190	35230856	114	18	34660	1.097	0.13632	SCUBE3		
ENSG00000217455	7	3169868	3224287	351	49	48822	1.097	0.13632	AC091801.1		
ENSG00000184451	17	40820907	40845935	37	10	51436	1.0968	0.13636	CCR10		
ENSG00000160957	8	145726667	145753229	39	8	40331	1.0964	0.13644	RECQL4		
ENSG00000108854	17	62528413	62668186	285	24	39324	1.0962	0.1365	SMURF2		
ENSG00000104435	8	80513049	80588410	259	38	46512	1.0961	0.13652	STMN2		
ENSG00000096088	6	41694449	41731847	111	35	49045	1.0959	0.13656	PGC		
ENSG00000188986	9	140139625	140177998	108	11	37352	1.0959	0.13656	NELFB		
ENSG00000187266	19	11478236	11505018	42	10	43669	1.0959	0.13657	EPOR		
ENSG00000272325	6	34237456	34370451	317	18	47152	1.0956	0.13663	NUDT3		
ENSG00000196104	4	167644535	168165947	1954	153	48737	1.0955	0.13666	SPOCK3		
ENSG00000221890	22	39204457	39249987	159	24	48182	1.0955	0.13666	NPTXR		
ENSG00000262526	17	7133746	7157954	29	6	55644	1.0953	0.13669	CTD-2545G14.7		
ENSG00000126432	11	64075560	64099283	35	11	42164	1.0953	0.1367	PRDX5		
ENSG00000183654	5	16057248	16190871	268	45	42964	1.0952	0.13672	Mar-11		
ENSG00000110080	11	126215535	126320239	301	59	45865	1.0948	0.1368	ST3GAL4		
ENSG00000154122	5	14694910	14881887	530	78	46521	1.0947	0.13682	ANKH		
ENSG00000268155	9	5067163	5094580	88	11	50321	1.0947	0.13682	AL161450.1		
ENSG00000125888	20	17664317	17726516	224	35	51253	1.0947	0.13682	BANF2		
ENSG00000248235	8	22436787	22469597	86	14	54469	1.0946	0.13684	AC037459.4		
ENSG00000187758	4	100187524	100222185	107	18	38286	1.0945	0.13687	ADH1A		
ENSG00000101144	20	55733804	55851685	415	50	45178	1.0945	0.13688	BMP7		
ENSG00000186130	9	125660335	125685609	55	18	42185	1.0944	0.13689	ZBTB6		
ENSG00000156398	10	104464295	104513249	116	19	43315	1.094	0.13699	SFXN2		
ENSG00000147421	8	28737911	28932281	270	32	43676	1.0938	0.13702	HMBBOX1		
ENSG00000145002	8	12272913	12303915	4	2	42704	1.0938	0.13703	FAM86B2		
ENSG00000112837	6	85387069	85484237	279	31	45400	1.0934	0.13711	TBX18		
ENSG00000171448	9	125667845	125703779	71	20	43573	1.0933	0.13713	ZBTB26		
ENSG00000136811	9	131207465	131273571	104	11	33790	1.0932	0.13715	ODF2		
ENSG00000013374	7	151028785	151085535	221	45	45355	1.0932	0.13716	NUB1		

ENSG00000236882	5	95177936	95205837	94	22	43555	1.0931	0.13717	C5orf27		
ENSG00000124795	6	18214099	18275054	144	22	35089	1.0931	0.13717	DEK		
ENSG00000123983	2	223715652	223819357	318	31	45939	1.093	0.1372	ACSL3		
ENSG00000106367	7	100787678	100814877	90	17	37421	1.0927	0.13727	AP1S1		
ENSG00000171130	7	149560057	149587784	132	13	42561	1.0926	0.13728	ATP6V0E2		
ENSG00000049883	5	71606194	71666052	67	13	36485	1.092	0.13741	PTCD2		
ENSG00000270466	16	30379755	30403863	41	9	41703	1.0919	0.13743	Sep-01		
ENSG00000167986	11	61056923	61120068	34	18	41611	1.0914	0.13754	DDB1		
ENSG00000169393	19	48487908	48538410	322	36	51143	1.0913	0.13756	ELSPBP1		
ENSG00000197070	9	140490106	140519812	68	11	47705	1.091	0.13764	ARRDC1		
ENSG00000105372	19	42353988	42386994	54	6	42939	1.0909	0.13765	RPS19		
ENSG00000126351	17	38204543	38260120	114	27	44968	1.0909	0.13766	THRA		
ENSG00000175550	11	65676728	65699032	43	12	39535	1.0907	0.13769	DRAP1		
ENSG00000174943	16	29906333	29948356	69	11	41991	1.0903	0.1378	KCTD13		
ENSG00000180209	16	30372255	30399312	42	9	41098	1.0902	0.13781	MYLPF		
ENSG00000151715	11	129675714	129739898	221	26	49456	1.0901	0.13782	TMEM45B		
ENSG00000165794	14	21457414	21480030	63	22	44730	1.0902	0.13782	SLC39A2		
ENSG00000175505	11	67121639	67151648	36	10	40032	1.09	0.13786	CLCF1		
ENSG00000172724	9	34679564	34701274	64	15	52874	1.0899	0.13789	CCL19		
ENSG00000216937	10	32725068	32873492	631	51	42733	1.0898	0.13791	CCDC7		
ENSG00000148730	10	72154135	72198374	94	15	44583	1.0896	0.13795	EIF4EBP2		
ENSG00000158941	8	22452145	22489027	131	13	46254	1.0893	0.138	CCAR2		
ENSG00000169570	5	118163017	118334240	391	49	43548	1.0891	0.13805	DTWD2		
ENSG00000130222	9	92209928	92231470	76	14	47310	1.0891	0.13805	GADD45G		
ENSG00000167588	12	50487602	50515102	52	10	38642	1.089	0.13807	GPD1		
ENSG00000183508	1	118138556	118180994	156	17	47364	1.0888	0.13812	FAM46C		
ENSG00000204252	6	32961955	32987389	236	39	40988	1.0888	0.13812	HLA-DOA		
ENSG00000159556	15	76619065	76644817	65	17	39177	1.0883	0.13823	ISL2		
ENSG00000147697	8	130750442	130809134	218	30	40495	1.0883	0.13824	GSDMC		
ENSG00000141076	16	69155194	69275033	277	39	54745	1.0882	0.13826	CIRH1A		
ENSG00000146021	5	136943189	137081779	315	35	49837	1.0881	0.13828	KLHL3		
ENSG00000120162	9	27315207	27539779	829	117	44613	1.0875	0.13842	MOB3B		
ENSG00000111321	12	6474211	6510733	103	28	39601	1.087	0.13852	LTBR		
ENSG00000152242	18	43743519	43856949	222	18	44300	1.087	0.13852	C18orf25		
ENSG00000214300	7	99895325	99929819	38	9	52447	1.0869	0.13853	SPDYE3		
ENSG00000163960	3	196064533	196169345	249	32	49367	1.0869	0.13854	UBXN7		

ENSG00000134028	8	24231798	24273526	61	13	46693	1.0868	0.13855	ADAMDEC1		
ENSG00000181761	11	55879849	55900787	163	7	56184	1.0866	0.1386	OR8H3		
ENSG00000139343	12	96242706	96307606	275	35	48585	1.0866	0.13861	SNRPF		
ENSG00000124733	6	42969832	42991706	61	13	37171	1.0865	0.13862	MEA1		
ENSG00000056487	22	45267042	45415880	595	85	41557	1.0865	0.13862	PHF21B		
ENSG00000204767	5	169281268	169417744	393	75	41147	1.0865	0.13863	FAM196B		
ENSG00000244462	20	34226847	34262878	99	12	35147	1.0863	0.13867	RBM12		
ENSG00000084731	2	26139471	26215618	207	36	44798	1.0862	0.13869	KIF3C		
ENSG00000236624	1	45949538	45975751	49	7	55250	1.0862	0.1387	CCDC163P		
ENSG00000117400	1	43793478	43828443	46	10	39219	1.086	0.13874	MPL		
ENSG00000119777	2	27245778	27274563	32	9	41292	1.086	0.13874	TMEM214		
ENSG00000204574	6	30529153	30574956	110	13	33912	1.086	0.13874	ABCF1		
ENSG00000155428	7	72420016	72449997	5	3	36248	1.0854	0.13888	TRIM74		
ENSG00000112186	6	17383447	17568023	499	76	45390	1.0853	0.13889	CAP2		
ENSG00000258740	14	75695319	75745986	130	30	38410	1.0853	0.13889	RP11-293M10.1		
ENSG00000108861	17	41833489	41866356	99	13	50586	1.0853	0.1389	DUSP3		
ENSG00000160862	7	99554343	99583780	67	12	49017	1.0851	0.13893	AZGP1		
ENSG00000171903	19	16013177	16055677	211	19	47959	1.0849	0.13899	CYP4F11		
ENSG00000166130	12	98997183	99048891	149	24	52889	1.0848	0.139	IKBIP		
ENSG00000100453	14	25090160	25113473	79	16	55267	1.0846	0.13904	GZMB		
ENSG00000105701	19	18632561	18664887	61	21	38045	1.0844	0.1391	FKBP8		
ENSG00000116337	1	110148726	110184673	84	23	41799	1.0842	0.13914	AMPD2		
ENSG00000177946	16	90026206	90048942	111	22	32678	1.084	0.13917	CENPBD1		
ENSG00000103550	16	19704902	19739557	76	9	41130	1.0838	0.13922	KNOP1		
ENSG00000114446	3	107869659	107951417	393	9	50729	1.0838	0.13923	IFT57		
ENSG00000198715	1	156249880	156275463	58	8	54597	1.0835	0.13929	C1orf85		
ENSG00000144231	2	128593840	128625731	102	16	42376	1.0831	0.13939	POLR2D		
ENSG00000172818	11	65544493	65574690	87	16	34258	1.0828	0.13944	OVOL1		
ENSG00000272781	14	47301134	48153999	2924	175	46716	1.0829	0.13944	MDGA2		
ENSG00000189292	2	269558	298851	62	11	50657	1.0824	0.13954	FAM150B		
ENSG00000127540	19	1587171	1615480	42	12	56013	1.0822	0.13958	UQCR11		
ENSG00000268791	4	6683782	6704189	74	21	36835	1.0818	0.13967	AC093323.1		
ENSG00000075151	1	21122963	21513377	941	53	49813	1.0818	0.13968	EIF4G3		
ENSG00000184486	6	99272580	99296660	62	12	54081	1.0816	0.13971	POU3F2		
ENSG00000162897	1	207121310	207153970	73	12	45145	1.0816	0.13972	FCAMR		
ENSG00000103248	16	86553782	86598841	180	31	50225	1.0816	0.13973	MTHFSD		

ENSG00000123154	19	12767614	12796646	47	17	41265	1.0815	0.13974	WDR83		
ENSG00000100625	14	61166246	61201066	42	8	47741	1.0813	0.13978	SIX4		
ENSG00000203485	14	105145943	105195942	210	38	46559	1.0808	0.13988	INF2		
ENSG00000086288	7	37878199	37950003	419	50	44135	1.0805	0.13995	NME8		
ENSG00000160703	11	119027277	119064725	49	13	35527	1.0805	0.13996	NLRX1		
ENSG00000105383	19	51718320	51757115	94	19	35068	1.0801	0.14006	CD33		
ENSG00000118690	6	109159619	109305186	432	50	45793	1.0799	0.1401	ARMC2		
ENSG00000070019	12	14755576	14859519	178	29	42853	1.0798	0.14012	GUCY2C		
ENSG00000260259	16	89739028	89762977	114	16	41815	1.0792	0.14024	RP11-368I7.4		
ENSG00000173679	9	125413845	125434927	45	16	43108	1.0792	0.14025	OR1L1		
ENSG00000170074	5	177124982	177220399	98	16	39328	1.0792	0.14026	FAM153A		
ENSG00000178665	7	55945169	56019918	241	31	52934	1.0786	0.14039	ZNF713		
ENSG00000248835	1	54625333	54647997	62	18	50759	1.0784	0.14043	AL357673.1		
ENSG00000272897	20	34210262	34272466	185	16	34674	1.0775	0.14062	RP1-309K20.6		
ENSG00000116260	1	180113969	180183165	289	38	39935	1.0773	0.14067	QSOX1		
ENSG00000124134	20	43710951	43739753	75	18	41691	1.0773	0.14067	KCNS1		
ENSG00000134516	5	169054251	169520386	1627	179	40630	1.0773	0.14068	DOCK2		
ENSG00000145908	5	150263954	150294545	108	10	32150	1.0772	0.1407	ZNF300		
ENSG00000165953	14	94943611	94994181	201	43	47415	1.0768	0.14079	SERPINA12		
ENSG00000081307	3	132363290	132406941	59	14	37629	1.0767	0.14081	UBA5		
ENSG00000167419	17	56285909	56355879	125	27	48259	1.0763	0.14089	LPO		
ENSG00000268781	4	3501523	3521678	151	20	54720	1.076	0.14097	AL590235.1		
ENSG00000172236	16	1280697	1302555	89	17	45968	1.0758	0.14101	TPSAB1		
ENSG00000163472	1	156242726	156272976	73	8	54609	1.0757	0.14103	TMEM79		
ENSG00000132002	19	14615582	14650582	113	19	47130	1.0756	0.14104	DNAJB1		
ENSG00000134070	3	10196549	10295427	315	49	36132	1.0756	0.14105	IRAK2		
ENSG00000134668	1	32246023	32291652	93	19	45063	1.0755	0.14107	SPOCD1		
ENSG00000138385	2	170638443	170678574	174	24	48670	1.0755	0.14107	SSB		
ENSG00000182087	19	999647	1031117	275	45	50772	1.0753	0.14112	TMEM259		
ENSG00000151615	4	147550045	147573626	73	10	32564	1.0748	0.14123	POU4F2		
ENSG00000176230	14	20575566	20596597	65	14	53025	1.0747	0.14124	OR4K17		
ENSG00000203797	6	110702974	110746765	195	36	44639	1.0747	0.14125	DDO		
ENSG00000135436	12	49966668	50009422	73	13	39273	1.0744	0.14131	FAM186B		
ENSG00000204179	10	46539955	46651045	2	1	42531	1.0742	0.14136	PTPN20A		
ENSG00000139915	14	47298826	48154157	2929	174	46719	1.0742	0.14137	MDGA2		
ENSG00000179954	19	55989771	56040465	259	45	44952	1.0739	0.14143	SSC5D		

ENSG00000170049	17	7815177	7843121	74	15	46024	1.0738	0.14145	KCNAB3		
ENSG00000164543	7	43612357	43676385	215	17	41712	1.0736	0.14149	STK17A		
ENSG00000204956	5	140700252	140902546	558	65	43995	1.0735	0.14152	PCDHGA1		
ENSG00000146963	7	139015105	139118198	371	13	30301	1.0733	0.14157	C7orf55-LUC7L2		
ENSG00000049656	5	1307859	1355214	155	21	40299	1.073	0.14164	CLPTM1L		
ENSG00000005187	16	20611565	20818903	573	43	34845	1.073	0.14164	ACSM3		
ENSG00000011009	1	24107460	24132029	20	8	49508	1.0729	0.14166	LYPLA2		
ENSG00000139351	12	102112426	102143250	68	17	46012	1.0729	0.14166	SYCP3		
ENSG00000214160	3	183950089	183977336	55	12	53168	1.0727	0.14171	ALG3		
ENSG00000170088	4	165985574	166139701	601	49	32181	1.0727	0.14171	TMEM192		
ENSG00000140511	15	89410519	89448857	158	25	48072	1.0726	0.14172	HAPLN3		
ENSG00000152818	6	144596837	145184170	1290	127	40971	1.0726	0.14174	UTRN		
ENSG00000262302	17	7140148	7175408	55	9	55688	1.0725	0.14176	RP1-4G17.5		
ENSG00000214078	20	34203953	34262878	162	15	34538	1.0723	0.14179	CPNE1		
ENSG00000105989	7	116906685	116973343	171	35	43677	1.0722	0.14182	WNT2		
ENSG00000005108	7	11399984	11881824	2067	186	47450	1.072	0.14186	THSD7A		
ENSG00000169957	16	30525325	30548142	19	10	39885	1.072	0.14186	ZNF768		
ENSG00000196549	3	154731913	154911497	452	69	42633	1.0717	0.14193	MME		
ENSG00000189030	1	156258415	156279428	49	8	55577	1.0714	0.14198	VHLL		
ENSG00000164056	4	124307950	124334910	83	22	42151	1.0709	0.1421	SPRY1		
ENSG00000100429	22	50673612	50699834	122	18	37469	1.0704	0.14222	HDAC10		
ENSG00000100239	22	50771733	50893514	469	50	43540	1.0698	0.14234	PPP6R2		
ENSG00000172538	10	50329199	50352053	140	19	43112	1.0698	0.14236	FAM170B		
ENSG00000116120	2	223425255	223531056	305	35	43483	1.0696	0.14241	FARSB		
ENSG00000183269	11	5867904	5888964	139	10	48208	1.0695	0.14242	OR52E8		
ENSG00000188026	12	123945925	124028265	254	35	44399	1.0694	0.14245	RILPL1		
ENSG00000180113	6	46645612	46682056	43	14	43526	1.0692	0.14248	TDRD6		
ENSG00000197442	6	136868185	137123656	522	67	41340	1.0693	0.14248	MAP3K5		
ENSG00000089818	12	8224807	8260367	60	18	36667	1.0692	0.14248	NECAP1		
ENSG00000196151	2	160082304	160153310	332	27	25314	1.069	0.14253	WDSUB1		
ENSG00000113761	5	176439697	176518190	240	26	41298	1.069	0.14254	ZNF346		
ENSG00000221990	5	431645	453258	110	14	29903	1.0686	0.14263	C5orf55		
ENSG00000204991	16	89874587	89947727	292	31	42833	1.0686	0.14263	SPIRE2		
ENSG00000140030	14	88461468	88488419	97	15	48572	1.0685	0.14264	GPR65		
ENSG00000065518	3	120305156	120331347	124	16	48661	1.0682	0.14271	NDUFB4		
ENSG00000171989	15	59489042	59510705	109	16	38110	1.068	0.14276	LDHAL6B		

ENSG00000204290	6	32351740	32384905	516	29	48773	1.0675	0.14288	<i>BTNL2</i>		
ENSG00000140526	15	89620690	89755591	341	49	50498	1.0675	0.14288	<i>ABHD2</i>		
ENSG00000179862	1	41316729	41338018	95	25	42230	1.0674	0.14289	<i>CITED4</i>		
ENSG00000034713	16	75590249	75621779	50	9	35563	1.0674	0.14289	<i>GABARAPL2</i>		
ENSG00000180043	19	55856276	55884628	85	22	43473	1.0674	0.14289	<i>FAM71E2</i>		
ENSG00000129472	14	21917179	21955132	113	16	40296	1.0671	0.14296	<i>RAB2B</i>		
ENSG00000131899	17	18118901	18158189	93	14	51478	1.0671	0.14296	<i>LLGL1</i>		
ENSG00000143761	1	228260361	228296912	51	15	50328	1.0667	0.14305	<i>ARF1</i>		
ENSG00000151502	11	134084539	134127686	89	24	48832	1.0663	0.14313	<i>VPS26B</i>		
ENSG00000133216	1	23027332	23251818	469	84	37081	1.0663	0.14315	<i>EPHB2</i>		
ENSG00000010626	12	6972733	7033407	140	10	30554	1.0662	0.14317	<i>LRRC23</i>		
ENSG00000159289	15	74352198	74384891	22	13	46545	1.066	0.14321	<i>GOLGA6A</i>		
ENSG00000173805	17	39863994	39900896	146	16	38809	1.0658	0.14326	<i>HAP1</i>		
ENSG00000082196	5	34009553	34053937	129	16	32693	1.0657	0.14328	<i>C1QTNF3</i>		
ENSG00000172428	2	241055980	241086224	202	23	51086	1.0656	0.1433	<i>MYEOV2</i>		
ENSG00000151224	10	82021576	82059440	144	24	43458	1.0649	0.14345	<i>MAT1A</i>		
ENSG00000167635	19	36695504	36739676	149	14	53867	1.0649	0.14346	<i>ZNF146</i>		
ENSG00000115091	2	114637537	114730173	313	29	35652	1.0647	0.14351	<i>ACTR3</i>		
ENSG00000099994	22	24567227	24595078	73	18	46349	1.0645	0.14354	<i>SUSD2</i>		
ENSG00000111704	12	7930390	7958655	199	19	38762	1.0645	0.14355	<i>NANOG</i>		
ENSG00000173113	11	64073932	64095556	31	10	41683	1.0645	0.14356	<i>TRMT112</i>		
ENSG00000154319	8	11268972	11342224	446	60	45532	1.0643	0.14359	<i>FAM167A</i>		
ENSG00000105131	19	15327730	15354246	29	16	47707	1.0642	0.14362	<i>EPHX3</i>		
ENSG00000160602	17	27042915	27080473	65	15	45076	1.064	0.14366	<i>NEK8</i>		
ENSG00000181982	4	24797739	24991826	619	81	42732	1.0635	0.14378	<i>CCDC149</i>		
ENSG00000269955	7	139016106	139117345	369	13	30155	1.0635	0.14378	<i>LUC7L2</i>		
ENSG00000255221	11	104953196	104982158	97	10	50115	1.0633	0.14382	<i>CARD17</i>		
ENSG00000123243	10	7591232	7718961	526	97	48355	1.0633	0.14383	<i>ITIH5</i>		
ENSG00000181192	10	12100971	12175224	259	30	37089	1.0633	0.14383	<i>DHTKD1</i>		
ENSG00000205669	14	74067649	74096592	125	20	40263	1.063	0.14388	<i>ACOT6</i>		
ENSG00000187600	2	46646329	46721564	231	25	47112	1.063	0.14389	<i>TMEM247</i>		
ENSG00000160781	1	156203206	156227881	52	17	53615	1.0622	0.14407	<i>PAQR6</i>		
ENSG00000108582	17	28695923	28807007	178	15	42279	1.062	0.14411	<i>CPD</i>		
ENSG00000255302	15	49160083	49182380	60	14	36461	1.0617	0.14418	<i>EID1</i>		
ENSG00000079950	6	132757006	132844337	289	46	40504	1.0614	0.14425	<i>STX7</i>		
ENSG00000146215	6	43257448	43286535	58	12	40463	1.0605	0.14445	<i>CRIP3</i>		

ENSG00000142347	19	8575674	8652461	238	42	41378	1.0605	0.14446	MYO1F		
ENSG00000164967	9	34600483	34622101	42	11	49768	1.0604	0.14448	RPP25L		
ENSG00000036672	11	119215925	119262436	113	14	53307	1.0604	0.14448	USP2		
ENSG00000099337	19	38800484	38829660	112	16	51725	1.0604	0.14448	KCNK6		
ENSG00000162572	1	1205816	1237409	100	24	41177	1.0603	0.14449	SCNN1D		
ENSG00000131979	14	55298726	55379570	274	28	43771	1.0603	0.1445	GCH1		
ENSG00000204315	6	32086484	32108068	56	20	40848	1.0601	0.14456	FKBPL		
ENSG00000211448	14	80653873	80864100	466	60	40537	1.0601	0.14456	DIO2		
ENSG00000128590	7	108200012	108225294	75	14	40131	1.0599	0.14459	DNAJB9		
ENSG00000167807	19	10406103	10436685	109	22	45485	1.0598	0.14463	CTD-2369P2.10		
ENSG00000267673	19	10406103	10436691	109	22	45485	1.0598	0.14463	FDX1L		
ENSG00000198336	17	45267812	45311045	106	26	51842	1.0595	0.14468	MYL4		
ENSG00000139610	12	51712227	51750463	113	21	45371	1.0594	0.14471	CELA1		
ENSG00000175387	18	45347922	45467515	270	19	48088	1.0593	0.14472	SMAD2		
ENSG00000171492	1	90276573	90412170	218	52	50416	1.0593	0.14473	LRRC8D		
ENSG00000168228	4	25304407	25382005	258	31	38423	1.0591	0.14477	ZCCHC4		
ENSG00000182329	2	202927978	203072585	395	49	49943	1.0591	0.14478	AC079354.1		
ENSG00000080618	13	46617321	46689211	235	17	52207	1.0589	0.14482	CPB2		
ENSG00000204305	6	32138745	32162101	70	18	45499	1.0587	0.14487	AGER		
ENSG00000068489	17	57222860	57292066	127	20	40374	1.0587	0.14487	PRR11		
ENSG00000180353	3	121340246	121389774	144	18	48536	1.0583	0.14496	HCLS1		
ENSG00000143797	2	8982820	9153942	320	34	47839	1.0582	0.14498	MBOAT2		
ENSG00000169006	2	11788304	11820290	119	31	47530	1.0578	0.14507	NTSR2		
ENSG00000149212	11	94888704	94975705	124	20	52206	1.0577	0.14509	SESN3		
ENSG00000079462	19	42791185	42817698	22	4	50681	1.0575	0.14513	PAFAH1B3		
ENSG00000162378	1	53182126	53303014	291	25	31202	1.0575	0.14514	ZYG11B		
ENSG00000145198	3	183938217	183970117	77	13	51627	1.0573	0.14518	VWA5B2		
ENSG00000166855	15	65430557	65487680	57	15	39686	1.057	0.14525	CLPX		
ENSG00000255837	12	11139094	11160474	128	6	23481	1.0569	0.14527	TAS2R20		
ENSG00000139323	12	89803495	89929801	356	25	55483	1.0569	0.14529	POC1B		
ENSG00000143365	1	151768547	151814348	103	28	48732	1.0567	0.14532	RORC		
ENSG00000121578	3	118920579	118969950	214	30	50421	1.0567	0.14533	B4GALT4		
ENSG00000160408	9	130637600	130677687	83	32	44942	1.0566	0.14534	ST6GALNAC6		
ENSG00000111331	12	113366157	113421054	193	20	39966	1.0566	0.14534	OAS3		
ENSG00000170835	9	135927365	135957248	62	17	37566	1.0566	0.14535	CEL		
ENSG00000123472	1	47088409	47149539	124	11	38846	1.0566	0.14536	ATPAF1		

ENSG00000174059	1	208047594	208094747	175	31	36352	1.0565	0.14536	CD34		
ENSG00000159915	19	44744318	44789470	98	11	34067	1.0565	0.14537	ZNF233		
ENSG00000092531	15	42773431	42847547	123	18	40543	1.0563	0.14542	SNAP23		
ENSG00000178460	8	67772984	67844283	101	15	44193	1.0559	0.1455	MCMDC2		
ENSG00000171987	11	4582653	4609050	180	40	42067	1.0559	0.14551	C11orf40		
ENSG00000179055	9	107446660	107467766	85	14	37714	1.0557	0.14555	OR13D1		
ENSG00000197768	9	140135713	140157934	76	10	39654	1.0555	0.1456	C9orf173		
ENSG00000118193	1	200510628	200599862	373	39	46111	1.0553	0.14565	KIF14		
ENSG00000250641	6	31664681	31695695	76	20	28979	1.0548	0.14576	MEGT1		
ENSG00000144837	3	119306689	119358658	197	26	41509	1.0546	0.14581	PLA1A		
ENSG00000121905	1	33341595	33374042	42	13	54458	1.0544	0.14585	HPCA		
ENSG00000175573	11	65674279	65696588	42	12	38061	1.0544	0.14585	C11orf68		
ENSG00000236311	10	102839078	102900883	199	30	51281	1.0542	0.1459	TLX1NB		
ENSG00000174628	16	19717778	19878907	314	30	40712	1.0539	0.14595	IQCK		
ENSG00000179152	3	44369611	44460943	207	19	44638	1.0537	0.14601	TCAIM		
ENSG00000161807	19	9215274	9236439	137	11	36954	1.0536	0.14602	OR7G1		
ENSG00000172725	11	67195519	67221292	44	10	36934	1.0533	0.14611	CORO1B		
ENSG00000197256	19	11264943	11318467	218	30	49465	1.0531	0.14614	KANK2		
ENSG00000163956	4	3498103	3544286	270	31	54519	1.0531	0.14615	LRPAP1		
ENSG00000065325	17	9715523	9805419	367	34	28512	1.0525	0.14628	GLP2R		
ENSG00000010327	3	52519354	52568511	91	19	49060	1.0525	0.14629	STAB1		
ENSG00000185798	3	196271056	196305545	85	13	48966	1.0524	0.14631	WDR53		
ENSG00000167978	16	2792330	2832539	54	17	41946	1.0524	0.14632	SRRM2		
ENSG00000159200	21	35875440	35997441	567	42	38683	1.0521	0.14637	RCAN1		
ENSG00000137767	15	45913346	45993492	374	50	44844	1.052	0.1464	SQRDL		
ENSG00000131459	5	179717690	179790387	380	49	49763	1.0517	0.14648	GFPT2		
ENSG00000128849	15	57658165	57852925	875	123	42903	1.0513	0.14655	CGNL1		
ENSG00000213853	16	10612279	10684555	349	73	40107	1.0512	0.14659	EMP2		
ENSG00000164708	7	44092326	44115186	69	10	51637	1.0509	0.14665	PGAM2		
ENSG00000176771	2	133419374	134336034	2489	272	46083	1.0509	0.14666	NCKAP5		
ENSG00000149600	20	31280493	31341803	212	15	47715	1.0503	0.14678	COMMD7		
ENSG00000164294	5	54445946	54472899	67	8	56444	1.0503	0.14679	GPX8		
ENSG00000120913	8	22425792	22465538	94	19	50232	1.0501	0.14682	PDLIM2		
ENSG00000069869	15	56109120	56295944	848	50	52998	1.0501	0.14683	NEDD4		
ENSG00000141433	18	894944	922173	109	31	45932	1.0501	0.14685	ADCYAP1		
ENSG00000126107	1	45458212	45487001	80	12	49512	1.05	0.14686	HECTD3		

ENSG00000123240	10	13131449	13190291	189	41	45637	1.05	0.14686	OPTN		
ENSG00000166165	14	103975996	103999448	61	11	44599	1.05	0.14686	CKB		
ENSG00000091164	18	54254439	54328831	167	21	42962	1.05	0.14686	TXNL1		
ENSG00000181767	11	55862519	55883457	179	7	55570	1.0499	0.14688	OR8H2		
ENSG00000064666	19	1016298	1049068	226	48	49311	1.0496	0.14694	CNN2		
ENSG00000095066	19	12863817	12993554	324	37	38283	1.0492	0.14704	HOOK2		
ENSG00000143862	1	202092532	202123869	89	28	43440	1.0491	0.14706	ARL8A		
ENSG00000180347	7	31543704	31708334	603	55	47672	1.0491	0.14706	CCDC129		
ENSG00000179761	17	27267531	27394234	234	49	47384	1.049	0.14709	PIPOX		
ENSG00000120262	6	151805165	151952328	638	76	42195	1.0486	0.14718	CCDC170		
ENSG00000196670	5	180264611	180298286	148	17	42194	1.0485	0.14721	ZFP62		
ENSG00000111642	12	6669249	6726642	94	11	36925	1.0485	0.14722	CHD4		
ENSG00000140694	16	14519558	14736585	388	39	51661	1.0482	0.14727	PARN		
ENSG00000133114	13	45553687	45617746	169	22	32612	1.0481	0.14731	GPALPP1		
ENSG00000141150	17	34048668	34080540	94	25	48343	1.048	0.14732	RASL10B		
ENSG00000114395	3	50378126	50405891	16	8	53035	1.0476	0.1474	CYB561D2		
ENSG00000059122	16	2951938	3011209	357	51	46602	1.0474	0.14745	FLYWCH1		
ENSG00000112039	6	35410138	35444880	121	20	29091	1.0474	0.14746	FANCE		
ENSG00000169714	3	128878327	128912765	41	16	45927	1.047	0.14754	CNBP		
ENSG00000264324	2	74428731	74600504	274	45	31294	1.0467	0.14762	RP11-287D1.3		
ENSG00000123836	1	207212801	207264369	83	15	47234	1.0464	0.14769	PFKFB2		
ENSG00000204822	2	74689085	74710449	17	11	50515	1.0456	0.14788	MRPL53		
ENSG00000158457	7	128774712	128818671	143	22	54063	1.0455	0.14789	TSPAN33		
ENSG00000145476	4	187102674	187144610	212	25	45991	1.0454	0.14791	CYP4V2		
ENSG00000137513	11	78137007	78295919	393	19	33698	1.045	0.14801	NARS2		
ENSG00000181885	17	7153222	7177302	49	9	54288	1.045	0.14802	CLDN7		
ENSG00000146143	6	57169603	57523375	693	76	39586	1.0444	0.14816	PRIM2		
ENSG00000155850	5	149330300	149383018	96	19	45879	1.0443	0.14817	SLC26A2		
ENSG00000113140	5	151030657	151076726	111	21	36185	1.0442	0.14819	SPARC		
ENSG00000050405	12	50559571	50687329	187	14	37787	1.0442	0.1482	LIMA1		
ENSG00000100079	22	37956255	37988623	115	24	35921	1.0439	0.14826	LGALS2		
ENSG00000174939	16	29901696	29941185	68	13	44988	1.0438	0.14828	ASPHD1		
ENSG00000118491	6	144175573	144269483	243	38	47777	1.0437	0.14832	ZC2HC1B		
ENSG00000173976	19	3759087	3782233	81	23	45705	1.0436	0.14833	RAX2		
ENSG00000162522	1	33197486	33250571	86	21	54024	1.0435	0.14835	KIAA1522		
ENSG00000171936	19	15842203	15863153	90	9	47880	1.0435	0.14835	OR10H3		

ENSG00000198704	6	28461073	28505992	136	22	36866	1.0433	0.14839	GPX6		
ENSG00000251357	22	24194375	24247410	226	41	45471	1.0431	0.14846	AP000350.10		
ENSG00000151577	3	113837499	113928254	283	45	44283	1.0427	0.14853	DRD3		
ENSG00000171044	8	10743555	11068875	1231	63	39709	1.0425	0.14858	XKR6		
ENSG00000184743	11	63381559	63449393	110	15	48146	1.0424	0.14861	ATL3		
ENSG00000132122	1	48751044	48947845	403	51	47561	1.0422	0.14865	SPATA6		
ENSG00000164113	4	123290121	123360957	146	25	41784	1.0421	0.14867	ADAD1		
ENSG00000050820	16	75252928	75311951	284	33	47661	1.0422	0.14867	BCAR1		
ENSG00000198399	2	24415733	24593583	516	25	51917	1.042	0.14872	ITSN2		
ENSG00000164402	5	132076509	132152933	65	25	43161	1.0419	0.14873	Sep-08		
ENSG00000092931	17	74721947	74787531	45	20	44662	1.0418	0.14875	MFSD11		
ENSG00000205693	12	27905671	27934209	117	8	41443	1.0416	0.14881	MANSC4		
ENSG00000188676	8	39782133	39883910	556	56	49033	1.0412	0.1489	IDO2		
ENSG00000117507	1	171096879	171140707	210	27	47697	1.0411	0.14891	FMO6P		
ENSG00000132661	20	23321373	23345414	83	13	37376	1.0411	0.14892	NXT1		
ENSG00000106785	9	100821557	100891494	143	24	39283	1.0405	0.14905	TRIM14		
ENSG00000273154	20	62330216	62380456	161	13	39475	1.0405	0.14905	RP4-583P15.15		
ENSG00000169217	16	30352087	30376682	33	10	24643	1.0405	0.14906	CD2BP2		
ENSG00000203795	10	124660217	124682627	59	9	54120	1.0402	0.14912	FAM24A		
ENSG00000188033	19	12678775	12760912	196	19	29092	1.04	0.14916	ZNF490		
ENSG00000159217	17	47064774	47143012	161	24	53007	1.0399	0.14919	IGF2BP1		
ENSG00000213339	19	10802106	10834113	84	14	53974	1.0399	0.1492	QTRT1		
ENSG00000151572	12	101101304	101532419	1451	163	51247	1.0398	0.14921	ANO4		
ENSG00000203863	6	89664246	89686685	50	17	51114	1.0391	0.14937	AL079342.1		
ENSG00000076513	12	110426991	110487568	131	20	39282	1.0391	0.14938	ANKRD13A		
ENSG00000056050	4	170640616	170689104	122	31	44890	1.0389	0.14942	C4orf27		
ENSG00000177511	18	55008044	55048962	82	13	34625	1.0389	0.14942	ST8SIA3		
ENSG00000204464	1	15480840	15507813	123	18	48334	1.0388	0.14944	C1orf195		
ENSG00000127152	14	99625624	99747861	271	54	36722	1.0388	0.14944	BCL11B		
ENSG00000162300	11	64841695	64865870	49	12	40934	1.0388	0.14945	ZFPL1		
ENSG00000255561	11	111734780	111761967	65	10	41636	1.0387	0.14947	FDXACB1		
ENSG00000197093	7	99746867	99776373	39	8	48611	1.0386	0.14949	GAL3ST4		
ENSG00000115155	2	26670071	26791566	379	65	37579	1.0386	0.1495	OTOF		
ENSG00000197114	20	62328817	62377494	146	11	37998	1.0386	0.1495	ZGPAT		
ENSG00000163515	3	108452271	108486231	110	15	42763	1.0386	0.14951	RETNLB		
ENSG00000072609	12	133388773	133542890	484	43	45990	1.0385	0.14953	CHFR		

ENSG00000153404	5	130373	200085	287	26	28426	1.0383	0.14957	PLEKHG4B		
ENSG00000100578	14	58884103	59025216	165	39	51553	1.0383	0.14957	KIAA0586		
ENSG00000125895	20	1151205	1176059	52	25	47729	1.0381	0.14962	TMEM74B		
ENSG00000178449	12	50495762	50524240	61	8	38218	1.0374	0.14977	COX14		
ENSG00000197647	19	12115547	12156556	76	11	37271	1.0374	0.14978	ZNF433		
ENSG00000214929	9	84593687	84620171	34	13	45290	1.0372	0.14981	SPATA31D1		
ENSG00000113649	5	145816874	145901524	217	20	38002	1.0372	0.14982	TCERG1		
ENSG00000132664	20	18437771	18475287	122	24	44412	1.0372	0.14983	POLR3F		
ENSG00000011295	17	15892694	15958329	167	17	42133	1.0367	0.14994	TTC19		
ENSG00000089351	19	35475688	35527375	176	23	44970	1.0366	0.14997	GRAMD1A		
ENSG00000105669	19	19000323	19040206	102	20	40225	1.0365	0.14999	COPE		
ENSG00000014641	2	63805743	63844331	67	11	39381	1.0364	0.15001	MDH1		
ENSG00000111049	12	81100691	81123452	39	10	36480	1.0355	0.15021	MYF5		
ENSG00000157800	7	139983493	140114233	574	83	48485	1.0354	0.15023	SLC37A3		
ENSG00000136521	3	179312478	179355435	81	13	47037	1.0352	0.15028	NDUFB5		
ENSG00000100575	14	58865212	58904332	32	10	45808	1.0353	0.15028	TIMM9		
ENSG00000184674	22	24366133	24394680	4	2	42982	1.0351	0.15032	GSTT1		
ENSG00000183166	7	71234476	71922136	2223	142	37382	1.0349	0.15035	CALN1		
ENSG00000107669	10	123489939	123698316	804	67	39994	1.0348	0.15037	ATE1		
ENSG00000198033	13	19737910	19765992	240	27	48087	1.0348	0.15037	TUBA3C		
ENSG00000156172	8	96247147	96291429	238	30	56308	1.0345	0.15044	C8orf37		
ENSG00000183653	21	30958360	31013067	198	29	41365	1.0344	0.15048	GRIK1-AS2		
ENSG00000070367	14	57660518	57745726	117	17	34363	1.0342	0.15053	EXOC5		
ENSG00000196917	12	123094824	123225390	373	42	39679	1.0338	0.1506	HCAR1		
ENSG00000142694	1	36777632	36799755	40	12	40294	1.0338	0.15062	EVA1B		
ENSG00000186298	12	111147485	111190744	112	16	37740	1.0337	0.15064	PPP1CC		
ENSG00000070886	1	22880057	22940087	262	45	48738	1.0336	0.15065	EPHA8		
ENSG00000135407	12	58181159	58222487	52	12	38099	1.0331	0.15079	AVIL		
ENSG00000141026	17	17370300	17406540	82	16	28778	1.0329	0.15084	MED9		
ENSG00000163344	1	154887210	154919467	67	12	32137	1.0328	0.15085	PMVK		
ENSG00000267976	21	37848165	37870058	104	20	40444	1.0328	0.15086	AP000695.1		
ENSG00000112592	6	170853390	170891958	121	13	54150	1.0327	0.15087	TBP		
ENSG00000058063	3	182501288	182649423	337	22	44184	1.0327	0.15088	ATP11B		
ENSG00000137106	9	37412663	37446987	82	19	46037	1.0326	0.1509	GRHPR		
ENSG00000151773	13	44388045	44463827	336	34	40234	1.0326	0.1509	CCDC122		
ENSG00000132570	5	134230596	134353649	203	37	41624	1.0322	0.15099	PCBD2		

ENSG00000267531	19	55841254	55866561	83	18	47724	1.032	0.15103	AC020922.1		
ENSG00000198610	10	5227425	5270912	308	22	42428	1.0316	0.15112	AKR1C4		
ENSG00000197415	3	156967531	157261408	909	82	47941	1.0314	0.15117	VEPH1		
ENSG00000125144	16	56690643	56711977	113	32	42854	1.0312	0.15122	MT1G		
ENSG00000125386	4	2616988	2744292	381	38	45291	1.031	0.15128	FAM193A		
ENSG00000140876	16	77746411	77786157	318	36	43806	1.0309	0.15129	NUDT7		
ENSG00000104918	19	7723930	7745334	61	26	45658	1.0308	0.15131	RETN		
ENSG00000105655	19	18535198	18559111	44	7	37927	1.0307	0.15135	ISYNA1		
ENSG00000269686	2	133864577	133886625	94	12	30216	1.0306	0.15137	AC011755.1		
ENSG00000157303	9	95810989	95857420	158	24	43087	1.0305	0.15138	SUSD3		
ENSG00000125954	14	65371203	65538521	494	64	40658	1.0305	0.15139	CHURC1-FNTB		
ENSG00000184898	2	152094454	152128393	81	12	30251	1.0301	0.15149	RBM43		
ENSG00000120798	12	95404005	95477479	221	32	51023	1.0299	0.15153	NR2C1		
ENSG00000184394	14	20601895	20622821	62	13	53453	1.0298	0.15155	OR4N5		
ENSG00000114349	3	50219045	50243949	40	11	31795	1.0297	0.15157	GNAT1		
ENSG00000113722	5	149536358	149574120	112	22	48619	1.0297	0.15157	CDX1		
ENSG00000039560	5	34646342	34842732	699	111	46336	1.0296	0.1516	RAI14		
ENSG00000030304	9	113421051	113573859	503	74	45228	1.0293	0.15166	MUSK		
ENSG00000124222	20	57216328	57264582	109	24	47482	1.0291	0.15171	STX16		
ENSG00000134318	2	11309887	11498456	563	35	41434	1.0291	0.15173	ROCK2		
ENSG00000101311	20	6045492	6114191	329	41	46195	1.029	0.15173	FERMT1		
ENSG00000133318	11	63438918	63537363	134	17	50280	1.029	0.15175	RTN3		
ENSG00000178796	1	151672909	151712281	81	17	42203	1.0283	0.1519	RIIAD1		
ENSG00000162894	1	207067731	207106592	78	16	35202	1.0283	0.15192	FAIM3		
ENSG00000071655	19	1566639	1602882	50	16	51011	1.028	0.15198	MBD3		
ENSG00000175728	11	130532851	130597247	113	29	41301	1.0279	0.152	C11orf44		
ENSG00000151952	12	129546270	130398211	3425	383	46300	1.0275	0.15209	TMEM132D		
ENSG00000182871	21	46815052	46943634	658	84	43650	1.0275	0.15209	COL18A1		
ENSG00000183828	14	105629275	105657660	67	8	53737	1.0272	0.15215	NUDT14		
ENSG00000204420	6	31676371	31704491	60	17	28230	1.0272	0.15216	C6orf25		
ENSG00000111846	6	10482456	10639601	605	81	42200	1.0272	0.15217	GCNT2		
ENSG00000119599	14	73383040	73436411	238	33	49705	1.0271	0.15218	DCAF4		
ENSG00000105974	7	116154839	116211233	173	23	51003	1.0271	0.15219	CAV1		
ENSG00000272214	12	121397641	121420095	86	18	52976	1.0271	0.15219	AC079602.1		
ENSG00000182566	19	7783843	7808792	105	20	38805	1.0265	0.15232	CLEC4G		
ENSG00000166073	15	40081233	40223093	334	56	41398	1.0265	0.15233	GPR176		

ENSG00000184014	11	9150372	9296937	360	34	46552	1.0257	0.15251	DENND5A		
ENSG00000257365	14	65371203	65539368	496	64	40636	1.0257	0.15251	FNTB		
ENSG00000108309	17	42375781	42406039	64	14	32782	1.0257	0.15251	RUNDC3A		
ENSG00000126247	19	36620477	36651255	104	29	49445	1.0256	0.15254	CAPNS1		
ENSG00000128313	22	36103919	36135530	147	18	41433	1.0255	0.15257	APOL5		
ENSG00000129048	3	132306081	132347811	90	17	41500	1.0254	0.15258	ACKR4		
ENSG00000188223	19	36226579	36255420	77	15	47479	1.0252	0.15264	AC002398.9		
ENSG00000152102	2	131795449	131861033	94	11	39082	1.0251	0.15265	FAM168B		
ENSG00000162877	1	205787150	205829260	124	30	35675	1.0249	0.1527	PM20D1		
ENSG00000121933	1	112015970	112116584	308	57	41594	1.0246	0.15277	ADORA3		
ENSG00000146476	6	151763422	151801236	142	21	39898	1.0245	0.1528	C6orf211		
ENSG00000138002	2	27657238	27722656	105	11	38554	1.0244	0.15282	IFT172		
ENSG00000244005	20	34245977	34297281	148	15	35554	1.0244	0.15282	NFS1		
ENSG00000172901	5	115288151	115373316	444	68	47455	1.0243	0.15285	AQPEP		
ENSG00000206557	3	32849510	32949318	258	45	46731	1.0241	0.1529	TRIM71		
ENSG00000112511	6	33368176	33394230	56	15	50525	1.0239	0.15293	PHF1		
ENSG00000196376	6	118218689	118648839	1336	125	47847	1.0237	0.15299	SLC35F1		
ENSG00000160194	21	44289754	44343414	277	21	42436	1.0237	0.153	NDUFV3		
ENSG00000103460	16	52461917	52591714	308	56	44750	1.0235	0.15303	TOX3		
ENSG00000175482	11	67108248	67134443	17	7	41105	1.0234	0.15306	POLD4		
ENSG00000116604	1	156423519	156480620	110	20	39968	1.0228	0.1532	MEF2D		
ENSG00000163803	2	28670012	28876654	827	117	46273	1.0226	0.15326	PLB1		
ENSG00000156222	15	85417885	85528876	476	81	46303	1.0225	0.15328	SLC28A1		
ENSG00000103222	16	16033434	16246931	836	114	44022	1.0224	0.15329	ABCC1		
ENSG00000198482	19	53020905	53077717	267	29	37980	1.0224	0.15329	ZNF808		
ENSG00000166477	15	52220222	52274003	131	10	49266	1.0222	0.15333	LEO1		
ENSG00000119333	9	131385940	131429066	83	14	37722	1.0222	0.15334	WDR34		
ENSG00000117139	1	202686526	202788598	305	27	41064	1.0219	0.15341	KDM5B		
ENSG00000008710	16	2128711	2195899	182	29	36680	1.0218	0.15344	PKD1		
ENSG00000166971	16	53514952	53548323	78	15	44647	1.0218	0.15344	AKTIP		
ENSG00000148680	10	92490578	92627671	402	33	38188	1.0215	0.1535	HTR7		
ENSG00000115211	2	27577219	27603353	44	11	42864	1.0215	0.15351	EIF2B4		
ENSG00000081853	5	140708539	140902546	527	60	43924	1.0213	0.15356	PCDHGA2		
ENSG00000214891	11	49065266	49090664	107	15	32718	1.0212	0.15359	TRIM64C		
ENSG00000267281	12	53890472	54029763	274	28	45246	1.0211	0.15361	RP11-793H13.10		
ENSG00000170653	12	53891640	54030199	274	28	45246	1.0211	0.15361	ATF7		

ENSG00000144554	3	10058098	10153614	317	12	39659	1.021	0.15363	FANCD2		
ENSG00000174093	17	36327717	36431858	68	16	41066	1.0209	0.15365	RP11-1407O15.2		
ENSG00000104679	8	23117633	23163792	187	35	46839	1.0208	0.15367	R3HCC1		
ENSG00000187612	11	55671126	55692058	189	8	56705	1.0206	0.15372	OR5W2		
ENSG00000183751	16	2012038	2042934	181	24	50175	1.0206	0.15373	TBL3		
ENSG00000159450	1	152068793	152096556	21	8	33537	1.0205	0.15374	TCHH		
ENSG00000213066	6	167402670	167476201	442	19	43074	1.0201	0.15383	FGFR1OP		
ENSG00000111215	12	10967559	11334212	1736	43	34624	1.0201	0.15385	PRR4		
ENSG00000143061	1	117107031	117220375	155	43	43859	1.0194	0.15402	IGSF3		
ENSG00000269605	20	43224346	43258126	84	17	47054	1.0193	0.15402	Z97053.1		
ENSG00000198542	13	102094966	102385456	993	109	44164	1.0192	0.15406	ITGBL1		
ENSG00000124818	6	47739718	47810516	253	26	54151	1.0191	0.15407	OPN5		
ENSG00000167113	9	131074815	131106351	63	13	33163	1.0191	0.15409	COQ4		
ENSG00000116473	1	112074840	112269313	639	70	50224	1.0188	0.15416	RAP1A		
ENSG00000187726	11	73651364	73691411	138	25	43124	1.0188	0.15416	DNAJB13		
ENSG00000115361	2	211042663	211100215	59	14	43465	1.0185	0.15422	ACADL		
ENSG00000168036	3	41226328	41311587	148	20	39698	1.0184	0.15424	CTNNB1		
ENSG00000177731	17	18138150	18172230	66	15	54617	1.0182	0.15429	FLII		
ENSG00000154252	2	242706240	242753623	150	29	39621	1.0179	0.15437	GAL3ST2		
ENSG00000012779	10	45859661	45951561	325	38	51013	1.0175	0.15446	ALOX5		
ENSG00000041988	1	6674926	6705646	80	14	54929	1.0175	0.15447	THAP3		
ENSG00000146833	7	99464581	99527223	167	16	40547	1.0173	0.1545	TRIM4		
ENSG00000108799	17	40842293	40907071	62	10	46690	1.0173	0.15451	EZH1		
ENSG00000130684	20	25644851	25687477	103	13	25754	1.0173	0.15451	ZNF337		
ENSG00000104889	19	12907394	12934452	114	10	32473	1.017	0.15457	RNASEH2A		
ENSG00000173153	11	64063044	64094215	37	11	43070	1.0166	0.15468	ESRRA		
ENSG00000139053	12	15115956	15144799	134	15	42894	1.0162	0.15476	PDE6H		
ENSG00000152705	5	134293596	134357392	115	19	41344	1.0162	0.15478	CATSPER3		
ENSG00000105991	7	27122612	27145615	48	17	48319	1.0161	0.15478	HOXA1		
ENSG00000188229	9	140125665	140148159	68	17	48504	1.0161	0.1548	TUBB4B		
ENSG00000136279	7	44074239	44119055	147	14	51918	1.0159	0.15484	DBNL		
ENSG00000250644	11	1758897	1790281	105	17	43870	1.0158	0.15487	RP11-295K3.1		
ENSG00000240510	1	151672909	151712070	79	16	41827	1.0156	0.1549	AL589765.1		
ENSG00000175305	8	95881998	95918906	130	20	53836	1.0154	0.15495	CCNE2		
ENSG00000146005	5	139165406	139234051	121	22	47917	1.0154	0.15497	PSD2		
ENSG00000105514	19	11422722	11466946	111	20	33787	1.0153	0.15497	RAB3D		

ENSG00000170296	17	7133333	7156089	26	7	55930	1.0151	0.15502	GABARAP		
ENSG00000187260	7	151062995	151117813	179	44	43778	1.015	0.15505	WDR86		
ENSG00000062524	15	41785836	41816085	84	20	50737	1.0145	0.15518	LTK		
ENSG00000112339	6	135271516	135434194	406	24	49637	1.0139	0.15532	HBS1L		
ENSG00000034239	8	49613348	49657870	95	27	51552	1.0137	0.15536	EFCAB1		
ENSG00000114867	3	184022283	184063146	75	20	50175	1.0136	0.15538	EIF4G1		
ENSG00000128654	2	177124123	177212753	188	22	50733	1.0136	0.15539	MTX2		
ENSG00000125458	17	73116320	73137890	44	11	36065	1.0135	0.1554	NT5C		
ENSG00000257103	19	34653409	34730420	240	20	51428	1.0135	0.15542	LSM14A		
ENSG00000167881	17	74025184	74078734	104	14	36958	1.0134	0.15544	SRP68		
ENSG00000144712	3	12827971	12923415	363	45	39363	1.0133	0.15546	CAND2		
ENSG00000104852	19	49578676	49621862	140	28	52895	1.0132	0.15549	SNRNP70		
ENSG00000184916	14	105597318	105645161	125	16	49651	1.013	0.15552	JAG2		
ENSG00000168913	9	34511038	34533039	34	11	53994	1.0127	0.1556	ENHO		
ENSG00000184185	17	21269509	21333179	88	31	42451	1.0125	0.15564	KCNJ12		
ENSG00000160685	1	154965127	155000998	58	16	44903	1.0122	0.15571	ZBTB7B		
ENSG00000072071	19	14250750	14326999	182	36	46171	1.0119	0.1558	LPHN1		
ENSG00000125814	20	23345159	23412125	249	20	42107	1.0118	0.15583	NAPB		
ENSG00000188322	16	28293840	28345170	107	27	40489	1.0116	0.15587	SBK1		
ENSG00000204296	6	32246303	32349684	982	54	36672	1.0115	0.15588	C6orf10		
ENSG00000011083	5	149559520	149612351	207	39	44039	1.011	0.15601	SLC6A7		
ENSG00000102445	13	46906139	47022325	292	23	43807	1.0109	0.15602	KIAA0226L		
ENSG00000142230	19	47606531	47723886	142	30	47238	1.0109	0.15603	SAE1		
ENSG00000164508	6	25716291	25736790	98	10	31578	1.0107	0.15607	HIST1H2AA		
ENSG00000146047	6	25717137	25737573	98	10	31578	1.0107	0.15607	HIST1H2BA		
ENSG00000167962	16	2037655	2069824	132	16	44723	1.0107	0.15608	ZNF598		
ENSG00000181896	19	19769605	19804318	125	23	52392	1.0107	0.15608	ZNF101		
ENSG00000171053	11	125606188	125629762	137	16	54341	1.0106	0.1561	PATE1		
ENSG00000125122	16	67231042	67270951	54	14	38884	1.0104	0.15614	LRRC29		
ENSG00000138376	2	215580370	215684428	583	61	53096	1.0104	0.15615	BARD1		
ENSG00000177764	20	267737	290965	74	20	43576	1.0103	0.15617	ZCCHC3		
ENSG00000183624	3	128987671	129035029	98	9	41120	1.0102	0.15619	HMCES		
ENSG00000160959	8	145733376	145760557	41	12	40430	1.0102	0.1562	LRRC14		
ENSG00000165730	10	70577298	70665188	285	43	49424	1.0101	0.15623	STOX1		
ENSG00000269676	12	133039334	133060726	84	25	46334	1.0101	0.15623	MUC8		
ENSG00000140092	14	92325756	92424331	309	64	50058	1.01	0.15624	FBLN5		

ENSG00000165449	10	61400523	61505760	317	55	45122	1.01	0.15626	SLC16A9		
ENSG00000112799	6	6578341	6665216	443	84	47894	1.0095	0.15636	LY86		
ENSG00000104522	8	144684788	144710218	72	18	37904	1.0094	0.15639	TSTA3		
ENSG00000047346	15	52863514	53012014	324	41	40639	1.0094	0.15639	FAM214A		
ENSG00000196936	1	248102160	248123098	65	8	45701	1.0092	0.15644	OR2L8		
ENSG00000006059	17	39492344	39517064	49	12	43001	1.009	0.15648	KRT33A		
ENSG00000180787	17	4971543	5009669	112	21	35444	1.009	0.15649	ZFP3		
ENSG00000183346	10	63412719	63536524	481	44	37022	1.0086	0.15657	C10orf107		
ENSG00000103175	16	84318252	84373450	324	80	49278	1.0086	0.15657	WFDC1		
ENSG00000135480	12	52616304	52655970	129	29	47587	1.0084	0.15664	KRT7		
ENSG00000144908	3	125812412	125926837	557	61	47315	1.0082	0.15668	ALDH1L1		
ENSG00000165496	14	47110222	47131028	54	12	49977	1.0082	0.15668	RPL10L		
ENSG00000131477	17	40900465	40925059	25	10	42018	1.0081	0.1567	RAMP2		
ENSG00000166188	16	58018572	58044357	77	13	51900	1.008	0.15673	ZNF319		
ENSG00000167123	9	131164030	131209626	123	13	28722	1.0078	0.15679	CERCAM		
ENSG00000163468	1	156268759	156347664	200	20	53777	1.0076	0.15682	CCT3		
ENSG00000108960	17	53459974	53509353	100	20	38761	1.0075	0.15684	MMD		
ENSG00000151247	4	99782835	99861788	271	28	38086	1.0075	0.15685	EIF4E		
ENSG00000196860	14	58852634	58885419	34	13	48782	1.0072	0.15691	TOMM20L		
ENSG00000103067	16	68253014	68282005	47	9	45641	1.0072	0.15693	ESRP2		
ENSG00000107862	10	103995289	104152656	282	31	50717	1.007	0.15696	GBF1		
ENSG00000268059	6	13605728	13631126	47	10	53260	1.0069	0.15698	AL441883.1		
ENSG00000139209	12	47148546	47236191	295	46	36366	1.0066	0.15705	SLC38A4		
ENSG00000177150	18	13653346	13736662	319	31	48590	1.0066	0.15706	FAM210A		
ENSG00000241043	9	32556787	32578619	52	11	50817	1.0062	0.15715	GVQW1		
ENSG00000173611	9	127694887	127915785	444	37	53902	1.0061	0.15718	SCAI		
ENSG00000176105	18	711588	822547	424	35	41793	1.0061	0.15719	YES1		
ENSG00000135521	6	144154481	144194949	108	17	53146	1.0059	0.15722	LTV1		
ENSG00000138617	15	65516798	65602956	268	26	44052	1.0057	0.15727	PARP16		
ENSG00000213654	6	32148543	32173300	81	24	43847	1.0057	0.15728	GPSM3		
ENSG00000186891	1	1128888	1152071	101	17	37909	1.0056	0.1573	TNFRSF18		
ENSG00000237102	16	67234251	67270930	47	14	41778	1.0055	0.15734	AC040160.1		
ENSG00000116883	1	36779335	36804822	46	14	40266	1.0054	0.15736	RP11-268J15.5		
ENSG00000230062	6	46704654	46737243	84	18	33491	1.005	0.15744	ANKRD66		
ENSG00000196584	7	152331864	152383250	225	30	41139	1.005	0.15745	XRCC2		
ENSG00000167526	16	89617065	89640950	68	10	53396	1.0049	0.15748	RPL13		

ENSG00000249049	4	92230185	92256457	107	10	50954	1.0048	0.15749	RP11-763F8.1		
ENSG00000100450	14	25065686	25088905	94	18	55264	1.0048	0.15751	GZMH		
ENSG00000167524	17	26924982	26951218	24	11	52496	1.0047	0.15753	SGK494		
ENSG00000079313	19	1805248	1858452	158	19	37372	1.0045	0.15758	REXO1		
ENSG00000250424	7	30883010	30973427	294	54	36896	1.0042	0.15764	AQP1		
ENSG00000144891	3	148405571	148470795	212	32	38214	1.0039	0.15772	AGTR1		
ENSG00000158022	1	26367795	26404927	105	15	38513	1.0033	0.15787	TRIM63		
ENSG00000129566	14	20823826	20891588	263	49	48567	1.0028	0.15798	TEP1		
ENSG00000117859	1	52032851	52264889	456	53	39509	1.0027	0.15801	OSBPL9		
ENSG00000187862	1	156539519	156566562	99	12	24520	1.0026	0.15802	TTC24		
ENSG00000164172	5	52381509	52415893	158	14	56175	1.0026	0.15803	MOCS2		
ENSG00000134987	5	110417414	110476200	226	30	41181	1.0026	0.15803	WDR36		
ENSG00000270188	1	238097024	238118575	116	13	46594	1.0026	0.15804	MTRNR2L11		
ENSG00000233502	2	10213908	10236228	103	21	49603	1.0025	0.15804	AC104794.4		
ENSG00000138777	4	106280234	106405238	525	38	44312	1.0025	0.15805	PPA2		
ENSG00000142599	1	8402457	8887702	875	64	45641	1.0024	0.15808	RERE		
ENSG00000181222	17	7377685	7427933	239	18	47210	1.0023	0.15811	POLR2A		
ENSG00000188738	2	186593355	186708017	316	14	54678	1.0022	0.15812	FSIP2		
ENSG00000225828	1	32816871	32839879	13	8	53934	1.0022	0.15813	FAM229A		
ENSG00000066230	5	463425	534447	369	56	37848	1.0021	0.15814	SLC9A3		
ENSG00000167755	19	51451887	51482929	87	23	43172	1.0019	0.15821	KLK6		
ENSG00000065833	6	83910108	84150797	646	40	44972	1.0017	0.15825	ME1		
ENSG00000213563	8	145741117	145764516	31	10	43555	1.0016	0.15826	C8orf82		
ENSG00000123427	12	58155275	58186324	41	5	32613	1.0016	0.15828	METTL21B		
ENSG00000100410	22	41845721	41874729	50	8	50213	1.0012	0.15836	PHF5A		
ENSG00000162227	11	62528775	62564814	58	13	35494	1.0012	0.15837	TAF6L		
ENSG00000204217	2	203231659	203442474	427	37	51945	1.0008	0.15845	BMPR2		
ENSG00000110881	12	50441331	50487394	79	16	35136	1.0006	0.1585	ASIC1		
ENSG00000054938	11	74397474	74452430	142	35	42675	1.0002	0.1586	CHRD12		
ENSG00000161558	19	48825613	48877494	189	28	54607	1.0001	0.15862	TMEM143		
ENSG00000175182	3	184043714	184074063	83	22	52349	1.0001	0.15863	FAM131A		
ENSG00000128694	2	190601386	190637953	79	16	47969	0.99997	0.15866	OSGEPL1		
ENSG00000145388	4	119596523	119646588	122	15	37266	0.99999	0.15866	METTL14		
ENSG00000165105	9	85584500	85688092	191	19	50863	0.99985	0.15869	RASEF		
ENSG00000188886	2	96779589	96814175	53	11	49566	0.9998	0.1587	ASTL		
ENSG00000184361	17	43321760	43349479	66	14	43445	0.9998	0.1587	SPATA32		

ENSG00000186854	2	85038774	85144132	368	39	42536	0.99973	0.15872	TRABD2A		
ENSG00000153922	5	98180908	98272240	207	24	43447	0.99959	0.15875	CHD1		
ENSG00000135723	16	67253290	67291561	40	17	49347	0.99953	0.15877	FHOD1		
ENSG00000079805	19	10818755	10954164	350	40	44153	0.99946	0.15879	DNM2		
ENSG00000188283	19	37698828	37744828	77	16	43055	0.99946	0.15879	ZNF383		
ENSG00000050327	7	144042381	144087725	26	6	52696	0.99932	0.15882	ARHGEF5		
ENSG00000168993	4	768745	829986	319	40	49389	0.99913	0.15887	CPLX1		
ENSG00000163466	2	219071817	219129079	123	16	44371	0.99903	0.15889	ARPC2		
ENSG00000086289	7	37713446	38001543	1182	111	45226	0.99897	0.1589	EPDR1		
ENSG00000142507	17	4689439	4711790	60	19	40017	0.99877	0.15895	PSMB6		
ENSG00000120457	11	128751251	128800930	189	37	46710	0.99852	0.15901	KCNJ5		
ENSG00000146592	7	28328940	28875511	1842	256	48966	0.99848	0.15902	CREB5		
ENSG00000122550	7	23135353	23227533	296	18	36749	0.99828	0.15907	KLHL7		
ENSG00000196169	17	72312349	72361959	176	37	42809	0.99822	0.15909	KIF19		
ENSG00000154144	11	124482732	124515287	55	20	45874	0.99808	0.15912	TBRG1		
ENSG00000135801	1	229718858	229771794	113	16	54120	0.99784	0.15918	TAF5L		
ENSG00000103021	16	58255061	58327740	358	26	48552	0.99762	0.15923	CCDC113		
ENSG00000116701	1	183514698	183570011	162	27	45521	0.99742	0.15928	NCF2		
ENSG00000160201	21	44503066	44537697	59	12	43471	0.99735	0.1593	U2AF1		
ENSG00000212122	5	112758251	112780728	106	13	33790	0.99723	0.15933	TSSK1B		
ENSG00000259171	14	21142746	21178735	158	33	49797	0.99711	0.15935	AL163636.6		
ENSG00000185386	22	50692142	50719196	124	26	48654	0.99714	0.15935	MAPK11		
ENSG00000257594	12	89903185	89930039	95	11	54610	0.99697	0.15939	GALNT4		
ENSG00000259075	12	89903185	89930039	95	11	54610	0.99697	0.15939	POC1B-GALNT4		
ENSG00000114353	3	50253724	50306787	58	18	45225	0.9965	0.1595	GNAI2		
ENSG00000167964	16	2180804	2214166	56	16	37758	0.99623	0.15957	RAB26		
ENSG00000073350	17	73511161	73581289	409	49	38099	0.99616	0.15959	LLGL2		
ENSG00000177238	16	31215342	31246510	25	10	43105	0.99596	0.15963	TRIM72		
ENSG00000107807	10	102879257	102907545	89	24	49343	0.99578	0.15968	TLX1		
ENSG00000180613	4	54955690	54978672	42	8	41144	0.99574	0.15969	GSX2		
ENSG00000147604	8	74192506	74218024	87	13	53374	0.99553	0.15974	RPL7		
ENSG00000091972	3	112041194	112091659	176	23	44211	0.99546	0.15976	CD200		
ENSG00000175455	3	123606152	123690564	133	20	41449	0.99539	0.15977	CCDC14		
ENSG00000214193	1	36761988	36800484	66	14	41402	0.99501	0.15987	SH3D21		
ENSG00000126860	17	29634578	29658902	39	4	25678	0.9946	0.15997	EVI2A		
ENSG00000125247	13	101246181	101337347	285	26	47772	0.9944	0.16001	TMTC4		

ENSG00000153558	3	33308517	33455154	389	34	41979	0.99391	0.16013	<i>FBXL2</i>		
ENSG00000135632	2	73431350	73464365	89	16	42835	0.9937	0.16018	<i>SMYD5</i>		
ENSG00000124702	6	42971951	42999036	68	13	34647	0.99373	0.16018	<i>KLHDC3</i>		
ENSG00000181903	11	55422614	55443671	18	8	44334	0.99362	0.1602	<i>OR4C6</i>		
ENSG00000188130	22	50673879	50710254	155	25	40711	0.99364	0.1602	<i>MAPK12</i>		
ENSG00000146700	7	76008651	76049012	186	26	47504	0.99349	0.16024	<i>SRCRB4D</i>		
ENSG00000114302	3	48772030	48895279	120	21	39401	0.99292	0.16037	<i>PRKAR2A</i>		
ENSG00000170396	2	185453093	185814219	878	63	43517	0.99271	0.16043	<i>ZNF804A</i>		
ENSG00000172071	2	88846259	88937094	146	24	40860	0.99247	0.16048	<i>EIF2AK3</i>		
ENSG00000197233	9	125263081	125284022	57	21	42104	0.9925	0.16048	<i>OR1J2</i>		
ENSG00000134690	1	38148090	38185391	128	14	46741	0.99233	0.16052	<i>CDCA8</i>		
ENSG00000180205	20	44226578	44269907	169	16	47625	0.99227	0.16053	<i>WFDC9</i>		
ENSG00000118985	5	95210802	95307775	270	20	29903	0.9922	0.16055	<i>ELL2</i>		
ENSG00000146856	7	134661259	134842715	480	21	52072	0.99217	0.16056	<i>AGBL3</i>		
ENSG00000185313	3	38728293	38845501	429	59	45799	0.99181	0.16064	<i>SCN10A</i>		
ENSG00000181019	16	69730899	69770854	109	21	48674	0.9915	0.16072	<i>NQO1</i>		
ENSG00000116096	2	73104489	73129287	25	6	36737	0.99112	0.16081	<i>SPR</i>		
ENSG00000177885	17	73304157	73411790	306	19	28949	0.99068	0.16092	<i>GRB2</i>		
ENSG00000177352	3	49189968	49213754	32	6	47812	0.99058	0.16094	<i>CCDC71</i>		
ENSG00000164118	4	175194828	175264531	159	32	43032	0.99025	0.16103	<i>CEP44</i>		
ENSG00000231360	1	144329738	144531058	5	3	33454	0.99004	0.16108	<i>AL592284.1</i>		
ENSG00000172318	2	168665182	168740551	220	40	46018	0.98993	0.1611	<i>B3GALT1</i>		
ENSG00000100814	14	20769527	20811471	147	20	45200	0.98986	0.16112	<i>CCNB1IP1</i>		
ENSG00000146918	7	158414003	158507520	319	26	48658	0.9898	0.16113	<i>NCAPG2</i>		
ENSG00000257921	12	58156811	58190829	49	5	32111	0.98969	0.16116	<i>RP11-571M6.15</i>		
ENSG00000132681	1	160111360	160166767	225	55	45940	0.98941	0.16123	<i>ATP1A4</i>		
ENSG00000173432	11	18277721	18301524	95	16	33907	0.98939	0.16123	<i>SAA1</i>		
ENSG00000240891	3	111383523	111575294	714	81	42877	0.98931	0.16125	<i>PLCXD2</i>		
ENSG00000079257	3	158353611	158400482	168	10	56776	0.9891	0.16131	<i>LXN</i>		
ENSG00000116035	2	71117720	71170576	193	38	48745	0.98888	0.16136	<i>VAX2</i>		
ENSG00000173757	17	40341186	40438725	120	15	48634	0.98818	0.16153	<i>STAT5B</i>		
ENSG00000163449	2	216936589	216977506	91	16	43800	0.98808	0.16156	<i>TMEM169</i>		
ENSG00000206053	16	1718257	1762281	75	11	40487	0.98787	0.16161	<i>HN1L</i>		
ENSG00000177721	5	43029335	43053272	55	13	34192	0.98783	0.16162	<i>ANXA2R</i>		
ENSG00000175489	19	18491954	18518427	98	19	47313	0.98752	0.16169	<i>LRRRC25</i>		
ENSG00000178878	12	12868851	12992909	350	88	46458	0.98732	0.16174	<i>APOLD1</i>		

ENSG00000141431	18	31148579	31341156	509	55	46012	0.98725	0.16176	ASXL3		
ENSG00000180210	11	46730730	46771056	92	15	43134	0.98707	0.1618	F2		
ENSG00000135363	11	33870122	33923836	156	37	50323	0.98684	0.16186	LMO2		
ENSG00000240583	7	30883010	30975131	296	54	36735	0.98676	0.16188	AQP1		
ENSG00000167182	17	45963516	46016323	133	19	50881	0.98663	0.16191	SP2		
ENSG00000108622	17	62069954	62107994	56	13	50409	0.98625	0.16201	ICAM2		
ENSG00000164176	5	83226373	83690611	1087	138	49001	0.98618	0.16202	EDIL3		
ENSG00000204469	6	31578497	31615548	161	26	41711	0.9857	0.16214	PRRC2A		
ENSG00000165929	14	92236095	92343880	248	36	47120	0.98543	0.16221	TC2N		
ENSG00000204397	11	104902053	104982158	268	27	44534	0.98509	0.16229	CARD16		
ENSG00000100949	14	24724744	24750945	60	15	38817	0.98489	0.16234	RABGGTA		
ENSG00000129159	11	17746359	17814602	167	38	47205	0.98441	0.16246	KCNC1		
ENSG00000140488	15	72567068	72622470	87	16	50364	0.98411	0.16253	CELF6		
ENSG00000174792	4	76471258	76501095	112	20	45438	0.98408	0.16254	C4orf26		
ENSG00000139718	12	122232086	122280562	79	13	35674	0.984	0.16256	SETD1B		
ENSG00000152580	3	151133172	151186497	196	31	38832	0.98356	0.16267	IGSF10		
ENSG00000269590	19	12765642	12790211	40	16	39556	0.98352	0.16267	CTD-2192J16.24		
ENSG00000004487	1	23335941	23420182	129	15	33192	0.98337	0.16271	KDM1A		
ENSG00000262601	16	85194882	85228969	146	33	46231	0.98274	0.16287	CTC-786C10.1		
ENSG00000213214	7	143873176	144001230	19	9	42154	0.98254	0.16292	ARHGEF35		
ENSG00000204283	17	75865109	75888659	86	15	50139	0.98254	0.16292	FLJ45079		
ENSG00000008441	19	13096422	13219610	225	36	44962	0.9823	0.16297	NFIX		
ENSG00000156453	5	141222938	141268811	88	31	45160	0.98226	0.16299	PCDH1		
ENSG00000171307	10	99195927	99227127	59	14	49220	0.98181	0.1631	ZDHHHC16		
ENSG00000258365	12	94661534	94686620	118	22	54109	0.98181	0.1631	RP11-1105G2.3		
ENSG00000169618	2	68860721	68892708	112	26	35714	0.98156	0.16316	PROKR1		
ENSG00000138395	2	202645184	202770273	338	55	38198	0.98109	0.16327	CDK15		
ENSG00000182230	5	175477692	175569261	115	23	34957	0.981	0.1633	FAM153B		
ENSG00000185303	10	81305608	81330153	121	20	53250	0.98036	0.16345	SFTPA2		
ENSG00000142149	21	33235628	33426946	730	122	45994	0.98024	0.16348	HUNK		
ENSG00000119608	14	75309736	75340537	72	13	37686	0.9801	0.16352	PROX2		
ENSG00000214967	16	16462912	16497811	3	2	42947	0.97997	0.16355	NPIPA7		
ENSG00000165209	9	125861779	126040855	181	44	47801	0.97992	0.16356	STRBP		
ENSG00000163362	1	200850176	200894863	159	40	42545	0.97987	0.16358	C1orf106		
ENSG00000250741	2	18726811	18780830	115	26	40022	0.97934	0.16371	NT5C1B-RDH14		
ENSG00000185013	2	18727050	18780838	115	26	40022	0.97934	0.16371	NT5C1B		

ENSG00000085871	4	140576922	140671899	351	64	44387	0.97934	0.16371	MGST2		
ENSG00000100271	22	43425522	43495434	274	42	33970	0.97875	0.16385	TLL1		
ENSG00000174937	11	56226964	56248014	83	14	52025	0.97847	0.16392	OR5M3		
ENSG00000268898	2	40478147	40500117	107	21	42200	0.97828	0.16397	AC007377.1		
ENSG00000172493	4	87846154	88072206	618	62	46235	0.97802	0.16403	AFF1		
ENSG00000130749	19	47557444	47627009	131	23	37539	0.97802	0.16403	ZC3H4		
ENSG00000136824	9	106846541	106913698	174	15	50725	0.9779	0.16406	SMC2		
ENSG00000124493	6	33979628	34133399	693	86	33963	0.97787	0.16407	GRM4		
ENSG00000185332	17	79275074	79314474	158	25	45182	0.9778	0.16409	TMEM105		
ENSG00000163833	3	121301966	121359139	190	34	45977	0.97754	0.16415	FBXO40		
ENSG00000185926	11	51505282	51526211	93	12	44331	0.97742	0.16418	OR4C46		
ENSG00000011376	3	45419998	45600913	400	44	42198	0.97731	0.16421	LARS2		
ENSG00000180697	3	126235842	126287808	212	31	42209	0.97731	0.16421	C3orf22		
ENSG00000065618	10	105781044	105855760	145	28	42596	0.97724	0.16422	COL17A1		
ENSG00000188372	7	76016835	76081388	249	35	44660	0.9771	0.16426	ZP3		
ENSG00000081019	1	114294454	114365098	127	20	44520	0.97693	0.1643	RSBN1		
ENSG00000198838	15	33593163	34168303	2486	256	43840	0.97673	0.16435	RYS3		
ENSG00000205176	8	86558695	86585726	3	1	43326	0.97664	0.16437	REXO1L1P		
ENSG00000176209	8	42386298	42419603	110	14	35343	0.97509	0.16476	SMIM19		
ENSG00000205111	2	39392787	39466729	174	21	39036	0.97483	0.16482	CDKL4		
ENSG00000137496	11	71699587	71726761	74	10	35897	0.97472	0.16485	IL18BP		
ENSG00000169683	17	79971178	79999027	87	14	36365	0.97466	0.16486	LRRC45		
ENSG00000213002	8	71475681	71496671	48	11	39763	0.9742	0.16498	AC120194.1		
ENSG00000148655	10	77350998	78329925	2129	216	38467	0.97403	0.16502	C10orf11		
ENSG00000176165	14	29225050	29248870	27	16	50954	0.97401	0.16503	FOXG1		
ENSG00000168701	16	67251006	67273181	19	8	52806	0.974	0.16503	TMEM208		
ENSG00000067715	12	79247773	79855788	1618	127	47293	0.97352	0.16515	SYT1		
ENSG00000105810	7	92224235	92475908	315	53	40672	0.97346	0.16516	CDK6		
ENSG00000204424	6	31664640	31695581	75	19	28596	0.97293	0.1653	LY6G6F		
ENSG00000159674	4	1150720	1212750	174	36	36309	0.97283	0.16532	SPON2		
ENSG00000129194	17	7481496	7503488	43	11	44756	0.97277	0.16533	SOX15		
ENSG00000119396	9	123930415	123995292	144	24	40753	0.97276	0.16534	RAB14		
ENSG00000099904	22	20106979	20145530	155	18	48832	0.9724	0.16543	ZDHH8		
ENSG00000141505	17	7066750	7092883	78	25	44985	0.9719	0.16555	ASGR1		
ENSG00000213722	6	31684815	31708394	49	16	30966	0.97187	0.16556	DDAH2		
ENSG00000101421	20	32389110	32452172	83	14	35315	0.97179	0.16558	CHMP4B		

ENSG00000214097	3	196223748	196252237	86	18	33517	0.97152	0.16564	SMCO1		
ENSG00000165338	10	93160096	93284586	143	23	30918	0.97152	0.16564	HECTD2		
ENSG00000079616	16	29792040	29826706	24	14	47527	0.97094	0.16579	KIF22		
ENSG00000115457	2	217487551	217539159	122	28	43639	0.97066	0.16586	IGFBP2		
ENSG00000180917	16	71305292	71333618	97	15	43655	0.97056	0.16588	CMTR2		
ENSG00000174282	17	7352685	7397582	167	17	49122	0.97058	0.16588	ZBTB4		
ENSG00000206044	12	2948397	2976213	74	15	32188	0.9705	0.1659	AC005841.1		
ENSG00000140497	15	75126071	75175706	82	16	36514	0.97043	0.16592	SCAMP2		
ENSG00000103257	16	87853629	87913094	452	51	33889	0.97028	0.16595	SLC7A5		
ENSG00000136160	13	78459616	78503903	125	18	42220	0.97023	0.16596	EDNRB		
ENSG00000179111	17	8013908	8037410	67	19	46741	0.97013	0.16599	HES7		
ENSG00000129911	19	1842399	1873567	91	13	30929	0.96979	0.16608	KLF16		
ENSG00000168389	1	40410802	40445638	66	21	39083	0.96974	0.16609	MFSD2A		
ENSG00000179314	17	5665554	6037747	1394	196	41480	0.9697	0.1661	WSCD1		
ENSG00000139714	12	122079024	122120537	154	23	35683	0.96946	0.16616	MORN3		
ENSG00000124900	11	55640773	55669286	149	10	50557	0.96913	0.16624	TRIM51		
ENSG00000198856	4	109561740	109598976	105	5	51130	0.96909	0.16625	OSTC		
ENSG00000123104	12	26480342	26996131	1808	170	41470	0.96856	0.16638	ITPR2		
ENSG00000115306	2	54673422	54906812	798	69	46121	0.96846	0.16641	SPTBN1		
ENSG00000005020	7	26696681	27044858	980	44	50982	0.96781	0.16657	SKAP2		
ENSG00000100030	22	22098789	22231970	378	37	53388	0.96779	0.16657	MAPK1		
ENSG00000259224	17	7374721	7396383	103	11	50742	0.96772	0.16659	SLC35G6		
ENSG00000162891	1	207028699	207052568	39	13	40659	0.96727	0.1667	IL20		
ENSG00000069188	17	71320523	71650228	1063	176	46513	0.9664	0.16692	SDK2		
ENSG00000136280	7	45029074	45126068	378	29	47239	0.96629	0.16695	CCM2		
ENSG00000116641	1	62910399	63163969	406	17	38496	0.96622	0.16697	DOCK7		
ENSG00000168556	4	184416147	184442249	69	17	48234	0.96605	0.16701	ING2		
ENSG00000198453	19	37397231	37499602	523	23	51758	0.96602	0.16702	ZNF568		
ENSG00000117152	1	163028565	163056592	85	20	52037	0.96593	0.16704	RGS4		
ENSG00000138411	2	197049094	197468416	1261	96	37636	0.96576	0.16708	HECW2		
ENSG00000011332	19	38691646	38730354	102	22	43925	0.96557	0.16713	DPF1		
ENSG00000100403	22	41687526	41766151	132	17	43951	0.96552	0.16714	ZC3H7B		
ENSG00000151276	3	65329200	66034509	2530	235	43122	0.96547	0.16715	MAGI1		
ENSG00000198108	5	129230165	129532327	549	41	50582	0.96534	0.16719	CHSY3		
ENSG00000267963	2	241043907	241074304	193	23	46155	0.96502	0.16727	AC013469.1		
ENSG00000175121	20	43728093	43753813	94	14	37644	0.96487	0.16731	WFDC5		

ENSG00000105982	7	156422975	156479824	159	26	38902	0.96475	0.16733	<i>RNF32</i>		
ENSG00000181904	5	134171370	134205427	38	13	48770	0.96445	0.16741	<i>C5orf24</i>		
ENSG00000196415	19	830963	858175	95	31	43987	0.96427	0.16745	<i>PRTN3</i>		
ENSG00000143740	1	227906240	227978927	194	30	44218	0.96393	0.16754	<i>SNAP47</i>		
ENSG00000107014	9	5289868	5314969	79	17	45439	0.96388	0.16755	<i>RLN2</i>		
ENSG00000140464	15	74277014	74350153	198	24	48625	0.96383	0.16757	<i>PML</i>		
ENSG00000117266	1	205463723	205511921	223	47	42653	0.96357	0.16763	<i>CDK18</i>		
ENSG00000172590	14	23289088	23314246	93	24	50263	0.96358	0.16763	<i>MRPL52</i>		
ENSG00000130312	19	17393418	17427652	157	19	43227	0.96323	0.16772	<i>MRPL34</i>		
ENSG00000138686	4	122735595	122801652	135	21	42442	0.96292	0.16779	<i>BBS7</i>		
ENSG00000203909	6	74052785	74074018	86	18	54015	0.96253	0.16789	<i>DPPA5</i>		
ENSG00000110066	11	67912330	67991295	181	22	52863	0.96245	0.16791	<i>SUV420H1</i>		
ENSG00000254466	11	59234846	59255869	63	13	32642	0.96225	0.16796	<i>OR4D10</i>		
ENSG00000166272	10	104493727	104586021	284	31	39028	0.96221	0.16797	<i>WBP1L</i>		
ENSG00000148399	9	140439356	140483387	84	18	47764	0.96194	0.16804	<i>DPH7</i>		
ENSG00000106483	7	37935543	38075297	656	88	48879	0.96149	0.16815	<i>SFRP4</i>		
ENSG00000168077	8	27481385	27544293	230	19	48743	0.96147	0.16816	<i>SCARA3</i>		
ENSG00000258818	14	21142259	21178761	162	34	49957	0.96133	0.16819	<i>RNASE4</i>		
ENSG00000224838	5	59716565	59736939	95	14	40196	0.96129	0.1682	<i>FKSG52</i>		
ENSG00000073060	12	125251402	125377214	344	87	44900	0.96061	0.16837	<i>SCARB1</i>		
ENSG00000134686	1	33779224	33906653	432	35	46021	0.96042	0.16842	<i>PHC2</i>		
ENSG00000127249	3	193109866	193320900	605	78	52323	0.96041	0.16842	<i>ATP13A4</i>		
ENSG00000168003	11	62613518	62666352	84	19	40056	0.96036	0.16844	<i>SLC3A2</i>		
ENSG00000137713	11	111587632	111647151	131	13	32031	0.96037	0.16844	<i>PPP2R1B</i>		
ENSG00000116539	1	155295059	155542598	232	37	40692	0.95993	0.16855	<i>ASH1L</i>		
ENSG00000269881	16	289546	329942	140	28	35827	0.95981	0.16857	<i>ITFG3</i>		
ENSG00000186716	22	23511891	23670224	549	71	47343	0.95958	0.16863	<i>BCR</i>		
ENSG00000133812	11	9790214	10325754	2017	67	45737	0.95941	0.16868	<i>SBF2</i>		
ENSG00000163131	1	150692672	150748433	135	13	51354	0.95928	0.16871	<i>CTSS</i>		
ENSG00000072401	10	60084735	60140513	129	20	37779	0.9592	0.16873	<i>UBE2D1</i>		
ENSG00000168453	8	21961928	22000897	122	21	52504	0.95904	0.16877	<i>HR</i>		
ENSG00000204304	6	32142512	32167963	78	22	44474	0.95888	0.16881	<i>PBX2</i>		
ENSG00000146859	7	134822824	134860967	120	9	53678	0.95877	0.16884	<i>TMEM140</i>		
ENSG00000152402	11	106534738	106899250	1256	100	51214	0.95868	0.16886	<i>GUCY1A2</i>		
ENSG00000231256	17	41847803	41874980	75	9	47365	0.95862	0.16887	<i>C17orf105</i>		
ENSG00000256655	8	128949126	128970591	67	17	44533	0.95851	0.1689	<i>TMEM75</i>		

ENSG00000115896	2	198659426	199447305	1721	137	48864	0.95839	0.16893	PLCL1		
ENSG00000173930	5	101559690	101642253	390	40	46272	0.95834	0.16895	SLC04C1		
ENSG00000268358	5	111745280	111766310	29	14	45561	0.95772	0.1691	EPB41L4A-AS2		
ENSG00000146039	6	25744927	25791419	188	23	34289	0.95774	0.1691	SLC17A4		
ENSG00000254245	5	140713601	140902546	515	58	43659	0.95751	0.16916	PCDHGA3		
ENSG00000170027	7	75946116	75998348	137	21	42549	0.95696	0.16929	YWHAG		
ENSG00000105711	19	35511588	35541352	67	14	51509	0.95698	0.16929	SCN1B		
ENSG00000167383	19	44911685	44962766	266	37	42141	0.95694	0.1693	ZNF229		
ENSG00000003756	3	50116341	50166454	80	12	38690	0.95668	0.16936	RBM5		
ENSG00000162078	16	2870170	2898967	71	14	49762	0.95664	0.16937	ZG16B		
ENSG00000162989	2	155544811	155724863	623	86	44983	0.95657	0.16939	KCNJ3		
ENSG00000267796	19	36229262	36255420	72	15	47392	0.95657	0.16939	LIN37		
ENSG00000064042	4	41351624	41712061	1010	87	37577	0.9563	0.16946	LIMCH1		
ENSG00000146411	6	134299835	134383774	186	42	42627	0.95622	0.16948	SLC2A12		
ENSG00000268317	16	56652971	56676150	128	23	40909	0.95612	0.16951	AC026461.1		
ENSG00000255468	11	66105421	66142275	69	9	35838	0.95601	0.16953	RP11-867G23.8		
ENSG00000133422	22	31311117	31374284	99	15	43923	0.9558	0.16959	MORC2		
ENSG00000186446	3	44761088	44788575	52	10	46764	0.9557	0.16961	ZNF501		
ENSG00000231389	6	33022346	33058552	555	26	24520	0.95566	0.16962	HLA-DPA1		
ENSG00000168143	6	54701569	54816820	458	42	41679	0.95563	0.16963	FAM83B		
ENSG00000173727	11	65212728	65244028	103	11	48970	0.95556	0.16965	AP000769.1		
ENSG00000154262	17	67064843	67148029	169	20	38790	0.95497	0.1698	ABCA6		
ENSG00000129007	15	68473043	68508417	71	12	35558	0.95468	0.16987	CALML4		
ENSG00000069956	15	52234303	52368462	288	36	38925	0.95454	0.16991	MAPK6		
ENSG00000159363	1	17302453	17348423	121	20	41227	0.95404	0.17003	ATP13A2		
ENSG00000139410	12	113850042	113886081	97	10	41846	0.95406	0.17003	SDSL		
ENSG00000255552	6	31669548	31691842	55	16	27179	0.95396	0.17005	LY6G6E		
ENSG00000154124	5	14654773	14709820	110	20	45329	0.95393	0.17006	FAM105B		
ENSG00000142621	1	15563768	15736779	574	90	42816	0.95383	0.17008	FHAD1		
ENSG00000145975	6	4039668	4097578	215	29	48614	0.95375	0.1701	FAM217A		
ENSG00000189332	11	18220685	18246109	110	9	40167	0.95379	0.1701	RP11-113D6.10		
ENSG00000167720	17	2196677	2238554	95	16	38140	0.9537	0.17012	SRR		
ENSG00000213341	10	101938055	101999376	149	17	33364	0.95358	0.17015	CHUK		
ENSG00000039650	19	50354461	50381166	78	17	46556	0.95357	0.17015	PNKP		
ENSG00000149136	11	57083459	57113351	75	14	52470	0.95353	0.17016	SSRP1		
ENSG00000214479	6	83772692	83792854	41	7	52756	0.95346	0.17018	AL139333.1		

ENSG00000164483	6	130455460	130696570	1200	73	45690	0.95307	0.17028	SAMD3		
ENSG00000081803	7	121948481	122536813	1662	137	49436	0.95306	0.17028	CADPS2		
ENSG00000154001	14	63828075	64020092	555	50	36571	0.95303	0.17029	PPP2R5E		
ENSG00000124615	6	39857354	39912290	206	36	45826	0.95261	0.1704	MOCS1		
ENSG00000106305	7	6038876	6073465	179	27	50366	0.95258	0.1704	AIMP2		
ENSG00000150048	12	10212153	10274226	125	19	29948	0.95256	0.17041	CLEC1A		
ENSG00000139437	12	110328069	110431646	261	26	37947	0.95209	0.17053	TCHP		
ENSG00000100078	22	31520795	31546593	66	20	39027	0.95201	0.17055	PLA2G3		
ENSG00000119514	9	101559981	101622363	173	33	47387	0.95189	0.17058	GALNT12		
ENSG00000101670	18	47077069	47129272	144	35	50241	0.95138	0.17071	LIPG		
ENSG00000100100	22	31667579	31698520	80	15	36251	0.95122	0.17075	PIK3IP1		
ENSG00000166033	10	124211041	124284424	316	43	45182	0.95117	0.17076	HTRA1		
ENSG00000166926	11	60092304	60174069	304	29	53273	0.95072	0.17087	MS4A6E		
ENSG00000100253	22	50915213	50939077	74	35	47852	0.95067	0.17089	MIOX		
ENSG00000104044	15	27990021	28354504	891	88	37333	0.95038	0.17096	OCA2		
ENSG00000138092	2	25006005	25055245	203	26	44889	0.95031	0.17098	CENPO		
ENSG00000145685	5	77771038	78075844	741	90	41600	0.95017	0.17101	LHFPL2		
ENSG00000053108	5	132522147	132958255	1320	202	48513	0.94994	0.17107	FSTL4		
ENSG00000197757	12	54374408	54434607	113	24	50109	0.94951	0.17118	HOXC6		
ENSG00000198185	20	45119701	45152198	72	14	49573	0.94946	0.17119	ZNF334		
ENSG00000123739	4	110621145	110661233	81	16	50652	0.94944	0.1712	PLA2G12A		
ENSG00000188687	2	74433369	74580541	239	42	31370	0.9494	0.17121	SLC4A5		
ENSG00000099954	22	17830837	18047850	915	137	36610	0.9494	0.17121	CECR2		
ENSG00000179918	16	30444952	30467502	29	14	40133	0.94928	0.17124	SEPHS2		
ENSG00000134086	3	10172692	10203904	124	17	39683	0.94923	0.17125	VHL		
ENSG00000162438	1	15754935	15785737	84	19	49482	0.94902	0.17131	CTRC		
ENSG00000149231	11	96075933	96133087	142	22	54686	0.94894	0.17133	CCDC82		
ENSG00000011143	17	56272803	56306966	60	15	44746	0.94875	0.17137	MKS1		
ENSG00000269223	20	62464779	62485273	88	13	25653	0.94859	0.17141	AL158091.1		
ENSG00000143140	1	147218332	147255484	152	25	50727	0.94857	0.17142	GJA5		
ENSG00000215346	8	10973980	10997745	106	18	37658	0.94826	0.1715	AF131215.5		
ENSG00000185880	15	45011186	45070027	225	23	36313	0.94814	0.17153	TRIM69		
ENSG00000130023	6	170141718	170191680	170	17	37528	0.94807	0.17155	ERMARD		
ENSG00000145362	4	113729265	114314896	1847	214	44913	0.94803	0.17156	ANK2		
ENSG00000149177	11	47992113	48199670	431	45	39470	0.94801	0.17156	PTPRJ		
ENSG00000272869	5	112186885	112238776	209	22	39694	0.94758	0.17167	CTC-487M23.8		

ENSG00000126088	1	45467819	45491247	55	9	51106	0.94746	0.1717	UROD		
ENSG00000204508	1	13025543	13048381	3	1	42590	0.94736	0.17173	PRAMEF22		
ENSG00000124507	6	34423916	34513006	243	43	38128	0.94726	0.17175	PACIN1		
ENSG00000205683	14	73076004	73370809	991	138	44280	0.94729	0.17175	DPF3		
ENSG00000112079	6	36451669	36525247	238	19	29987	0.9468	0.17187	STK38		
ENSG00000108840	17	42144114	42211070	130	21	34874	0.94667	0.1719	HDAC5		
ENSG00000159527	1	153260338	153293194	83	18	40414	0.94626	0.17201	PGLYRP3		
ENSG00000121380	12	12192778	12374018	587	90	48444	0.94612	0.17204	BCL2L14		
ENSG00000182500	12	122054455	122090583	92	17	41102	0.94602	0.17207	ORAI1		
ENSG00000158786	1	20455819	20486879	67	27	48713	0.94598	0.17208	PLA2G2F		
ENSG00000120057	10	99516508	99541709	74	10	31257	0.94585	0.17211	SFRP5		
ENSG00000124664	6	34495579	34534110	117	19	35432	0.94553	0.17219	SPDEF		
ENSG00000168461	18	9698162	9872548	763	152	44663	0.94526	0.17226	RAB31		
ENSG00000172940	3	38297303	38329806	58	16	38110	0.94519	0.17228	SLC22A13		
ENSG00000254415	19	52135806	52160054	76	16	45607	0.94495	0.17234	SIGLEC14		
ENSG00000159197	21	35726323	35753688	65	14	40429	0.94493	0.17235	KCNE2		
ENSG00000061273	12	48166505	48236915	203	44	52018	0.94468	0.17241	HDAC7		
ENSG00000187080	1	248118535	248139641	104	21	38734	0.94457	0.17244	OR2AK2		
ENSG00000142552	19	50020875	50060219	167	10	38817	0.94429	0.17251	RCN3		
ENSG00000162086	16	3345406	3378852	59	15	37960	0.94409	0.17256	ZNF75A		
ENSG00000272968	7	5013349	5122852	500	40	48353	0.94406	0.17257	RBAK-RBAKDN		
ENSG00000185420	1	245902642	246680614	3502	183	33456	0.94389	0.17261	SMYD3		
ENSG00000168884	4	2733375	2768103	159	28	45205	0.9438	0.17263	TNIP2		
ENSG00000119650	14	76358479	76560928	512	61	49225	0.94381	0.17263	IFT43		
ENSG00000008283	17	61499665	61533739	51	15	47851	0.9436	0.17269	CYB561		
ENSG00000150244	11	55019658	55048595	165	19	48590	0.94356	0.1727	TRIM48		
ENSG00000065883	7	39979636	40146733	360	36	33068	0.94333	0.17276	CDK13		
ENSG00000172716	17	33667324	33710720	150	30	34929	0.94329	0.17277	SLFN11		
ENSG00000134020	8	22560769	22867513	1064	171	47292	0.94302	0.17283	PEBP4		
ENSG00000070756	8	101688044	101745037	136	16	46863	0.94285	0.17288	PABPC1		
ENSG00000172824	16	67012492	67053661	42	14	46802	0.94282	0.17289	CES4A		
ENSG00000107984	10	54064056	54087802	59	12	32579	0.94267	0.17292	DKK1		
ENSG00000160113	19	17332692	17366749	169	31	44244	0.94258	0.17295	NR2F6		
ENSG00000065911	2	74415689	74454692	87	15	29609	0.94244	0.17298	MTHFD2		
ENSG00000153208	2	112646056	112797138	588	38	52837	0.94242	0.17299	MERTK		
ENSG00000011426	7	36419415	36503400	311	41	52446	0.94221	0.17304	ANLN		

ENSG00000152670	5	55023845	55122985	297	31	41348	0.94212	0.17307	<i>DDX4</i>		
ENSG00000205710	17	4792713	4816227	95	16	41032	0.94183	0.17314	<i>C17orf107</i>		
ENSG00000158104	12	122267433	122311502	120	17	42181	0.9416	0.1732	<i>HPD</i>		
ENSG00000139055	12	15056969	15102016	117	12	46212	0.94145	0.17324	<i>ERP27</i>		
ENSG00000178966	9	86585626	86628985	79	11	55599	0.94122	0.1733	<i>RMI1</i>		
ENSG00000254402	8	145737761	145762416	34	11	40866	0.94075	0.17342	<i>LRRC24</i>		
ENSG00000263620	17	8044134	8076293	78	15	45124	0.94065	0.17344	<i>RP11-599B13.6</i>		
ENSG00000183389	11	6013216	6034424	106	16	53330	0.94011	0.17358	<i>OR56A4</i>		
ENSG00000164307	5	96086521	96153803	368	35	46923	0.94002	0.1736	<i>ERAP1</i>		
ENSG00000116885	1	36871428	36926086	283	19	55561	0.93999	0.17361	<i>OSCP1</i>		
ENSG00000163026	2	24242210	24282445	106	20	50159	0.93982	0.17365	<i>C2orf44</i>		
ENSG00000118762	4	88918820	89008929	249	34	32740	0.93985	0.17365	<i>PKD2</i>		
ENSG00000111335	12	113406200	113459528	190	27	42890	0.93968	0.17369	<i>OAS2</i>		
ENSG00000143889	2	38779120	38840728	185	24	42976	0.93962	0.17371	<i>HNRNPLL</i>		
ENSG00000178075	3	113537029	113676021	318	56	48580	0.93956	0.17372	<i>GRAMD1C</i>		
ENSG00000149735	11	64691943	64713360	43	9	42374	0.93927	0.1738	<i>GPHA2</i>		
ENSG00000116678	1	65876248	66117242	756	54	33121	0.93887	0.1739	<i>LEPR</i>		
ENSG00000106665	7	73693805	73830273	274	40	36693	0.93886	0.1739	<i>CLIP2</i>		
ENSG00000112514	6	33374219	33396094	41	13	50090	0.93863	0.17396	<i>CUTA</i>		
ENSG00000095485	10	101982055	102037437	160	15	33682	0.93801	0.17412	<i>CWF19L1</i>		
ENSG00000153563	2	87001729	87045519	116	17	49655	0.93765	0.17421	<i>CD8A</i>		
ENSG00000150873	2	11263179	11296916	123	21	45248	0.93759	0.17423	<i>C2orf50</i>		
ENSG00000170681	9	103330361	103360188	112	16	46117	0.93751	0.17425	<i>MURC</i>		
ENSG00000205808	9	4652298	4675256	145	18	26016	0.93737	0.17428	<i>PPAPDC2</i>		
ENSG00000108370	17	63123549	63233821	332	42	33861	0.93717	0.17434	<i>RGS9</i>		
ENSG00000182732	14	72389156	73040654	2741	233	48196	0.93713	0.17435	<i>RGS6</i>		
ENSG00000267889	2	203094292	203114435	47	11	52634	0.93699	0.17438	<i>AC079354.2</i>		
ENSG00000198901	15	91499270	91548859	169	22	34411	0.93701	0.17438	<i>PRC1</i>		
ENSG00000178764	8	123783633	123996750	541	132	47972	0.9368	0.17443	<i>ZHX2</i>		
ENSG00000188707	7	150016938	150039808	63	6	51268	0.93663	0.17448	<i>ZBED6CL</i>		
ENSG00000183617	19	3752662	3778573	93	24	49500	0.9366	0.17448	<i>MRPL54</i>		
ENSG00000113249	5	156446424	156496130	216	33	45285	0.93638	0.17454	<i>HAVCR1</i>		
ENSG00000205209	19	35074234	35176604	512	47	50372	0.93636	0.17454	<i>SCGB2B2</i>		
ENSG00000168116	6	56901347	56930023	40	8	51469	0.93625	0.17457	<i>KIAA1586</i>		
ENSG00000149507	11	59797748	59825517	73	18	51816	0.93627	0.17457	<i>OOSP2</i>		
ENSG00000159720	16	67461917	67525140	79	20	46121	0.93622	0.17458	<i>ATP6V0D1</i>		

ENSG00000214274	14	21142336	21177130	156	32	50246	0.93595	0.17465	ANG		
ENSG00000135378	11	32841489	32889669	175	20	55416	0.93559	0.17474	PRRG4		
ENSG00000197386	4	3066408	3255676	480	40	39029	0.93518	0.17485	HTT		
ENSG00000165802	9	140332022	140363786	41	20	47019	0.93509	0.17487	NSMF		
ENSG00000100462	14	23379720	23408794	102	10	43576	0.93511	0.17487	PRMT5		
ENSG00000205937	16	2293117	2328413	67	13	45827	0.93501	0.17489	RNPS1		
ENSG00000166173	15	71113863	71156498	92	15	47859	0.93455	0.17501	LARP6		
ENSG00000162373	1	49183195	49252641	124	24	31909	0.93447	0.17503	BEND5		
ENSG00000048140	5	176064388	176096058	84	18	31565	0.93438	0.17505	TSPAN17		
ENSG00000171459	9	125502019	125523062	27	10	43171	0.93423	0.17509	OR1L6		
ENSG00000111671	12	6970099	7008522	81	8	28738	0.93422	0.1751	SPSB2		
ENSG00000178773	16	89632176	89673654	168	37	48215	0.93394	0.17517	CPNE7		
ENSG00000270033	17	60339848	60370276	119	18	42911	0.93384	0.17519	RP11-51L5.7		
ENSG00000198919	3	108298529	108423693	185	20	47192	0.93373	0.17522	DZIP3		
ENSG00000197965	1	167680429	167771156	304	43	51056	0.9331	0.17538	MPZL1		
ENSG00000215504	11	85553600	85575986	79	9	54060	0.93311	0.17538	AP000974.1		
ENSG00000115386	2	79337488	79360545	91	20	47568	0.93302	0.1754	REG1A		
ENSG00000140853	16	57013397	57127443	414	111	47534	0.93305	0.1754	NLRC5		
ENSG00000226761	12	11203964	11224893	71	14	37710	0.93292	0.17543	TAS2R46		
ENSG00000273398	2	68348370	68498362	345	23	51165	0.93277	0.17547	RP11-474G23.1		
ENSG00000163705	3	10113001	10159915	162	9	41309	0.93276	0.17547	FANCD2OS		
ENSG00000148358	9	132805705	132912448	445	53	48557	0.93268	0.17549	GPR107		
ENSG00000151838	14	59961257	60053549	421	26	43467	0.93236	0.17558	CCDC175		
ENSG00000163467	1	156297105	156326786	64	10	53896	0.93214	0.17563	TSACC		
ENSG00000110075	11	68218186	68392802	452	31	49517	0.93203	0.17566	PPP6R3		
ENSG00000127666	19	4805944	4841716	155	24	42834	0.93174	0.17574	TICAM1		
ENSG00000166828	16	23184036	23238204	242	20	54485	0.93168	0.17575	SCNN1G		
ENSG00000161281	19	36631824	36653771	94	24	47523	0.93148	0.1758	COX7A1		
ENSG00000188655	14	21014252	21039090	73	21	38010	0.93142	0.17582	RNASE9		
ENSG00000137161	6	42886938	42917025	85	19	43460	0.93138	0.17583	CNPY3		
ENSG00000064687	19	1030102	1075571	230	42	45367	0.93124	0.17586	ABCA7		
ENSG00000175877	7	73265489	73290223	57	9	31033	0.93113	0.17589	WBSCR28		
ENSG00000105819	7	102927869	102979958	90	22	50103	0.93071	0.176	PMPCB		
ENSG00000100325	22	30174597	30244271	196	27	39768	0.93065	0.17602	ASCC2		
ENSG00000111224	12	3890213	3992608	350	41	40718	0.93055	0.17604	PARP11		
ENSG00000067606	1	1971909	2126834	481	55	43439	0.93025	0.17612	PRKCZ		

ENSG00000174669	11	66119992	66149685	60	8	37149	0.9298	0.17624	SLC29A2		
ENSG00000173389	3	51918892	51947351	51	11	42247	0.92972	0.17626	IQCF1		
ENSG00000179284	19	13065973	13095567	44	20	39443	0.92933	0.17636	DAND5		
ENSG00000162763	1	165503244	165543198	194	22	37580	0.92886	0.17648	LRRC52		
ENSG00000079785	2	15721302	15781235	215	18	37523	0.92874	0.17651	DDX1		
ENSG00000110906	12	109876461	109925349	221	24	50471	0.92872	0.17652	KCTD10		
ENSG00000204291	9	101695461	101843069	414	60	41953	0.92841	0.1766	COL15A1		
ENSG00000117289	1	145428469	145452635	15	9	44098	0.92807	0.17669	TXNIP		
ENSG00000105996	7	27129721	27152430	51	13	41929	0.92802	0.1767	HOXA2		
ENSG00000178919	9	100605536	100628986	103	8	36509	0.92788	0.17674	FOXE1		
ENSG00000060971	3	38134620	38188733	100	24	42116	0.92716	0.17692	ACAA1		
ENSG00000167173	15	75477984	75514510	41	16	40737	0.927	0.17696	C15orf39		
ENSG00000213625	1	65876270	65911690	81	19	38786	0.92691	0.17699	LEPROT		
ENSG00000124104	20	44452449	44481914	88	19	44143	0.9266	0.17707	SNX21		
ENSG00000184566	11	33892189	33913338	65	18	53660	0.92635	0.17713	AC132216.1		
ENSG00000169062	13	115037059	115081283	127	24	35401	0.92611	0.17719	UPF3A		
ENSG00000114648	3	47314407	47398306	96	20	46317	0.92607	0.1772	KLHL18		
ENSG00000181518	11	123767109	123788183	95	15	55602	0.92555	0.17734	OR8D4		
ENSG00000105971	7	115917434	116158595	770	70	52350	0.92545	0.17737	CAV2		
ENSG00000106868	9	114793065	114947688	438	69	48373	0.92505	0.17747	SUSD1		
ENSG00000182902	22	18033139	18083760	141	37	39379	0.92477	0.17754	SLC25A18		
ENSG00000268170	7	142909163	142929360	22	7	44162	0.92472	0.17756	AC073342.1		
ENSG00000257987	12	49111218	49169569	129	23	41842	0.92364	0.17784	LINC00935		
ENSG00000136527	3	185623694	185665924	93	16	38547	0.92342	0.17789	TRA2B		
ENSG00000206052	18	67058291	67526323	1866	224	48429	0.92343	0.17789	DOK6		
ENSG00000072840	4	5702924	5840772	780	124	48611	0.9234	0.1779	EVC		
ENSG00000173175	3	122991143	123178605	417	47	40695	0.92324	0.17794	ADCY5		
ENSG00000122783	7	134767115	134865547	307	15	52668	0.92289	0.17803	C7orf49		
ENSG00000242515	2	234535100	234691951	584	56	46382	0.92279	0.17806	UGT1A10		
ENSG00000061656	20	34193814	34218971	68	12	35173	0.92259	0.17811	SPAG4		
ENSG00000125787	20	3014268	3036393	55	12	47671	0.92252	0.17813	GNRH2		
ENSG00000005471	7	87021013	87119751	267	25	35969	0.92235	0.17817	ABCB4		
ENSG00000172081	19	2061037	2106672	121	34	49232	0.92228	0.17819	MOB3A		
ENSG00000189159	17	73121343	73174376	122	22	38187	0.92227	0.1782	HN1		
ENSG00000197106	1	110683108	110754824	160	23	31091	0.92207	0.17825	SLC6A17		
ENSG00000111145	12	96578160	96673613	282	55	49359	0.92194	0.17828	ELK3		

ENSG00000167085	17	47471414	47502246	92	24	39778	0.92188	0.1783	<i>PHB</i>		
ENSG00000173825	11	65112238	65135084	32	10	39255	0.92179	0.17832	<i>TIGD3</i>		
ENSG00000122877	10	64561756	64689660	439	45	42671	0.9215	0.1784	<i>EGR2</i>		
ENSG00000196072	10	102023713	102056469	95	14	38810	0.92122	0.17847	<i>BLOC1S2</i>		
ENSG00000204421	6	31676425	31699622	52	14	27143	0.92081	0.17857	<i>LY6G6C</i>		
ENSG00000269415	3	59947215	59967583	125	22	41403	0.92068	0.17861	<i>NPCDR1</i>		
ENSG00000114388	3	50374761	50398522	14	6	53339	0.92063	0.17862	<i>NPRL2</i>		
ENSG00000168734	20	43150426	43262888	243	29	45115	0.92036	0.17869	<i>PKIG</i>		
ENSG00000181788	3	150448914	150491264	54	15	33218	0.92025	0.17872	<i>SIAH2</i>		
ENSG00000108262	17	27890487	27931072	71	19	42855	0.92027	0.17872	<i>GIT1</i>		
ENSG00000163634	3	63809546	63859579	84	19	52686	0.92001	0.17878	<i>THOC7</i>		
ENSG00000204021	10	90474301	90522543	246	14	42965	0.91988	0.17882	<i>LIPK</i>		
ENSG00000106526	7	149931005	150030814	289	33	32079	0.91966	0.17888	<i>ACTR3C</i>		
ENSG00000182957	13	24543944	24891212	1588	217	43415	0.91939	0.17895	<i>SPATA13</i>		
ENSG00000133641	12	88417623	88453937	39	12	48856	0.91909	0.17902	<i>C12orf29</i>		
ENSG00000143641	1	230183536	230427870	954	132	41457	0.91903	0.17904	<i>GALNT2</i>		
ENSG00000112078	6	36400544	36468920	185	18	35520	0.91895	0.17906	<i>KCTD20</i>		
ENSG00000116922	1	38137242	38167914	90	14	45249	0.9189	0.17907	<i>C1orf109</i>		
ENSG00000132554	8	100963164	101153496	379	49	44231	0.91856	0.17916	<i>RGS22</i>		
ENSG00000184209	12	123932188	123967701	67	15	47185	0.91858	0.17916	<i>SNRNP35</i>		
ENSG00000164651	7	20813906	20836505	28	10	53253	0.91846	0.17919	<i>SP8</i>		
ENSG00000088256	19	3084408	3134002	208	37	43619	0.91847	0.17919	<i>GNA11</i>		
ENSG00000142065	19	36817162	36880101	171	17	54398	0.91844	0.17919	<i>ZFP14</i>		
ENSG00000114805	3	155083369	155472856	1224	75	33994	0.91839	0.17921	<i>PLCH1</i>		
ENSG00000178226	16	31140246	31171415	41	15	31968	0.91806	0.17929	<i>PRSS36</i>		
ENSG00000163904	3	185290284	185361339	215	15	43004	0.91805	0.1793	<i>SENP2</i>		
ENSG00000168404	16	74695753	74744858	208	40	48233	0.91803	0.1793	<i>MLKL</i>		
ENSG00000164292	5	95039226	95170087	357	60	49166	0.91789	0.17934	<i>RHOBTB3</i>		
ENSG00000185955	7	100044238	100071894	41	10	50797	0.91778	0.17937	<i>C7orf61</i>		
ENSG00000183230	10	67662276	69465927	7353	329	40226	0.91756	0.17943	<i>CTNNA3</i>		
ENSG00000273025	15	72549087	72622287	138	24	44925	0.91698	0.17958	<i>CELF6</i>		
ENSG00000167634	19	55424877	55487680	316	57	46043	0.91688	0.1796	<i>NLRP7</i>		
ENSG00000168002	11	62519016	62544182	43	10	35591	0.91657	0.17968	<i>POLR2G</i>		
ENSG00000143194	1	166948346	167001451	150	19	42603	0.91646	0.17971	<i>MAEL</i>		
ENSG00000163098	19	53782856	53804875	141	29	43300	0.91637	0.17974	<i>BIRC8</i>		
ENSG00000163006	2	109393213	109511933	276	23	43010	0.91593	0.17985	<i>CCDC138</i>		

ENSG00000136051	12	105491102	105572912	264	27	49045	0.91555	0.17995	KIAA1033		
ENSG00000123297	12	58166372	58211854	68	9	32920	0.91537	0.18	TSFM		
ENSG00000129214	17	7507382	7546700	122	17	35293	0.91524	0.18003	SHBG		
ENSG00000170537	16	18985256	19085264	303	27	37200	0.91457	0.18021	TMC7		
ENSG00000196843	2	97192480	97228375	60	20	34425	0.91452	0.18022	ARID5A		
ENSG00000186474	19	51522348	51548486	48	12	43454	0.91453	0.18022	KLK12		
ENSG00000135931	2	232053260	232249548	447	56	41532	0.91429	0.18028	ARMC9		
ENSG00000204576	6	30514663	30541500	47	10	48757	0.91362	0.18046	PRR3		
ENSG00000115694	2	242422089	242459145	108	20	53031	0.91346	0.1805	STK25		
ENSG00000008018	6	170834205	170872429	121	14	52565	0.91321	0.18057	PSMB1		
ENSG00000221954	11	49993009	50014071	78	13	41239	0.91314	0.18058	OR4C12		
ENSG00000131558	7	132927829	133761342	1653	82	46598	0.91295	0.18063	EXOC4		
ENSG00000174944	3	150919905	151006255	265	36	50520	0.91261	0.18072	P2RY14		
ENSG00000071994	6	170874383	170903780	81	10	55228	0.91246	0.18076	PDCD2		
ENSG00000170100	16	89274118	89305363	171	15	24919	0.91246	0.18076	ZNF778		
ENSG00000089050	20	18457184	18487887	118	19	40196	0.91227	0.18081	RBBP9		
ENSG00000198113	9	140162201	140187093	46	20	42741	0.91226	0.18082	TOR4A		
ENSG00000231213	3	146284342	146334003	338	28	56432	0.91209	0.18086	PLSCR5		
ENSG00000179636	14	21482268	21514435	109	39	45707	0.91205	0.18087	TPPP2		
ENSG00000137802	15	42056632	42130053	149	21	45775	0.91188	0.18092	MAPKBP1		
ENSG00000204428	6	31634461	31661817	64	16	36848	0.91167	0.18097	LY6G5C		
ENSG00000164694	6	159580429	159703141	480	31	34724	0.91168	0.18097	FNDC1		
ENSG00000198130	2	191044461	191218919	544	25	49067	0.91149	0.18102	HIBCH		
ENSG00000077080	7	100230720	100264084	58	15	52974	0.91144	0.18103	ACTL6B		
ENSG00000164167	4	147086837	147131152	152	16	36512	0.91138	0.18105	LSM6		
ENSG00000179403	1	1360241	1388262	48	15	41284	0.91134	0.18106	VWA1		
ENSG00000268193	19	19007822	19055206	103	23	40055	0.91134	0.18106	AC002985.3		
ENSG00000173947	1	111878910	111905635	157	25	47015	0.91116	0.18111	PIFO		
ENSG00000082996	3	149520495	149689926	405	39	51397	0.91081	0.1812	RNF13		
ENSG00000244122	2	234580584	234691945	472	42	45188	0.91027	0.18134	UGT1A7		
ENSG00000254221	5	140719828	140902546	506	57	43498	0.91002	0.18141	PCDHGB1		
ENSG00000198586	2	171837333	172097824	578	35	31602	0.90988	0.18144	TLK1		
ENSG00000265118	17	29622231	29655849	57	6	28454	0.90989	0.18144	CTD-2370N5.3		
ENSG00000133392	16	15787029	15960890	726	98	46489	0.90897	0.18168	MYH11		
ENSG00000166135	10	102278829	102329755	139	8	55643	0.90888	0.18171	HIF1AN		
ENSG00000173214	6	111570551	111602370	87	18	44504	0.90847	0.18181	KIAA1919		

ENSG00000152782	10	91332745	91415215	350	40	37357	0.9084	0.18183	PANK1		
ENSG00000177143	18	570367	591524	111	25	51870	0.90832	0.18185	CETN1		
ENSG00000110844	12	49952001	50048449	144	20	40438	0.90803	0.18193	PRPF40B		
ENSG00000127418	4	993724	1030685	161	31	49913	0.90789	0.18197	FGFRL1		
ENSG00000168484	8	22004426	22031992	79	26	50981	0.9079	0.18197	SFTPC		
ENSG00000174456	12	110455872	110521491	182	29	41467	0.90782	0.18199	C12orf76		
ENSG00000178235	13	84441344	84466528	41	10	50404	0.90765	0.18203	SLITRK1		
ENSG00000123500	6	116430086	116489910	147	25	45578	0.90761	0.18204	COL10A1		
ENSG00000155660	7	148690154	148735733	167	20	35561	0.90739	0.1821	PDIA4		
ENSG00000140545	15	89431916	89466642	160	26	48117	0.90732	0.18212	MFGE8		
ENSG00000052795	4	159680290	159839201	261	23	49461	0.90674	0.18227	FNIP2		
ENSG00000130669	19	39606410	39683456	254	34	53239	0.90668	0.18229	PAK4		
ENSG00000052344	16	31132756	31157083	35	10	32004	0.90649	0.18234	PRSS8		
ENSG00000165646	10	118990604	119048941	165	29	37508	0.90643	0.18235	SLC18A2		
ENSG00000171219	11	64580859	64622041	88	19	35377	0.90637	0.18237	CDC42BPG		
ENSG00000188334	19	48461303	48505427	195	30	45819	0.90626	0.1824	BSPH1		
ENSG00000168569	11	62529101	62569493	62	13	35056	0.90622	0.18241	TMEM223		
ENSG00000153230	1	247891917	247912861	58	9	43546	0.90617	0.18242	OR14K1		
ENSG00000169435	4	74427267	74496348	189	18	51836	0.90608	0.18245	RASSF6		
ENSG00000132855	1	63053158	63081830	28	6	39404	0.90604	0.18246	ANGPTL3		
ENSG00000179397	1	244607679	244814479	693	49	34401	0.90592	0.18249	C1orf101		
ENSG00000165113	9	86344336	86454431	271	15	52189	0.9059	0.18249	GKAP1		
ENSG00000168209	10	74023678	74045794	51	9	26385	0.90593	0.18249	DDIT4		
ENSG00000150261	11	56103421	56124507	84	11	54846	0.90581	0.18252	OR8K1		
ENSG00000175445	8	19749228	19834769	369	39	40551	0.90557	0.18258	LPL		
ENSG00000119953	10	112040488	112074709	93	17	39568	0.90523	0.18267	SMNDC1		
ENSG00000100918	14	24631062	24659463	57	13	47027	0.90496	0.18274	REC8		
ENSG00000101150	20	62486596	62532898	127	19	34472	0.90497	0.18274	TPD52L2		
ENSG00000175604	16	12170603	12194159	111	15	49106	0.90481	0.18278	RP11-276H1.3		
ENSG00000156171	1	111649955	111692838	102	11	32779	0.90474	0.1828	DRAM2		
ENSG00000198830	1	26788941	26812463	53	13	37612	0.9046	0.18284	HMGN2		
ENSG00000167434	17	58217297	58258260	71	21	37291	0.90459	0.18284	CA4		
ENSG00000080511	19	10113925	10142955	166	35	51679	0.9045	0.18286	RDH8		
ENSG00000162777	1	111719796	111757157	89	28	50831	0.90446	0.18288	DENND2D		
ENSG00000218336	4	183055140	183734177	2700	311	47042	0.90442	0.18289	TENM3		
ENSG00000188385	10	133908175	134008313	627	79	47135	0.9042	0.18294	JAKMIP3		

ENSG00000163630	3	63203991	63612597	1723	179	47648	0.90408	0.18298	SYNPR		
ENSG00000106460	7	12240867	12292993	322	20	36175	0.90399	0.183	TMEM106B		
ENSG00000112159	6	90342218	90539442	493	46	53783	0.90378	0.18306	MDN1		
ENSG00000116406	1	184649365	184734047	194	23	36331	0.90363	0.1831	EDEM3		
ENSG00000099204	10	116180872	116454762	848	107	39586	0.90362	0.1831	ABLIM1		
ENSG00000174807	11	66071958	66094515	52	14	38196	0.90305	0.18325	CD248		
ENSG00000125285	13	95351886	95374389	42	12	51594	0.90302	0.18326	SOX21		
ENSG00000204711	9	72425709	72531148	320	44	51914	0.90275	0.18333	C9orf135		
ENSG00000146678	7	45917956	45943267	73	15	50939	0.90271	0.18334	IGFBP1		
ENSG00000172116	2	87032462	87099047	188	25	48098	0.9025	0.1834	CD8B		
ENSG00000266733	17	28874130	28900511	44	12	50397	0.90219	0.18348	TBC1D29		
ENSG00000160678	1	153590402	153614513	61	9	50412	0.90208	0.18351	S100A1		
ENSG00000149115	11	57057112	57102426	131	17	51251	0.90172	0.1836	TNKS1BP1		
ENSG00000088367	20	34669426	34830721	180	26	37009	0.90168	0.18361	EPB41L1		
ENSG00000099949	22	21323751	21363327	142	35	44603	0.9016	0.18363	LZTR1		
ENSG00000263711	18	70808476	70941715	381	45	34000	0.90145	0.18367	RP11-169F17.1		
ENSG00000124098	20	54923971	54953719	91	14	37726	0.90147	0.18367	FAM210B		
ENSG00000117505	1	93801445	93845055	103	13	39280	0.90133	0.18371	DR1		
ENSG00000172640	12	48586081	48607170	147	10	51464	0.90121	0.18374	OR10AD1		
ENSG00000168148	1	228602546	228623026	48	11	42651	0.90114	0.18376	HIST3H3		
ENSG00000135241	7	108100866	108220110	358	35	41970	0.901	0.18379	PNPLA8		
ENSG00000009844	6	142458367	142555826	206	17	39203	0.9007	0.18387	VTG1		
ENSG00000255093	11	111312064	111338876	74	19	50335	0.90065	0.18389	RP11-794P6.2		
ENSG00000119048	5	133696870	133737683	95	8	37867	0.90052	0.18392	UBE2B		
ENSG00000110719	11	67796483	67828362	75	22	52245	0.90046	0.18394	TCIRG1		
ENSG00000213047	1	197463878	197754826	424	34	51468	0.90023	0.184	DENND1B		
ENSG00000068971	11	64675025	64711945	78	13	42149	0.90009	0.18404	PPP2R5B		
ENSG00000182348	7	88378682	88976346	2326	158	44505	0.89978	0.18412	ZNF804B		
ENSG00000197483	19	55977699	56005854	118	30	47222	0.89975	0.18413	ZNF628		
ENSG00000140506	15	75095057	75128099	73	13	30200	0.89951	0.18419	LMAN1L		
ENSG00000111229	12	110862630	110898227	94	13	35820	0.89938	0.18423	ARPC3		
ENSG00000105821	7	102942921	102995320	92	23	49250	0.899	0.18433	DNAJC2		
ENSG00000234224	7	123660973	123683523	72	9	46072	0.89851	0.18446	TMEM229A		
ENSG00000180806	12	54378679	54407121	52	15	47846	0.89822	0.18453	HOXC9		
ENSG00000164530	6	36912209	36942613	133	21	50506	0.89764	0.18469	PI16		
ENSG00000105426	19	5148506	5350814	797	148	47341	0.8976	0.1847	PTPRS		

ENSG00000187905	22	21390249	21428457	131	39	46593	0.89757	0.18471	AC002472.13		
ENSG00000123146	19	14481313	14529537	85	35	44865	0.89748	0.18473	CD97		
ENSG00000055332	2	37316353	37394208	306	31	50666	0.89745	0.18474	EIF2AK2		
ENSG00000165264	9	32542997	32583160	89	17	50815	0.89716	0.18482	NDUFB6		
ENSG00000163808	3	44793209	44924868	190	27	40672	0.89704	0.18485	KIF15		
ENSG00000078487	7	99988449	100036615	79	10	51962	0.897	0.18486	ZCWPW1		
ENSG00000108556	17	4791069	4816369	99	17	39900	0.8968	0.18491	CHRNE		
ENSG00000173821	17	78224665	78382586	558	86	41850	0.8965	0.18499	RNF213		
ENSG00000167528	12	48723791	48755197	78	15	41261	0.89646	0.185	ZNF641		
ENSG00000131097	17	42913721	42937848	76	15	49293	0.89629	0.18505	HIGD1B		
ENSG00000146250	6	84212194	84245423	113	22	44899	0.89585	0.18517	PRSS35		
ENSG00000166136	10	102257203	102299757	100	5	56685	0.89558	0.18524	NDUFB8		
ENSG00000100228	22	23477513	23516537	132	14	52441	0.89554	0.18525	RAB36		
ENSG00000135045	9	77551497	77577802	62	14	41818	0.89551	0.18526	C9orf40		
ENSG00000163113	1	149899705	149992625	139	18	47354	0.89525	0.18533	OTUD7B		
ENSG00000213024	19	50400082	50443020	149	29	42082	0.89523	0.18533	NUP62		
ENSG00000197465	4	144782020	144836716	165	16	46608	0.89485	0.18543	GYPE		
ENSG00000017260	3	130559439	130745556	367	43	45450	0.8946	0.1855	ATP2C1		
ENSG00000221882	17	31711193	3192268	86	6	21342	0.89453	0.18552	OR3A2		
ENSG00000143442	1	151365200	151441941	86	13	50023	0.89437	0.18556	POGZ		
ENSG00000188368	19	42796250	42824973	31	6	50766	0.89423	0.1856	PRR19		
ENSG00000148814	10	134135614	134205010	307	32	44396	0.89401	0.18566	LRRC27		
ENSG00000255524	16	28638975	28680003	37	10	40343	0.89395	0.18567	NPIP8		
ENSG00000090615	12	133335495	133415444	352	45	43767	0.89372	0.18574	GOLGA3		
ENSG00000029534	8	41500739	41764280	856	134	46207	0.89364	0.18576	ANK1		
ENSG00000171729	1	15469028	15556976	538	54	51304	0.89348	0.1858	TMEM51		
ENSG00000115946	2	68374976	68413370	92	13	50218	0.89348	0.1858	PNO1		
ENSG00000157240	7	90883783	90908123	50	10	52919	0.89349	0.1858	FZD1		
ENSG00000174775	11	522242	547287	148	20	52374	0.89303	0.18592	HRAS		
ENSG00000204611	19	52606344	52653175	160	23	42163	0.89287	0.18596	ZNF616		
ENSG00000165678	10	85889196	85923001	103	18	30793	0.89271	0.18601	GHITM		
ENSG00000269554	1	2111237	2133179	44	16	44572	0.89232	0.18611	AL590822.2		
ENSG00000148965	11	18242896	18268440	66	12	31820	0.8919	0.18622	SAA4		
ENSG00000174514	1	205528013	205582046	193	39	37762	0.89178	0.18626	MFSD4		
ENSG00000139324	12	88526073	88603664	105	18	43218	0.89167	0.18629	TMTC3		
ENSG00000144843	3	119288115	119318792	116	12	29518	0.89156	0.18631	ADPRH		

ENSG00000125878	20	574441	601042	100	30	43995	0.89153	0.18632	TCF15		
ENSG00000203867	10	112394155	112609227	779	105	43730	0.89141	0.18635	RBM20		
ENSG00000101773	18	20368224	20616451	613	39	31174	0.89088	0.1865	RBBP8		
ENSG00000128973	15	68489330	68559549	161	15	31511	0.89061	0.18657	CLN6		
ENSG00000184307	3	113656748	113694248	73	22	51447	0.89018	0.18669	ZDHHHC23		
ENSG00000121388	13	19746173	19771496	233	25	50024	0.89015	0.18669	RP11-408E5.4		
ENSG00000153822	17	68039570	68141749	364	30	46920	0.88974	0.1868	KCNJ16		
ENSG00000116726	1	12824984	12848049	62	12	46929	0.88963	0.18683	PRAMEF12		
ENSG00000203943	1	84754049	84865640	264	45	42567	0.88919	0.18695	SAMD13		
ENSG00000182504	3	101432769	101499406	143	17	51486	0.88906	0.18698	CEP97		
ENSG00000198420	7	143538468	143609291	66	16	46019	0.88887	0.18704	FAM115A		
ENSG00000143367	1	151502781	151566059	104	22	38875	0.88868	0.18709	TUFT1		
ENSG00000118432	6	88839583	88886078	124	25	44398	0.88863	0.1871	CNR1		
ENSG00000101246	20	62319996	62349377	88	11	37044	0.88863	0.1871	ARFRP1		
ENSG00000185862	17	29620784	29651130	48	6	29485	0.88861	0.18711	EVI2B		
ENSG00000165406	10	45940035	46100354	599	24	44060	0.88847	0.18714	Mar-08		
ENSG00000255339	10	102255385	102299638	102	6	56693	0.88848	0.18714	NDUFB8		
ENSG00000160712	1	154367669	154451926	228	36	43856	0.88846	0.18715	IL6R		
ENSG00000167531	12	48951467	48973849	61	17	38580	0.88827	0.1872	LALBA		
ENSG00000110172	11	89924328	89966532	183	16	53528	0.88809	0.18725	CHORDC1		
ENSG00000111077	12	53430753	53468156	106	24	35713	0.88793	0.18729	TENC1		
ENSG00000091127	7	105070108	105172714	435	37	34762	0.88774	0.18734	PUS7		
ENSG00000154734	21	28198066	28227728	97	23	48215	0.88774	0.18734	ADAMTS1		
ENSG00000100385	22	37511878	37581094	217	61	48245	0.88773	0.18734	IL2RB		
ENSG00000164815	7	103756788	103858495	405	25	31388	0.8876	0.18738	ORC5		
ENSG00000151135	12	107339497	107382556	124	23	41711	0.88748	0.18741	C12orf23		
ENSG00000131094	17	43027061	43055439	104	24	48697	0.88739	0.18743	C1QL1		
ENSG00000131951	14	60376431	60540277	346	20	30686	0.88736	0.18744	LRRRC9		
ENSG00000214871	7	23200760	23244503	148	10	39604	0.88702	0.18753	AC005082.1		
ENSG00000015475	22	18206906	18267536	245	53	40393	0.88703	0.18753	BID		
ENSG00000215915	1	1375069	1415538	53	18	45324	0.88683	0.18758	ATAD3C		
ENSG00000113361	5	31183857	31339253	390	72	45446	0.88686	0.18758	CDH6		
ENSG00000187545	1	12942727	12968101	11	7	35743	0.88679	0.1876	PRAMEF10		
ENSG00000175946	8	124647767	124675190	125	20	43582	0.88678	0.1876	KLHL38		
ENSG00000198176	13	114229013	114305785	141	18	42685	0.88646	0.18768	TFDP1		
ENSG00000104903	19	13199847	13223975	43	16	47706	0.88614	0.18777	LYL1		

ENSG00000169203	16	29485010	29527320	2	1	28126	0.8861	0.18778	RP11-231C14.4		
ENSG00000269363	2	232561517	232581621	68	10	45266	0.886	0.18781	MGC4771		
ENSG00000221938	7	143816151	143837162	91	5	43824	0.88596	0.18782	OR2A14		
ENSG00000112379	6	138473058	138675800	628	74	39552	0.88578	0.18787	KIAA1244		
ENSG00000006837	5	133531305	133716738	395	21	40553	0.8855	0.18794	CDKL3		
ENSG00000146223	6	42837356	42867663	98	15	40466	0.88535	0.18798	RPL7L1		
ENSG00000214706	3	50315163	50340349	23	9	46125	0.88531	0.188	IFRD2		
ENSG00000048052	7	18116572	19052039	2593	278	43694	0.8852	0.18802	HDAC9		
ENSG00000144724	3	61537243	62293288	2566	270	45163	0.88508	0.18806	PTPRG		
ENSG00000085552	1	159886829	159925386	110	29	41933	0.88497	0.18809	IGSF9		
ENSG00000171631	11	72965550	73019662	123	18	41819	0.88464	0.18818	P2RY6		
ENSG00000165119	9	86572998	86605569	63	12	52529	0.88448	0.18822	HNRNPK		
ENSG00000220201	19	10405479	10430556	88	19	43883	0.88438	0.18824	ZGLP1		
ENSG00000123992	2	220228268	220274744	95	22	42377	0.88436	0.18825	DNPEP		
ENSG00000137831	15	70936893	71065932	232	27	36247	0.8843	0.18827	UACA		
ENSG00000185177	7	57177321	57217571	161	12	35966	0.88416	0.1883	ZNF479		
ENSG00000221823	2	68395989	68493369	227	17	53570	0.88379	0.1884	PPP3R1		
ENSG00000145506	5	998944	1049058	235	33	45518	0.88358	0.18846	NKD2		
ENSG00000172382	16	2752419	2780552	21	13	42708	0.88354	0.18847	PRSS27		
ENSG00000196826	19	12562373	12672288	360	30	46075	0.88354	0.18847	ZNF709		
ENSG00000267059	19	1568338	1615444	72	19	52502	0.88351	0.18848	UQCR11		
ENSG00000071082	2	101608177	101650494	125	16	48934	0.88309	0.1886	RPL31		
ENSG00000035115	2	207730	276398	160	17	51323	0.88234	0.1888	SH3YL1		
ENSG00000183783	4	44165926	44460824	835	96	52921	0.88188	0.18892	KCTD8		
ENSG00000268211	9	131052367	131074212	65	13	34051	0.8819	0.18892	AL359091.2		
ENSG00000260007	15	68476139	68532056	135	14	34654	0.88126	0.18909	RP11-315D16.2		
ENSG00000160401	9	130459268	130488281	30	8	44153	0.88105	0.18915	C9orf117		
ENSG00000248710	3	159935241	160177617	469	52	48636	0.88059	0.18927	RP11-432B6.3		
ENSG00000156502	10	70929988	70978855	167	24	34147	0.88061	0.18927	SUPV3L1		
ENSG00000213578	15	75108888	75134141	48	12	36683	0.88034	0.18934	CPLX3		
ENSG00000100911	14	24602574	24626779	41	17	43547	0.88025	0.18936	PSME2		
ENSG00000143409	1	150959025	150990851	87	19	41828	0.88022	0.18937	FAM63A		
ENSG00000174791	11	66087713	66114311	59	12	35049	0.88013	0.18939	RIN1		
ENSG00000183793	16	15447516	15484904	45	13	38263	0.88011	0.1894	NPIPA5		
ENSG00000255587	6	36673256	36709870	148	24	44298	0.88008	0.18941	RAB44		
ENSG00000206559	3	28380637	28589613	365	32	38154	0.88002	0.18943	ZCWPW2		

ENSG00000152086	2	130939318	130966034	70	7	50076	0.87943	0.18958	TUBA3E		
ENSG00000117143	1	162521323	162579627	113	20	50805	0.87931	0.18962	UAP1		
ENSG00000082516	5	154256976	154327769	202	21	34516	0.87925	0.18963	GEMIN5		
ENSG00000141298	17	27942956	28267294	485	31	40846	0.87923	0.18964	SSH2		
ENSG00000168827	3	158352067	158420364	251	14	56370	0.8792	0.18965	GFM1		
ENSG00000204351	6	31916857	31947532	108	27	39694	0.87919	0.18965	SKIV2L		
ENSG00000213185	10	124598594	124649157	84	19	55764	0.8791	0.18967	FAM24B		
ENSG00000136243	7	23211446	23250630	137	9	39888	0.87898	0.18971	NUPL2		
ENSG00000169247	5	148293202	148452726	527	59	49127	0.87892	0.18972	SH3TC2		
ENSG00000176515	6	1070164	1115181	160	28	39724	0.87878	0.18976	AL033381.1		
ENSG00000031823	19	5906150	5988153	176	33	52869	0.87863	0.1898	RANBP3		
ENSG00000180974	11	5895501	5916527	117	10	56352	0.87838	0.18987	OR52E4		
ENSG00000154096	11	119278090	119305695	75	10	50183	0.87833	0.18988	THY1		
ENSG00000143171	1	165360159	165424433	281	45	42241	0.87816	0.18993	RXRG		
ENSG00000103047	16	68867507	69129083	624	63	47901	0.87813	0.18994	TANGO6		
ENSG00000169814	3	15632848	15697329	156	25	39075	0.87809	0.18995	BTD		
ENSG00000137672	11	101312295	101753293	2008	97	45436	0.878	0.18997	TRPC6		
ENSG00000147416	8	20044878	20094330	108	24	51396	0.87772	0.19005	ATP6V1B2		
ENSG00000135220	4	69784181	69827509	155	14	34307	0.87762	0.19007	UGT2A3		
ENSG00000155975	8	17094080	17169936	271	37	38232	0.87738	0.19014	VPS37A		
ENSG00000104369	8	75136935	75243563	272	37	49958	0.8773	0.19016	JPH1		
ENSG00000142511	19	51263721	51284989	65	26	39469	0.87728	0.19017	GPR32		
ENSG00000181817	1	36846839	36873493	110	10	53013	0.87717	0.1902	LSM10		
ENSG00000204344	6	31928868	31960598	80	22	39538	0.87709	0.19022	STK19		
ENSG00000006740	17	12682856	12904960	936	116	42332	0.87679	0.1903	ARHGAP44		
ENSG00000160679	1	153596525	153628782	75	9	50968	0.87674	0.19032	CHTOP		
ENSG00000145309	4	71190683	71212833	154	12	49325	0.87649	0.19038	CABS1		
ENSG00000204169	10	51454162	51496327	25	8	44003	0.8765	0.19038	AGAP7		
ENSG00000165816	10	115989018	116061272	212	28	48467	0.87647	0.19039	VWA2		
ENSG00000137500	11	82960139	83007450	145	16	49137	0.87647	0.19039	CCDC90B		
ENSG00000158887	1	161264525	161289762	94	19	35111	0.87637	0.19041	MPZ		
ENSG00000144339	2	192803769	193070435	560	97	43770	0.8764	0.19041	TMEFF2		
ENSG00000233863	8	35639365	35663384	13	8	46075	0.87638	0.19041	AC012215.1		
ENSG00000143452	1	150660536	150703364	130	8	51955	0.87634	0.19042	HORMAD1		
ENSG00000162739	1	160444820	160503052	223	33	32011	0.87624	0.19045	SLAMF6		
ENSG00000135604	6	144461663	144519507	113	27	37074	0.87625	0.19045	STX11		

ENSG00000127399	7	150009728	150045239	104	10	50280	0.87626	0.19045	<i>LRRC61</i>		
ENSG00000133619	7	149401872	149441664	117	19	40784	0.87607	0.1905	<i>KRBA1</i>		
ENSG00000109466	4	166118770	166254308	395	40	35202	0.87596	0.19053	<i>KLHL2</i>		
ENSG00000196228	2	108853651	108891807	143	20	33979	0.87589	0.19055	<i>SULT1C3</i>		
ENSG00000179564	3	50306458	50335545	22	8	47539	0.87562	0.19062	<i>LSMEM2</i>		
ENSG00000100249	22	29444660	29467832	83	22	41783	0.87533	0.1907	<i>C22orf31</i>		
ENSG00000145423	4	154691744	154720272	74	12	48321	0.87515	0.19075	<i>SFRP2</i>		
ENSG00000153113	5	95850971	96125299	1097	111	46027	0.87508	0.19076	<i>CAST</i>		
ENSG00000198283	11	58264648	58285578	27	9	51072	0.87503	0.19078	<i>OR5B21</i>		
ENSG00000162009	16	1112756	1141454	165	32	41020	0.87471	0.19086	<i>SSTR5</i>		
ENSG00000241123	21	45989332	46010481	92	12	32500	0.87458	0.1909	<i>KRTAP10-5</i>		
ENSG00000163516	2	220084479	220111391	66	13	41123	0.87412	0.19103	<i>ANKZF1</i>		
ENSG00000254087	8	56782372	56933940	556	59	50250	0.87409	0.19103	<i>LYN</i>		
ENSG00000117877	19	45899467	45924024	67	14	43123	0.87397	0.19107	<i>CD3EAP</i>		
ENSG00000198755	6	35426185	35448562	76	13	28244	0.87369	0.19114	<i>RPL10A</i>		
ENSG00000114745	3	39128150	39159854	87	20	36614	0.87341	0.19122	<i>GORASP1</i>		
ENSG00000187066	11	64842451	64866847	46	12	41775	0.87341	0.19122	<i>TMEM262</i>		
ENSG00000121454	1	180189421	180259380	274	56	44611	0.87339	0.19123	<i>LHX4</i>		
ENSG00000089250	12	117635947	117899975	767	118	43940	0.87338	0.19123	<i>NOS1</i>		
ENSG00000159387	16	55347672	55374672	112	15	50808	0.87311	0.1913	<i>IRX6</i>		
ENSG00000058404	7	44246749	44384176	413	55	49728	0.87304	0.19132	<i>CAMK2B</i>		
ENSG00000159658	1	47114366	47194824	181	14	37644	0.87266	0.19142	<i>EFCAB14</i>		
ENSG00000145337	4	89432136	89454964	21	10	37799	0.87258	0.19144	<i>PYURF</i>		
ENSG00000151655	10	7735232	7801483	304	48	43254	0.87245	0.19148	<i>ITIH2</i>		
ENSG00000104863	19	49607581	49631717	86	17	52012	0.87236	0.1915	<i>LIN7B</i>		
ENSG00000204952	17	37082685	37133655	66	17	51344	0.87228	0.19153	<i>FBXO47</i>		
ENSG00000100106	22	38083011	38182563	294	34	43928	0.8721	0.19158	<i>TRIOBP</i>		
ENSG00000124171	20	49338081	49383332	143	22	48083	0.87205	0.19159	<i>PARD6B</i>		
ENSG00000130813	19	10186798	10213928	44	16	46186	0.87201	0.1916	<i>C19orf66</i>		
ENSG00000118523	6	132259316	132282513	54	16	43520	0.87199	0.19161	<i>CTGF</i>		
ENSG00000102897	16	20901190	20946328	81	15	37787	0.87157	0.19172	<i>LYRM1</i>		
ENSG00000254505	14	24668789	24693075	52	11	42761	0.87104	0.19187	<i>CHMP4A</i>		
ENSG00000099901	22	20093461	20124878	120	16	49082	0.87103	0.19187	<i>RANBP1</i>		
ENSG00000159182	17	46789084	46809884	45	12	46292	0.871	0.19188	<i>PRAC1</i>		
ENSG00000173928	19	11475361	11497627	32	9	43522	0.87098	0.19188	<i>SWSAP1</i>		
ENSG00000105011	19	14220321	14257768	63	10	48469	0.87088	0.19191	<i>ASF1B</i>		

ENSG00000142544	19	51590863	51621627	85	22	45631	0.87039	0.19204	CTU1		
ENSG00000115286	19	1373526	1405583	98	24	36204	0.87013	0.19211	NDUFS7		
ENSG00000162929	2	61283006	61401960	306	28	47274	0.86985	0.19219	KIAA1841		
ENSG00000175548	12	38700380	38727784	99	12	36756	0.8698	0.19221	ALG10B		
ENSG00000189068	19	54534079	54577207	196	37	48902	0.86975	0.19222	VSTM1		
ENSG00000152700	5	133926834	133994961	99	21	40580	0.86958	0.19226	SAR1B		
ENSG00000149503	11	61881445	61930635	203	16	33469	0.86942	0.19231	INCENP		
ENSG00000198967	1	158566229	158587170	75	11	51180	0.86882	0.19247	OR10Z1		
ENSG00000100461	14	23359854	23398393	112	14	46396	0.86878	0.19248	RBM23		
ENSG00000048471	16	12060594	12678146	3113	226	38181	0.86878	0.19248	SNX29		
ENSG00000096080	6	43629040	43665528	116	16	30813	0.86848	0.19257	MRPS18A		
ENSG00000214814	8	124854227	125142302	701	79	51664	0.86845	0.19257	FER1L6		
ENSG00000172179	6	22277480	22307730	67	20	42247	0.86843	0.19258	PRL		
ENSG00000173581	19	56142428	56174527	94	20	41081	0.86845	0.19258	CCDC106		
ENSG00000154678	7	31780793	32348941	2356	224	46379	0.86837	0.19259	PDE1C		
ENSG00000113430	5	1867541	1897350	161	32	52776	0.86834	0.1926	IRX4		
ENSG00000117643	1	25933959	26122698	329	49	41931	0.86833	0.19261	MAN1C1		
ENSG00000160145	3	123788870	124455172	2217	181	47262	0.86813	0.19266	KALRN		
ENSG00000158161	1	28286855	28425207	379	41	45982	0.86805	0.19268	EYA3		
ENSG00000103932	15	41799374	41846467	154	19	45195	0.86738	0.19287	RPAP1		
ENSG00000163157	1	151132462	151158760	22	11	47812	0.86733	0.19288	TMOD4		
ENSG00000023191	11	484512	517300	189	21	54619	0.86703	0.19296	RNH1		
ENSG00000182175	15	93576636	93642433	266	58	44630	0.86696	0.19298	RGMA		
ENSG00000105929	7	138381040	138494305	487	96	49267	0.86694	0.19299	ATP6V0A4		
ENSG00000187689	4	71374257	71408459	222	19	37082	0.86671	0.19305	AMTN		
ENSG00000113555	5	141313150	141359304	114	27	46042	0.86628	0.19317	PCDH12		
ENSG00000119004	2	204093663	204173009	172	19	32408	0.8662	0.19319	CYP20A1		
ENSG00000131373	3	15592211	15653338	137	30	43404	0.86618	0.1932	HACL1		
ENSG00000137770	15	44709432	44831236	239	20	35737	0.86591	0.19327	CTDSPL2		
ENSG00000169397	14	21349558	21370507	39	10	44888	0.8658	0.1933	RNASE3		
ENSG00000253953	5	140757452	140902546	413	50	43816	0.86558	0.19336	PCDHGB4		
ENSG00000203896	20	62356815	62380456	86	11	39612	0.86552	0.19338	LIME1		
ENSG00000103194	16	84723584	84823528	427	56	40886	0.86546	0.19339	USP10		
ENSG00000065328	10	13193554	13263104	307	60	49959	0.86539	0.19341	MCM10		
ENSG00000006625	7	30526237	30601095	212	31	46022	0.86511	0.19349	GGCT		
ENSG00000153292	6	46955440	47020099	173	36	43059	0.86494	0.19354	GPR110		

ENSG00000255974	19	41339443	41366352	106	26	38804	0.86493	0.19354	CYP2A6		
ENSG00000101596	18	2645737	2815015	655	45	47886	0.8649	0.19355	SMCHD1		
ENSG00000138696	4	95669119	96089599	1542	107	46639	0.86467	0.19361	BMPR1B		
ENSG00000157212	7	154725397	154804794	182	16	51361	0.8645	0.19366	PAXIP1		
ENSG00000120616	10	32546679	32677726	403	41	47197	0.86447	0.19366	EPC1		
ENSG00000145428	4	154621277	154691387	258	21	36094	0.86435	0.1937	RNF175		
ENSG00000119969	10	96295547	96383662	199	18	53024	0.86432	0.19371	HELLS		
ENSG00000135637	2	74689113	74720535	22	14	50812	0.86408	0.19377	CCDC142		
ENSG00000109171	4	48333339	48438229	348	28	49981	0.86407	0.19377	SLAIN2		
ENSG00000122585	7	24313782	24341484	130	20	55508	0.86383	0.19384	NPY		
ENSG00000157870	1	2507930	2532908	106	12	35161	0.86379	0.19385	FAM213B		
ENSG00000166164	16	50337398	50412845	191	22	45161	0.86352	0.19393	BRD7		
ENSG00000130045	9	91140016	91209189	87	32	43431	0.86346	0.19394	NXNL2		
ENSG00000272772	5	133492861	133571762	204	13	50262	0.86334	0.19397	CTD-2410N18.5		
ENSG00000184345	3	51885645	51907440	71	8	34673	0.86323	0.19401	IQCF2		
ENSG00000141027	17	15922471	16131499	448	27	43217	0.86259	0.19418	NCOR1		
ENSG00000118492	6	146910101	147146598	689	97	49621	0.86236	0.19424	ADGB		
ENSG00000008196	6	50776436	50825326	135	22	51468	0.86234	0.19425	TFAP2B		
ENSG00000171944	11	5142922	5163872	54	15	51346	0.86234	0.19425	OR52A5		
ENSG00000131203	8	39749794	39795963	143	19	48738	0.86221	0.19429	IDO1		
ENSG00000268759	15	32764822	32790287	1	1	42858	0.86216	0.1943	AC135983.2		
ENSG00000105404	19	42450833	42473542	30	7	45302	0.86211	0.19431	RABAC1		
ENSG00000139436	12	110357607	110444194	196	23	37722	0.86206	0.19433	GIT2		
ENSG00000169598	1	3763845	3811993	273	41	45142	0.86137	0.19452	DFFB		
ENSG00000174607	4	115509611	115609380	232	33	38124	0.86127	0.19455	UGT8		
ENSG00000109472	4	166272346	166429472	776	45	51122	0.86113	0.19458	CPE		
ENSG00000043093	3	182645862	182713741	108	16	31075	0.86096	0.19463	DCUN1D1		
ENSG00000243284	1	159814106	159842447	90	21	42086	0.8609	0.19465	VSIG8		
ENSG00000152784	4	81095033	81135483	140	22	31709	0.86087	0.19465	PRDM8		
ENSG00000065613	10	105716959	105798991	283	22	49328	0.8605	0.19476	SLK		
ENSG00000187231	2	179956419	180139517	541	46	41691	0.86034	0.1948	SESTD1		
ENSG00000055044	2	203120439	203178389	126	16	42098	0.8603	0.19481	NOP58		
ENSG00000175766	5	176047683	176083642	69	16	32628	0.85997	0.1949	EIF4E1B		
ENSG00000255245	11	117680878	117757382	235	61	47091	0.85957	0.19501	FXYP6-FXYP2		
ENSG00000080819	3	98229976	98322567	271	49	45550	0.85905	0.19516	CPOX		
ENSG00000138336	10	70310413	70464239	589	46	43537	0.85889	0.1952	TET1		

ENSG00000072310	17	17703713	17750325	74	9	27020	0.85881	0.19522	<i>SREBF1</i>		
ENSG00000184886	17	34880847	34905159	55	9	30380	0.85877	0.19523	<i>PIGW</i>		
ENSG00000101557	18	148383	224629	184	25	53436	0.85873	0.19525	<i>USP14</i>		
ENSG00000196605	19	9852669	9913856	142	15	36113	0.85859	0.19528	<i>ZNF846</i>		
ENSG00000133477	22	40380953	40449533	110	21	47737	0.85836	0.19535	<i>FAM83F</i>		
ENSG00000173557	2	26775450	26812400	96	23	43943	0.85818	0.1954	<i>C2orf70</i>		
ENSG00000177354	10	50497187	50545537	160	33	49003	0.8581	0.19542	<i>C10orf71</i>		
ENSG00000163961	3	196185654	196240639	185	27	37175	0.85774	0.19552	<i>RNF168</i>		
ENSG00000063515	22	19126089	19147796	77	18	43587	0.85772	0.19552	<i>GSC2</i>		
ENSG00000100034	22	22263793	22317209	172	21	50370	0.85774	0.19552	<i>PPM1F</i>		
ENSG00000165462	11	71940121	71966708	48	12	40775	0.85771	0.19553	<i>PHOX2A</i>		
ENSG00000179008	14	60853187	60992261	332	19	27791	0.85732	0.19564	<i>C14orf39</i>		
ENSG00000197891	11	64348113	64379820	74	10	31359	0.85718	0.19567	<i>SLC22A12</i>		
ENSG00000101265	20	4750669	4814291	331	64	48479	0.8567	0.19581	<i>RASSF2</i>		
ENSG00000082701	3	119530170	119823264	536	46	42213	0.85662	0.19583	<i>GSK3B</i>		
ENSG00000161692	17	42775976	42839632	127	24	54871	0.85602	0.19599	<i>DBF4B</i>		
ENSG00000177275	1	248087071	248108057	58	11	36260	0.85586	0.19604	<i>OR2A1</i>		
ENSG00000010932	1	171207638	171265117	185	31	39420	0.85578	0.19606	<i>FMO1</i>		
ENSG00000163900	3	185184284	185226845	58	9	48372	0.85568	0.19609	<i>TMEM41A</i>		
ENSG00000117036	1	157080983	157118266	65	17	32317	0.85563	0.1961	<i>ETV3</i>		
ENSG00000165495	11	125024583	125313285	868	138	44977	0.85564	0.1961	<i>PKNOX2</i>		
ENSG00000187918	11	5464638	5485707	142	22	39322	0.85534	0.19618	<i>OR51I2</i>		
ENSG00000100316	22	39698887	39726394	124	19	35286	0.85517	0.19623	<i>RPL3</i>		
ENSG00000165879	10	99069022	99091672	97	12	50755	0.85505	0.19626	<i>FRAT1</i>		
ENSG00000150526	14	39689435	39732859	133	20	46437	0.85502	0.19627	<i>MIA2</i>		
ENSG00000205363	15	74022141	74055088	119	21	43787	0.85454	0.1964	<i>C15orf59</i>		
ENSG00000171201	4	71225810	71265961	240	27	44016	0.85445	0.19643	<i>SMR3B</i>		
ENSG00000151962	4	155692365	155759965	144	16	38922	0.85437	0.19645	<i>RBM46</i>		
ENSG00000186529	19	15741707	15783635	345	28	47886	0.85438	0.19645	<i>CYP4F3</i>		
ENSG00000141456	17	4564679	4617632	181	20	37071	0.85422	0.19649	<i>PELP1</i>		
ENSG00000186141	1	145582605	145621025	34	10	43922	0.85412	0.19652	<i>POLR3C</i>		
ENSG00000132517	17	4925895	4965304	155	23	39326	0.85401	0.19655	<i>SLC52A1</i>		
ENSG00000163728	3	180309918	180345616	53	18	45188	0.85388	0.19659	<i>TTC14</i>		
ENSG00000113558	5	133474633	133522729	94	13	43785	0.85366	0.19665	<i>SKP1</i>		
ENSG00000151914	6	56312785	56829426	1151	71	46770	0.85366	0.19665	<i>DST</i>		
ENSG00000141682	18	57557180	57581538	67	20	47455	0.85343	0.19671	<i>PMAIP1</i>		

ENSG00000004468	4	15769898	15864853	311	29	34325	0.85338	0.19672	CD38		
ENSG00000101457	20	44410576	44450066	142	18	47585	0.8534	0.19672	DNTTIP1		
ENSG00000122565	7	26230782	26262976	69	10	50679	0.85244	0.19699	CBX3		
ENSG00000112183	6	17271577	17304106	96	23	53279	0.85235	0.19701	RBM24		
ENSG00000144560	3	11587544	11772220	684	95	39702	0.85228	0.19703	VGLL4		
ENSG00000204427	6	31644726	31681221	84	17	31735	0.85188	0.19714	ABHD16A		
ENSG00000104312	8	90759975	90813291	150	16	31922	0.85189	0.19714	RIPK2		
ENSG00000154162	5	21740782	22863731	3349	220	45201	0.85161	0.19722	CDH12		
ENSG00000138172	10	105196543	105222660	48	18	50522	0.8516	0.19722	CALHM2		
ENSG00000067704	1	220257444	220331380	185	26	53342	0.85157	0.19723	IARS2		
ENSG00000177462	1	248074320	248095258	84	13	28577	0.85153	0.19724	OR2T8		
ENSG00000143486	1	206734620	206795904	208	36	53149	0.85146	0.19726	EIF2D		
ENSG00000253767	5	140762381	140902546	401	49	43547	0.85131	0.1973	PCDHGA8		
ENSG00000166558	16	84033272	84086241	486	71	42075	0.85126	0.19731	SLC38A8		
ENSG00000101017	20	44736911	44768502	106	23	50675	0.85125	0.19732	CD40		
ENSG00000087206	5	176322006	176459634	514	23	45458	0.85096	0.1974	UIMC1		
ENSG00000134183	1	110135889	110165679	64	15	40116	0.85077	0.19745	GNAT2		
ENSG00000111725	12	120095558	120129435	59	9	52153	0.8502	0.19761	PRKAB1		
ENSG00000161888	19	11232196	11276484	247	32	45328	0.85014	0.19762	SPC24		
ENSG00000198774	12	86188331	86240348	229	23	52321	0.85006	0.19765	RASSF9		
ENSG00000168298	6	26146559	26167343	25	10	40967	0.84992	0.19769	HIST1H1E		
ENSG00000198625	1	204475511	204552871	189	15	32499	0.84964	0.19776	MDM4		
ENSG00000183864	22	41819496	41853027	70	6	51545	0.84955	0.19779	TOB2		
ENSG00000130997	4	2063645	2253848	498	19	27951	0.84952	0.1978	POLN		
ENSG00000179051	1	17723256	17776220	180	21	54909	0.84901	0.19794	RCC2		
ENSG00000167165	2	234590253	234691946	420	39	44226	0.84901	0.19794	UGT1A6		
ENSG00000160469	19	55783440	55833901	167	26	52383	0.84878	0.198	BRSK1		
ENSG00000179364	14	105756900	105874484	112	34	47362	0.84852	0.19807	PACS2		
ENSG00000102879	16	30184148	30210397	27	9	38004	0.84834	0.19812	CORO1A		
ENSG00000213088	1	159163097	159186290	82	21	37340	0.84793	0.19824	DARC		
ENSG00000116030	2	203060903	203113331	129	18	53242	0.84741	0.19838	SUMO1		
ENSG00000171772	10	135357404	135392876	163	5	49614	0.84721	0.19844	SYCE1		
ENSG00000141179	17	53818340	53930191	334	28	43582	0.84718	0.19845	PCTP		
ENSG00000143418	1	150923059	150957479	77	13	52190	0.84714	0.19846	CERS2		
ENSG00000162594	1	67622083	67735662	342	45	51757	0.84709	0.19847	IL23R		
ENSG00000175376	11	65754016	65779647	100	12	41621	0.8471	0.19847	EIF1AD		

ENSG00000125812	20	23332787	23363700	117	14	40746	0.84682	0.19855	<i>GZF1</i>		
ENSG00000203772	10	135224170	135392916	572	52	41499	0.84675	0.19857	<i>SPRN</i>		
ENSG00000118298	1	150219554	150247478	35	9	46634	0.84658	0.19862	<i>CA14</i>		
ENSG00000154485	10	127445022	127474390	47	14	52791	0.84655	0.19862	<i>MMP21</i>		
ENSG00000172828	16	66985140	67019051	50	21	48607	0.84657	0.19862	<i>CES3</i>		
ENSG00000138136	10	102976733	102999551	42	12	43684	0.84629	0.19869	<i>LBX1</i>		
ENSG00000172005	2	95681422	95729737	58	18	49417	0.84596	0.19879	<i>MAL</i>		
ENSG00000132321	2	237222794	237426185	477	51	49677	0.8458	0.19883	<i>IQCA1</i>		
ENSG00000169208	14	22027934	22048875	128	26	43317	0.84582	0.19883	<i>OR10G3</i>		
ENSG00000158806	8	21871636	21904408	83	26	44131	0.84572	0.19886	<i>NPM2</i>		
ENSG00000221840	11	51401378	51422448	95	11	45440	0.84534	0.19896	<i>OR4A5</i>		
ENSG00000163536	3	167443031	167553356	379	34	43812	0.84475	0.19913	<i>SERPINI1</i>		
ENSG00000160563	9	134725494	134965295	373	47	45967	0.8441	0.19931	<i>MED27</i>		
ENSG00000065457	16	75620879	75667198	109	19	37005	0.84396	0.19935	<i>ADAT1</i>		
ENSG00000171094	2	29405640	30154432	2757	231	43080	0.84369	0.19942	<i>ALK</i>		
ENSG00000112699	6	1614041	2255926	1771	203	45481	0.84352	0.19947	<i>GMDS</i>		
ENSG00000136235	7	23265586	23324727	98	16	40396	0.84353	0.19947	<i>GNMB</i>		
ENSG00000170638	22	50614344	50648027	141	24	46018	0.84347	0.19948	<i>TRABD</i>		
ENSG00000153207	1	246992400	247105280	305	38	42347	0.8432	0.19956	<i>AHCTF1</i>		
ENSG00000204590	6	30499154	30534951	66	14	50044	0.84293	0.19964	<i>GNL1</i>		
ENSG00000137825	15	41775591	41805747	73	20	49246	0.84287	0.19965	<i>ITPKA</i>		
ENSG00000111906	6	125531108	125633282	340	34	43543	0.84255	0.19974	<i>HDCC2</i>		
ENSG00000118113	11	102572526	102607781	194	30	41816	0.8422	0.19984	<i>MMP8</i>		
ENSG00000043355	13	100624026	100649018	45	17	36665	0.84211	0.19986	<i>ZIC2</i>		
ENSG00000170006	4	153529784	153611317	243	50	47200	0.84205	0.19988	<i>TMEM154</i>		
ENSG00000188817	3	63628344	63674696	211	25	48859	0.84181	0.19995	<i>SNTN</i>		
ENSG00000150076	10	32822297	33181802	1550	60	42153	0.84144	0.20005	<i>C10ORF68</i>		
ENSG00000198691	1	94448393	94596688	584	100	43267	0.84138	0.20007	<i>ABCA4</i>		
ENSG00000171649	19	58079824	58115145	66	9	56400	0.84129	0.20009	<i>ZIK1</i>		
ENSG00000183605	10	120890279	120935179	144	21	45912	0.84121	0.20011	<i>SFXN4</i>		
ENSG00000251247	19	37331263	37413931	246	27	35576	0.84102	0.20017	<i>ZNF345</i>		
ENSG00000267173	19	44823848	44915774	344	49	38076	0.84077	0.20024	<i>CTC-512J12.6</i>		
ENSG00000156395	10	106390859	107034993	2086	113	46478	0.8407	0.20026	<i>SORCS3</i>		
ENSG00000177674	1	11786141	11824859	95	24	43122	0.84066	0.20027	<i>AGTRAP</i>		
ENSG00000134072	3	9789026	9821676	68	18	50185	0.84064	0.20028	<i>CAMK1</i>		
ENSG00000071189	7	17820385	17990124	419	30	39418	0.84055	0.2003	<i>SNX13</i>		

ENSG00000149527	1	2347419	2446969	356	74	44900	0.84048	0.20032	PLCH2		
ENSG00000223865	6	33033703	33064978	503	20	25755	0.84022	0.20039	HLA-DPB1		
ENSG00000198346	19	53960989	54016950	369	68	48080	0.84021	0.20039	ZNF813		
ENSG00000042813	7	49880017	50170925	867	41	50519	0.84015	0.20041	ZPBP		
ENSG00000269282	12	48749919	48771738	42	8	45879	0.84007	0.20043	AC024257.1		
ENSG00000135956	2	96904254	96941732	46	16	46560	0.84002	0.20045	TMEM127		
ENSG00000145721	5	96417574	96488576	151	29	45181	0.83994	0.20047	LIX1		
ENSG00000132622	20	3703314	3743758	132	41	45775	0.83993	0.20047	HSPA12B		
ENSG00000205649	4	70884130	70912255	104	17	49431	0.83984	0.2005	HTN3		
ENSG00000173039	11	65411067	65440565	56	12	43645	0.83983	0.2005	RELA		
ENSG00000113441	5	96261098	96383219	388	26	49121	0.83978	0.20052	LNPEP		
ENSG00000186652	11	57144267	57168130	46	10	51659	0.83956	0.20058	PRG2		
ENSG00000066813	16	20537548	20597749	159	21	26564	0.83955	0.20058	ACSM2B		
ENSG00000132199	18	660324	722676	322	27	40215	0.83936	0.20063	ENOSF1		
ENSG00000106348	7	128022331	128060306	127	25	51275	0.83929	0.20065	IMPDH1		
ENSG00000196504	2	153498107	153584511	244	25	49087	0.83918	0.20068	PRPF40A		
ENSG00000219016	22	48924712	48953199	114	29	45098	0.83908	0.20071	CTA-299D3.8		
ENSG00000115241	2	27594061	27642554	79	9	35220	0.83899	0.20074	PPM1G		
ENSG00000113389	5	32679176	32801819	368	50	52539	0.83899	0.20074	NPR3		
ENSG00000179094	17	8033790	8069824	111	19	47783	0.83899	0.20074	PER1		
ENSG00000101639	18	12981361	13135051	512	40	38875	0.83892	0.20076	CEP192		
ENSG00000165805	12	88363816	88437814	140	18	39327	0.8388	0.20079	C12orf50		
ENSG00000174970	11	55724975	55745990	195	7	54631	0.83829	0.20093	OR10AG1		
ENSG00000181827	15	56369478	56545483	552	27	39496	0.83721	0.20124	RFX7		
ENSG00000140284	15	50464393	50538592	338	40	42386	0.83705	0.20128	SLC27A2		
ENSG00000241119	2	234570499	234691946	507	46	45650	0.83671	0.20138	UGT1A9		
ENSG00000184226	13	66866967	67814468	2515	228	49804	0.83666	0.20139	PCDH9		
ENSG00000161267	3	197226654	197310194	376	54	45284	0.83646	0.20145	BDH1		
ENSG00000138294	10	51539498	51572517	52	14	45599	0.83618	0.20153	MSMB		
ENSG00000184840	5	177009159	177033125	90	17	51184	0.83603	0.20157	TMED9		
ENSG00000136161	13	49053095	49117369	79	15	33871	0.83604	0.20157	RCBTB2		
ENSG00000095627	10	115929029	116002063	215	18	53241	0.836	0.20158	TDRD1		
ENSG00000128165	22	50909985	50934869	75	29	45951	0.836	0.20158	ADM2		
ENSG00000095380	9	100809021	100855357	106	13	34824	0.8359	0.2016	NANS		
ENSG00000198171	20	3160996	3195331	176	29	49292	0.83572	0.20166	DDRCK1		
ENSG00000196967	19	37587636	37673643	254	21	47241	0.83551	0.20171	ZNF585A		

ENSG00000140937	16	64967656	65170015	655	65	44281	0.8353	0.20178	<i>CDH11</i>		
ENSG00000139197	12	7331281	7381170	189	25	40035	0.83513	0.20182	<i>PEX5</i>		
ENSG00000137936	1	94017347	94322706	1045	66	34568	0.83508	0.20184	<i>BCAR3</i>		
ENSG00000147872	9	19098373	19159288	228	41	45129	0.8349	0.20189	<i>PLIN2</i>		
ENSG00000072571	5	162877209	162928947	130	22	46695	0.83485	0.2019	<i>HMMR</i>		
ENSG00000253537	5	140752467	140902546	432	51	43877	0.83475	0.20193	<i>PCDHGA7</i>		
ENSG00000184584	5	138845119	138872520	46	15	39077	0.83467	0.20195	<i>TMEM173</i>		
ENSG00000127831	2	219273815	219328018	83	14	41168	0.83465	0.20196	<i>VIL1</i>		
ENSG00000107581	10	120784356	120850316	104	14	29393	0.83442	0.20202	<i>EIF3A</i>		
ENSG00000137992	1	100642475	100725390	201	19	29853	0.8344	0.20203	<i>DBT</i>		
ENSG00000113575	5	133520025	133571833	147	8	52591	0.83424	0.20207	<i>PPP2CA</i>		
ENSG00000037637	1	16563334	16688949	318	21	43435	0.83409	0.20211	<i>FBXO42</i>		
ENSG00000153574	2	88981162	89060452	205	13	27300	0.83391	0.20217	<i>RPIA</i>		
ENSG00000136834	9	125229220	125250235	90	18	48791	0.83333	0.20233	<i>OR1J1</i>		
ENSG00000125899	20	10998408	11020014	44	18	46265	0.83274	0.20249	<i>C20orf187</i>		
ENSG00000176204	2	76964845	77830445	3388	232	41485	0.83259	0.20254	<i>LRRTM4</i>		
ENSG00000185634	15	49105932	49265641	429	75	43838	0.83252	0.20256	<i>SHC4</i>		
ENSG00000116983	1	40134320	40167361	148	28	47896	0.83243	0.20258	<i>HPCAL4</i>		
ENSG00000244355	6	31673133	31695581	52	15	27144	0.83237	0.2026	<i>LY6G6D</i>		
ENSG00000255472	14	21490977	21512054	90	31	46560	0.8323	0.20262	<i>RP11-998D10.1</i>		
ENSG00000206150	14	21490979	21512944	90	31	46560	0.8323	0.20262	<i>RNASE13</i>		
ENSG00000273294	5	33977279	34134633	341	48	38795	0.83222	0.20264	<i>RP11-1084J3.4</i>		
ENSG00000205327	12	55876147	55897100	106	17	41579	0.83207	0.20269	<i>OR6C68</i>		
ENSG00000220205	17	8052467	8076864	65	12	46389	0.83207	0.20269	<i>VAMP2</i>		
ENSG00000151929	10	121400882	121447331	177	29	43525	0.83179	0.20276	<i>BAG3</i>		
ENSG00000144395	2	197494278	197638214	332	31	44795	0.83165	0.2028	<i>CCDC150</i>		
ENSG00000177663	22	17555844	17606583	151	38	44920	0.83164	0.20281	<i>IL17RA</i>		
ENSG00000117586	1	173142873	173186452	130	20	39978	0.83149	0.20285	<i>TNFSF4</i>		
ENSG00000095203	9	111924255	112093244	466	86	44173	0.83146	0.20286	<i>EPB41L4B</i>		
ENSG00000197776	14	50149823	50229870	103	21	45914	0.83112	0.20295	<i>KLHDC1</i>		
ENSG00000135472	12	50250679	50308000	222	44	47690	0.83109	0.20296	<i>FAIM2</i>		
ENSG00000187959	17	71234588	71268491	112	13	45302	0.8308	0.20304	<i>CPSF4L</i>		
ENSG00000013561	5	141327893	141379856	204	21	46945	0.83061	0.2031	<i>RNF14</i>		
ENSG00000107159	9	35663853	35691156	74	19	49443	0.83036	0.20317	<i>CA9</i>		
ENSG00000172938	11	68737490	68758455	67	15	44492	0.83033	0.20318	<i>MRGPRD</i>		
ENSG00000121716	7	99923737	99975356	103	10	52755	0.83006	0.20325	<i>PILRB</i>		

ENSG00000129244	17	7539945	7571086	141	11	28871	0.82953	0.2034	ATP1B2		
ENSG00000145391	4	140407095	140537853	375	76	49574	0.82894	0.20357	SETD7		
ENSG00000075826	10	102236399	102299628	135	8	56351	0.82895	0.20357	SEC31B		
ENSG00000142207	21	33673329	33775335	265	21	34592	0.82851	0.20369	URB1		
ENSG00000169727	17	79998567	80025346	83	19	38042	0.82833	0.20374	GPS1		
ENSG00000215217	5	7820491	7861603	133	23	44222	0.82826	0.20376	C5orf49		
ENSG00000185246	14	45543302	45595485	93	11	33203	0.82819	0.20378	PRPF39		
ENSG00000138944	22	44629547	44718731	372	85	44962	0.8278	0.20389	KIAA1644		
ENSG00000164122	4	177124824	177208722	355	41	48842	0.82747	0.20399	ASB5		
ENSG00000245317	5	179276013	179298283	71	14	38576	0.8272	0.20406	CTC-241N9.1		
ENSG00000253731	5	140743651	140902546	448	53	43870	0.82705	0.2041	PCDHGA6		
ENSG00000115806	2	171774974	171833639	135	15	26526	0.82696	0.20413	GORASP2		
ENSG00000161513	17	72848619	72879156	71	9	35557	0.82696	0.20413	FDXR		
ENSG00000033100	7	150919575	150945908	73	13	56916	0.82693	0.20414	CHPF2		
ENSG00000126353	17	38700021	38731724	67	24	44688	0.8267	0.2042	CCR7		
ENSG00000183309	8	144708183	144745900	96	22	36514	0.8266	0.20423	ZNF623		
ENSG00000139289	12	76409227	76437712	54	18	38743	0.8264	0.20429	PHLDA1		
ENSG00000144406	2	210626717	210874024	530	52	33300	0.82629	0.20432	UNC80		
ENSG00000125648	19	6426090	6475214	191	32	44322	0.8262	0.20435	SLC25A23		
ENSG00000157764	7	140409127	140634564	431	27	32638	0.82615	0.20436	BRAF		
ENSG00000068885	3	159964774	160127668	274	37	49544	0.82586	0.20444	IFT80		
ENSG00000165115	9	86441613	86546342	254	19	50655	0.82586	0.20444	KIF27		
ENSG00000132535	17	7083209	7133021	88	25	46990	0.8257	0.20449	DLG4		
ENSG00000111907	6	125430195	125595553	541	72	42454	0.82556	0.20453	TPD52L1		
ENSG00000101331	20	30588245	30629984	84	15	42904	0.8254	0.20457	CCM2L		
ENSG00000225556	1	151800295	151823033	63	17	43777	0.82458	0.20481	C2CD4D		
ENSG00000152520	13	28702643	28879475	360	34	40557	0.82453	0.20482	PAN3		
ENSG00000127481	1	19391000	19546770	350	34	54271	0.8245	0.20483	UBR4		
ENSG00000137100	9	34603548	34630515	51	12	49676	0.82425	0.2049	DCTN3		
ENSG00000119541	18	61046423	61099716	111	16	38855	0.82426	0.2049	VPS4B		
ENSG00000143727	2	254140	288283	73	10	51874	0.82417	0.20492	ACP1		
ENSG00000120942	1	11323263	11366106	99	15	33575	0.82377	0.20504	UBIAD1		
ENSG00000136732	2	127403509	127464246	278	46	46891	0.82377	0.20504	GYPC		
ENSG00000181007	19	36864022	36919558	156	15	51206	0.82354	0.2051	ZFP82		
ENSG00000205301	4	141353416	141429531	255	25	51827	0.8235	0.20511	RP11-542P2.1		
ENSG00000198598	12	132302938	132346328	176	43	40114	0.82331	0.20516	MMP17		

ENSG00000118960	2	20750208	20860849	482	74	48104	0.82321	0.20519	HS1BP3		
ENSG00000183307	22	17587189	17612257	109	25	42849	0.82323	0.20519	CECR6		
ENSG00000197182	22	46439749	46519808	232	53	44092	0.82251	0.20539	FLJ27365		
ENSG00000186777	4	254464	309110	225	23	52559	0.82242	0.20542	ZNF732		
ENSG00000137942	1	93903688	94030218	182	36	42004	0.82214	0.2055	FNBP1L		
ENSG00000267909	14	70028216	70050339	48	10	44589	0.82178	0.2056	CCDC177		
ENSG00000090382	12	69732121	69758014	108	17	39395	0.82162	0.20565	LYZ		
ENSG00000095110	11	114382437	114440617	187	11	31758	0.82159	0.20566	NXPE1		
ENSG00000128510	7	129922974	129974020	162	29	53062	0.82147	0.20569	CPA4		
ENSG00000240053	6	31627944	31651553	84	20	38995	0.82142	0.2057	LY6G5B		
ENSG00000169604	2	69230310	69486459	639	107	41338	0.82137	0.20572	ANTXR1		
ENSG00000188219	2	131965882	132032965	33	11	39658	0.82131	0.20573	POTEE		
ENSG00000106689	9	126753949	126805580	143	28	43923	0.82117	0.20578	LHX2		
ENSG00000115317	2	74746504	74770472	16	9	40808	0.8211	0.2058	HTRA2		
ENSG00000196517	1	44447172	44507139	115	32	39202	0.82092	0.20585	SLC6A9		
ENSG00000186496	18	32936661	32967301	63	14	37434	0.82091	0.20585	ZNF396		
ENSG00000183474	5	68846035	68900550	8	5	38855	0.82037	0.206	GTF2H2C		
ENSG00000187778	12	49940327	49971936	60	8	35040	0.82039	0.206	MCRS1		
ENSG00000181929	12	49386057	49422980	47	10	50989	0.82019	0.20605	PRKAG1		
ENSG00000179626	12	55934983	55956028	49	13	48637	0.82013	0.20607	OR6C4		
ENSG00000186895	11	69614992	69643792	130	18	52516	0.81995	0.20612	FGF3		
ENSG00000083444	1	11984262	12045595	174	24	43261	0.81982	0.20616	PLOD1		
ENSG00000152527	2	43854412	44005126	655	58	46705	0.81982	0.20616	PLEKHH2		
ENSG00000241635	2	234516291	234691956	655	64	46566	0.81964	0.20621	UGT1A8		
ENSG00000185888	1	227993394	228044171	199	34	42197	0.81957	0.20623	PRSS38		
ENSG00000268964	19	53537991	53564329	60	10	51202	0.81927	0.20632	ERVV-2		
ENSG00000174015	13	46266446	46298694	98	20	43599	0.81915	0.20635	SPERT		
ENSG00000204657	6	29545683	29566745	70	17	32787	0.81903	0.20639	OR2H2		
ENSG00000155368	2	120114497	120140126	128	14	53761	0.81874	0.20647	DBI		
ENSG00000142676	1	24008269	24032915	58	11	23370	0.81862	0.2065	RPL11		
ENSG00000149516	11	59814060	59848601	127	15	46074	0.81862	0.2065	MS4A3		
ENSG00000132950	13	20387622	20447776	212	11	45619	0.81862	0.2065	ZMYM5		
ENSG00000171988	10	64916981	65235722	789	50	37781	0.81826	0.2066	JMJD1C		
ENSG00000198797	1	177130633	177261558	287	39	44066	0.81819	0.20663	BRINP2		
ENSG00000162148	11	61238592	61268403	86	14	35504	0.81802	0.20667	PPP1R32		
ENSG00000187800	1	156853490	156896226	117	15	46361	0.81742	0.20684	PEAR1		

ENSG00000148690	10	95417640	95472329	210	18	38959	0.81733	0.20687	<i>FRA10AC1</i>		
ENSG00000136327	14	37039784	37061812	79	9	39447	0.81734	0.20687	<i>NKX2-8</i>		
ENSG00000204899	13	73272495	73311825	81	19	48014	0.81718	0.20691	<i>MZT1</i>		
ENSG00000180370	3	196456728	196569518	470	61	41117	0.8171	0.20694	<i>PAK2</i>		
ENSG00000158467	7	128854864	129080052	504	44	44635	0.81703	0.20696	<i>AHCYL2</i>		
ENSG00000120526	8	110243148	110356614	298	23	47828	0.81677	0.20703	<i>NUDCD1</i>		
ENSG00000262628	17	2955963	2976901	13	7	31230	0.81669	0.20705	<i>OR1D5</i>		
ENSG00000130413	11	8403418	8625836	841	54	47607	0.81657	0.20709	<i>STK33</i>		
ENSG00000175206	1	11895766	11918402	111	19	48214	0.81646	0.20712	<i>NPPA</i>		
ENSG00000074416	3	127397909	127552051	454	86	49466	0.81644	0.20712	<i>MGLL</i>		
ENSG00000167721	17	2215797	2250801	67	19	50247	0.81629	0.20717	<i>TSR1</i>		
ENSG00000162494	1	13791445	13850543	263	61	44737	0.81612	0.20722	<i>LRRC38</i>		
ENSG00000070501	8	42185972	42239326	105	14	37329	0.81608	0.20723	<i>POLB</i>		
ENSG00000198466	19	58351225	58386480	132	20	34551	0.81602	0.20724	<i>ZNF587</i>		
ENSG00000166349	11	36522259	36624706	242	33	48934	0.81589	0.20728	<i>RAG1</i>		
ENSG00000137055	9	26894081	26957461	223	23	46383	0.81563	0.20735	<i>PLAA</i>		
ENSG00000111652	12	6822907	6851041	146	23	47335	0.81537	0.20743	<i>COPS7A</i>		
ENSG00000168807	16	69211032	69352955	339	34	55376	0.81528	0.20746	<i>SNTB2</i>		
ENSG00000160785	1	156153880	156192587	104	11	36976	0.81481	0.20759	<i>SLC25A44</i>		
ENSG00000124440	19	46790303	46856690	307	42	49951	0.81473	0.20761	<i>HIF3A</i>		
ENSG00000157538	21	38585721	38650262	177	30	53862	0.81465	0.20764	<i>DSCR3</i>		
ENSG00000144827	3	111687857	111722210	178	19	53501	0.8146	0.20765	<i>ABHD10</i>		
ENSG00000204348	6	31927587	31950069	85	23	39553	0.81457	0.20766	<i>DXO</i>		
ENSG00000127220	19	17392940	17431045	186	21	43945	0.81452	0.20767	<i>ABHD8</i>		
ENSG00000153037	5	112186919	112215485	117	20	39928	0.81427	0.20775	<i>SRP19</i>		
ENSG00000007171	17	26073792	26137525	218	35	40542	0.81422	0.20776	<i>NOS2</i>		
ENSG00000029364	14	69854732	69939105	217	25	54559	0.81389	0.20785	<i>SLC39A9</i>		
ENSG00000259752	15	47415693	47436320	54	11	53274	0.81344	0.20798	<i>FKSG62</i>		
ENSG00000177103	11	117288489	117698240	1604	210	44942	0.81317	0.20806	<i>DSCAML1</i>		
ENSG00000011422	19	44140247	44184699	149	32	47354	0.81299	0.20811	<i>PLAUR</i>		
ENSG00000100150	22	32139944	32313012	529	45	51072	0.81286	0.20815	<i>DEPDC5</i>		
ENSG00000262576	5	140724768	140902546	492	55	43373	0.81278	0.20817	<i>PCDHGA4</i>		
ENSG00000112297	6	106949730	107028326	424	39	45370	0.81263	0.20821	<i>AIM1</i>		
ENSG00000121807	3	46385225	46412419	87	12	37525	0.81258	0.20823	<i>CCR2</i>		
ENSG00000172915	13	35506424	36257159	2252	130	49486	0.81239	0.20828	<i>NBEA</i>		
ENSG00000177374	17	1947448	1972981	68	18	47634	0.8121	0.20837	<i>HIC1</i>		

ENSG00000182611	6	27772112	27792607	51	11	41443	0.81202	0.20839	<i>HIST1H2AJ</i>		
ENSG00000196730	9	90102143	90333548	896	110	43469	0.812	0.2084	<i>DAPK1</i>		
ENSG00000253910	5	140729703	140902546	483	55	43573	0.81188	0.20843	<i>PCDHGB2</i>		
ENSG00000181785	11	55787895	55808869	209	8	54143	0.81179	0.20846	<i>OR5AS1</i>		
ENSG00000157827	2	153181751	153516348	1097	108	44083	0.81166	0.20849	<i>FMNL2</i>		
ENSG00000115468	2	233460767	233557491	311	51	47198	0.81169	0.20849	<i>EFHD1</i>		
ENSG00000134698	1	36263773	36333491	77	17	44228	0.8116	0.20851	<i>AGO4</i>		
ENSG00000198624	5	150550613	150613706	287	56	47262	0.81146	0.20855	<i>CCDC69</i>		
ENSG00000100479	14	50100273	50165140	152	14	42205	0.81135	0.20858	<i>POLE2</i>		
ENSG00000171169	9	130813512	130840485	53	7	31646	0.81127	0.2086	<i>NAIF1</i>		
ENSG00000197701	4	43179	98099	95	15	43856	0.8111	0.20866	<i>ZNF595</i>		
ENSG00000132872	18	40837843	40867615	55	15	46482	0.81097	0.20869	<i>SYT4</i>		
ENSG00000115274	2	74672150	74698011	8	5	44542	0.81077	0.20875	<i>INO80B</i>		
ENSG00000204435	6	31623013	31648120	88	20	36804	0.81062	0.20879	<i>CSNK2B</i>		
ENSG00000172201	6	19827617	19850915	84	23	47523	0.81046	0.20884	<i>ID4</i>		
ENSG00000079387	12	48426681	48510091	263	24	42978	0.81035	0.20887	<i>SEN1</i>		
ENSG00000175356	11	9031071	9169661	398	67	48732	0.80953	0.2091	<i>SCUBE2</i>		
ENSG00000067167	8	71475677	71530622	133	19	42773	0.80934	0.20916	<i>TRAM1</i>		
ENSG00000213139	3	186246230	186274491	37	11	37845	0.80923	0.20919	<i>CRYGS</i>		
ENSG00000119397	9	123827141	123949888	287	24	38517	0.80923	0.20919	<i>CNTRL</i>		
ENSG00000148291	9	136213428	136238045	72	10	50599	0.80879	0.20932	<i>SURF2</i>		
ENSG00000225362	15	71392583	71417833	50	9	30637	0.80878	0.20932	<i>CT62</i>		
ENSG00000204463	6	31596805	31630482	135	25	42524	0.80872	0.20934	<i>BAG6</i>		
ENSG00000197713	2	210857289	210896300	46	15	42673	0.80799	0.20955	<i>RPE</i>		
ENSG00000261934	5	140772520	140902546	367	46	43108	0.80791	0.20957	<i>PCDHGA9</i>		
ENSG00000178537	3	48884369	48946426	67	12	35860	0.8075	0.20969	<i>SLC25A20</i>		
ENSG00000134717	1	52511797	52566388	84	17	47519	0.80736	0.20973	<i>BTF3L4</i>		
ENSG00000112812	6	27205480	27234403	86	16	40738	0.80681	0.20989	<i>PRSS16</i>		
ENSG00000171241	16	46604466	46665538	50	27	45561	0.80677	0.2099	<i>SHCBP1</i>		
ENSG00000198718	14	45421411	45553634	271	21	37021	0.80673	0.20991	<i>FAM179B</i>		
ENSG00000172377	11	57875972	57896916	65	10	39696	0.80648	0.20998	<i>OR9I1</i>		
ENSG00000135341	6	91213292	91306764	315	28	55170	0.80644	0.20999	<i>MAP3K7</i>		
ENSG00000169507	2	165742696	165822035	265	28	43913	0.80625	0.21005	<i>SLC38A11</i>		
ENSG00000262209	5	140739831	140902546	456	53	43621	0.8062	0.21006	<i>PCDHGB3</i>		
ENSG00000184619	17	8261955	8290029	81	14	54007	0.8062	0.21006	<i>KRBA2</i>		
ENSG00000118515	6	134480384	134649250	528	93	46677	0.80618	0.21007	<i>SGK1</i>		

ENSG00000185219	3	44471262	44529162	92	17	39319	0.80615	0.21008	ZNF445		
ENSG00000136044	12	105557074	105640016	301	33	50365	0.80609	0.2101	APPL2		
ENSG00000204569	6	30558177	30596389	113	8	24389	0.80594	0.21014	PPP1R10		
ENSG00000226364	17	50929481	50986948	323	27	46082	0.80595	0.21014	AC102948.2		
ENSG00000184682	11	1900375	1922084	73	20	42646	0.80564	0.21023	C11orf89		
ENSG00000131398	19	50805194	50846772	97	31	46736	0.80547	0.21027	KCNC3		
ENSG00000149133	11	55751157	55772101	182	9	51957	0.80503	0.2104	OR5F1		
ENSG00000124391	16	88694999	88716881	103	34	44374	0.80485	0.21045	IL17C		
ENSG00000253250	8	91960865	92007485	85	14	38541	0.80483	0.21046	C8orf88		
ENSG00000083844	19	57692868	57734724	132	20	49381	0.8043	0.21061	ZNF264		
ENSG00000089847	19	4173351	4234811	210	41	44360	0.80415	0.21065	ANKRD24		
ENSG00000166126	14	103378993	103409933	88	29	45748	0.80406	0.21068	AMN		
ENSG00000136371	15	80115927	80199721	301	35	52877	0.80405	0.21068	MTHFS		
ENSG00000213719	6	31688358	31717540	69	21	34637	0.80399	0.2107	CLIC1		
ENSG00000170616	8	145544228	145569943	37	13	44668	0.80391	0.21072	SCRT1		
ENSG00000103174	16	5064845	5094142	100	21	45233	0.80392	0.21072	NAGPA		
ENSG00000079841	6	72586406	73122845	1566	84	47314	0.80387	0.21074	RIMS1		
ENSG00000105671	19	19020484	19049436	64	18	39521	0.8036	0.21081	DDX49		
ENSG00000179930	1	182013705	182040847	74	9	37633	0.80343	0.21086	ZNF648		
ENSG00000144426	2	203869602	204101101	381	36	38096	0.80345	0.21086	NBEAL1		
ENSG00000240303	3	132266982	132389567	240	32	38930	0.80328	0.21091	ACAD11		
ENSG00000061337	8	20093676	20171474	309	68	46812	0.80306	0.21097	LZTS1		
ENSG00000167825	11	55692932	55713876	156	7	56296	0.80305	0.21097	OR5I1		
ENSG00000173040	4	5534499	5721275	777	103	42262	0.80297	0.211	EVC2		
ENSG00000092200	14	21746098	21829460	267	41	48447	0.80292	0.21101	RPGRIP1		
ENSG00000116273	1	6663745	6694093	63	11	56282	0.80288	0.21102	PHF13		
ENSG00000180066	10	134247831	134272912	67	18	39779	0.80285	0.21103	C10orf91		
ENSG00000245680	19	37662481	37719055	95	17	47063	0.80282	0.21104	ZNF585B		
ENSG00000169071	9	94315373	94722444	1669	150	43818	0.80251	0.21113	ROR2		
ENSG00000179603	7	126068652	126903348	2479	144	48392	0.80243	0.21115	GRM8		
ENSG00000163382	1	156551554	156574091	101	7	21417	0.80222	0.21121	APOA1BP		
ENSG00000101746	18	31421064	31814916	939	104	53192	0.80221	0.21122	NOL4		
ENSG00000204347	17	72342555	72368085	67	15	45950	0.8021	0.21125	BTBD17		
ENSG00000134317	2	10075341	10152411	416	47	46779	0.80198	0.21128	GRHL1		
ENSG00000164045	3	48188636	48239892	83	13	46026	0.802	0.21128	CDC25A		
ENSG00000213064	1	168185176	168232263	101	14	37280	0.80193	0.2113	SFT2D2		

ENSG00000168427	2	239037363	239071588	134	34	49182	0.8019	0.21131	KLHL30		
ENSG00000082805	12	1089675	1615099	2053	103	42616	0.80161	0.21139	ERC1		
ENSG00000138615	15	65478337	65513826	53	9	39923	0.80149	0.21142	CILP		
ENSG00000118514	6	135228528	135281260	112	16	37879	0.8013	0.21148	ALDH8A1		
ENSG00000076864	1	21912708	22005801	397	82	49524	0.80089	0.2116	RAP1GAP		
ENSG00000178997	15	41464923	41532941	293	17	29223	0.80073	0.21164	EXD1		
ENSG00000031081	3	119003220	119149561	574	90	46167	0.8006	0.21168	ARHGAP31		
ENSG00000143158	1	167875967	167916278	72	11	41592	0.80029	0.21177	MPC2		
ENSG00000156802	8	124322090	124438590	209	36	41880	0.80031	0.21177	ATAD2		
ENSG00000253305	5	140777770	140902546	350	44	43292	0.80016	0.21181	PCDHGB6		
ENSG00000171222	20	34531539	34557394	64	10	30813	0.79987	0.21189	SCAND1		
ENSG00000168216	6	70375694	70517003	464	21	53643	0.79968	0.21195	LMBRD1		
ENSG00000135093	12	109450894	109535831	159	34	47420	0.79929	0.21206	USP30		
ENSG00000106682	7	73578575	73621431	63	13	47198	0.79919	0.21209	EIF4H		
ENSG00000197262	17	34629793	34651846	1	1	42834	0.79916	0.2121	CCL4L2		
ENSG00000033327	11	77916343	78139394	464	16	24966	0.79903	0.21214	GAB2		
ENSG00000197943	16	81762702	82001899	1532	187	46963	0.79891	0.21217	PLCG2		
ENSG00000173744	2	228326868	228435930	429	36	55404	0.79881	0.2122	AGFG1		
ENSG00000221937	7	142909130	142930162	24	7	45268	0.79869	0.21224	TAS2R40		
ENSG00000254873	11	118257810	118282610	49	11	41086	0.79843	0.21231	RP11-770J1.5		
ENSG00000185823	15	24910541	24938593	168	20	50801	0.79827	0.21236	NPAP1		
ENSG00000152034	6	100357786	100452123	277	37	51363	0.79789	0.21247	MCHR2		
ENSG00000237693	5	150216085	150290298	287	12	28092	0.79774	0.21251	IRGM		
ENSG00000088727	3	47259516	47334941	111	18	41498	0.79765	0.21254	KIF9		
ENSG00000153823	2	229705242	230146001	1557	171	48280	0.79741	0.21261	PID1		
ENSG00000269679	18	77265812	77286057	118	18	44775	0.7974	0.21261	AC018445.1		
ENSG00000166228	10	72632037	72658541	95	23	50426	0.79703	0.21272	PCBD1		
ENSG00000137960	1	78435226	78614133	523	49	46971	0.79694	0.21274	GIPC2		
ENSG00000183313	11	5997122	6018215	76	21	53884	0.79693	0.21275	OR52L1		
ENSG00000176895	11	4918600	4939538	75	17	40480	0.79689	0.21276	OR51A7		
ENSG00000167772	19	8418173	8449257	88	16	53513	0.79687	0.21276	ANGPTL4		
ENSG00000181938	16	58318984	58450048	516	67	44309	0.79682	0.21278	GINS3		
ENSG00000183773	22	21309396	21345649	92	28	41093	0.79676	0.21279	AIFM3		
ENSG00000196199	13	20197788	20257599	139	16	47363	0.79674	0.2128	MPHOSPH8		
ENSG00000171466	19	9749330	9795776	123	14	36033	0.79673	0.21281	ZNF562		
ENSG00000165949	14	94561182	94593033	123	24	34941	0.79648	0.21288	IFI27		

ENSG00000250361	4	144907257	145071844	611	52	47130	0.79631	0.21293	<i>GYPB</i>		
ENSG00000204262	2	189886622	190054605	518	32	43377	0.79609	0.21299	<i>COL5A2</i>		
ENSG00000225921	6	13605559	13642971	71	15	53157	0.79593	0.21304	<i>NOL7</i>		
ENSG00000261732	16	1672260	1746716	144	17	38830	0.79589	0.21305	<i>LA16c-431H6.6</i>		
ENSG00000254709	22	23219960	23248287	29	13	39677	0.79563	0.21312	<i>IGLL5</i>		
ENSG00000167619	19	42807477	42839214	33	7	51210	0.79561	0.21313	<i>TMEM145</i>		
ENSG00000155621	9	74516426	74610970	170	32	42691	0.79516	0.21326	<i>C9orf85</i>		
ENSG00000022976	14	102773714	102819044	123	24	39514	0.79473	0.21338	<i>ZNF839</i>		
ENSG00000140807	16	50572241	50680647	164	26	37791	0.79457	0.21343	<i>NKD1</i>		
ENSG00000101473	20	44460360	44496045	127	24	45573	0.79455	0.21344	<i>ACOT8</i>		
ENSG00000253485	5	140733898	140902546	470	54	43470	0.79436	0.21349	<i>PCDHGA5</i>		
ENSG00000063244	19	56155512	56196081	123	20	39923	0.79406	0.21358	<i>U2AF2</i>		
ENSG00000111665	12	6943957	6971230	41	13	42041	0.79398	0.2136	<i>CDCA3</i>		
ENSG00000188038	16	67908708	67932758	39	10	50793	0.79394	0.21361	<i>NRN1L</i>		
ENSG00000196409	9	40750700	40846415	54	7	43543	0.79386	0.21364	<i>ZNF658</i>		
ENSG00000250510	12	6920711	6949136	105	29	36258	0.79377	0.21366	<i>GPR162</i>		
ENSG00000242689	11	58380146	58403198	50	10	53092	0.7937	0.21369	<i>CNTF</i>		
ENSG00000162825	1	144136808	144234481	2	1	42552	0.79321	0.21383	<i>NBPF8</i>		
ENSG00000116685	1	11969648	11996485	105	19	53175	0.7931	0.21386	<i>KIAA2013</i>		
ENSG00000115364	2	75863909	75927977	210	28	45970	0.79308	0.21387	<i>MRPL19</i>		
ENSG00000166716	15	85281866	85359659	205	27	45805	0.79306	0.21387	<i>ZNF592</i>		
ENSG00000047849	3	47882182	48140769	326	25	40513	0.79297	0.2139	<i>MAP4</i>		
ENSG00000253873	5	140790762	140901835	312	41	43454	0.79277	0.21396	<i>PCDHGA11</i>		
ENSG00000186185	17	42992077	43035082	149	31	50586	0.79247	0.21404	<i>KIF18B</i>		
ENSG00000140993	16	3338832	3365729	41	10	38696	0.79243	0.21405	<i>TIGD7</i>		
ENSG00000255073	11	58336645	58402112	136	20	52790	0.7922	0.21412	<i>ZFP91-CNTF</i>		
ENSG00000138646	4	89368268	89437314	62	24	50892	0.79204	0.21417	<i>HERC5</i>		
ENSG00000179840	1	9702668	9724644	54	8	28882	0.79195	0.2142	<i>C1orf200</i>		
ENSG00000126878	9	133961863	134008539	157	28	40451	0.79191	0.21421	<i>AIF1L</i>		
ENSG00000140474	15	75118457	75145687	44	10	35895	0.79178	0.21424	<i>ULK3</i>		
ENSG00000105672	19	36122647	36145773	54	15	37994	0.79178	0.21425	<i>ETV2</i>		
ENSG00000079246	2	216962187	217081026	299	36	41944	0.79156	0.21431	<i>XRCC5</i>		
ENSG00000076706	11	119169241	119202231	40	16	42969	0.79155	0.21431	<i>MCAM</i>		
ENSG00000108654	17	62485734	62514317	57	12	36701	0.79117	0.21442	<i>DDX5</i>		
ENSG00000080986	18	2561510	2626634	218	29	53545	0.79101	0.21447	<i>NDC80</i>		
ENSG00000184022	1	248746052	248767100	7	4	43234	0.79095	0.21449	<i>OR2T10</i>		

ENSG00000156017	9	77585936	77653339	183	27	40871	0.79081	0.21453	<i>C9orf41</i>		
ENSG00000090104	1	192534857	192559161	85	14	36707	0.79043	0.21464	<i>RGS1</i>		
ENSG00000169813	10	43871065	43914614	173	22	32968	0.79042	0.21464	<i>HNRNPF</i>		
ENSG00000205765	5	41894290	41931738	57	12	43973	0.78997	0.21477	<i>C5orf51</i>		
ENSG00000136573	8	11341510	11432113	404	45	35790	0.78995	0.21478	<i>BLK</i>		
ENSG00000138346	10	70163821	70241879	329	28	29325	0.78984	0.21481	<i>DNA2</i>		
ENSG00000170145	11	111463115	111611577	359	23	27737	0.78969	0.21485	<i>SIK2</i>		
ENSG00000125454	17	73259073	73295591	125	19	33200	0.78968	0.21486	<i>SLC25A19</i>		
ENSG00000268706	18	61592042	61619601	80	7	38218	0.78966	0.21486	<i>AC009802.1</i>		
ENSG00000104490	8	102688771	103147135	1556	151	42903	0.78957	0.21489	<i>NCALD</i>		
ENSG00000206560	3	15698743	15911278	427	29	42001	0.78954	0.2149	<i>ANKRD28</i>		
ENSG00000267845	9	139209089	139229640	58	13	49102	0.78949	0.21491	<i>DKFZP434A062</i>		
ENSG00000126603	16	4354762	4399598	100	31	41394	0.78922	0.21499	<i>GLIS2</i>		
ENSG00000103569	15	58420368	58488110	236	43	47321	0.78908	0.21503	<i>AQP9</i>		
ENSG00000172154	11	55850753	55871762	187	8	54427	0.78903	0.21505	<i>OR8I2</i>		
ENSG00000172188	11	55360830	55381874	41	5	49331	0.78891	0.21508	<i>OR4C11</i>		
ENSG00000137522	11	71629747	71718643	248	15	39033	0.78893	0.21508	<i>RNF121</i>		
ENSG00000244476	6	11092722	11121965	137	13	52540	0.78889	0.21509	<i>ERVFRD-1</i>		
ENSG00000138587	15	56703742	56767335	160	24	48637	0.78879	0.21512	<i>MNS1</i>		
ENSG00000163814	3	45113770	45197914	321	72	48515	0.78868	0.21515	<i>CDCP1</i>		
ENSG00000197852	1	112213252	112308446	375	51	49967	0.7886	0.21517	<i>FAM212B</i>		
ENSG00000103035	16	74320673	74350186	99	17	50410	0.78856	0.21519	<i>PSMD7</i>		
ENSG00000228157	17	18986287	19010150	1	1	43266	0.78851	0.2152	<i>AC007952.5</i>		
ENSG00000165807	14	65006620	65066098	194	28	51619	0.78843	0.21522	<i>PPP1R36</i>		
ENSG00000125991	20	34119770	34155405	93	11	41686	0.78845	0.21522	<i>ERGIC3</i>		
ENSG00000103227	16	893634	1041318	861	74	35388	0.78838	0.21524	<i>LMF1</i>		
ENSG00000138794	4	110599785	110634739	78	11	52724	0.78827	0.21527	<i>CASP6</i>		
ENSG00000100902	14	35737839	35796699	217	24	44914	0.78818	0.2153	<i>PSMA6</i>		
ENSG00000057757	1	24094895	24124722	27	10	50609	0.78799	0.21535	<i>PITHD1</i>		
ENSG00000185716	16	22008959	22108855	112	22	44836	0.78778	0.21541	<i>C16orf52</i>		
ENSG00000101542	18	58990815	59233006	687	164	46150	0.7877	0.21544	<i>CDH20</i>		
ENSG00000125901	20	3016591	3038900	65	13	48367	0.78761	0.21546	<i>MRPS26</i>		
ENSG00000184786	6	170130210	170161655	88	15	33495	0.78759	0.21547	<i>TCTE3</i>		
ENSG00000183734	11	2279725	2302182	109	19	37485	0.78718	0.21559	<i>ASCL2</i>		
ENSG00000180919	11	6118914	6140065	98	6	21621	0.7871	0.21561	<i>OR56B4</i>		
ENSG00000171425	19	56136825	56166988	97	21	43583	0.78688	0.21568	<i>ZNF581</i>		

ENSG00000122481	1	95689711	95722781	126	24	47013	0.78673	0.21572	RWDD3		
ENSG00000088833	20	1412807	1464487	137	22	46472	0.78672	0.21572	NSFL1C		
ENSG00000139908	14	24664903	24687568	61	11	41987	0.78655	0.21577	TSSK4		
ENSG00000164989	9	15542895	16071661	1847	52	44630	0.78647	0.2158	CCDC171		
ENSG00000263020	6	31623879	31651323	91	21	37492	0.78636	0.21583	CSNK2B-LY6G5B-1181		
ENSG00000186193	9	139946581	139975040	79	17	47530	0.78623	0.21587	SAPCD2		
ENSG00000050130	14	59941161	59982128	187	16	40721	0.78612	0.2159	JKAMP		
ENSG00000183889	16	16401301	16454447	5	3	36983	0.7861	0.2159	NPIPA7		
ENSG00000104499	8	143905663	144007922	443	30	31645	0.78606	0.21592	GML		
ENSG00000173566	8	21954383	21976932	88	12	53692	0.78595	0.21595	NUDT18		
ENSG00000186628	15	83414114	83484822	179	25	44262	0.78576	0.216	FSD2		
ENSG00000149972	11	98881683	100239616	6192	390	45679	0.78571	0.21602	CNTN5		
ENSG00000186660	11	58336584	58398515	129	20	52888	0.78558	0.21606	ZFP91		
ENSG00000273047	20	62359623	62381751	88	13	40119	0.78553	0.21607	RP4-583P15.14		
ENSG00000225932	7	143870559	143893146	17	5	44454	0.78547	0.21609	CTAGE4		
ENSG00000254122	5	140787427	140902546	320	42	43345	0.78532	0.21613	PCDHGB7		
ENSG00000106688	9	4480444	4597469	441	73	45846	0.78526	0.21615	SLC1A1		
ENSG00000004776	19	36235469	36258980	58	14	45381	0.78507	0.21621	HSPB6		
ENSG00000124003	2	223526505	223584649	203	39	34414	0.78495	0.21624	MOGAT1		
ENSG00000162039	16	1873984	1944295	541	12	52610	0.78475	0.2163	MEIOB		
ENSG00000232941	8	52720143	52740969	59	11	33148	0.7847	0.21631	AC090186.1		
ENSG00000188404	1	169649808	169690839	190	25	46819	0.78464	0.21633	SELL		
ENSG00000134308	2	9714101	9781143	140	21	40654	0.78423	0.21645	YWHAQ		
ENSG00000005073	7	27211129	27234842	41	18	48133	0.78421	0.21646	HOXA11		
ENSG00000167549	17	27931774	27959925	35	12	44214	0.78391	0.21655	CORO6		
ENSG00000078269	6	158392888	158530208	497	59	50479	0.78382	0.21657	SYNJ2		
ENSG00000253159	5	140800185	140902546	302	40	43429	0.7837	0.21661	PCDHGA12		
ENSG00000099804	19	521714	552097	193	43	41354	0.78369	0.21661	CDC34		
ENSG00000253846	5	140782743	140902546	338	44	43310	0.78368	0.21662	PCDHGA10		
ENSG00000102921	16	48562637	48664059	217	11	38917	0.78345	0.21668	N4BP1		
ENSG00000186231	6	97362605	97598630	798	84	44951	0.78334	0.21671	KLHL32		
ENSG00000115507	2	63267192	63294971	22	10	52610	0.78331	0.21672	OTX1		
ENSG00000198554	14	55395668	55503823	289	28	42934	0.78328	0.21673	WDHD1		
ENSG00000127989	7	91311323	91520034	417	30	44933	0.78325	0.21674	MTERF		
ENSG00000172922	11	65472367	65498418	95	16	38039	0.78322	0.21675	RNASEH2C		
ENSG00000131386	3	16206156	16283499	280	52	46343	0.78306	0.2168	GALNT15		

ENSG00000137757	11	104854962	104903895	194	22	51428	0.7829	0.21684	CASP5		
ENSG00000185008	3	75945846	77709115	5774	417	46219	0.78246	0.21697	ROBO2		
ENSG00000111667	12	6951292	6985796	36	8	43632	0.78248	0.21697	USP5		
ENSG00000267360	19	37573921	37711414	356	29	47235	0.78243	0.21698	CTC-454I21.3		
ENSG00000136840	9	130660165	130689317	60	25	41157	0.78198	0.21711	ST6GALNAC4		
ENSG00000134827	11	59610273	59644048	36	15	51283	0.78199	0.21711	TCN1		
ENSG00000181610	17	55906842	55937417	96	20	48579	0.78185	0.21715	MRPS23		
ENSG00000183287	18	57088172	57374612	1194	147	43768	0.78144	0.21727	CCBE1		
ENSG00000162415	1	45472071	45781881	707	50	45175	0.78126	0.21732	ZSWIM5		
ENSG00000130635	9	137523620	137746686	1052	133	44319	0.78117	0.21735	COL5A1		
ENSG00000189433	1	35215342	35239325	95	18	51433	0.78109	0.21738	GJB4		
ENSG00000075420	3	171747418	172129455	1069	134	45089	0.78106	0.21738	FNDC3B		
ENSG00000171055	2	36768570	36883230	433	59	46953	0.78081	0.21746	FEZ2		
ENSG00000149483	11	61119473	61146981	8	4	38968	0.78076	0.21747	TMEM138		
ENSG00000139155	12	20838289	20916320	364	35	38386	0.78072	0.21748	SLCO1C1		
ENSG00000099849	11	550404	574021	145	23	48360	0.78062	0.21751	RASSF7		
ENSG00000258247	12	95760984	95784672	120	18	41128	0.78037	0.21759	RP11-167N24.6		
ENSG00000269358	1	224205760	224226371	20	6	48056	0.78033	0.2176	AC138393.1		
ENSG00000198471	3	187406047	187430345	118	17	39736	0.78025	0.21762	RTP2		
ENSG00000101745	18	9126226	9295983	536	42	45901	0.78024	0.21762	ANKRD12		
ENSG00000266118	2	24337236	24423305	329	32	47975	0.78016	0.21765	RP11-507M3.1		
ENSG00000126062	3	50382180	50407041	14	6	53400	0.78016	0.21765	TMEM115		
ENSG00000120868	12	99028919	99139204	265	30	53233	0.78009	0.21767	APAF1		
ENSG00000172020	3	115332171	115450337	331	75	47885	0.77996	0.21771	GAP43		
ENSG00000204568	6	30575486	30604172	81	9	27194	0.77994	0.21771	MRPS18B		
ENSG00000263809	17	8261956	8296505	106	18	54137	0.77997	0.21771	RP11-849F2.7		
ENSG00000100412	22	41855129	41934993	117	18	48846	0.77951	0.21784	ACO2		
ENSG00000147676	8	120167273	120267913	344	43	39929	0.77948	0.21785	MAL2		
ENSG00000118596	12	59979848	60186395	614	46	43600	0.77918	0.21794	SLC16A7		
ENSG00000109181	4	69671711	69706914	147	19	44440	0.77891	0.21802	UGT2B10		
ENSG00000113716	5	149369884	149442386	191	21	37118	0.77867	0.21809	HMGXB3		
ENSG00000085514	7	99955153	100007719	80	10	51048	0.77848	0.21814	PILRA		
ENSG00000133027	17	17398877	17505022	296	34	33720	0.77843	0.21816	PEMT		
ENSG00000215454	21	45983606	46004987	82	12	35474	0.77835	0.21818	KRTAP10-4		
ENSG00000258529	11	111647010	111760149	244	22	39224	0.77783	0.21833	ALG9		
ENSG00000121073	17	47768305	47796376	45	14	48886	0.77779	0.21835	SLC35B1		

ENSG00000161970	17	8270838	8296531	84	14	55454	0.77736	0.21847	RPL26		
ENSG00000269855	19	58897457	58918407	72	13	46259	0.77657	0.2187	AC012313.1		
ENSG00000135392	12	56204744	56234608	39	16	43646	0.77656	0.21871	DNAJC14		
ENSG00000160539	9	134155081	134194649	133	17	51154	0.77629	0.21879	PPAPDC3		
ENSG00000184047	12	122682210	122722081	73	14	38140	0.77595	0.21889	DIABLO		
ENSG00000138175	10	104423488	104484164	117	21	41475	0.77578	0.21894	ARL3		
ENSG00000066294	1	160500885	160559306	245	29	31255	0.7757	0.21896	CD84		
ENSG00000160325	9	136315089	136345970	96	20	47831	0.77543	0.21904	CACFD1		
ENSG00000185274	7	70587155	71188585	2225	206	43933	0.77523	0.2191	WBSCR17		
ENSG00000217075	2	36748948	36789411	120	22	53188	0.77509	0.21914	AC007401.2		
ENSG00000115275	2	74678184	74702537	11	6	44081	0.77509	0.21914	MOGS		
ENSG00000180767	3	126233126	126272134	161	26	42038	0.7751	0.21914	CHST13		
ENSG00000220032	18	74197477	74220045	49	14	49861	0.77496	0.21918	RP11-17M16.1		
ENSG00000026950	6	26392465	26425444	153	10	50101	0.77485	0.21921	BTN3A1		
ENSG00000204422	6	31644739	31691849	109	22	30321	0.77481	0.21923	XXbac-BPG32J3.20		
ENSG00000174744	11	66094804	66122596	61	11	37318	0.77434	0.21937	BRMS1		
ENSG00000158552	2	220049959	220084373	52	15	31658	0.77407	0.21944	ZFAND2B		
ENSG00000153944	17	55323212	55772046	1362	220	47072	0.77408	0.21944	MSI2		
ENSG00000134283	12	42622249	42863517	704	39	48446	0.77369	0.21956	PPHLN1		
ENSG00000018236	12	41076244	41476220	1498	101	49641	0.77357	0.21959	CNTN1		
ENSG00000184056	15	91531646	91575833	147	24	39675	0.77354	0.2196	VPS33B		
ENSG00000173077	9	117894097	118174923	1099	107	47296	0.77345	0.21963	Dec-01		
ENSG00000099330	19	17327013	17350028	128	19	42896	0.77306	0.21974	OCEL1		
ENSG00000129562	14	23023805	23068175	286	21	34290	0.77296	0.21977	DAD1		
ENSG00000146063	5	180639499	180672809	124	25	35370	0.77251	0.21991	TRIM41		
ENSG00000145777	5	110395760	110423722	58	17	41190	0.77233	0.21996	TSLP		
ENSG00000143369	1	150470538	150496265	66	14	37090	0.77212	0.22002	ECM1		
ENSG00000164500	7	50125632	50209426	332	22	51013	0.77203	0.22005	C7orf72		
ENSG00000148948	11	40125753	41491323	4219	288	49548	0.77194	0.22008	LRRC4C		
ENSG00000116514	1	33392046	33440286	108	14	49857	0.77183	0.22011	RNF19B		
ENSG00000116954	1	39293870	39335495	108	20	40898	0.77156	0.22019	RRAGC		
ENSG00000163817	3	45786942	45848027	143	47	45961	0.77145	0.22022	SLC6A20		
ENSG00000256073	21	33755439	33776254	53	7	36176	0.77138	0.22024	C21orf119		
ENSG00000166147	15	48690503	48948046	536	35	40041	0.77053	0.22049	FBN1		
ENSG00000132485	1	71518974	71556980	102	19	52912	0.77051	0.2205	ZRANB2		
ENSG00000183840	2	133164147	133414132	750	101	40931	0.77045	0.22052	GPR39		

ENSG00000138375	2	217267137	217357776	365	36	40350	0.77044	0.22052	SMARCA1		
ENSG00000164266	5	147194131	147221349	71	19	46180	0.77039	0.22053	SPINK1		
ENSG00000058091	7	90085738	90849905	2704	150	49820	0.7704	0.22053	CDK14		
ENSG00000212123	19	5772971	5794776	97	15	32967	0.77036	0.22054	PRR22		
ENSG00000196562	20	46275092	46425360	660	145	47192	0.77034	0.22055	SULF2		
ENSG00000136267	7	14174674	15024402	3017	231	41408	0.77021	0.22059	DGKB		
ENSG00000139168	12	42695880	42729920	93	12	50487	0.76958	0.22077	ZCRB1		
ENSG00000196734	1	152774447	152795585	47	15	50148	0.76955	0.22078	LCE1B		
ENSG00000232833	9	67774944	67796624	1	1	43041	0.76949	0.2208	FAM27E3		
ENSG00000196242	1	247683434	247707141	97	18	51505	0.76946	0.22081	OR2C3		
ENSG00000211460	2	122484679	122535429	88	15	36513	0.76944	0.22081	TSN		
ENSG00000100897	14	24573404	24604451	64	11	31260	0.7692	0.22089	DCAF11		
ENSG00000021776	15	35137732	35272040	362	32	40208	0.76913	0.22091	AQR		
ENSG00000148225	9	116065502	116112578	177	19	38342	0.76909	0.22092	WDR31		
ENSG00000270800	6	34246547	34403825	342	20	44814	0.76889	0.22098	RPS10-NUDT3		
ENSG00000174197	15	41903422	42072141	372	35	36643	0.76874	0.22102	MGA		
ENSG00000214941	17	15869874	15913031	135	15	42091	0.76866	0.22105	ZSWIM7		
ENSG00000132970	13	27121840	27273085	557	50	52147	0.76863	0.22106	WASF3		
ENSG00000186340	6	169605875	169664139	326	58	51278	0.7686	0.22107	THBS2		
ENSG00000213015	19	56136382	56164835	91	20	44465	0.76859	0.22107	ZNF580		
ENSG00000025039	6	90064355	90131989	175	36	49651	0.76853	0.22109	RRAGD		
ENSG00000261272	6	30968251	31013179	676	59	48384	0.76837	0.22113	MUC22		
ENSG00000119707	14	73515144	73598122	189	33	50988	0.7683	0.22115	RBM25		
ENSG00000215018	7	7385834	7585484	728	64	44050	0.76827	0.22116	COL28A1		
ENSG00000204930	9	35806388	35838744	58	12	40905	0.76826	0.22117	FAM221B		
ENSG00000183470	7	132323553	132423528	257	40	44128	0.76818	0.22119	AC009365.3		
ENSG00000134121	3	228279	461090	958	113	38301	0.76768	0.22134	CHL1		
ENSG00000149380	11	73936846	74032702	242	25	46041	0.76732	0.22145	P4HA3		
ENSG00000181790	8	143520791	143636370	301	67	43671	0.76712	0.2215	BAI1		
ENSG00000268111	20	44085910	44117452	119	20	33771	0.76692	0.22156	AL031663.1		
ENSG00000165983	10	16468942	16565736	419	44	36911	0.76626	0.22176	PTER		
ENSG00000145982	6	5251277	5781813	1940	248	44616	0.76604	0.22182	FARS2		
ENSG00000269549	20	44064071	44087220	59	14	33834	0.76606	0.22182	AL031663.2		
ENSG00000103490	16	31202806	31224771	20	8	40197	0.76604	0.22183	PYCARD		
ENSG00000261359	16	31203206	31224773	20	8	40197	0.76604	0.22183	C16orf98		
ENSG00000204681	6	29513406	29611753	380	43	44496	0.76597	0.22185	GABBR1		

ENSG00000171680	1	6516152	6590121	195	32	38911	0.76591	0.22187	PLEKHG5		
ENSG00000101654	18	13716659	13774557	190	25	47125	0.76546	0.222	RNMT		
ENSG00000168490	8	22067222	22099854	91	22	45961	0.76531	0.22204	PHYHIP		
ENSG00000264813	17	61552184	61609209	140	21	48146	0.76516	0.22209	ACE		
ENSG00000269048	6	166935369	166957709	107	13	54039	0.76498	0.22214	Z98049.1		
ENSG00000148483	10	17784251	17852867	37	12	16080	0.76482	0.22219	TMEM236		
ENSG00000259371	14	24580560	24611038	58	9	33103	0.7648	0.2222	RP11-468E2.6		
ENSG00000108001	10	131623547	131772105	343	105	44554	0.76474	0.22221	EBF3		
ENSG00000257040	14	72446191	72468326	122	15	52297	0.76468	0.22223	AC005477.1		
ENSG00000256618	17	22012437	22033991	107	20	52437	0.76466	0.22224	MTRNR2L1		
ENSG00000162444	1	10047264	10086078	82	14	38258	0.76458	0.22226	RBP7		
ENSG00000172156	17	32602687	32625353	78	13	53837	0.76453	0.22228	CCL11		
ENSG00000144115	2	88459835	88496146	115	25	43713	0.76392	0.22246	THNSL2		
ENSG00000106013	7	117844727	117892785	187	16	45148	0.76379	0.2225	ANKRD7		
ENSG00000212734	17	6544971	6566791	100	13	44443	0.76376	0.2225	C17orf100		
ENSG00000133121	13	33667272	33934767	848	113	48201	0.76373	0.22251	STARD13		
ENSG00000113282	5	157202751	157296183	284	22	42507	0.76373	0.22252	CLINT1		
ENSG00000260914	16	69323585	69364614	105	16	54566	0.76316	0.22268	RP11-343C2.11		
ENSG00000133059	1	205101632	205190727	232	18	30446	0.76304	0.22272	DSTYK		
ENSG00000122557	7	35662269	35745181	216	21	29245	0.76304	0.22272	HERPUD2		
ENSG00000050426	12	51431745	51464207	113	17	34389	0.76274	0.22281	LETMD1		
ENSG00000162951	2	80505483	80541874	79	25	38135	0.76261	0.22285	LRRTM1		
ENSG00000176900	11	4893049	4914113	43	9	32351	0.76229	0.22294	OR51T1		
ENSG00000134640	11	92692886	92728232	106	17	43542	0.76216	0.22298	MTNR1B		
ENSG00000178127	18	9092628	9144343	134	23	49077	0.76205	0.22302	NDUFV2		
ENSG00000081985	1	67763047	67872583	323	33	38642	0.76187	0.22307	IL12RB2		
ENSG00000268503	17	7507264	7527427	39	10	38871	0.76186	0.22307	AC007421.1		
ENSG00000177489	1	247741662	247762615	93	17	50473	0.7616	0.22315	OR2G2		
ENSG00000072415	14	67697826	67812536	255	34	45509	0.76152	0.22317	MPP5		
ENSG00000198937	6	37440696	37477698	90	21	44258	0.76149	0.22318	CCDC167		
ENSG00000125999	20	31851286	31907684	160	26	46410	0.76141	0.22321	BPIFB1		
ENSG00000078124	11	76561911	76747841	572	26	41694	0.7613	0.22324	ACER3		
ENSG00000111880	6	89309985	89683348	864	43	45333	0.76126	0.22325	RNGTT		
ENSG00000112701	6	76301225	76437997	387	34	38753	0.76119	0.22327	SENP6		
ENSG00000131781	1	146636930	146724700	488	25	47381	0.76118	0.22328	FMO5		
ENSG00000132323	2	239069042	239122370	262	23	48819	0.76106	0.22331	ILKAP		

ENSG00000182197	8	118796729	119134092	916	110	42983	0.76055	0.22346	EXT1		
ENSG00000183260	20	62482566	62504341	59	12	36918	0.76044	0.2235	ABHD16B		
ENSG00000010810	6	111971535	112204655	713	71	34667	0.7603	0.22354	FYN		
ENSG00000204843	2	74578281	74629214	62	9	28740	0.76023	0.22356	DCTN1		
ENSG00000233538	2	232306906	232327864	65	13	43872	0.76016	0.22358	AC017104.2		
ENSG00000154978	7	55493749	55650681	793	23	52491	0.76011	0.2236	VOPP1		
ENSG00000182774	15	83195504	83219315	13	4	47204	0.76009	0.2236	RPS17L		
ENSG00000103740	15	78449810	78548030	355	62	45927	0.76006	0.22361	ACSBG1		
ENSG00000130702	20	60873011	60952368	379	46	44131	0.76005	0.22361	LAMA5		
ENSG00000133627	7	152446834	152562463	349	41	42159	0.76003	0.22362	ACTR3B		
ENSG00000065243	1	89139905	89311938	523	26	27351	0.7599	0.22366	PKN2		
ENSG00000157224	7	90003035	90152716	488	60	48230	0.75984	0.22368	CLDN12		
ENSG00000171403	17	39712096	39738310	61	9	47502	0.75913	0.22389	KRT9		
ENSG00000183570	21	47053608	47372368	848	52	40114	0.75899	0.22393	PCBP3		
ENSG00000103197	16	2087466	2148716	156	40	41946	0.75894	0.22395	TSC2		
ENSG00000013392	6	83893098	83918651	63	15	39824	0.7588	0.22399	RWDD2A		
ENSG00000130649	10	135323910	135384724	261	14	42211	0.75871	0.22401	CYP2E1		
ENSG00000204370	11	111947497	112000353	77	25	35028	0.75854	0.22406	SDHD		
ENSG00000131153	16	85699804	85733679	103	17	45628	0.75799	0.22423	GINS2		
ENSG00000162944	2	198422948	198550769	263	23	52790	0.75775	0.2243	RFTN2		
ENSG00000221821	6	42848005	42868554	75	12	41006	0.75757	0.22435	C6orf226		
ENSG00000184163	1	1167826	1192102	92	18	42523	0.75753	0.22436	FAM132A		
ENSG00000116981	1	40114793	40147710	97	22	50200	0.75739	0.22441	NT5C1A		
ENSG00000072182	2	220368892	220413494	98	20	45707	0.75739	0.22441	ASIC4		
ENSG00000164816	8	6902831	6924256	123	19	51562	0.75736	0.22442	DEFA5		
ENSG00000176383	12	122678090	122703499	51	13	39379	0.7571	0.2245	B3GNT4		
ENSG00000198952	1	156209015	156262620	125	13	55799	0.75701	0.22452	SMG5		
ENSG00000074211	4	6312305	6575327	1038	141	44633	0.75683	0.22458	PPP2R2C		
ENSG00000183762	22	29459066	29574321	414	47	45255	0.75646	0.22469	KREMEN1		
ENSG00000174876	1	104220037	104249302	1	1	43098	0.75642	0.2247	AMY1B		
ENSG00000219073	1	22293514	22335135	303	35	32455	0.75633	0.22473	CELA3B		
ENSG00000168582	2	209015464	209038300	125	21	37294	0.75613	0.22479	CRYGA		
ENSG00000169750	17	79979500	80002080	74	11	32710	0.7559	0.22486	RAC3		
ENSG00000273167	13	24543839	24905169	1642	217	43385	0.75581	0.22488	RP11-307N16.6		
ENSG00000164574	5	153560290	153810544	949	87	45894	0.7556	0.22494	GALNT10		
ENSG00000148290	9	136208610	136233552	67	10	50703	0.75547	0.22498	SURF1		

ENSG00000206177	16	193891	226767	89	21	39648	0.75511	0.22509	HBM		
ENSG00000116898	1	36911319	36940038	114	13	52449	0.75495	0.22514	MRPS15		
ENSG00000269514	12	48582170	48605814	156	13	51522	0.75489	0.22516	DKFZP779L1853		
ENSG00000188735	12	122140658	122230907	286	41	36624	0.75469	0.22522	TMEM120B		
ENSG00000206077	5	700475	777067	72	30	37385	0.7545	0.22528	ZDHHHC11B		
ENSG00000155111	6	110921181	111147161	540	44	44040	0.7543	0.22533	CDK19		
ENSG00000181958	11	55125360	55146394	118	17	44340	0.75425	0.22535	OR4A15		
ENSG00000110619	11	3012152	3088843	256	24	42679	0.75421	0.22536	CARS		
ENSG00000169692	9	139557595	139591875	90	24	49392	0.75414	0.22538	AGPAT2		
ENSG00000154277	4	41248430	41280472	117	19	48636	0.75408	0.2254	UCHL1		
ENSG00000204128	2	231892205	231924434	96	20	41130	0.75403	0.22542	C2orf72		
ENSG00000170382	1	204576298	204664861	234	35	40156	0.75391	0.22545	LRRN2		
ENSG00000106392	7	7186565	7298282	644	51	42064	0.75386	0.22547	C1GALT1		
ENSG00000144381	2	198341305	198391461	65	12	54986	0.7538	0.22548	HSPD1		
ENSG00000128606	7	102543438	102595396	89	15	45097	0.75343	0.2256	LRRC17		
ENSG00000169105	15	40753160	40775353	36	9	39641	0.75343	0.2256	CHST14		
ENSG00000198353	12	54400715	54459813	103	21	52693	0.75332	0.22563	HOXC4		
ENSG00000084710	2	25254999	25388243	315	41	38890	0.75327	0.22564	EFR3B		
ENSG00000110975	12	33517173	33602754	287	27	37599	0.75305	0.22571	SYT10		
ENSG00000164117	4	175147809	175215415	173	28	44238	0.75291	0.22575	FBXO8		
ENSG00000183283	12	51622076	51675146	139	27	40035	0.75277	0.22579	DAZAP2		
ENSG00000235711	15	79565146	79600580	71	14	50914	0.75266	0.22583	ANKRD34C		
ENSG00000114841	3	52340335	52444507	147	17	50601	0.75257	0.22585	DNAH1		
ENSG00000162849	1	245308287	245882733	2333	286	45119	0.75225	0.22595	KIF26B		
ENSG00000188316	10	118599023	118681299	114	25	47089	0.75194	0.22604	ENO4		
ENSG00000189280	1	35210648	35234113	89	21	47292	0.7519	0.22606	GJB5		
ENSG00000131013	6	149815869	149877174	33	12	35630	0.75175	0.2261	PPIL4		
ENSG00000188610	1	120827756	120865681	5	3	42933	0.7517	0.22612	FAM72B		
ENSG00000104549	8	126000739	126044525	164	19	34539	0.75166	0.22613	SQLE		
ENSG00000146872	17	60526019	60702842	243	28	48616	0.75147	0.22619	TLK2		
ENSG00000204442	13	107810883	108529083	2667	312	45936	0.75139	0.22621	FAM155A		
ENSG00000186844	1	152789949	152810573	20	9	47870	0.75109	0.2263	LCE1A		
ENSG00000120594	10	20095168	20588785	2305	162	43287	0.75059	0.22645	PLXDC2		
ENSG00000152503	5	114450459	114526243	186	35	40551	0.75052	0.22647	TRIM36		
ENSG00000078018	2	210278782	210608842	890	71	33551	0.75033	0.22653	MAP2		
ENSG00000214954	8	92104060	92241464	411	27	46536	0.74985	0.22667	LRRC69		

ENSG00000150510	13	51786503	51868377	228	43	41389	0.74979	0.22669	FAM124A		
ENSG00000186867	4	122240467	122312214	420	44	34572	0.74962	0.22674	QRFR		
ENSG00000136839	9	107369529	107390485	119	9	31744	0.74953	0.22677	OR13C9		
ENSG00000164932	8	104373743	104405225	126	16	54601	0.74909	0.2269	CTHRC1		
ENSG00000136738	10	17676124	17767913	469	38	50714	0.74898	0.22694	STAM		
ENSG00000267979	3	172009438	172029686	54	12	47154	0.74868	0.22702	AC092964.2		
ENSG00000269259	10	102872536	102893624	82	14	48251	0.74867	0.22703	HUG1		
ENSG00000182541	22	31598225	31686066	192	27	37587	0.74867	0.22703	LIMK2		
ENSG00000132003	19	13896274	13953044	125	16	35824	0.74828	0.22715	ZSWIM4		
ENSG00000100285	22	29866219	29897379	86	18	45302	0.748	0.22723	NEFH		
ENSG00000181803	14	21098855	21119850	138	13	54159	0.74787	0.22727	OR6S1		
ENSG00000112499	6	160582093	160708670	530	58	43594	0.74767	0.22733	SLC22A2		
ENSG00000130748	19	47539165	47561888	79	17	40933	0.74766	0.22733	TMEM160		
ENSG00000131069	20	33449949	33525769	135	13	45884	0.7475	0.22738	ACSS2		
ENSG00000170743	11	7250009	7500273	1042	130	46112	0.74727	0.22745	SYT9		
ENSG00000085511	6	161402759	161548417	440	51	43005	0.74707	0.22751	MAP3K4		
ENSG00000099875	19	2027470	2061243	106	31	50007	0.74708	0.22751	MKNK2		
ENSG00000100926	14	24648349	24692679	99	21	40708	0.74672	0.22762	TM9SF1		
ENSG00000254692	14	24648363	24692679	99	21	40708	0.74672	0.22762	TM9SF1		
ENSG00000148019	9	80840978	80904606	161	25	52545	0.74642	0.22771	CEP78		
ENSG00000070831	1	22369120	22429437	190	26	51064	0.74614	0.22779	CDC42		
ENSG00000268000	19	49993781	50014614	57	10	33720	0.7461	0.2278	hsa-mir-150		
ENSG00000121900	1	33350195	33377039	32	9	55770	0.74595	0.22785	TMEM54		
ENSG00000140105	14	100790125	100853142	202	16	39031	0.74552	0.22798	WARS		
ENSG00000103485	16	29664600	29720020	91	20	37640	0.74507	0.22812	QPRT		
ENSG00000089041	12	121560622	121633876	394	41	48088	0.74468	0.22823	P2RX7		
ENSG00000095261	9	123567774	123615262	88	10	51276	0.74428	0.22835	PSMD5		
ENSG00000167595	19	36239044	36271930	106	19	41281	0.74412	0.2284	C19orf55		
ENSG00000135838	1	182748428	182809519	127	16	32195	0.74403	0.22843	NPL		
ENSG00000165659	13	72002098	72451330	630	123	38429	0.744	0.22844	DACH1		
ENSG00000125089	4	8173799	8253530	300	64	40894	0.74389	0.22847	SH3TC1		
ENSG00000174502	1	205872176	205922588	202	37	36300	0.74377	0.22851	SLC26A9		
ENSG00000069702	1	92135902	92381892	840	106	46086	0.74357	0.22857	TGFBR3		
ENSG00000125823	20	23410322	23435567	80	15	35888	0.74336	0.22863	CSTL1		
ENSG00000183580	5	15490305	15949900	1118	86	51392	0.74292	0.22877	FBXL7		
ENSG00000155256	10	99486878	99530664	156	19	42845	0.74288	0.22878	ZFYVE27		

ENSG00000172687	19	21531732	21572104	213	10	46329	0.74287	0.22878	ZNF738		
ENSG00000166260	17	53019263	53056146	148	15	53859	0.74285	0.22879	COX11		
ENSG00000135617	2	73445134	73470366	62	15	42924	0.74265	0.22885	PRADC1		
ENSG00000249016	5	54242063	54263674	105	15	42476	0.74264	0.22885	RP11-45H22.3		
ENSG00000113810	3	160107062	160162750	117	19	50989	0.7424	0.22892	SMC4		
ENSG00000089060	12	113726564	113807298	238	31	51730	0.7424	0.22892	SLC8B1		
ENSG00000255994	14	70027483	70048032	40	9	44603	0.74233	0.22895	CCDC177		
ENSG00000131183	5	176796236	176835849	62	13	44363	0.74204	0.22903	SLC34A1		
ENSG00000186832	17	39756030	39782151	68	8	45747	0.74191	0.22907	KRT16		
ENSG00000176438	14	95873831	95952173	413	88	44222	0.74176	0.22912	SYNE3		
ENSG00000100031	22	24969718	25034972	127	29	40931	0.74174	0.22912	GGT1		
ENSG00000104885	19	2154148	2242577	314	44	44710	0.74129	0.22926	DOT1L		
ENSG00000158636	11	76145967	76274069	299	33	37982	0.74119	0.22929	C11orf30		
ENSG00000018625	1	160075549	160123381	179	32	54466	0.74074	0.22942	ATP1A2		
ENSG00000187238	1	152576287	152596574	64	6	49762	0.74072	0.22943	LCE3B		
ENSG00000119778	2	23961534	24159984	688	40	55097	0.74061	0.22947	ATAD2B		
ENSG00000134061	5	66468103	66502627	90	22	35022	0.7405	0.2295	CD180		
ENSG00000204149	10	51738078	51780259	95	20	31117	0.74018	0.2296	AGAP6		
ENSG00000102572	13	99092455	99240194	516	53	46653	0.74006	0.22963	STK24		
ENSG00000124160	20	44679624	44728591	136	17	50188	0.74008	0.22963	NCOA5		
ENSG00000120253	6	150035451	150080801	99	8	45716	0.74004	0.22964	NUP43		
ENSG00000196653	3	44744135	44775323	54	12	43048	0.7398	0.22971	ZNF502		
ENSG00000146376	6	129887277	130041370	581	84	51305	0.73931	0.22986	ARHGAP18		
ENSG00000039600	5	157042687	157108488	212	24	46831	0.73928	0.22987	SOX30		
ENSG00000110583	11	63696431	63734800	86	12	29000	0.73928	0.22987	NAA40		
ENSG00000181939	11	55311783	55332895	163	12	50351	0.73921	0.22989	OR4C15		
ENSG00000129910	16	89228175	89271900	173	23	44829	0.7392	0.22989	CDH15		
ENSG00000204510	1	12966450	12990569	3	2	32765	0.73918	0.2299	PRAMEF7		
ENSG00000148735	10	115501213	115553188	210	20	51795	0.73914	0.22991	PLEKHS1		
ENSG00000167566	12	50174929	50232533	178	25	41424	0.739	0.22995	NCKAP5L		
ENSG00000259207	17	45321212	45431658	417	42	41595	0.73899	0.22996	ITGB3		
ENSG00000259753	17	45321263	45431658	417	42	41595	0.73899	0.22996	ITGB3		
ENSG00000234278	13	57731331	57754352	26	8	43490	0.73867	0.23005	PRR20E		
ENSG00000163584	3	170572664	170598272	71	16	51152	0.73867	0.23006	RPL22L1		
ENSG00000142623	1	17521621	17582500	256	60	50801	0.73835	0.23015	PADI1		
ENSG00000188011	2	242801752	242825975	81	12	45713	0.73835	0.23015	CXXC11		

ENSG00000167323	11	3865757	4124439	711	59	38929	0.73832	0.23016	STIM1		
ENSG00000119638	14	75538822	75604047	140	11	44959	0.73806	0.23024	NEK9		
ENSG00000182263	2	164439906	164602522	337	64	45045	0.73796	0.23027	FIGN		
ENSG00000105327	19	47714081	47746023	57	19	46823	0.73788	0.23029	BBC3		
ENSG00000155508	5	154227113	154266353	92	11	32278	0.73765	0.23036	CNOT8		
ENSG00000186191	20	31657450	31709557	210	27	50418	0.73757	0.23039	BPIFB4		
ENSG00000255501	11	104998448	105020453	105	9	53113	0.73698	0.23057	CARD18		
ENSG00000143815	1	225579204	225626627	140	24	44435	0.73693	0.23058	LBR		
ENSG00000154710	7	66137151	66286451	568	34	52318	0.73687	0.2306	RABGEF1		
ENSG00000183172	22	42465695	42490288	62	9	48420	0.73675	0.23064	SMDT1		
ENSG00000268632	15	42063346	42086229	46	14	40715	0.73664	0.23067	AC073657.1		
ENSG00000064309	11	125815691	125943230	493	70	53549	0.73656	0.2307	CDON		
ENSG00000197938	3	97991732	98012676	119	13	28271	0.7364	0.23074	OR5H2		
ENSG00000104812	19	49461382	49506567	92	20	50422	0.7364	0.23074	GYS1		
ENSG00000213799	19	53827002	53868122	205	43	45091	0.73634	0.23076	ZNF845		
ENSG00000139914	14	24590484	24612058	42	7	30533	0.73615	0.23082	FITM1		
ENSG00000137124	9	38382661	38408658	121	39	48598	0.73589	0.2309	ALDH1B1		
ENSG00000128564	7	100795790	100818874	89	17	37943	0.73558	0.23099	VGF		
ENSG00000086848	11	111642919	111752305	232	21	38578	0.73552	0.23101	ALG9		
ENSG00000075188	12	102457967	102523902	138	20	55470	0.73518	0.23112	NUP37		
ENSG00000166589	16	66932025	66962887	51	12	31391	0.73502	0.23116	CDH16		
ENSG00000135094	12	113820250	113874106	138	16	44695	0.73467	0.23127	SDS		
ENSG00000115170	2	158582958	158742374	261	58	41600	0.73455	0.23131	ACVR1		
ENSG00000133069	1	205187304	205252471	195	23	32728	0.73447	0.23133	TMCC2		
ENSG00000100101	22	38067680	38180137	329	40	44796	0.73446	0.23133	NOL12		
ENSG00000169488	14	20433603	20454818	47	12	44188	0.73439	0.23136	OR4K15		
ENSG00000162714	1	247450714	247505148	154	21	43878	0.7341	0.23144	ZNF496		
ENSG00000221916	19	49611655	49632397	79	14	50439	0.73401	0.23147	C19orf73		
ENSG00000166145	15	41126216	41160405	92	15	29341	0.73351	0.23162	SPINT1		
ENSG00000172000	19	2857333	2888515	111	18	39971	0.73314	0.23174	ZNF556		
ENSG00000108107	19	55886713	55924612	184	35	38455	0.7331	0.23175	RPL28		
ENSG00000093167	3	37084117	37235180	323	22	38083	0.73301	0.23178	LRRFIP2		
ENSG00000166405	11	8117597	8200602	342	35	46142	0.73296	0.23179	RIC3		
ENSG00000150403	13	114135310	114214542	493	22	30910	0.73278	0.23185	TMCO3		
ENSG00000174498	15	65609465	65680378	187	39	50561	0.73275	0.23185	IGDCC3		
ENSG00000131050	20	31739574	31779218	59	14	35231	0.7326	0.2319	BPIFA2		

ENSG00000197959	1	171800621	172397606	1571	124	44922	0.73259	0.23191	<i>DNM3</i>		
ENSG00000110042	11	58928903	58986060	159	21	49290	0.73237	0.23197	<i>DTX4</i>		
ENSG00000155592	16	25237322	25279252	141	17	46482	0.73224	0.23201	<i>ZKSCAN2</i>		
ENSG00000226650	5	154383260	154407685	102	19	39683	0.73205	0.23207	<i>KIF4B</i>		
ENSG00000184389	1	33762367	33796699	102	16	45496	0.73197	0.23209	<i>A3GALT2</i>		
ENSG00000133019	1	239539865	240088750	1520	176	46854	0.73182	0.23214	<i>CHRM3</i>		
ENSG00000006704	7	73858120	74026931	348	62	45972	0.73165	0.23219	<i>GTF2IRD1</i>		
ENSG00000239332	2	47033836	47096146	272	51	45356	0.73102	0.23238	<i>LINC01119</i>		
ENSG00000107623	10	48415815	48448976	57	20	47181	0.73097	0.2324	<i>GDF10</i>		
ENSG00000144815	3	101488046	101557073	125	16	53336	0.73093	0.23241	<i>NXPE3</i>		
ENSG00000161973	17	8623252	8658537	140	22	48150	0.73093	0.23241	<i>CCDC42</i>		
ENSG00000144134	2	114374806	114410973	78	14	32068	0.73091	0.23242	<i>RABL2A</i>		
ENSG00000189171	1	153581263	153616568	82	11	46226	0.73084	0.23244	<i>S100A13</i>		
ENSG00000230989	16	83831448	83863342	157	31	51853	0.7308	0.23245	<i>HSBP1</i>		
ENSG00000029639	6	155568643	155645627	368	34	48538	0.73049	0.23255	<i>TFB1M</i>		
ENSG00000267596	17	34313476	34339084	117	15	43656	0.73048	0.23255	<i>CCL15</i>		
ENSG00000123080	1	51416417	51450305	47	13	50166	0.7304	0.23257	<i>CDKN2C</i>		
ENSG00000118507	6	131446806	131614675	427	49	50588	0.73039	0.23258	<i>AKAP7</i>		
ENSG00000180644	10	72347104	72372531	81	20	48641	0.73037	0.23258	<i>PRF1</i>		
ENSG00000089022	12	112269782	112344343	157	7	55083	0.73037	0.23258	<i>MAPKAPK5</i>		
ENSG00000125798	20	22551643	22576093	33	7	31412	0.73021	0.23263	<i>FOXA2</i>		
ENSG00000141219	17	71218372	71255091	154	8	49871	0.73018	0.23264	<i>C17orf80</i>		
ENSG00000197363	8	146014261	146046554	116	18	34739	0.73006	0.23268	<i>ZNF517</i>		
ENSG00000107186	9	13095703	13289589	334	50	37335	0.72985	0.23274	<i>MPDZ</i>		
ENSG00000172889	9	139543308	139577130	100	24	51471	0.72916	0.23295	<i>EGFL7</i>		
ENSG00000169045	5	179031179	179071785	171	27	43331	0.72903	0.23299	<i>HNRNPH1</i>		
ENSG00000174871	11	66035661	66062772	49	12	52115	0.72851	0.23315	<i>CNIH2</i>		
ENSG00000171209	4	71098305	71127145	188	12	37358	0.72828	0.23322	<i>CSN3</i>		
ENSG00000115053	2	232308242	232358352	183	27	48349	0.72825	0.23323	<i>NCL</i>		
ENSG00000133895	11	64560982	64588766	27	12	46254	0.72784	0.23335	<i>MEN1</i>		
ENSG00000123353	12	56201703	56225663	32	10	38007	0.72759	0.23343	<i>ORMDL2</i>		
ENSG00000120075	17	46658619	46681323	60	15	43644	0.72761	0.23343	<i>HOXB5</i>		
ENSG00000181562	14	21204051	21226539	146	29	52551	0.72755	0.23345	<i>EDDM3A</i>		
ENSG00000176915	12	133292254	133348474	246	44	45918	0.72741	0.23349	<i>ANKLE2</i>		
ENSG00000170777	9	6318349	6341900	57	15	44137	0.72737	0.2335	<i>TPD52L3</i>		
ENSG00000079335	1	100800584	100995833	363	35	34577	0.72727	0.23353	<i>CDC14A</i>		

ENSG00000100341	22	44265558	44297893	150	24	43002	0.72721	0.23355	PNPLA5		
ENSG00000214128	7	138472695	138532846	183	32	52030	0.7271	0.23358	TMEM213		
ENSG00000179674	3	160384948	160406233	73	13	46998	0.72692	0.23364	ARL14		
ENSG00000198707	12	88432793	88545993	126	24	50784	0.72683	0.23366	CEP290		
ENSG00000203784	1	153165919	153187596	65	14	42525	0.72679	0.23368	LELP1		
ENSG00000255072	4	89432724	89452940	19	10	38107	0.72676	0.23369	PIGY		
ENSG00000160818	1	156554279	156581288	108	8	22082	0.72665	0.23372	GPATCH4		
ENSG00000197013	19	21669484	21749072	291	17	54469	0.72664	0.23372	ZNF429		
ENSG00000141946	19	57635464	57666570	138	17	36255	0.72665	0.23372	ZIM3		
ENSG00000146648	7	55076714	55334313	846	132	44481	0.72659	0.23374	EGFR		
ENSG00000139684	13	47335391	47381367	96	15	35938	0.72655	0.23375	ESD		
ENSG00000182168	4	96073655	96480357	1485	180	41883	0.72647	0.23378	UNC5C		
ENSG00000135926	2	219128915	219167309	88	8	47291	0.72638	0.2338	TMBIM1		
ENSG00000135750	1	233739750	233818258	286	69	47745	0.72625	0.23384	KCNK1		
ENSG00000154222	1	52801395	52841865	39	15	48942	0.72582	0.23397	CC2D1B		
ENSG00000162669	1	91716323	91880426	432	38	49784	0.72578	0.23399	HFM1		
ENSG00000172977	11	65469467	65497075	101	17	38307	0.72534	0.23412	KAT5		
ENSG00000143786	1	224612362	224938251	915	100	45277	0.72522	0.23416	CNIH3		
ENSG00000136297	7	4935620	5008844	282	39	43591	0.72519	0.23417	MMD2		
ENSG00000164604	7	112708386	112737833	91	19	47514	0.72496	0.23424	GPR85		
ENSG00000214511	12	51337705	51374289	180	17	43504	0.72448	0.23439	HIGD1C		
ENSG00000196628	18	52879562	53342018	859	107	46166	0.72446	0.23439	TCF4		
ENSG00000171497	4	159620286	159654548	50	10	50767	0.72424	0.23446	PPID		
ENSG00000204099	2	242739920	242768739	102	22	47154	0.72398	0.23454	NEU4		
ENSG00000164615	5	134064191	134097847	40	17	42527	0.72373	0.23462	CAMLG		
ENSG00000242852	19	12561998	12634668	278	17	47943	0.7227	0.23493	ZNF709		
ENSG00000066629	14	100194030	100418397	696	91	41273	0.72241	0.23502	EML1		
ENSG00000177613	10	53445247	53469355	89	12	43965	0.72217	0.2351	CSTF2T		
ENSG00000126746	12	6765643	6808738	35	17	50653	0.72216	0.2351	ZNF384		
ENSG00000183354	9	5871596	6017901	340	35	42645	0.722	0.23515	KIAA2026		
ENSG00000167693	17	692553	893010	1121	170	41176	0.72114	0.23541	NXN		
ENSG00000164039	4	103990592	104031040	84	13	52555	0.72104	0.23544	BDH2		
ENSG00000078328	16	6059095	7773340	10865	562	41895	0.72089	0.23549	RBFOX1		
ENSG00000124103	20	55082243	55111198	61	13	34295	0.7209	0.23549	FAM209A		
ENSG00000122952	10	58106989	58131036	33	10	39580	0.72048	0.23561	ZWINT		
ENSG00000009413	6	111610234	111814918	523	46	43556	0.72027	0.23568	REV3L		

ENSG00000130956	9	99202483	99263618	140	12	35503	0.72026	0.23568	HABP4		
ENSG00000099937	22	21118167	21152008	108	13	53548	0.71998	0.23577	SERPIND1		
ENSG00000161328	11	527527	564916	209	30	50362	0.7198	0.23583	LRRC56		
ENSG00000122691	7	19050614	19167295	262	48	35031	0.71968	0.23586	TWIST1		
ENSG00000102755	13	28864489	29079265	613	84	43302	0.71955	0.2359	FLT1		
ENSG00000160813	7	100022905	100044188	40	6	54236	0.71939	0.23595	PPP1R35		
ENSG00000215912	1	2557415	2728286	368	31	41321	0.71907	0.23605	TTC34		
ENSG00000175398	12	56020644	56041638	79	13	45671	0.71901	0.23607	OR10P1		
ENSG00000125520	20	62361214	62384858	94	13	40571	0.71895	0.23609	SLC2A4RG		
ENSG00000127995	7	94128531	94196331	157	19	41478	0.71845	0.23624	CASD1		
ENSG00000081870	1	54372247	54421602	111	13	34924	0.71828	0.23629	HSPB11		
ENSG00000138303	10	73846278	73986892	191	31	38342	0.71818	0.23632	ASCC1		
ENSG00000117472	1	46630745	46661630	49	12	45528	0.71814	0.23633	TSPAN1		
ENSG00000124939	11	61966140	61991408	60	15	34591	0.71815	0.23633	SCGB2A1		
ENSG00000132749	11	68464908	68529032	128	13	52948	0.71783	0.23643	MTL5		
ENSG00000152082	2	130929310	130958302	70	7	49913	0.71762	0.2365	MZT2B		
ENSG00000111664	12	6939118	6966557	58	16	43622	0.71762	0.2365	GNB3		
ENSG00000196218	19	38914339	39088204	608	72	41145	0.71741	0.23656	RYR1		
ENSG00000109846	11	111769289	111804446	74	13	38710	0.71739	0.23657	CRYAB		
ENSG00000118873	1	220311635	220455796	327	35	46749	0.71734	0.23658	RAB3GAP2		
ENSG00000198250	10	47647581	47711443	81	25	39022	0.71733	0.23659	ANTXRL		
ENSG00000186399	15	30685943	30716463	1	1	42772	0.71728	0.2366	GOLGA8R		
ENSG00000183431	1	38412647	38466593	167	20	48366	0.71703	0.23668	SF3A3		
ENSG00000167792	11	67364323	67390006	71	10	39218	0.71694	0.23671	NDUFV1		
ENSG00000146049	6	24347131	24368512	70	14	38738	0.71675	0.23677	KAAG1		
ENSG00000180530	21	16323556	16447321	288	45	40768	0.7167	0.23678	NRIP1		
ENSG00000130733	19	11023444	11049357	58	12	56262	0.7166	0.23681	YIPF2		
ENSG00000147905	9	37110536	37368146	389	35	48032	0.71649	0.23685	ZCCHC7		
ENSG00000161040	7	102443308	102725286	498	38	46542	0.71645	0.23686	FBXL13		
ENSG00000170439	12	56065330	56088395	55	12	39766	0.71628	0.23691	METTL7B		
ENSG00000268537	3	46917699	46940171	46	13	41995	0.71625	0.23692	AC109583.1		
ENSG00000128011	19	39787208	39815976	54	15	45102	0.71609	0.23697	LRFN1		
ENSG00000156206	15	81289374	81451516	437	56	39011	0.71597	0.23701	C15orf26		
ENSG00000130363	6	159383903	159431219	272	11	42151	0.71593	0.23702	RSPH3		
ENSG00000179178	1	43725665	43749673	64	17	45398	0.71548	0.23716	TMEM125		
ENSG00000147912	9	37500889	37598871	320	42	47499	0.7154	0.23718	FBXO10		

ENSG00000159423	1	19187926	19239275	252	46	46890	0.71538	0.23719	ALDH4A1		
ENSG00000122718	9	35947105	35968151	112	16	51718	0.71538	0.23719	OR2S2		
ENSG00000138606	15	45449412	45503373	110	18	39993	0.71528	0.23722	SHF		
ENSG00000141127	17	18733398	18844581	363	23	53220	0.71495	0.23732	PRPSAP2		
ENSG00000163807	3	44769153	44813154	71	12	49709	0.71484	0.23735	KIAA1143		
ENSG00000183688	17	279769	305730	66	13	33533	0.71456	0.23744	FAM101B		
ENSG00000111912	6	126092307	126262266	340	45	44313	0.71447	0.23747	NCOA7		
ENSG00000150676	11	85556144	85641064	304	28	52666	0.71445	0.23747	CCDC83		
ENSG00000081138	18	63407488	63558638	514	43	35164	0.71429	0.23752	CDH7		
ENSG00000273049	12	54369629	54438672	134	29	48817	0.71419	0.23755	RP11-834C11.12		
ENSG00000075391	1	178052864	178458644	739	54	45915	0.714	0.23761	RASAL2		
ENSG00000204438	6	31619006	31644060	90	22	37436	0.71375	0.23769	GPANK1		
ENSG00000104142	15	41176628	41206173	55	10	33609	0.71375	0.23769	VPS18		
ENSG00000170866	19	54789854	54819952	127	16	28374	0.7134	0.2378	LILRA3		
ENSG00000198844	17	8203559	8235829	108	24	50098	0.71337	0.23781	ARHGEF15		
ENSG00000213316	5	179210981	179233648	75	20	46433	0.71312	0.23788	LTC4S		
ENSG00000176890	18	647604	683578	147	15	36274	0.71313	0.23788	TYMS		
ENSG00000217930	16	4371550	4415608	123	29	42761	0.7129	0.23795	PAM16		
ENSG00000176219	14	20681791	20702964	188	22	45442	0.71285	0.23797	OR11H6		
ENSG00000168140	16	4411849	4443529	94	19	40223	0.71273	0.23801	VASN		
ENSG00000131788	1	145565233	145596546	45	9	44166	0.71268	0.23802	PIAS3		
ENSG00000184436	22	21343393	21366485	112	20	44326	0.71254	0.23807	THAP7		
ENSG00000130382	19	6202966	6289959	363	39	36111	0.71243	0.2381	MLLT1		
ENSG00000266258	18	67992675	68029695	148	19	39199	0.71232	0.23813	RP11-41O4.1		
ENSG00000144136	2	113393434	113431404	108	11	30716	0.71223	0.23816	SLC20A1		
ENSG00000144227	2	139418342	139547918	343	60	48738	0.71167	0.23833	NXPH2		
ENSG00000118308	12	25163936	25271268	463	77	47257	0.71161	0.23835	LRMP		
ENSG00000158859	1	161144098	161178846	71	20	54192	0.71151	0.23838	ADAMTS4		
ENSG00000228804	3	187410101	187461637	202	28	39932	0.71147	0.2384	RP11-211G3.3		
ENSG00000124216	20	48589536	48615423	114	14	33057	0.71133	0.23844	SNAI1		
ENSG00000184925	9	139834003	139859949	107	15	47773	0.71131	0.23845	LCN12		
ENSG00000124787	6	4984966	5014297	181	18	52890	0.71082	0.2386	RPP40		
ENSG00000249222	22	43025809	43046607	63	10	48263	0.71065	0.23865	ATP5L2		
ENSG00000116729	1	68554142	68708803	656	111	47574	0.71054	0.23869	WLS		
ENSG00000110987	12	122447328	122509948	177	30	44295	0.71029	0.23876	BCL7A		
ENSG00000125492	9	135447572	135475653	60	21	43855	0.7096	0.23898	BARHL1		

ENSG00000168243	1	235700987	235824054	400	59	43376	0.70954	0.23899	<i>GNG4</i>		
ENSG00000056558	9	123654671	123701451	152	15	47254	0.70944	0.23902	<i>TRAF1</i>		
ENSG00000183186	19	395438	419139	125	42	40208	0.7093	0.23907	<i>C2CD4C</i>		
ENSG00000137038	9	7786490	7898380	422	66	50564	0.70926	0.23908	<i>TMEM261</i>		
ENSG00000180626	17	5072831	5105178	65	13	36781	0.70827	0.23939	<i>ZNF594</i>		
ENSG00000221962	3	152047484	152068779	44	11	51537	0.70815	0.23942	<i>TMEM14E</i>		
ENSG00000058600	16	22298730	22356424	85	24	41470	0.70771	0.23956	<i>POLR3E</i>		
ENSG00000223501	6	33208049	33249824	129	16	39594	0.70696	0.2398	<i>VPS52</i>		
ENSG00000267952	19	7561938	7594508	94	18	52309	0.70669	0.23988	<i>CTD-2207O23.12</i>		
ENSG00000143105	1	111049839	111071797	75	21	43382	0.70655	0.23992	<i>KCNA10</i>		
ENSG00000187815	1	40932887	40972015	132	21	43271	0.70635	0.23999	<i>ZFP69</i>		
ENSG00000172613	11	67149176	67175881	38	9	44275	0.70626	0.24001	<i>RAD9A</i>		
ENSG00000135365	11	45940871	46152985	342	31	32425	0.70621	0.24003	<i>PHF21A</i>		
ENSG00000256525	17	62463902	62503154	87	10	32657	0.70605	0.24008	<i>POLG2</i>		
ENSG00000166167	10	103103820	103327078	528	26	32020	0.70603	0.24009	<i>BTRC</i>		
ENSG00000083642	13	33150564	33362157	506	23	42725	0.7059	0.24013	<i>PDS5B</i>		
ENSG00000089876	10	127514906	127595005	119	19	53332	0.70577	0.24016	<i>DHX32</i>		
ENSG00000091129	7	107778068	108107161	1315	93	43244	0.70557	0.24023	<i>NRCAM</i>		
ENSG00000197238	6	27781884	27802257	57	14	39025	0.70545	0.24026	<i>HIST1H4J</i>		
ENSG00000074201	11	77215981	77358850	339	30	46728	0.70537	0.24029	<i>CLNS1A</i>		
ENSG00000117016	1	41076351	41141329	187	30	46925	0.70535	0.2403	<i>RIMS3</i>		
ENSG00000156096	4	70335883	70401732	386	17	50905	0.70534	0.2403	<i>UGT2B4</i>		
ENSG00000074696	15	65812756	65880687	164	13	45539	0.705	0.2404	<i>PTPLAD1</i>		
ENSG00000105088	19	9954394	10057228	276	42	44035	0.70473	0.24049	<i>OLFM2</i>		
ENSG00000162595	1	68501645	68527314	34	5	27814	0.7046	0.24053	<i>DIRAS3</i>		
ENSG00000136522	3	179296073	179332442	71	7	51046	0.70449	0.24056	<i>MRPL47</i>		
ENSG00000023608	14	62219075	62273146	186	16	46049	0.7045	0.24056	<i>SNAPC1</i>		
ENSG00000151923	10	121324199	121366541	97	17	49248	0.70446	0.24057	<i>TIAL1</i>		
ENSG00000163909	1	40079825	40115617	101	30	44098	0.70445	0.24058	<i>HEYL</i>		
ENSG00000123643	5	150806607	150881942	254	33	41753	0.70439	0.24059	<i>SLC36A1</i>		
ENSG00000196374	6	27772822	27793267	51	11	42573	0.70438	0.2406	<i>HIST1H2BM</i>		
ENSG00000088926	4	187177099	187220835	170	35	47646	0.70422	0.24065	<i>F11</i>		
ENSG00000051596	5	175334876	175471683	48	21	30077	0.7042	0.24065	<i>THOC3</i>		
ENSG00000022277	20	55033647	55103943	199	15	32480	0.70413	0.24068	<i>RTFDC1</i>		
ENSG00000147475	8	37584117	37626619	30	17	55936	0.70384	0.24076	<i>ERLIN2</i>		
ENSG00000256029	1	159817690	159852843	109	20	44251	0.70375	0.24079	<i>RP11-190A12.7</i>		

ENSG00000054793	20	50203053	50395173	949	73	48279	0.70357	0.24085	ATP9A		
ENSG00000099991	22	24397642	24584596	351	44	48097	0.70359	0.24085	CABIN1		
ENSG00000179902	1	109638573	109666479	116	20	39597	0.70355	0.24086	C1orf194		
ENSG00000214597	8	145565878	145588574	39	12	47397	0.70336	0.24092	TMEM249		
ENSG00000113805	3	74301719	74580291	777	115	41649	0.70333	0.24093	CNTN3		
ENSG00000163694	4	40415272	40642892	724	146	43649	0.70318	0.24097	RBM47		
ENSG00000130511	19	18519674	18555372	70	12	38951	0.70316	0.24098	SSBP4		
ENSG00000181009	11	5788864	5809897	35	7	43625	0.70304	0.24102	OR52N5		
ENSG00000162482	1	19599052	19625744	130	9	55519	0.70289	0.24106	AKR7A3		
ENSG00000187772	6	105394923	105541207	242	42	47720	0.70288	0.24107	LIN28B		
ENSG00000162231	11	62549595	62583774	52	9	36412	0.70283	0.24108	NXF1		
ENSG00000174851	11	66042051	66066641	37	10	49189	0.70283	0.24108	YIF1A		
ENSG00000172115	7	25149710	25174980	65	13	43890	0.70276	0.2411	CYCS		
ENSG00000159399	2	75051108	75130486	243	47	46870	0.7023	0.24125	HK2		
ENSG00000267157	19	5774016	5795630	100	15	32644	0.70219	0.24128	CTB-54O9.9		
ENSG00000130711	9	133529981	133568368	122	23	35454	0.70195	0.24136	PRDM12		
ENSG00000137251	6	54162657	54264950	329	39	38638	0.70191	0.24137	TINAG		
ENSG00000130584	20	62365019	62472597	527	33	43696	0.70181	0.2414	ZBTB46		
ENSG00000118680	18	3251907	3288282	143	17	40337	0.70178	0.24141	MYL12B		
ENSG00000164078	3	49914435	49951299	49	9	37897	0.70144	0.24151	MST1R		
ENSG00000150783	11	112028095	112053282	77	14	43763	0.70144	0.24151	TEX12		
ENSG00000256222	20	55923496	55944878	99	9	47716	0.70147	0.24151	MTRNR2L3		
ENSG00000148120	9	97478983	97859441	903	64	40340	0.70131	0.24155	C9orf3		
ENSG00000132329	2	238757536	238830756	282	69	43714	0.70127	0.24157	RAMP1		
ENSG00000186400	1	158538709	158559689	72	16	49427	0.70123	0.24158	OR10X1		
ENSG00000185869	19	37369026	37417193	170	18	34631	0.7011	0.24162	ZNF829		
ENSG00000205531	11	2955667	3023607	273	28	40659	0.70099	0.24166	NAP1L4		
ENSG00000134278	18	12436511	12668133	787	58	40790	0.70091	0.24168	SPIRE1		
ENSG00000164841	8	109609079	109809844	686	69	47081	0.70056	0.24179	TMEM74		
ENSG00000109814	4	39490375	39539931	222	29	37313	0.70048	0.24181	UGDH		
ENSG00000169427	8	140603081	140725299	326	60	42511	0.70047	0.24182	KCNK9		
ENSG00000170271	5	154188051	154248812	102	16	41116	0.70042	0.24183	FAXDC2		
ENSG00000141401	18	11971024	12040876	404	51	32766	0.70019	0.24191	IMPA2		
ENSG00000157368	16	70603798	70704585	365	39	41303	0.70008	0.24194	IL34		
ENSG00000203871	6	88096840	88119467	118	7	51082	0.69965	0.24207	C6orf164		
ENSG00000180891	17	55928604	56042684	310	63	44961	0.69967	0.24207	CUEDC1		

ENSG00000237435	1	96393457	96498436	354	36	54121	0.69949	0.24212	RP11-147C23.1		
ENSG00000108239	10	96152261	96305687	289	25	51800	0.6995	0.24212	TBC1D12		
ENSG00000175602	11	65647875	65669105	50	12	38525	0.69926	0.2422	CCDC85B		
ENSG00000114547	3	125677987	125712297	109	17	47481	0.69905	0.24226	ROPN1B		
ENSG00000158113	12	122642285	122698018	163	24	45007	0.69889	0.24231	LRRRC43		
ENSG00000126861	17	29589031	29634557	67	8	30764	0.6988	0.24234	OMG		
ENSG00000113088	5	54310081	54340398	80	14	33920	0.69875	0.24235	GZMK		
ENSG00000118418	6	79900962	79954406	123	18	45957	0.6985	0.24243	HMGH3		
ENSG00000156928	7	23328358	23361348	83	15	31458	0.69808	0.24256	MALSU1		
ENSG00000148426	10	11855338	11924276	254	38	52392	0.6981	0.24256	PROSER2		
ENSG00000213928	14	24620262	24645774	51	13	49763	0.69808	0.24256	IRF9		
ENSG00000135624	2	73450548	73490149	112	19	36156	0.69798	0.2426	CCT7		
ENSG00000133328	11	63310242	63340855	55	16	40774	0.69795	0.2426	HRASLS2		
ENSG00000161016	8	146005150	146027972	89	14	33710	0.69788	0.24263	RPL8		
ENSG00000271698	8	145566888	145589269	37	11	46917	0.6974	0.24278	GS1-393G12.13		
ENSG00000175334	11	65759550	65781620	83	11	40768	0.6974	0.24278	BANF1		
ENSG00000198265	17	65056554	65252105	414	38	39199	0.69738	0.24278	HELZ		
ENSG00000007923	1	6684228	6771984	216	24	54575	0.69722	0.24283	DNAJC11		
ENSG00000112276	6	105534697	105595049	204	21	33607	0.69713	0.24286	BVES		
ENSG00000188580	6	124115286	125156803	3197	299	45439	0.69693	0.24292	NKAIN2		
ENSG00000161574	17	34300692	34338660	169	26	43636	0.69688	0.24294	CCL15-CCL14		
ENSG00000157483	15	59417113	59675099	846	121	35661	0.69686	0.24295	MYO1E		
ENSG00000167548	12	49402758	49463557	63	11	49910	0.69679	0.24297	KMT2D		
ENSG00000133056	1	204381756	204473852	228	31	36136	0.69643	0.24308	PIK3C2B		
ENSG00000206013	11	288200	309526	77	24	33177	0.69612	0.24318	IFITM5		
ENSG00000126705	1	27850546	27940942	94	25	42385	0.69595	0.24323	AHDC1		
ENSG00000149548	11	124814017	124921385	401	28	37554	0.69594	0.24323	CCDC15		
ENSG00000105352	19	42115344	42143442	99	21	44495	0.69587	0.24325	CEACAM4		
ENSG00000171401	17	39647233	39671957	69	23	48484	0.69585	0.24326	KRT13		
ENSG0000015153	12	42540906	42642151	231	27	45589	0.69574	0.2433	YAF2		
ENSG00000175066	3	141872414	141954449	232	34	48458	0.69567	0.24332	GK5		
ENSG00000126500	11	63860660	63896645	114	21	38778	0.69562	0.24333	FLRT1		
ENSG0000016402	6	137311108	137376298	168	32	38959	0.69554	0.24336	IL20RA		
ENSG00000221858	7	143782141	143803186	52	6	49341	0.69536	0.24341	OR2A12		
ENSG00000189337	1	14915200	15454539	2023	270	44991	0.69515	0.24348	KAZN		
ENSG00000096070	6	36154521	36210567	77	16	49365	0.69511	0.24349	BRPF3		

ENSG00000180878	11	6216796	6242362	62	13	32128	0.69504	0.24352	<i>C11orf42</i>		
ENSG00000158373	6	26148349	26181577	52	14	42464	0.69499	0.24353	<i>HIST1H2BD</i>		
ENSG00000139926	14	51945818	52207445	977	153	50412	0.69496	0.24354	<i>FRMD6</i>		
ENSG00000143164	1	167895021	168055081	254	24	43301	0.6949	0.24356	<i>DCAF6</i>		
ENSG00000174527	12	109775708	109903328	651	57	48690	0.69491	0.24356	<i>MYO1H</i>		
ENSG00000197283	6	33377847	33431466	108	23	49495	0.69477	0.2436	<i>SYNGAP1</i>		
ENSG00000101230	20	13192418	13291298	434	72	51237	0.69462	0.24365	<i>ISM1</i>		
ENSG00000170584	5	162863532	162897146	71	14	41813	0.69449	0.24369	<i>NUDCD2</i>		
ENSG00000165891	12	77405027	77469360	229	53	43528	0.69444	0.2437	<i>E2F7</i>		
ENSG00000187166	12	48712763	48734062	73	12	46844	0.69441	0.24371	<i>H1FNT</i>		
ENSG00000152133	2	37301594	37336387	92	15	43971	0.69361	0.24396	<i>GPATCH11</i>		
ENSG00000186919	17	74058042	74089747	69	9	42780	0.69362	0.24396	<i>ZACN</i>		
ENSG00000105617	19	54648899	54673620	70	20	41362	0.69363	0.24396	<i>LENG1</i>		
ENSG00000136492	17	59748627	59950882	372	35	48945	0.69354	0.24398	<i>BRIP1</i>		
ENSG00000241978	9	112532769	112944792	1444	173	46449	0.69351	0.244	<i>AKAP2</i>		
ENSG00000109445	4	142132041	142165851	96	9	45181	0.69294	0.24417	<i>ZNF330</i>		
ENSG00000183691	17	54661060	54682951	43	12	40463	0.69294	0.24417	<i>NOG</i>		
ENSG00000242550	18	61554408	61613345	232	9	44545	0.69294	0.24417	<i>SERPINB10</i>		
ENSG00000197632	18	61528926	61581124	172	7	47136	0.69292	0.24418	<i>SERPINB2</i>		
ENSG00000173482	18	7556780	8416859	2711	275	44790	0.69283	0.24421	<i>PTPRM</i>		
ENSG00000065357	12	56311103	56357811	52	14	53798	0.69273	0.24424	<i>DGKA</i>		
ENSG00000269563	2	47789601	47811998	79	24	50653	0.69262	0.24427	<i>AC138655.1</i>		
ENSG00000197045	14	54931202	54965914	62	11	45605	0.69256	0.24429	<i>GMFB</i>		
ENSG00000175928	3	3831121	3899387	210	32	29676	0.69254	0.2443	<i>LRRN1</i>		
ENSG00000085465	1	111946936	111980399	122	16	37113	0.69225	0.24439	<i>OVGP1</i>		
ENSG00000134242	1	114346433	114424381	154	20	39946	0.69215	0.24442	<i>PTPN22</i>		
ENSG00000158711	1	205567071	205611090	139	25	41651	0.69203	0.24446	<i>ELK4</i>		
ENSG00000102805	13	77554795	77586652	109	18	43551	0.69188	0.24451	<i>CLN5</i>		
ENSG00000114026	3	9781628	9839903	131	24	50207	0.69163	0.24458	<i>OGG1</i>		
ENSG00000184374	8	119997691	120128821	689	45	44965	0.69157	0.2446	<i>COLEC10</i>		
ENSG00000177156	11	737329	775024	90	16	35241	0.69155	0.24461	<i>TALDO1</i>		
ENSG00000228278	9	117082149	117105532	48	17	46059	0.69151	0.24462	<i>ORM2</i>		
ENSG00000167613	19	54855362	54892165	159	35	42529	0.69152	0.24462	<i>LAIR1</i>		
ENSG00000163554	1	158570496	158666488	273	33	45648	0.69125	0.2447	<i>SPTA1</i>		
ENSG00000213494	17	34300327	34339100	171	26	43539	0.69107	0.24476	<i>CCL14</i>		
ENSG00000110195	11	71890602	71917345	79	17	39158	0.69092	0.24481	<i>FOLR1</i>		

ENSG00000160062	1	32995028	33081540	233	16	51689	0.69078	0.24485	ZBTB8A		
ENSG00000227868	1	23327327	23352343	41	7	34932	0.69069	0.24488	C1orf234		
ENSG00000095906	16	1822902	1849192	151	18	36002	0.6907	0.24488	NUBP2		
ENSG00000101470	20	44441853	44472384	95	19	46683	0.6907	0.24488	TNNC2		
ENSG00000173262	12	7955108	8053744	439	67	44855	0.69052	0.24493	SLC2A14		
ENSG00000157654	9	112532589	112944792	1445	173	46457	0.69043	0.24496	PALM2-AKAP2		
ENSG00000104267	8	86366081	86403722	68	15	51855	0.69036	0.24498	CA2		
ENSG00000087586	20	54934445	54977393	101	29	43034	0.6903	0.245	AURKA		
ENSG00000157601	21	42782231	42841141	259	30	31589	0.69019	0.24504	MX1		
ENSG00000128383	22	39338746	39369188	72	18	46425	0.6899	0.24513	APOBEC3A		
ENSG00000133935	14	76106134	76137532	67	17	43384	0.68985	0.24514	C14orf1		
ENSG00000241553	3	9824179	9859410	92	18	48344	0.68955	0.24524	ARPC4		
ENSG00000103647	15	68861308	69030145	545	68	39514	0.68938	0.24529	CORO2B		
ENSG00000173988	13	46776083	46861501	309	39	38360	0.68893	0.24543	LRRC63		
ENSG00000182831	16	9175505	9225497	230	27	39771	0.68889	0.24545	C16orf72		
ENSG00000130592	11	1864200	1923497	241	42	47584	0.6887	0.24551	LSP1		
ENSG00000186666	12	50221573	50246912	62	14	51061	0.6883	0.24563	BCDIN3D		
ENSG00000168918	2	233914677	234126549	739	95	37765	0.68824	0.24565	INPP5D		
ENSG00000170854	3	97650662	97701301	74	17	53667	0.68825	0.24565	MINA		
ENSG00000171217	6	155575147	155607682	174	17	50622	0.68822	0.24566	CLDN20		
ENSG00000185127	6	170092233	170116401	52	12	35921	0.688	0.24573	C6orf120		
ENSG00000127946	7	75152621	75378280	838	93	48842	0.6878	0.24579	HIP1		
ENSG00000267772	17	58631908	58673984	38	14	33792	0.68773	0.24581	RP11-15E18.4		
ENSG00000152217	18	42250138	42658475	867	142	51599	0.68765	0.24584	SETBP1		
ENSG00000187145	1	150256289	150291414	128	13	33773	0.68756	0.24587	MRPS21		
ENSG00000122176	1	203299756	203330617	91	19	41764	0.68753	0.24587	FMOD		
ENSG00000184863	7	155427145	155584179	492	27	45380	0.68712	0.246	RBM33		
ENSG00000223496	16	70274134	70295833	21	12	35571	0.68709	0.24601	EXOSC6		
ENSG00000078699	20	32067881	32247842	165	33	49421	0.68696	0.24605	CBFA2T2		
ENSG00000146834	7	100016413	100041741	45	6	53342	0.68695	0.24606	MEPCE		
ENSG00000158122	9	99391859	99427585	27	16	43574	0.6869	0.24607	AAED1		
ENSG00000171984	20	5721039	5854558	590	98	49283	0.68663	0.24616	C20orf196		
ENSG00000157191	1	16757167	16796573	120	21	46183	0.68658	0.24617	NECAP2		
ENSG00000204444	6	31610193	31635987	100	22	41559	0.68647	0.24621	APOM		
ENSG00000080573	19	10060237	10131147	423	69	47305	0.68639	0.24623	COL5A3		
ENSG00000087116	5	178527852	178782431	983	175	47225	0.68633	0.24625	ADAMTS2		

ENSG00000176783	5	178967559	179047027	289	31	50594	0.68601	0.24635	RUFY1		
ENSG00000187244	19	45302328	45334673	131	31	47952	0.68599	0.24636	BCAM		
ENSG00000154640	21	18955971	18995265	78	19	45741	0.68581	0.24642	BTG3		
ENSG00000130024	6	170094001	170134151	88	17	34812	0.68578	0.24643	PHF10		
ENSG00000197223	2	68258262	68348080	137	29	42747	0.68574	0.24644	C1D		
ENSG00000132026	19	12926292	12956242	79	12	41044	0.68536	0.24656	RTBDN		
ENSG00000186417	15	51623826	51710210	354	47	37096	0.68533	0.24657	GLDN		
ENSG00000166704	19	58478421	58524717	179	16	51856	0.68523	0.2466	ZNF606		
ENSG00000137103	9	35804448	35864844	107	18	43407	0.68499	0.24668	TMEM8B		
ENSG00000196177	10	124758495	124827827	271	37	45380	0.68484	0.24672	ACADSB		
ENSG00000157107	5	72241808	72396349	301	19	49849	0.6848	0.24673	FCHO2		
ENSG00000021762	11	3098346	3197969	509	91	40784	0.68481	0.24673	OSBPL5		
ENSG00000113971	3	132266986	132451303	373	45	38585	0.68447	0.24684	NPHP3		
ENSG00000256966	9	37502544	37602466	326	43	47183	0.68443	0.24685	RP11-613M10.8		
ENSG00000171148	3	9811544	9844695	78	13	49714	0.68422	0.24692	TADA3		
ENSG00000254979	11	57144838	57201532	116	25	51388	0.6842	0.24693	RP11-872D17.8		
ENSG00000133816	11	12105543	12295334	726	140	45055	0.68416	0.24694	MICAL2		
ENSG00000141994	19	5774843	5801249	121	18	33035	0.68414	0.24694	DUS3L		
ENSG00000130175	19	11536109	11571783	94	22	37425	0.6841	0.24696	PRKCSH		
ENSG00000161057	7	102974701	103019842	85	18	49820	0.68404	0.24698	PSMC2		
ENSG00000171033	8	79418374	79527502	286	29	50813	0.68389	0.24702	PKIA		
ENSG00000013306	17	42386993	42412238	55	12	30387	0.68378	0.24706	SLC25A39		
ENSG00000185792	19	56209798	56259768	218	52	48340	0.6837	0.24708	NLRP9		
ENSG00000111445	12	118441393	118480935	124	26	49160	0.68368	0.24709	RFC5		
ENSG00000171503	4	159583277	159640775	64	19	47218	0.68354	0.24713	ETFDH		
ENSG00000268085	8	23402287	23430651	156	24	45856	0.68352	0.24714	AC051642.1		
ENSG00000168612	20	44499866	44523905	74	10	44220	0.68347	0.24716	ZSWIM1		
ENSG00000166152	16	49397734	49443342	134	17	40914	0.68342	0.24717	C16orf78		
ENSG00000196900	5	125957414	125981979	99	24	37597	0.68335	0.24719	C5orf48		
ENSG00000154930	20	24976868	25049616	204	36	51518	0.68318	0.24725	ACSS1		
ENSG00000124602	6	40984772	41016928	78	8	53929	0.68305	0.24729	UNC5CL		
ENSG00000269570	11	58368589	58388759	55	13	50861	0.68262	0.24742	AP001350.1		
ENSG00000185561	17	1601064	1623732	59	16	38013	0.68246	0.24747	TLCD2		
ENSG00000184293	12	9858456	9895895	194	18	47464	0.6824	0.24749	CLECL1		
ENSG00000101417	20	32284512	32318125	75	16	47132	0.68231	0.24752	PXMP4		
ENSG00000196586	6	76448909	76639254	413	38	41415	0.68229	0.24753	MYO6		

ENSG00000135968	2	109055017	109135871	383	26	43170	0.68222	0.24755	GCC2		
ENSG00000115268	19	1428358	1450583	41	12	49392	0.68219	0.24756	RPS15		
ENSG00000093000	22	45549722	45593896	173	20	44574	0.68218	0.24756	NUP50		
ENSG00000229544	10	126125592	126148753	76	14	49046	0.68214	0.24758	NKX1-2		
ENSG00000219435	11	64057863	64082242	21	8	51150	0.68214	0.24758	TEX40		
ENSG00000101367	20	31397699	31448211	181	29	45219	0.6821	0.24759	MAPRE1		
ENSG00000165948	14	94537628	94580192	195	29	39808	0.68145	0.24779	IFI27L1		
ENSG00000131389	3	14434076	14540857	302	72	45792	0.68141	0.24781	SLC6A6		
ENSG00000141696	17	39948199	39978856	76	15	50779	0.68133	0.24783	LEPREL4		
ENSG00000180346	4	90023968	90046050	117	17	31172	0.68127	0.24785	TIGD2		
ENSG00000153684	15	28613767	28647170	3	2	42660	0.68109	0.24791	GOLGA8F		
ENSG00000093183	3	42579461	42652572	216	22	36255	0.68102	0.24793	SEC22C		
ENSG00000204439	6	31616075	31638549	82	20	38369	0.68095	0.24795	C6orf47		
ENSG00000143314	1	156697095	156721382	54	14	38629	0.6807	0.24803	MRPL24		
ENSG00000170906	19	54596036	54622564	106	23	48992	0.68051	0.24809	NDUFA3		
ENSG00000130177	13	114990362	115048198	176	19	29923	0.68047	0.2481	CDC16		
ENSG00000167325	11	4105937	4170106	244	17	30993	0.68032	0.24815	RRM1		
ENSG00000264278	18	74496688	74544251	215	34	48551	0.68022	0.24818	RP11-162A12.2		
ENSG00000162896	1	207091863	207129811	57	13	33557	0.67954	0.2484	PIGR		
ENSG00000172732	11	65614597	65645124	61	8	28816	0.67951	0.24841	MUS81		
ENSG00000089048	20	13684969	13775532	295	36	49230	0.67924	0.24849	ESF1		
ENSG00000204393	20	31165281	31206695	81	22	37824	0.67913	0.24853	RP11-410N8.4		
ENSG00000130522	19	18380563	18402432	106	13	52965	0.67892	0.24859	JUND		
ENSG00000174485	15	65940384	66094631	340	22	33534	0.67872	0.24866	DENND4A		
ENSG00000129028	15	71163681	71195124	44	12	52704	0.6787	0.24866	THAP10		
ENSG00000182450	11	64048774	64077503	28	12	49030	0.67862	0.24869	KCNK4		
ENSG00000167749	19	51399608	51423994	89	17	32828	0.67862	0.24869	KLK4		
ENSG00000110514	11	47280712	47361582	183	20	38695	0.67848	0.24873	MADD		
ENSG00000173960	2	24140155	24237779	382	30	55620	0.67832	0.24878	UBXN2A		
ENSG00000005469	7	86964997	87039111	205	23	35722	0.67784	0.24894	CROT		
ENSG00000157322	16	69974810	70008141	45	12	39841	0.67771	0.24898	CLEC18A		
ENSG00000186522	2	110290559	110381783	264	29	43990	0.67732	0.2491	Sep-10		
ENSG00000143067	1	120152045	120200396	148	22	49353	0.67708	0.24918	ZNF697		
ENSG00000138442	2	203729505	203889521	374	23	46519	0.67707	0.24918	WDR12		
ENSG00000116455	1	111972512	112001998	73	13	42286	0.67702	0.2492	WDR77		
ENSG00000144152	2	112885962	112955791	221	42	49328	0.677	0.2492	FBLN7		

ENSG00000143198	1	165590098	165641033	224	28	40511	0.67695	0.24922	MGST3		
ENSG00000170175	17	7338380	7371026	78	14	45198	0.67658	0.24934	CHRNA1		
ENSG00000110243	11	116650083	116673136	65	17	44344	0.67651	0.24936	APOA5		
ENSG00000005812	13	77556740	77611330	191	22	45358	0.67652	0.24936	FBXL3		
ENSG00000131149	16	85635015	85719810	217	58	47501	0.6765	0.24936	GSE1		
ENSG00000130517	19	18441397	18490760	150	32	46630	0.67645	0.24938	PGPEP1		
ENSG00000186453	2	24387938	24433718	179	20	43636	0.67642	0.24939	FAM228A		
ENSG00000180708	1	158379718	158400656	84	10	31104	0.67622	0.24945	OR10K2		
ENSG00000004897	17	45185069	45276788	240	31	51684	0.67584	0.24957	CDC27		
ENSG00000184428	8	144376554	144452149	285	27	37083	0.67576	0.2496	TOP1MT		
ENSG00000158669	8	41424706	41492520	241	22	50429	0.67572	0.24961	AGPAT6		
ENSG00000198924	10	115584488	115624142	47	23	45082	0.6756	0.24965	DCLRE1A		
ENSG00000054118	1	36680017	36780958	143	21	44794	0.67545	0.24969	THRAP3		
ENSG00000124588	6	2978221	3029996	378	50	49361	0.67545	0.24969	NQO2		
ENSG00000187790	14	45595143	45680093	146	21	37217	0.67523	0.24976	FANCM		
ENSG00000185269	17	79900388	79929716	93	10	41554	0.67522	0.24977	NOTUM		
ENSG00000167384	19	44969854	45014576	233	28	44507	0.67496	0.24985	ZNF180		
ENSG00000121053	17	56260098	56292535	77	21	40654	0.67479	0.24991	EPX		
ENSG00000057593	13	113750105	113784995	92	18	41594	0.67428	0.25007	F7		
ENSG00000115009	2	228668558	228692272	44	19	42364	0.67424	0.25008	CCL20		
ENSG00000011021	1	11856207	11913201	329	23	52118	0.67414	0.25011	CLCN6		
ENSG00000166532	12	8824196	8945691	160	28	47445	0.6738	0.25022	RIMKLB		
ENSG00000184012	21	42826478	42913043	395	58	46458	0.67368	0.25026	TMPPSS2		
ENSG00000148248	9	136218325	136252970	90	13	51491	0.67364	0.25027	SURF4		
ENSG00000165606	10	50562237	50613497	116	18	50277	0.67364	0.25027	DRGX		
ENSG00000124827	6	10863456	10892174	80	19	45551	0.67362	0.25028	GCM2		
ENSG00000184983	22	42471529	42496959	72	9	48271	0.67342	0.25034	NDUFA6		
ENSG00000090539	3	184087861	184118524	77	25	46691	0.6733	0.25038	CHRD		
ENSG00000173848	10	5444514	5510426	184	17	52001	0.6731	0.25044	NET1		
ENSG00000166450	15	55893744	56045288	406	45	32718	0.6731	0.25044	PRTG		
ENSG00000169733	17	79995778	80019707	78	17	38195	0.673	0.25047	RFNG		
ENSG00000179456	1	244204585	244230778	40	17	49905	0.67275	0.25055	ZBTB18		
ENSG00000151893	10	120423679	120524761	356	36	45690	0.67268	0.25058	CACUL1		
ENSG00000117262	1	145754411	145837103	11	4	43194	0.67229	0.2507	GPR89A		
ENSG00000180938	8	125975540	126001631	89	6	50747	0.67223	0.25072	ZNF572		
ENSG00000141480	17	4603784	4634794	120	18	42081	0.67207	0.25077	ARRB2		

ENSG00000079134	18	204520	278050	164	20	54847	0.67192	0.25082	THOC1		
ENSG00000178752	2	239057623	239087541	124	25	49163	0.67185	0.25084	FAM132B		
ENSG00000149295	11	113270318	113356413	231	32	39725	0.67178	0.25086	DRD2		
ENSG00000178026	22	24971588	24999175	75	15	42163	0.67176	0.25087	FAM211B		
ENSG00000138111	10	104211149	104246802	130	15	50556	0.67165	0.2509	TMEM180		
ENSG00000152904	1	235480665	235517847	107	13	41236	0.67157	0.25093	GGPS1		
ENSG00000136939	9	125476269	125497204	66	8	43211	0.67134	0.251	OR1L4		
ENSG00000011566	2	39466407	39674453	510	42	42827	0.67127	0.25102	MAP4K3		
ENSG00000196937	7	120978905	121046418	158	14	31250	0.67127	0.25103	FAM3C		
ENSG00000068001	3	50345221	50370337	20	10	47222	0.67105	0.2511	HYAL2		
ENSG00000177830	11	857357	925058	162	23	36761	0.67081	0.25117	CHID1		
ENSG00000112584	6	170589791	170726153	378	35	48789	0.67055	0.25125	FAM120B		
ENSG00000136518	3	179270668	179316196	77	8	51255	0.67039	0.25131	ACTL6A		
ENSG00000004777	19	36255434	36289724	109	17	44265	0.67032	0.25133	ARHGAP33		
ENSG00000196712	17	29411945	29719134	447	20	30749	0.67015	0.25138	NF1		
ENSG00000080224	3	96523425	97481304	1366	114	39880	0.67009	0.2514	EPHA6		
ENSG00000117394	1	43381052	43434530	207	28	46209	0.66975	0.25151	SLC2A1		
ENSG00000269496	3	172351483	172371740	45	12	53077	0.66975	0.25151	AC007919.2		
ENSG00000099250	10	33456420	33635190	740	84	46947	0.6697	0.25153	NRP1		
ENSG00000124232	20	43925491	43955803	109	20	43052	0.66939	0.25162	RBPJL		
ENSG00000078401	6	12280596	12307427	84	22	42951	0.66928	0.25166	EDN1		
ENSG00000168476	8	21985533	22009464	53	15	52504	0.66927	0.25166	REEP4		
ENSG00000171847	12	8363856	8390214	34	16	38209	0.66927	0.25166	FAM90A1		
ENSG00000075292	2	71493691	71672199	566	46	40781	0.66919	0.25169	ZNF638		
ENSG00000253293	7	27200210	27229880	52	21	45200	0.66907	0.25172	HOXA10		
ENSG00000249861	19	40136534	40161287	64	9	49895	0.66904	0.25173	LGALS16		
ENSG00000136848	9	124319336	124557809	590	115	40697	0.66903	0.25174	DAB2IP		
ENSG00000188732	7	23709749	23752868	148	23	44616	0.6688	0.25181	FAM221A		
ENSG00000178473	10	5396972	5426169	129	19	35840	0.66866	0.25186	UCN3		
ENSG00000101146	20	55916066	55964267	207	14	46646	0.66852	0.2519	RAE1		
ENSG00000105852	7	94979256	95035680	119	17	49782	0.6685	0.25191	PON3		
ENSG00000196796	16	29039923	29074047	14	6	39430	0.66849	0.25191	CTB-134H23.2		
ENSG00000023892	6	35255595	35299548	116	17	29084	0.66832	0.25197	DEF6		
ENSG00000178623	2	241534848	241580676	219	45	50134	0.66828	0.25198	GPR35		
ENSG00000121440	3	73421584	73684091	716	117	47178	0.66822	0.252	PDZRN3		
ENSG00000140443	15	99182200	99517759	1067	137	41726	0.66809	0.25204	IGF1R		

ENSG00000203963	1	67547848	67707536	558	58	47597	0.66803	0.25206	<i>C1orf141</i>		
ENSG00000197579	9	32530542	32562551	62	12	52106	0.66798	0.25207	<i>TOPORS</i>		
ENSG00000145247	4	48877036	48918954	87	15	51363	0.66784	0.25212	<i>OCIAD2</i>		
ENSG00000178084	3	183760835	183788459	101	21	45947	0.6676	0.25219	<i>HTR3C</i>		
ENSG00000160049	1	10506579	10542583	67	14	32954	0.66739	0.25226	<i>DFFA</i>		
ENSG00000140481	15	74499613	74638813	391	58	31501	0.66701	0.25238	<i>CCDC33</i>		
ENSG00000268858	20	62482879	62503217	55	12	37083	0.66686	0.25243	<i>C20ORF135</i>		
ENSG00000205639	2	24222951	24296191	232	33	51123	0.66681	0.25245	<i>MFSD2B</i>		
ENSG00000205212	17	20729760	20809453	215	36	43132	0.6667	0.25248	<i>CCDC144NL</i>		
ENSG00000126773	14	60548629	60645851	252	10	25411	0.66639	0.25258	<i>PCNXL4</i>		
ENSG00000138430	2	174927175	175123426	550	37	43725	0.66617	0.25265	<i>OLA1</i>		
ENSG00000121039	8	74196847	74247516	153	22	52587	0.66598	0.25271	<i>RDH10</i>		
ENSG00000169181	16	27788850	28084830	1036	151	48600	0.66562	0.25283	<i>GSG1L</i>		
ENSG00000251349	9	103194553	103349918	431	33	46268	0.66522	0.25295	<i>MSANTD3-TMEFF1</i>		
ENSG00000241697	9	103194560	103349918	431	33	46268	0.66522	0.25295	<i>TMEFF1</i>		
ENSG00000110395	11	119066752	119188859	181	22	39574	0.66522	0.25296	<i>CBL</i>		
ENSG00000196355	4	38618029	38676430	159	26	45133	0.66507	0.253	<i>AC021860.1</i>		
ENSG00000155816	1	240167648	240648489	1957	181	48272	0.66469	0.25312	<i>FMN2</i>		
ENSG00000181856	17	7174986	7201576	50	12	39954	0.6647	0.25312	<i>SLC2A4</i>		
ENSG00000104327	8	91060836	91117703	159	21	41777	0.66466	0.25314	<i>CALB1</i>		
ENSG00000107242	9	71310575	71634092	1021	90	40733	0.66465	0.25314	<i>PIP5K1B</i>		
ENSG00000214188	7	116583953	116748860	212	44	48614	0.6646	0.25315	<i>ST7-OT4</i>		
ENSG00000136143	13	48500622	48622125	564	35	40409	0.66455	0.25317	<i>SUCLA2</i>		
ENSG00000262246	16	4394543	4485706	256	37	43693	0.66449	0.25319	<i>CORO7</i>		
ENSG00000157150	3	12184551	12210851	80	16	45307	0.6641	0.25331	<i>TIMP4</i>		
ENSG00000172935	11	68761863	68790877	63	16	49108	0.66409	0.25332	<i>MRGPRF</i>		
ENSG00000118922	13	74250226	74718394	1515	174	44277	0.66405	0.25333	<i>KLF12</i>		
ENSG00000227051	14	96495661	96570417	300	41	52401	0.66338	0.25354	<i>C14orf132</i>		
ENSG00000244242	11	1743640	1781821	144	17	40103	0.66333	0.25356	<i>IFITM10</i>		
ENSG00000138834	16	1746184	1830318	211	32	39808	0.66304	0.25365	<i>MAPK8IP3</i>		
ENSG00000105619	19	54600320	54629055	110	20	50683	0.66285	0.25371	<i>TFPT</i>		
ENSG00000162526	1	32807122	32839913	20	13	52200	0.66247	0.25384	<i>TSSK3</i>		
ENSG00000185101	11	407933	452011	127	25	42741	0.66229	0.25389	<i>ANO9</i>		
ENSG00000253896	8	12601	39775	1	1	43670	0.66227	0.2539	<i>AC144568.2</i>		
ENSG00000204388	6	31785512	31808031	77	28	41131	0.66218	0.25393	<i>HSPA1B</i>		
ENSG00000184434	9	26983134	27015691	80	21	45605	0.66217	0.25393	<i>LRRC19</i>		

ENSG00000156671	10	76849344	76951881	267	27	41745	0.66201	0.25398	SAMD8		
ENSG00000166833	11	19362271	20153144	2356	274	43121	0.66198	0.25399	NAV2		
ENSG00000162746	1	161681353	161707933	128	22	40953	0.66172	0.25407	FCRLB		
ENSG00000163430	3	120101140	120180100	261	35	37806	0.66167	0.25409	FSTL1		
ENSG00000113273	5	78063032	78291910	894	90	42259	0.66166	0.25409	ARSB		
ENSG00000025423	12	57135945	57191574	117	19	37481	0.66128	0.25422	HSD17B6		
ENSG00000184206	15	84894525	84924120	56	17	43634	0.66128	0.25422	GOLGA6L4		
ENSG00000144681	3	36411836	36599499	847	68	53581	0.66122	0.25423	STAC		
ENSG00000197128	19	57968031	57998938	145	10	51027	0.66124	0.25423	ZNF772		
ENSG00000162607	1	62891968	62927475	84	11	40711	0.66117	0.25425	USP1		
ENSG00000109625	4	8584387	8631488	274	47	42035	0.66112	0.25427	CPZ		
ENSG00000243335	7	66083868	66286446	777	40	52435	0.66105	0.25429	KCTD7		
ENSG00000198758	1	110282702	110316649	90	20	46509	0.66083	0.25436	EPS8L3		
ENSG00000255223	11	56299746	56320757	116	13	39313	0.66072	0.2544	OR5M11		
ENSG00000016082	5	50668921	50700564	65	13	48860	0.66055	0.25445	ISL1		
ENSG00000268218	16	89324512	89349452	105	20	39058	0.6605	0.25447	AC137932.1		
ENSG00000135185	7	86815478	86859903	147	16	54057	0.66039	0.2545	TMEM243		
ENSG00000147601	8	73911099	73970357	131	15	36164	0.66023	0.25455	TERF1		
ENSG00000151575	15	56526207	56748195	654	43	47422	0.66024	0.25455	TEX9		
ENSG00000205593	22	50737459	50775489	160	21	42751	0.66022	0.25456	DENND6B		
ENSG00000231031	2	15820906	15894463	278	44	42216	0.66015	0.25458	AC008271.1		
ENSG00000213588	6	33412356	33435325	47	12	50318	0.66011	0.25459	ZBTB9		
ENSG00000156983	3	9763413	9799702	76	25	50365	0.66006	0.25461	BRPF1		
ENSG00000170473	12	56285197	56336402	71	12	53320	0.65969	0.25473	WIBG		
ENSG00000162924	2	61098656	61168745	128	26	41355	0.65948	0.25479	REL		
ENSG00000130844	19	54014235	54093523	497	56	47491	0.65948	0.25479	ZNF331		
ENSG00000141469	18	43294092	43342485	229	22	42564	0.65942	0.25481	SLC14A1		
ENSG00000164649	7	21930518	21995702	251	46	45413	0.65932	0.25485	CDCA7L		
ENSG00000105141	19	15150195	15179104	148	19	46061	0.65853	0.2551	CASP14		
ENSG00000107902	10	126140403	126316457	1000	129	44935	0.65833	0.25516	LHPP		
ENSG00000236287	11	10823621	10890343	192	29	44678	0.65816	0.25522	ZBED5		
ENSG00000104412	8	109445830	109509145	225	16	49726	0.65809	0.25524	EMC2		
ENSG00000085721	16	15143879	15198174	140	24	37635	0.65807	0.25525	RRN3		
ENSG00000130255	19	5664958	5701887	109	24	50117	0.65807	0.25525	RPL36		
ENSG00000117010	1	40987233	41023841	161	16	36310	0.658	0.25527	ZNF684		
ENSG00000223601	10	22487743	22508950	89	10	28094	0.65797	0.25528	EBLN1		

ENSG00000181778	9	71141496	71165783	46	12	39288	0.6579	0.2553	<i>TMEM252</i>		
ENSG00000205359	5	101697486	101844720	607	29	53407	0.65788	0.25531	<i>SLCO6A1</i>		
ENSG00000214194	7	112746773	112768668	57	9	36277	0.6575	0.25543	<i>LINC00998</i>		
ENSG00000162923	1	224562845	224634735	134	11	36201	0.65691	0.25562	<i>WDR26</i>		
ENSG00000172927	11	69051605	69192494	260	46	40900	0.65665	0.2557	<i>MYEOV</i>		
ENSG00000183292	2	131318402	131351734	2	1	43541	0.65649	0.25575	<i>AC140481.2</i>		
ENSG00000174827	1	145716918	145774074	22	11	43941	0.65643	0.25577	<i>PDZK1</i>		
ENSG00000100532	14	54966530	55015567	59	12	40024	0.65584	0.25596	<i>CGRRF1</i>		
ENSG00000118894	16	5124305	5157809	149	33	48985	0.65586	0.25596	<i>FAM86A</i>		
ENSG00000259529	14	24610427	24646611	68	19	47966	0.65578	0.25598	<i>RP11-468E2.4</i>		
ENSG00000149452	11	62746626	62793311	96	28	48090	0.6556	0.25604	<i>SLC22A8</i>		
ENSG00000142233	19	49154664	49186338	61	15	42758	0.65549	0.25608	<i>NTN5</i>		
ENSG00000116299	1	109646301	109759401	422	59	39834	0.65516	0.25618	<i>KIAA1324</i>		
ENSG00000180185	16	1866968	1900208	314	11	53790	0.65489	0.25627	<i>FAHD1</i>		
ENSG00000137343	6	30584619	30624600	91	17	31044	0.65486	0.25628	<i>ATAT1</i>		
ENSG00000127074	1	192595275	192639390	118	18	35975	0.6548	0.2563	<i>RGS13</i>		
ENSG00000166105	11	134134139	134199458	188	35	45504	0.65473	0.25632	<i>GLB1L3</i>		
ENSG00000135124	12	121637660	121681909	185	23	54087	0.65466	0.25634	<i>P2RX4</i>		
ENSG00000142698	1	34622484	34694732	231	40	43357	0.65465	0.25635	<i>C1orf94</i>		
ENSG00000178395	1	223556715	223578812	53	7	50069	0.6546	0.25636	<i>C1orf65</i>		
ENSG00000136478	17	62214587	62350661	379	32	41869	0.6546	0.25636	<i>TEX2</i>		
ENSG00000103710	15	65335679	65379028	98	17	54086	0.65447	0.2564	<i>RASL12</i>		
ENSG00000070761	16	58137496	58173354	138	13	45715	0.65432	0.25645	<i>C16orf80</i>		
ENSG00000123119	8	91793778	91981636	402	28	30341	0.65423	0.25648	<i>NECAB1</i>		
ENSG00000226397	12	25136358	25160453	94	24	51511	0.65412	0.25652	<i>C12orf77</i>		
ENSG00000131061	20	32309463	32390075	121	23	38364	0.65413	0.25652	<i>ZNF341</i>		
ENSG00000147588	8	82342561	82369758	88	10	32673	0.65399	0.25656	<i>PMP2</i>		
ENSG00000205758	21	34951647	35026232	116	28	53637	0.65398	0.25656	<i>CRYZL1</i>		
ENSG00000123607	2	166703985	166820353	283	33	49038	0.65391	0.25658	<i>TTC21B</i>		
ENSG00000183826	6	38126227	38617924	1290	129	44392	0.65389	0.25659	<i>BTBD9</i>		
ENSG00000109787	4	38655817	38712663	181	39	45188	0.65378	0.25663	<i>KLF3</i>		
ENSG00000008516	16	3086682	3120727	127	23	52159	0.65372	0.25665	<i>MMP25</i>		
ENSG00000268192	11	119017590	119037930	37	7	28526	0.65347	0.25673	<i>AP002956.1</i>		
ENSG00000117448	1	46006215	46045721	97	10	53588	0.6533	0.25678	<i>AKR1A1</i>		
ENSG00000140718	16	53727875	54165853	1431	176	42474	0.65317	0.25682	<i>FTO</i>		
ENSG00000128422	17	39765689	39791094	42	14	44733	0.65319	0.25682	<i>KRT17</i>		

ENSG00000182606	3	42045294	42277381	719	76	49298	0.65308	0.25685	TRAK1		
ENSG00000172803	11	65591112	65634367	94	15	33877	0.652	0.2572	SNX32		
ENSG00000101441	20	23656277	23679677	92	21	45479	0.6519	0.25723	CST4		
ENSG00000204954	12	104333980	104369486	191	25	40437	0.65179	0.25727	C12orf73		
ENSG00000128487	17	19902657	20232339	842	42	41348	0.65172	0.25729	SPECC1		
ENSG00000128159	22	50646118	50693421	207	31	39357	0.65139	0.2574	TUBGCP6		
ENSG00000167114	9	131092925	131133749	87	18	37413	0.65125	0.25744	SLC27A4		
ENSG00000178201	19	57956542	57977854	111	11	51878	0.65125	0.25744	VN1R1		
ENSG00000124449	19	44210162	44234173	84	15	44559	0.65124	0.25745	IRGC		
ENSG00000080644	15	78875394	78923637	153	18	44642	0.65117	0.25747	CHRNA3		
ENSG00000139973	14	62443803	62578431	604	83	45060	0.65108	0.2575	SYT16		
ENSG00000269753	1	2248581	2269042	99	26	44449	0.65097	0.25753	AL589739.1		
ENSG00000241106	6	32770540	32794825	303	27	38782	0.65071	0.25762	HLA-DOB		
ENSG00000196353	3	131242399	132014254	3355	199	47846	0.65068	0.25763	CPNE4		
ENSG00000087494	12	28101017	28135638	122	21	50047	0.65055	0.25767	PTHLH		
ENSG00000215853	1	152116071	152141704	34	9	30419	0.65051	0.25768	RPTN		
ENSG00000102794	13	77512632	77542777	82	24	44056	0.65041	0.25771	IRG1		
ENSG00000249624	21	34609079	34665517	184	26	49596	0.65032	0.25774	AP000295.9		
ENSG00000204978	19	41939063	41960670	47	10	42536	0.65023	0.25777	C19orf69		
ENSG00000115598	2	102793433	102866462	313	24	47410	0.64937	0.25805	IL1RL2		
ENSG00000163138	4	20687905	20764530	318	28	55082	0.64929	0.25808	PACRGL		
ENSG00000117360	1	150283925	150335671	154	17	37850	0.64909	0.25814	PRPF3		
ENSG00000108590	17	6536635	6564954	127	16	43727	0.64872	0.25826	MED31		
ENSG00000158856	8	21896506	21950038	216	35	44220	0.64867	0.25828	DMTN		
ENSG00000197416	8	82427216	82453613	74	15	34876	0.64859	0.2583	FABP12		
ENSG00000196576	22	50703408	50756056	224	47	45526	0.64831	0.25839	PLXNB2		
ENSG00000121671	11	45858669	45914798	128	23	46762	0.64821	0.25842	CRY2		
ENSG00000143248	1	163070911	163301577	999	96	50835	0.6482	0.25843	RGS5		
ENSG00000168874	2	85968467	86025189	149	29	39795	0.6477	0.25859	ATOX8		
ENSG00000255582	14	22091992	22113096	114	21	50261	0.6476	0.25862	OR10G2		
ENSG00000087086	19	49458558	49480135	54	13	49459	0.64745	0.25867	FTL		
ENSG00000150907	13	41119804	41250734	275	22	36235	0.64722	0.25875	FOXO1		
ENSG00000175040	3	142828173	142851800	59	9	46291	0.64715	0.25877	CHST2		
ENSG00000102908	16	69588997	69748569	398	32	46469	0.64711	0.25878	NFAT5		
ENSG00000197050	19	37488759	37631216	483	24	51364	0.64683	0.25887	ZNF420		
ENSG00000180424	20	30018322	30048060	87	11	42225	0.64664	0.25893	DEFB123		

ENSG00000179085	1	155102367	155123071	36	10	48074	0.64656	0.25896	DPM3		
ENSG00000243660	10	43922282	44001517	315	28	35870	0.64641	0.25901	ZNF487		
ENSG00000014216	11	64938037	64989477	122	19	40930	0.64631	0.25904	CAPN1		
ENSG00000137726	11	117697693	117758201	168	41	47721	0.64623	0.25906	FXYP6		
ENSG00000159640	17	61544422	61609205	153	24	47821	0.646	0.25914	ACE		
ENSG00000164764	8	73966775	74046323	250	30	43631	0.6458	0.2592	SBSPON		
ENSG00000184608	8	11215911	11306167	456	48	36920	0.64578	0.25921	C8orf12		
ENSG00000125629	2	118836028	118878573	143	33	50868	0.64571	0.25923	INSIG2		
ENSG00000182346	13	106108216	106153383	176	17	49781	0.64562	0.25926	DAOA		
ENSG00000133193	17	71193492	71242892	234	11	50978	0.64541	0.25933	FAM104A		
ENSG00000119685	14	76089968	76431421	723	61	47058	0.64527	0.25938	TTL5		
ENSG00000064547	19	19724477	19749739	39	10	49327	0.6452	0.2594	LPAR2		
ENSG00000197587	1	46962668	46989898	82	20	40859	0.64508	0.25944	DMBX1		
ENSG00000139971	14	58456453	58774857	884	99	48081	0.64506	0.25945	C14orf37		
ENSG00000138639	4	86386267	86933823	1660	120	36880	0.64486	0.25951	ARHGAP24		
ENSG00000198010	8	1439532	1666642	1073	87	48469	0.64484	0.25951	DLGAP2		
ENSG00000131067	20	33422523	33470663	93	15	49059	0.64467	0.25957	GGT7		
ENSG00000130958	9	99072988	99155992	332	28	48798	0.64455	0.25961	SLC35D2		
ENSG00000109576	4	170971373	171022850	152	26	45890	0.64422	0.25972	AADAT		
ENSG00000176222	19	44366515	44415537	110	10	51133	0.64402	0.25978	ZNF404		
ENSG00000135643	12	70750056	70838072	354	52	45558	0.64391	0.25982	KCNMB4		
ENSG00000135116	12	117283949	117329246	108	21	41044	0.64357	0.25993	HRK		
ENSG00000133321	11	63294281	63323934	48	16	42541	0.64334	0.26	RARRES3		
ENSG00000241128	1	247876401	247897345	53	9	44967	0.64311	0.26008	OR14A2		
ENSG00000135916	2	231719354	231753963	159	40	44831	0.643	0.26011	ITM2C		
ENSG00000146409	6	133080509	133129701	207	23	40237	0.64265	0.26023	SLC18B1		
ENSG00000164241	5	126368250	126419184	138	13	28511	0.64229	0.26034	C5orf63		
ENSG00000131096	17	42020106	42091837	167	32	44080	0.6423	0.26034	PYY		
ENSG00000185958	12	50710013	50800405	123	10	31211	0.64223	0.26036	FAM186A		
ENSG00000160973	8	145688795	145711718	35	9	43355	0.64221	0.26037	FOXH1		
ENSG00000064995	6	34835555	34865866	86	13	30692	0.64215	0.26039	TAF11		
ENSG00000145782	5	115153893	115187555	66	18	46985	0.642	0.26044	ATG12		
ENSG00000197658	11	62837412	62921693	452	26	39374	0.64171	0.26053	SLC22A24		
ENSG00000104419	8	134239414	134324265	316	59	47810	0.64169	0.26054	NDRG1		
ENSG00000133243	19	1975447	2044880	287	53	45097	0.64157	0.26057	BTBD2		
ENSG00000072195	2	220289568	220373009	162	30	42688	0.64148	0.2606	SPEG		

ENSG00000269832	14	50281993	50303258	17	7	54742	0.64127	0.26067	AL627171.2		
ENSG00000085415	18	12937132	12997535	185	25	35624	0.64091	0.26079	SEH1L		
ENSG00000122859	10	71321454	71342994	47	18	45319	0.64078	0.26083	NEUROG3		
ENSG00000136144	13	50096082	50169719	420	30	29008	0.64077	0.26084	RCBTB1		
ENSG00000164251	5	76104758	76141140	98	16	37158	0.64074	0.26085	F2RL1		
ENSG00000113621	5	134199493	134247215	72	19	42121	0.64066	0.26087	TXNDC15		
ENSG00000113552	5	141361314	141402606	171	18	45767	0.64043	0.26095	GNPDA1		
ENSG00000122705	9	36180853	36314778	436	46	45036	0.64039	0.26096	CLTA		
ENSG00000014914	1	149890543	149918791	48	7	51992	0.64019	0.26102	MTMR11		
ENSG00000179454	14	45383522	45521525	306	22	34571	0.64013	0.26104	KLHL28		
ENSG00000105656	19	18543473	18642937	250	18	33696	0.64013	0.26104	ELL		
ENSG00000085563	7	87123175	87352611	525	64	47304	0.64011	0.26105	ABCB1		
ENSG00000100632	14	69836848	69875344	115	19	55084	0.63996	0.2611	ERH		
ENSG00000188729	3	190907030	190993404	342	43	45074	0.63988	0.26113	OSTN		
ENSG00000160075	1	1467053	1520249	177	23	38744	0.63896	0.26142	SSU72		
ENSG00000187193	16	56706336	56728108	98	22	42269	0.63872	0.2615	MT1X		
ENSG00000143368	1	149885209	149910236	46	6	50806	0.63825	0.26166	SF3B4		
ENSG00000185129	5	139477362	139506321	23	7	53075	0.63808	0.26171	PURA		
ENSG00000014164	8	144509825	144633623	452	51	52170	0.63809	0.26171	ZC3H3		
ENSG00000215066	9	6457618	6480375	68	11	41566	0.63807	0.26171	C9orf38		
ENSG00000151704	11	128696210	128747268	173	33	48643	0.63808	0.26171	KCNJ1		
ENSG00000180176	11	2175159	2203107	88	16	42100	0.63793	0.26176	TH		
ENSG00000214106	7	154710208	154751618	81	10	55766	0.63785	0.26179	PAXIP1-AS2		
ENSG00000131095	17	42972376	43004305	122	22	52683	0.63783	0.26179	GFAP		
ENSG00000175564	11	73701326	73730480	61	10	45288	0.63781	0.2618	UCP3		
ENSG00000176893	11	4925900	4946922	94	20	47236	0.63779	0.26181	OR51G2		
ENSG00000168070	11	64694989	64749557	152	15	43252	0.63776	0.26181	C11orf85		
ENSG00000173614	1	9993486	10055559	132	22	36762	0.63753	0.26189	NMNAT1		
ENSG00000173838	17	60768675	60895705	351	41	44056	0.63724	0.26198	Mar-10		
ENSG00000164659	7	86496222	86699015	538	28	51413	0.63708	0.26204	KIAA1324L		
ENSG00000146013	5	137578068	137620360	102	17	51266	0.63704	0.26205	GFRA3		
ENSG00000260836	15	83198783	83234682	48	12	44298	0.63658	0.2622	RP11-152F13.10		
ENSG00000267885	1	33429268	33449642	46	8	40096	0.63619	0.26233	FKSG48		
ENSG00000143374	1	150449887	150490078	132	15	35675	0.63616	0.26234	TARS2		
ENSG00000174946	3	150905619	150930988	81	16	33169	0.63611	0.26235	GPR171		
ENSG00000167550	12	49448468	49473808	24	6	47407	0.636	0.26239	RHEBL1		

ENSG00000196268	19	21569921	21620375	192	18	44621	0.63566	0.2625	ZNF493		
ENSG00000168703	20	43742066	43763106	77	11	46980	0.63567	0.2625	WFDC12		
ENSG00000176919	9	139829698	139851426	93	15	47884	0.63552	0.26254	C8G		
ENSG00000183072	5	172649112	172672360	55	16	37463	0.63552	0.26255	NKX2-5		
ENSG00000067221	15	74265547	74296963	89	12	41719	0.63546	0.26256	STOML1		
ENSG00000266956	17	34300692	34327306	112	23	44995	0.63534	0.2626	CTB-186H2.3		
ENSG00000100246	22	39164513	39200203	80	19	40182	0.63513	0.26267	DNAL4		
ENSG00000204406	2	148768580	149285805	1317	93	49417	0.63497	0.26272	MBD5		
ENSG00000140950	16	84501681	84597639	692	95	36583	0.63475	0.2628	TLDC1		
ENSG00000132170	3	12318867	12485855	429	46	44168	0.63468	0.26282	PPARG		
ENSG00000103426	16	4380252	4480495	280	43	43026	0.63458	0.26285	CORO7-PAM16		
ENSG00000132205	18	2837028	2925991	231	72	39295	0.63459	0.26285	EMILIN2		
ENSG00000101443	20	44088346	44120172	123	21	34289	0.63443	0.2629	WFDC2		
ENSG00000087237	16	56985762	57027757	173	38	50227	0.63432	0.26293	CETP		
ENSG00000163072	2	169633049	169732024	307	48	45727	0.6342	0.26297	NOSTRIN		
ENSG00000127125	1	42911788	42949056	107	10	42205	0.63407	0.26302	PPCS		
ENSG00000113504	5	1040499	1122150	354	68	46578	0.63407	0.26302	SLC12A7		
ENSG00000151233	12	42465647	42548681	236	28	54073	0.63397	0.26305	GXYLT1		
ENSG00000114859	3	184053973	184089439	94	23	47985	0.63373	0.26313	CLCN2		
ENSG00000110046	11	64652007	64694722	87	13	39345	0.63372	0.26313	ATG2A		
ENSG00000147854	9	6403151	6517054	332	31	41056	0.63353	0.26319	UHRF2		
ENSG00000116016	2	46510806	46623836	378	67	39977	0.63345	0.26322	EPAS1		
ENSG00000039523	16	67542321	67590691	72	19	45147	0.63333	0.26326	FAM65A		
ENSG00000126216	13	113129325	113252481	353	27	47553	0.63326	0.26328	TUBGCP3		
ENSG00000169840	13	28356780	28378905	74	18	48137	0.63307	0.26334	GSX1		
ENSG00000181577	6	43958317	43983695	148	21	29326	0.63283	0.26342	C6orf223		
ENSG00000215041	17	7208947	7242712	84	15	48067	0.6328	0.26343	NEURL4		
ENSG00000116459	1	111981486	112015395	83	17	47168	0.63278	0.26344	ATP5F1		
ENSG00000178917	3	44530462	44562128	39	10	39280	0.6326	0.2635	ZNF852		
ENSG00000175485	11	6210376	6231489	57	14	29744	0.63259	0.2635	OR52W1		
ENSG00000158019	2	28102808	28571768	1085	81	40362	0.63244	0.26355	BRE		
ENSG00000010361	19	50300126	50330633	98	17	43191	0.63235	0.26358	FUZ		
ENSG00000198663	6	36829646	36906740	271	26	50875	0.63233	0.26359	C6orf89		
ENSG00000177096	22	42460255	42485445	56	9	49845	0.63228	0.2636	FAM109B		
ENSG00000198754	1	40225195	40247020	71	17	48566	0.63211	0.26366	OXCT2		
ENSG00000163191	1	151994982	152030383	58	13	35324	0.63202	0.26369	S100A11		

ENSG00000183715	11	132274871	133412414	3939	386	42379	0.63197	0.2637	OPCML		
ENSG00000249115	19	36093646	36126251	69	15	44808	0.63182	0.26375	HAUS5		
ENSG00000197380	19	47140869	47174395	85	27	44621	0.63149	0.26386	DACT3		
ENSG00000172789	12	54416637	54439142	51	9	53703	0.63128	0.26393	HOXC5		
ENSG00000157093	3	42428570	42462092	66	19	45390	0.63124	0.26394	LYZL4		
ENSG00000121316	12	14646595	14731283	210	36	42357	0.6311	0.26399	PLBD1		
ENSG00000122025	13	28567411	28684729	438	53	42272	0.63102	0.26401	FLT3		
ENSG00000228259	5	179068298	179089445	67	20	45150	0.63093	0.26404	AC136604.1		
ENSG00000205133	8	93885758	94039901	353	47	39282	0.63087	0.26406	TRIQQ		
ENSG00000254553	1	32920658	33076393	375	23	53361	0.63076	0.2641	RP1-2705.3		
ENSG00000258804	14	87362122	87399099	131	13	48566	0.63047	0.26419	RP11-322L20.1		
ENSG00000148572	10	64883050	64924783	113	16	32167	0.63018	0.26429	NRBF2		
ENSG00000134375	1	201914619	201949789	125	23	52727	0.63015	0.2643	TIMM17A		
ENSG00000125975	20	34101014	34127481	63	12	38286	0.62999	0.26435	C20orf173		
ENSG00000118263	2	207928861	208041991	345	60	48151	0.62997	0.26436	KLF7		
ENSG00000176393	1	201941500	201985275	222	27	48442	0.62952	0.26451	RNPEP		
ENSG00000204960	7	155139680	155170629	212	28	40073	0.62926	0.26459	BLACE		
ENSG00000129315	12	49072247	49120681	126	17	46562	0.62912	0.26464	CCNT1		
ENSG00000138439	2	203489901	203644480	249	36	45324	0.6289	0.26471	FAM117B		
ENSG00000150938	2	36573069	36788278	612	91	44617	0.62865	0.26479	CRIM1		
ENSG00000204642	6	29680552	29716305	389	29	43787	0.62833	0.26489	HLA-F		
ENSG00000006194	16	3303743	3361401	106	21	41043	0.62822	0.26493	ZNF263		
ENSG00000007306	19	42167235	42220895	177	22	42951	0.62807	0.26498	CEACAM7		
ENSG00000125968	20	30183086	30204318	69	4	24315	0.62777	0.26508	ID1		
ENSG00000113300	5	179911412	180015405	509	34	48843	0.62769	0.2651	CNOT6		
ENSG00000180537	6	13914677	13990533	178	20	39157	0.62765	0.26512	RNF182		
ENSG00000105063	19	55731148	55780363	147	29	53089	0.62755	0.26515	PPP6R1		
ENSG00000182909	19	54962981	54984894	81	16	43461	0.62747	0.26517	LENG9		
ENSG00000197885	3	23923151	23998082	280	25	45671	0.62746	0.26518	NKIRAS1		
ENSG00000170545	12	51628342	51674674	122	25	39567	0.6274	0.2652	SMAGP		
ENSG00000196497	14	24639425	24668170	70	16	41295	0.62737	0.26521	IPO4		
ENSG00000021826	2	211332406	211553831	632	70	48984	0.62704	0.26532	CPS1		
ENSG00000109208	4	71216478	71242875	149	20	40097	0.62691	0.26536	SMR3A		
ENSG00000127452	19	9910943	9948492	74	17	34458	0.62687	0.26537	FBXL12		
ENSG00000132819	20	55956463	55994389	119	28	44186	0.62684	0.26538	RBM38		
ENSG00000153071	5	39361780	39472402	387	58	52631	0.62672	0.26542	DAB2		

ENSG00000131626	11	70106806	70240509	324	16	37488	0.62648	0.2655	PPFIA1		
ENSG00000173230	3	121372046	121478602	240	25	53503	0.62637	0.26554	GOLGB1		
ENSG00000078674	8	17770349	17895478	617	46	33218	0.62632	0.26555	PCM1		
ENSG00000203666	1	245123007	245300466	530	52	47412	0.62624	0.26558	EFCAB2		
ENSG00000054796	20	55894815	55929050	114	9	47047	0.62621	0.26559	SPO11		
ENSG00000154035	17	21132183	21166722	106	28	46249	0.626	0.26566	C17orf103		
ENSG00000257184	7	27193154	27229632	70	26	42573	0.62544	0.26584	RP1-170O19.20		
ENSG00000204710	11	64927625	64950715	42	15	44987	0.62487	0.26603	SPDYC		
ENSG00000260170	15	45869549	45978512	342	48	45131	0.62487	0.26603	RP11-96O20.4		
ENSG00000173950	3	194779008	195001896	895	93	40047	0.62476	0.26606	XXYL1		
ENSG00000128594	7	127657124	127682160	47	12	44306	0.62435	0.2662	LRRC4		
ENSG00000257727	12	56693626	56720120	45	8	44672	0.62417	0.26626	CNPY2		
ENSG00000181322	3	137970279	138058728	92	30	50953	0.62386	0.26636	NME9		
ENSG00000153048	16	8936799	8972866	239	41	50641	0.62378	0.26639	CARHSP1		
ENSG00000162814	1	217794666	218055038	872	74	46321	0.62344	0.2665	SPATA17		
ENSG00000183347	1	89819617	89862020	141	21	50664	0.62341	0.26651	GBP6		
ENSG00000126790	14	59917081	59961148	158	18	43877	0.62317	0.26659	L3HYPDH		
ENSG00000129317	12	44112410	44162620	154	18	41072	0.62284	0.26669	PUS7L		
ENSG00000259522	14	24639601	24669622	73	17	41337	0.62279	0.26671	RP11-468E2.2		
ENSG00000172939	3	38196580	38306979	168	27	47306	0.62276	0.26672	OXSRI		
ENSG00000184271	12	51570719	51621477	142	31	42763	0.62272	0.26673	POU6F1		
ENSG00000188694	21	31643629	31665276	85	13	43680	0.62249	0.26681	KRTAP24-1		
ENSG00000152495	5	110549351	110840584	858	88	47827	0.62246	0.26682	CAMK4		
ENSG00000110092	11	69445855	69479242	90	18	37512	0.62215	0.26692	CCND1		
ENSG00000183117	8	2782875	4862494	17820	791	46936	0.62191	0.267	CSMD1		
ENSG00000257127	12	92805307	92834778	95	20	40646	0.62192	0.267	CLLU1		
ENSG00000143401	1	150180717	150218504	72	11	39673	0.62154	0.26712	ANP32E		
ENSG00000189430	19	55407508	55437508	214	40	40698	0.62131	0.2672	NCR1		
ENSG00000159899	9	35782151	35819729	80	12	36581	0.62115	0.26725	NPR2		
ENSG00000119782	2	24262571	24296551	108	14	47430	0.62113	0.26726	FKBP1B		
ENSG00000188162	11	17558920	17678697	333	54	45709	0.62112	0.26726	OTOG		
ENSG00000203722	6	150228014	150254257	75	13	36202	0.62104	0.26729	RAET1G		
ENSG00000135090	12	118577606	118820750	489	44	50289	0.621	0.2673	TAOK3		
ENSG00000119703	14	75520873	75555126	70	8	44762	0.62095	0.26732	ZC2HC1C		
ENSG00000116698	1	183431351	183577381	289	44	49451	0.62065	0.26742	SMG7		
ENSG00000146410	6	136542162	136581473	22	14	49495	0.62048	0.26747	MTFR2		

ENSG00000148660	10	75562259	75644343	114	16	41845	0.62029	0.26753	CAMK2G		
ENSG00000184697	16	3054713	3080072	61	17	52402	0.62	0.26763	CLDN6		
ENSG00000266076	17	63524220	63647151	345	53	35975	0.61985	0.26768	CTD-2535L24.2		
ENSG00000147679	8	117768742	117871702	264	43	31214	0.61948	0.2678	UTP23		
ENSG00000135333	6	93939738	94139265	557	81	45619	0.61915	0.26791	EPHA7		
ENSG00000119965	10	124680419	124723919	96	20	53359	0.61913	0.26792	C10orf88		
ENSG00000065054	16	2065357	2099027	86	20	41742	0.61907	0.26794	SLC9A3R2		
ENSG00000010017	6	13611730	13721796	205	31	53955	0.61902	0.26795	RANBP9		
ENSG00000169385	14	21413611	21434595	50	12	53024	0.61902	0.26795	RNASE2		
ENSG00000174684	11	66102843	66125163	43	10	37197	0.61874	0.26804	B3GNT1		
ENSG00000137098	9	35798042	35822269	45	11	32741	0.6187	0.26806	SPAG8		
ENSG00000156136	4	71848255	71906631	82	29	41216	0.61848	0.26813	DCK		
ENSG00000261210	16	19287061	19343467	212	31	38431	0.61826	0.2682	CLEC19A		
ENSG00000163320	3	88091094	88209035	292	12	30392	0.61763	0.26841	CGGBP1		
ENSG00000221869	8	48639471	48661648	15	10	46431	0.61709	0.26859	CEBPD		
ENSG00000214940	16	18401799	18451131	1	1	42718	0.61675	0.2687	NPIPA8		
ENSG00000060339	10	70470769	70562134	229	25	49060	0.6167	0.26872	CCAR1		
ENSG00000143643	1	231031989	231124621	374	30	48081	0.616	0.26895	TTC13		
ENSG00000179695	12	55835998	55856936	73	10	57013	0.616	0.26895	OR6C2		
ENSG00000148498	10	34388488	35114253	1858	115	39240	0.61597	0.26896	PARD3		
ENSG00000177558	19	35705703	35729632	131	21	45329	0.61585	0.269	FAM187B		
ENSG00000148339	9	130820480	130881524	169	8	32092	0.61577	0.26902	SLC25A25		
ENSG00000268788	4	76861883	76888526	79	15	47784	0.61567	0.26905	AC110615.1		
ENSG00000188641	1	97533299	98396605	2516	234	50888	0.6154	0.26915	DPYD		
ENSG00000126251	19	35851831	35873855	59	12	49517	0.61536	0.26916	GPR42		
ENSG00000176532	7	29593427	29616911	88	21	48272	0.61515	0.26923	PRR15		
ENSG00000189051	17	8284022	8311144	72	19	54681	0.61512	0.26924	RNF222		
ENSG00000248369	4	133346957	133378390	85	13	49924	0.61504	0.26926	RP11-62N21.1		
ENSG00000127993	7	92148087	92177319	60	9	52732	0.61507	0.26926	RBM48		
ENSG00000268614	19	7588481	7614945	97	23	50671	0.61503	0.26927	CTD-2207O23.10		
ENSG00000095539	10	102719275	102755628	66	10	34517	0.61472	0.26937	SEMA4G		
ENSG00000182372	8	1693944	1744738	204	17	54642	0.61439	0.26948	CLN8		
ENSG00000142185	21	45760046	45872964	327	40	47325	0.61437	0.26949	TRPM2		
ENSG00000164463	5	172473355	172576291	305	28	36683	0.61422	0.26953	CREBRF		
ENSG00000140750	16	24920706	25036987	234	26	45162	0.6141	0.26957	ARHGAP17		
ENSG00000111669	12	6966283	6990112	32	6	41097	0.61394	0.26963	TPI1		

ENSG00000136715	2	128688791	128795694	227	23	36185	0.61386	0.26965	SAP130		
ENSG00000268179	1	851264	876445	67	16	37667	0.61332	0.26983	AL645608.1		
ENSG00000140287	15	50524144	50568223	167	28	42263	0.61313	0.2699	HDC		
ENSG00000269049	16	14554842	14575054	29	12	49011	0.61306	0.26992	AC092291.2		
ENSG00000157227	14	23295766	23328236	110	30	50266	0.61299	0.26994	MMP14		
ENSG00000124225	20	56213448	56296592	270	63	39508	0.61299	0.26994	PMEPA1		
ENSG00000110931	12	121665497	121746111	260	46	47933	0.61281	0.27	CAMKK2		
ENSG00000164169	4	148548936	148615381	46	12	35470	0.6123	0.27017	PRMT10		
ENSG00000104957	19	13832574	13884110	149	20	50181	0.61203	0.27026	CCDC130		
ENSG00000242220	21	33938862	33969683	113	18	48898	0.61201	0.27027	TCP10L		
ENSG00000143971	2	67614451	67647677	108	11	55808	0.61149	0.27044	ETAA1		
ENSG00000107077	9	6710863	7185648	2452	201	42682	0.61149	0.27044	KDM4C		
ENSG00000107518	10	116843124	117718503	2130	80	46005	0.61111	0.27056	ATRNL1		
ENSG00000149346	20	10405951	10627477	745	65	46283	0.61099	0.2706	SLX4IP		
ENSG00000064933	2	190639107	190752355	279	34	41164	0.61097	0.27061	PMS1		
ENSG00000111203	12	2911788	2978957	157	19	28991	0.61077	0.27068	ITFG2		
ENSG00000159761	16	67690719	67712661	28	10	44884	0.61066	0.27071	C16orf86		
ENSG00000104442	8	66504694	66556442	201	11	54140	0.61053	0.27076	ARMC1		
ENSG00000141867	19	15337647	15453356	147	27	52537	0.61013	0.27089	BRD4		
ENSG00000124143	20	37220577	37289678	235	39	40518	0.61005	0.27091	ARHGAP40		
ENSG00000137200	6	37390995	37460603	122	26	42388	0.60988	0.27097	CMTR1		
ENSG00000087995	17	60491228	60537454	47	17	50257	0.60988	0.27097	METTL2A		
ENSG00000105429	19	42819761	42892921	116	10	46499	0.60981	0.27099	MEGF8		
ENSG00000127743	5	148740887	148793765	159	30	51438	0.60966	0.27104	IL17B		
ENSG00000183091	2	152331850	152601001	534	66	39538	0.6096	0.27106	NEB		
ENSG00000170265	7	148882577	148933339	170	24	39787	0.60958	0.27107	ZNF282		
ENSG00000167615	19	54950065	54983217	171	24	43558	0.60949	0.2711	LENG8		
ENSG00000146469	6	153061933	153090900	59	16	36954	0.60929	0.27116	VIP		
ENSG00000168787	6	29354416	29375448	132	9	39293	0.60892	0.27129	OR12D2		
ENSG00000139211	12	47459490	47483734	58	17	48279	0.60882	0.27132	AMIGO2		
ENSG00000147649	8	98646407	98750998	225	26	41360	0.60856	0.27141	MTDH		
ENSG00000114956	2	74143953	74196088	154	17	41960	0.60819	0.27153	DGUOK		
ENSG00000177380	19	49612646	49664283	194	30	48276	0.60795	0.27161	PPFIA3		
ENSG00000187627	2	87125076	87251104	28	12	25451	0.60787	0.27164	RGPD1		
ENSG00000112531	6	163825032	164009628	433	40	44154	0.60786	0.27164	QKI		
ENSG00000106829	9	82176688	82351658	399	50	46621	0.60784	0.27165	TLE4		

ENSG00000184110	16	28689879	28757051	14	9	39739	0.60779	0.27166	<i>EIF3C</i>		
ENSG00000116001	2	70426576	70485792	137	11	48548	0.60778	0.27167	<i>TIA1</i>		
ENSG00000171444	5	112347796	112834527	2121	115	40599	0.60772	0.27169	<i>MCC</i>		
ENSG00000137177	6	17749414	17997854	822	68	49403	0.60767	0.2717	<i>KIF13A</i>		
ENSG00000206344	6	31155537	31181745	507	38	47822	0.60744	0.27178	<i>HCG27</i>		
ENSG00000017373	17	36676251	36772183	218	40	42278	0.60744	0.27178	<i>SRCIN1</i>		
ENSG00000067066	2	231270657	231418805	553	66	44241	0.60733	0.27182	<i>SP100</i>		
ENSG00000091622	17	6344584	6469814	440	72	41189	0.60732	0.27182	<i>PITPNM3</i>		
ENSG00000101003	20	25378363	25443264	217	15	41525	0.6063	0.27216	<i>GINS1</i>		
ENSG00000074527	12	96041583	96194930	643	84	45773	0.60626	0.27217	<i>NTN4</i>		
ENSG00000101464	20	33138346	33274910	225	18	49074	0.60625	0.27217	<i>PIGU</i>		
ENSG00000171560	4	155494278	155521918	42	10	49548	0.60619	0.27219	<i>FGA</i>		
ENSG00000125900	20	1504897	1549489	156	23	43283	0.60614	0.27221	<i>SIRPD</i>		
ENSG00000163479	1	155968839	156000750	71	16	35686	0.60594	0.27228	<i>SSR2</i>		
ENSG00000214681	3	51897737	51919600	59	9	41203	0.60591	0.27229	<i>IQCF5</i>		
ENSG00000100557	14	57926019	57970585	116	15	39443	0.60575	0.27234	<i>C14orf105</i>		
ENSG00000027697	6	137508621	137550586	68	21	44635	0.60479	0.27266	<i>IFNGR1</i>		
ENSG00000186222	4	6707842	6729387	56	17	42586	0.60477	0.27267	<i>BLOC1S4</i>		
ENSG00000107882	10	104253744	104403292	386	25	46225	0.60466	0.2727	<i>SUFU</i>		
ENSG00000155833	9	105747593	105790770	187	20	43971	0.60459	0.27273	<i>CYLC2</i>		
ENSG00000132470	17	73707408	73763899	119	33	44537	0.60436	0.2728	<i>ITGB4</i>		
ENSG00000119915	10	103976085	103999346	41	9	48932	0.60419	0.27286	<i>ELOVL3</i>		
ENSG00000268750	19	58321087	58380309	211	29	41824	0.60416	0.27287	<i>CTD-2583A14.10</i>		
ENSG00000269343	19	58321099	58380018	211	29	41824	0.60416	0.27287	<i>ZNF587B</i>		
ENSG00000230178	5	180784269	180805263	1	1	42734	0.60407	0.2729	<i>OR4F3</i>		
ENSG00000082014	7	150925850	150984982	163	30	52068	0.60389	0.27296	<i>SMARCD3</i>		
ENSG00000124226	20	48542948	48580429	160	18	36207	0.60383	0.27298	<i>RNF114</i>		
ENSG00000007944	6	16119356	16158479	79	20	46272	0.60338	0.27313	<i>MYLIP</i>		
ENSG00000127325	12	70027140	70103256	355	36	46348	0.6032	0.27319	<i>BEST3</i>		
ENSG00000092140	14	31018329	31099269	202	33	46351	0.60316	0.2732	<i>G2E3</i>		
ENSG00000159214	1	44447031	44472200	46	13	34103	0.60311	0.27322	<i>CCDC24</i>		
ENSG00000271786	10	18921405	18954123	134	17	55503	0.60232	0.27348	<i>RP11-139J15.7</i>		
ENSG00000163702	3	9948758	9985314	105	21	32977	0.60206	0.27357	<i>IL17RC</i>		
ENSG00000121742	13	20786110	20816534	111	21	49911	0.60194	0.27361	<i>GJB6</i>		
ENSG00000254656	14	101336992	101361184	73	21	41958	0.60185	0.27364	<i>RTL1</i>		
ENSG00000163171	2	37859032	37975611	465	63	36984	0.6018	0.27365	<i>CDC42EP3</i>		

ENSG00000164096	4	120208207	120235600	102	16	56100	0.60173	0.27368	<i>C4orf3</i>		
ENSG00000165424	10	81132081	81215383	364	67	46253	0.60154	0.27374	<i>ZCCHC24</i>		
ENSG00000162032	16	1816713	1853701	227	19	33768	0.60141	0.27378	<i>SPSB3</i>		
ENSG00000004534	3	49967440	50147478	352	24	38150	0.60134	0.27381	<i>RBM6</i>		
ENSG00000160007	19	47411933	47518334	170	28	53067	0.60112	0.27388	<i>ARHGAP35</i>		
ENSG00000116478	1	32747687	32809236	44	27	52119	0.60089	0.27396	<i>HDAC1</i>		
ENSG00000179796	3	26654297	26762267	298	44	39255	0.60083	0.27398	<i>LRRC3B</i>		
ENSG00000177628	1	155194243	155224490	65	6	26727	0.60046	0.2741	<i>GBA</i>		
ENSG00000196365	19	5681845	5730583	162	28	49977	0.60039	0.27412	<i>LONP1</i>		
ENSG00000087245	16	55413612	55550603	703	84	45702	0.60031	0.27415	<i>MMP2</i>		
ENSG00000168214	4	26155077	26446541	649	87	47578	0.60004	0.27424	<i>RBPJ</i>		
ENSG00000080503	9	2005342	2203624	778	141	41439	0.59988	0.27429	<i>SMARCA2</i>		
ENSG00000270394	4	117210016	117231520	59	11	33151	0.59976	0.27433	<i>MTRNR2L13</i>		
ENSG00000180574	12	10648201	10685734	155	13	53668	0.59953	0.27441	<i>EIF2S3L</i>		
ENSG00000248385	19	54563149	54594634	137	19	53207	0.59954	0.27441	<i>TARM1</i>		
ENSG00000198398	3	190136444	190177665	159	29	48271	0.5995	0.27442	<i>TMEM207</i>		
ENSG00000142534	19	49989622	50012946	67	9	31294	0.59937	0.27446	<i>RPS11</i>		
ENSG00000158882	1	161185793	161210408	82	20	50148	0.59889	0.27462	<i>TOMM40L</i>		
ENSG00000060558	19	3126191	3173767	275	50	47685	0.5989	0.27462	<i>GNA15</i>		
ENSG00000197665	17	19049040	19072424	2	1	43316	0.59877	0.27466	<i>AC007952.6</i>		
ENSG00000119314	9	114970715	115105947	450	21	41170	0.5987	0.27469	<i>PTBP3</i>		
ENSG00000141756	17	39958932	39989465	90	12	52049	0.59861	0.27472	<i>FKBP10</i>		
ENSG00000151694	2	9618615	9705921	208	21	42680	0.59852	0.27475	<i>ADAM17</i>		
ENSG00000241370	6	30302908	30324661	76	21	38283	0.5985	0.27475	<i>RPP21</i>		
ENSG00000254585	15	23878691	23901175	76	20	37352	0.59842	0.27478	<i>MAGEL2</i>		
ENSG00000108849	17	42008172	42029836	60	13	39323	0.59836	0.2748	<i>PPY</i>		
ENSG00000012660	6	53122196	53223947	325	19	39170	0.598	0.27492	<i>ELOVL5</i>		
ENSG00000110717	11	67788084	67814111	70	12	51627	0.59796	0.27493	<i>NDUFS8</i>		
ENSG000000033178	4	68468370	68576897	405	23	53436	0.59773	0.27501	<i>UBA6</i>		
ENSG00000145965	6	3972909	3994372	83	14	47570	0.59764	0.27504	<i>C6ORF50</i>		
ENSG00000184828	18	45543044	45947123	1569	236	47396	0.59754	0.27507	<i>ZBTB7C</i>		
ENSG00000140093	14	94739650	94769608	80	16	36856	0.5974	0.27512	<i>SERPINA10</i>		
ENSG00000182319	8	8165258	8254008	369	53	42833	0.59722	0.27518	<i>SGK223</i>		
ENSG00000204524	19	57741973	57776503	141	16	50807	0.59706	0.27523	<i>ZNF805</i>		
ENSG00000215475	13	46344405	46435871	320	51	43325	0.59685	0.2753	<i>SIAH3</i>		
ENSG00000236032	3	97858170	97879249	102	6	51358	0.59679	0.27533	<i>OR5H14</i>		

ENSG00000064490	19	19293008	19322678	77	19	48584	0.59657	0.2754	RFXANK		
ENSG00000116580	1	155709508	155839191	210	23	42482	0.59653	0.27541	GON4L		
ENSG00000171798	10	134963951	135049916	436	49	42826	0.5965	0.27542	KNDC1		
ENSG00000213186	3	160140233	160213561	169	26	51244	0.59645	0.27544	TRIM59		
ENSG00000204352	9	96070481	96118696	205	31	39236	0.59645	0.27544	C9orf129		
ENSG00000109680	4	26568059	26766973	260	21	42673	0.59639	0.27546	TBC1D19		
ENSG00000168496	11	61550109	61574716	29	5	30431	0.59606	0.27557	FEN1		
ENSG00000214866	2	3741453	3846122	439	65	48463	0.59602	0.27558	DCDC2C		
ENSG00000149651	20	44340990	44364469	119	7	20253	0.59603	0.27558	SPINT4		
ENSG00000269360	15	93739295	93761277	108	17	53743	0.59563	0.27571	AC112693.2		
ENSG00000174796	4	76429156	76485683	170	24	47186	0.59557	0.27573	THAP6		
ENSG00000134363	5	52766239	52792964	97	18	47532	0.59553	0.27575	FST		
ENSG00000198734	1	169473404	169565826	397	41	47934	0.59548	0.27576	F5		
ENSG00000174325	2	189588882	189664831	287	22	52829	0.59529	0.27582	DIRC1		
ENSG00000156269	4	80136848	80257204	263	27	42687	0.59506	0.2759	NAA11		
ENSG00000092098	14	24605892	24639870	57	21	47163	0.59428	0.27616	RNF31		
ENSG00000074181	19	15260444	15321792	190	18	40436	0.5943	0.27616	NOTCH3		
ENSG00000198835	1	228327553	228357527	42	13	45470	0.59421	0.27619	GJC2		
ENSG00000143847	1	202985626	203057868	229	40	51535	0.59389	0.27629	PPFIA4		
ENSG00000138640	4	89637106	90042549	1462	99	44473	0.59388	0.2763	FAM13A		
ENSG00000177398	21	43473068	43573563	592	94	47534	0.59382	0.27632	UMODL1		
ENSG00000161509	17	72828162	72867627	92	8	42005	0.59371	0.27635	GRIN2C		
ENSG00000141905	19	3349561	3479215	469	90	40944	0.5936	0.27639	NFIC		
ENSG00000136698	2	131340339	131367123	1	1	43671	0.59327	0.2765	CFC1		
ENSG00000142856	1	63896441	64069392	487	30	46308	0.5931	0.27656	ITGB3BP		
ENSG00000258839	16	89968527	89997385	117	19	32705	0.59308	0.27656	MC1R		
ENSG00000110318	11	101775746	101881789	288	27	39857	0.593	0.27659	KIAA1377		
ENSG00000152430	2	198581603	198661486	129	16	55096	0.59297	0.2766	BOLL		
ENSG00000186350	9	137198944	137342431	486	59	45827	0.59291	0.27662	RXRA		
ENSG00000204183	20	34010827	34033248	70	10	29693	0.59278	0.27666	GDF5OS		
ENSG00000186684	2	127931696	127987654	191	26	50618	0.59272	0.27668	CYP27C1		
ENSG00000130164	19	11190038	11254492	287	37	44086	0.59253	0.27675	LDLR		
ENSG00000095917	16	1296060	1318532	115	19	34192	0.59215	0.27687	TPSD1		
ENSG00000088035	1	63823261	63914233	240	28	50071	0.59214	0.27688	ALG6		
ENSG00000177494	3	111301747	111324290	54	14	46436	0.59208	0.2769	ZBED2		
ENSG00000176732	2	24328241	24356347	109	9	54347	0.59193	0.27695	PFN4		

ENSG00000164438	5	170726288	170749138	53	14	50087	0.59171	0.27702	TLX3		
ENSG00000167733	19	5670615	5698533	79	17	51338	0.59172	0.27702	HSD11B1L		
ENSG00000184939	16	68553993	68619975	279	13	52640	0.59161	0.27705	ZFP90		
ENSG00000130173	19	11338178	11362619	49	9	30804	0.59155	0.27707	C19orf80		
ENSG00000115641	2	105964169	106064970	351	70	47901	0.59154	0.27708	FHL2		
ENSG00000181234	12	128741948	129202460	1506	211	43029	0.59149	0.2771	TMEM132C		
ENSG00000137504	11	85360752	85403951	99	19	47023	0.59143	0.27711	CREBZF		
ENSG00000106245	7	98996264	99027239	46	14	41765	0.59118	0.2772	BUD31		
ENSG00000107859	10	103979943	104011231	58	10	50979	0.59117	0.2772	PITX3		
ENSG00000100299	22	51051182	51076607	119	29	42404	0.59092	0.27729	ARSA		
ENSG00000108424	17	45716842	45772871	107	16	49247	0.59073	0.27735	KPNB1		
ENSG00000141194	17	56222494	56243517	61	11	41731	0.59052	0.27742	OR4D1		
ENSG00000102547	13	49872786	50028262	459	58	44624	0.59029	0.2775	CAB39L		
ENSG00000213780	6	30865961	30891883	103	15	40797	0.59026	0.27751	GTF2H4		
ENSG00000181449	3	181419714	181442221	20	7	43063	0.59019	0.27753	SOX2		
ENSG00000182898	1	152046620	152071540	23	12	44541	0.59011	0.27756	TCHHL1		
ENSG00000167977	16	2722476	2769031	92	22	43710	0.58998	0.2776	KCTD5		
ENSG00000187747	11	5592107	5613114	160	16	36887	0.58944	0.27778	OR52B6		
ENSG00000229453	3	48338336	48379831	111	5	25904	0.58935	0.27781	SPINK8		
ENSG00000115128	2	24280454	24309313	104	12	49853	0.58933	0.27782	SF3B14		
ENSG00000100263	22	29645841	29674198	63	22	50489	0.58929	0.27783	RHBDD3		
ENSG00000144354	2	174209548	174243725	141	24	47733	0.58908	0.27791	CDCA7		
ENSG00000239779	2	74675456	74698018	7	5	42735	0.58843	0.27812	WBP1		
ENSG00000135473	12	56700007	56737837	55	9	44358	0.58842	0.27812	PAN2		
ENSG00000269846	20	35714188	35735581	32	12	51504	0.58826	0.27818	RBL1		
ENSG00000103510	16	31117075	31152714	56	8	23906	0.58816	0.27821	KAT8		
ENSG00000101446	20	44131101	44154264	57	12	41033	0.58804	0.27825	SPINT3		
ENSG00000171711	8	7742151	7764233	7	2	42939	0.588	0.27827	DEFB4A		
ENSG00000166226	12	69969114	70005350	113	12	46540	0.58769	0.27837	CCT2		
ENSG00000163053	2	230889698	230943715	199	29	49253	0.58764	0.27839	SLC16A14		
ENSG00000184224	11	67360351	67384177	44	8	46305	0.58763	0.27839	C11orf72		
ENSG00000182533	3	8765486	8893492	605	80	37607	0.5876	0.2784	CAV3		
ENSG00000181619	14	59885740	59942060	243	24	42968	0.58759	0.2784	GPR135		
ENSG00000169495	8	38821683	38856181	92	9	53916	0.58697	0.27861	HTRA4		
ENSG00000256566	20	2437858	2499553	131	27	45263	0.58698	0.27861	RP4-734P14.4		
ENSG00000161647	17	41868167	41920538	99	13	46005	0.58676	0.27868	MPP3		

ENSG00000105967	7	115565202	115809950	681	61	46375	0.58662	0.27873	TFEC		
ENSG00000064652	5	122169134	122375049	738	38	35432	0.58645	0.27879	SNX24		
ENSG00000095383	9	100951311	101027915	354	40	46256	0.58633	0.27883	TBC1D2		
ENSG00000176912	18	631320	668340	148	25	40332	0.58628	0.27884	C18orf56		
ENSG00000253304	1	29435940	29460447	69	11	34339	0.58627	0.27885	TMEM200B		
ENSG00000106346	7	6134515	6211195	237	29	42602	0.58618	0.27888	USP42		
ENSG00000131848	19	56722681	56889752	603	113	40925	0.58545	0.27912	ZSCAN5A		
ENSG00000120694	13	31700762	31746525	101	14	43143	0.58495	0.27929	HSPH1		
ENSG00000105726	19	19746007	19784502	114	22	54437	0.58492	0.2793	ATP13A1		
ENSG00000092010	14	24595367	24618176	44	11	35101	0.58473	0.27936	PSME1		
ENSG00000170909	19	54587933	54616000	146	21	48794	0.58454	0.27943	OSCAR		
ENSG00000124074	16	67686848	67711168	28	11	43270	0.58415	0.27956	ENKD1		
ENSG00000168014	11	73713763	73892255	375	35	42276	0.58401	0.27961	C2CD3		
ENSG00000176834	12	118491398	118583831	330	67	46635	0.5839	0.27964	VSIG10		
ENSG00000159023	1	29203603	29456553	584	47	33846	0.58386	0.27966	EPB41		
ENSG00000261459	16	30527244	30556173	32	14	38620	0.58373	0.2797	ZNF747		
ENSG00000008323	12	6409602	6447672	83	22	40177	0.58356	0.27976	PLEKHG6		
ENSG00000164088	3	52269841	52294613	38	8	45979	0.58338	0.27982	PPM1M		
ENSG00000174226	8	101575116	101685643	505	58	43002	0.58339	0.27982	SNX31		
ENSG00000186493	5	2742245	2765508	53	15	40838	0.58331	0.27984	C5orf38		
ENSG00000164220	5	75901307	75929259	149	24	48465	0.58327	0.27986	F2RL2		
ENSG00000182472	19	39210827	39270544	278	27	49392	0.58301	0.27994	CAPN12		
ENSG00000143799	1	226538392	226605780	226	17	43026	0.58286	0.27999	PARP1		
ENSG00000268602	11	107572998	107605135	85	16	43090	0.58286	0.28	AP002353.1		
ENSG00000105364	19	10352577	10380721	62	18	53981	0.58277	0.28003	MRPL4		
ENSG00000165972	12	96250826	96346752	405	50	46187	0.58268	0.28006	CCDC38		
ENSG00000101247	20	13755596	13809067	176	31	47504	0.5826	0.28008	NDUFAF5		
ENSG00000140931	16	66627777	66657795	70	13	40348	0.58201	0.28028	CMTM3		
ENSG00000241360	22	38044734	38072941	108	17	47926	0.58165	0.2804	PDXP		
ENSG00000132631	20	18784370	18805033	83	23	52140	0.58157	0.28043	SCP2D1		
ENSG00000179059	4	188906925	188936204	143	21	26442	0.58121	0.28055	ZFP42		
ENSG00000173610	4	70444135	70528965	415	38	52517	0.58112	0.28058	UGT2A1		
ENSG00000270386	4	70444912	70528967	415	38	52517	0.58112	0.28058	UGT2A1		
ENSG00000160949	8	145644165	145679827	94	11	49657	0.58097	0.28063	TONSL		
ENSG00000088205	2	118562226	118599955	130	20	51812	0.58089	0.28066	DDX18		
ENSG00000137486	11	74965226	75072873	251	58	45382	0.58087	0.28067	ARRB1		

ENSG00000244405	3	185754097	185838107	137	23	45005	0.58063	0.28074	ETV5		
ENSG00000141161	17	33464836	33526364	168	29	46473	0.58044	0.28081	UNC45B		
ENSG00000169413	14	21239210	21260626	149	25	36404	0.5801	0.28092	RNASE6		
ENSG00000097007	9	133579333	133773062	601	66	34204	0.57984	0.28101	ABL1		
ENSG00000108298	17	37346536	37370980	53	14	49150	0.5797	0.28106	RPL19		
ENSG00000174100	17	36442989	36489101	87	16	34564	0.57963	0.28108	MRPL45		
ENSG00000138161	10	124581665	124649146	132	26	54967	0.57957	0.2811	CUZD1		
ENSG00000103507	16	31107428	31134110	42	5	19078	0.57934	0.28118	BCKDK		
ENSG00000089159	12	120638250	120713574	120	21	40408	0.57929	0.2812	PXN		
ENSG00000112053	6	35901291	36002645	287	37	45679	0.57922	0.28122	SLC26A8		
ENSG00000168958	2	228179867	228232550	224	24	39109	0.57913	0.28125	MFF		
ENSG00000113739	5	172731716	172766506	62	25	40762	0.57896	0.28131	STC2		
ENSG00000177000	1	11835780	11876977	253	19	52420	0.57857	0.28144	MTHFR		
ENSG00000100056	22	19107792	19142197	114	25	48869	0.57852	0.28146	DGCR14		
ENSG00000269624	1	63063437	63085249	23	6	41275	0.57807	0.28161	AL138847.1		
ENSG00000107819	10	102780991	102810998	61	24	43837	0.57797	0.28164	SFXN3		
ENSG00000167283	11	118261869	118312211	98	17	40506	0.57787	0.28168	ATP5L		
ENSG00000156886	16	31394633	31447826	95	23	51840	0.57781	0.2817	ITGAD		
ENSG00000196159	4	126227554	126424087	591	71	49367	0.57776	0.28171	FAT4		
ENSG00000165660	10	126480354	126535239	117	20	45997	0.57718	0.28191	FAM175B		
ENSG00000155090	8	103651007	103678130	99	20	47134	0.5771	0.28194	KLF10		
ENSG00000078142	18	39525171	39677794	291	27	45732	0.57691	0.282	PIK3C3		
ENSG00000197084	1	152767311	152789107	59	13	51422	0.5765	0.28214	LCE1C		
ENSG00000215749	15	82920438	82949159	2	1	43294	0.5762	0.28224	GOLGA6L18		
ENSG00000134313	2	8855408	8987760	252	37	46353	0.57617	0.28225	KIDINS220		
ENSG00000179751	19	39683471	39704906	52	5	54675	0.57611	0.28227	SYCN		
ENSG00000171815	5	140420979	140443512	37	13	48293	0.57597	0.28232	PCDHB1		
ENSG00000143436	1	151722119	151746040	69	11	51252	0.57595	0.28233	MRPL9		
ENSG00000119640	14	75509924	75546186	78	10	45425	0.57584	0.28236	ACYP1		
ENSG00000256097	3	52087076	52107567	23	7	31009	0.57578	0.28238	LINC00696		
ENSG00000268146	1	244217632	244241211	55	17	52336	0.57574	0.28239	AL590483.1		
ENSG00000119616	14	75169847	75213394	64	11	48391	0.5757	0.28241	FCF1		
ENSG00000055950	10	102719215	102757272	72	11	33940	0.57525	0.28256	MRPL43		
ENSG00000110925	12	51444990	51487447	118	17	34632	0.57522	0.28257	CSRNP2		
ENSG00000151468	10	12928627	13151652	1071	140	44290	0.57504	0.28263	CCDC3		
ENSG00000122026	13	27815446	27840828	70	16	44634	0.57479	0.28272	RPL21		

ENSG00000205730	16	19115254	19142946	44	7	31233	0.57443	0.28284	ITPRIPL2		
ENSG00000167614	19	54916393	54958080	200	36	43638	0.57439	0.28285	TTYH1		
ENSG00000145882	5	148727570	148759216	68	12	49188	0.57413	0.28294	PCYOX1L		
ENSG00000139547	12	57335219	57363158	77	9	34106	0.57394	0.28301	RDH16		
ENSG00000043591	10	115793806	115816667	74	8	53832	0.57383	0.28304	ADRB1		
ENSG00000108599	17	19797615	19891656	175	16	53073	0.57375	0.28307	AKAP10		
ENSG00000143793	1	228278427	228303112	37	14	50715	0.57353	0.28314	C1orf35		
ENSG00000129646	17	74260130	74313761	171	20	34042	0.57332	0.28321	QRICH2		
ENSG00000071282	3	8533393	8619805	331	36	39450	0.5733	0.28322	LMCD1		
ENSG00000088280	1	23745056	23821061	207	22	42900	0.57304	0.28331	ASAP3		
ENSG00000174137	4	1609642	1696029	320	33	46395	0.57292	0.28335	FAM53A		
ENSG00000167671	19	4434996	4467819	118	20	51674	0.57287	0.28337	UBXN6		
ENSG00000139344	12	96327071	96372370	190	20	49162	0.57276	0.2834	AMDHD1		
ENSG00000072062	19	14192500	14238896	68	15	49712	0.57269	0.28343	PRKACA		
ENSG00000104687	8	30525583	30595443	201	28	35948	0.57212	0.28362	GSR		
ENSG00000170276	11	111772966	111799574	59	11	36989	0.57205	0.28364	HSPB2		
ENSG00000127585	16	732500	765829	77	15	29920	0.57178	0.28373	FBXL16		
ENSG00000181023	11	5747681	5768768	113	15	47690	0.57174	0.28375	OR56B1		
ENSG00000196099	11	123666043	123687095	82	24	45576	0.57161	0.28379	OR6M1		
ENSG00000155506	5	154082462	154207167	262	39	42726	0.57143	0.28386	LARP1		
ENSG00000110031	11	58284344	58355693	140	20	50877	0.57141	0.28386	LPXN		
ENSG00000184261	2	47733720	47808078	207	53	44385	0.57116	0.28395	KCNK12		
ENSG00000138795	4	108958701	109100112	303	32	37843	0.57113	0.28396	LEF1		
ENSG00000163106	4	95209686	95274027	171	16	51620	0.57103	0.28399	HPGDS		
ENSG00000148541	10	60995890	61132939	348	47	45025	0.57095	0.28402	FAM13C		
ENSG00000110852	12	9995583	10032735	162	29	45164	0.57087	0.28404	CLEC2B		
ENSG00000143190	1	167180066	167406582	470	57	45275	0.5708	0.28407	POU2F1		
ENSG00000171864	20	4692556	4719106	138	28	42278	0.57044	0.28419	PRND		
ENSG00000109991	11	57095848	57148073	138	21	42077	0.57039	0.28421	P2RX3		
ENSG00000091664	11	22349643	22411049	191	42	48825	0.57034	0.28422	SLC17A6		
ENSG00000186469	14	52282913	52456060	659	99	39265	0.57028	0.28424	GNG2		
ENSG00000135740	16	67261586	67316093	60	23	48451	0.57025	0.28425	SLC9A5		
ENSG00000198836	3	193300933	193425612	387	26	54353	0.57021	0.28427	OPA1		
ENSG00000132801	20	44476256	44517761	153	17	45856	0.57002	0.28433	ZSWIM3		
ENSG00000187944	2	197659726	197685000	49	12	44076	0.56966	0.28445	C2orf66		
ENSG00000163060	2	95527178	95552574	53	10	43199	0.5696	0.28447	TEKT4		

ENSG00000105854	7	95024175	95074510	181	23	49543	0.56953	0.2845	PON2		
ENSG00000070444	17	2277354	2314412	117	19	37393	0.56946	0.28452	MNT		
ENSG00000115216	2	27640657	27675126	57	6	34065	0.56942	0.28453	NRBP1		
ENSG00000137075	9	36326393	36497545	309	43	51202	0.56941	0.28454	RNF38		
ENSG00000186090	3	183739332	183767157	119	22	44457	0.56919	0.28462	HTR3D		
ENSG00000203805	10	122206466	122359367	614	95	45239	0.56881	0.28474	PPAPDC1A		
ENSG00000101452	20	37580942	37678366	199	16	55482	0.56876	0.28476	DHX35		
ENSG00000168040	11	70039269	70063496	81	22	51168	0.5687	0.28478	FADD		
ENSG00000147316	8	6254113	6511144	1431	141	41177	0.56834	0.2849	MCPH1		
ENSG00000143774	1	228317663	228346685	36	11	47979	0.56827	0.28492	GUK1		
ENSG00000180008	14	55483948	55526206	91	13	54321	0.56822	0.28494	SOCS4		
ENSG00000259803	16	89252406	89278072	109	16	46353	0.56801	0.28502	SLC22A31		
ENSG00000183439	4	165865598	165908820	135	15	43145	0.56796	0.28503	TRIM61		
ENSG00000106538	7	150025408	150048763	80	11	49107	0.56733	0.28524	RARRES2		
ENSG00000176845	17	81027567	81062864	138	40	46704	0.56728	0.28526	METRNL		
ENSG00000187672	3	55532336	56512391	3287	230	47521	0.5671	0.28532	ERC2		
ENSG00000143178	1	168240278	168293664	141	29	40213	0.56706	0.28534	TBX19		
ENSG00000174586	19	58855723	58884214	75	12	38940	0.56702	0.28535	ZNF497		
ENSG00000167139	15	74155949	74191555	101	20	39113	0.56697	0.28537	TBC1D21		
ENSG00000121774	1	32469430	32536451	56	25	45710	0.56667	0.28547	KHDRBS1		
ENSG00000165757	10	30291729	30414423	317	58	41244	0.5665	0.28553	KIAA1462		
ENSG00000159256	21	37682487	37768446	314	22	46974	0.56638	0.28557	MORC3		
ENSG00000166548	16	66531906	66596447	128	10	23807	0.5663	0.28559	TK2		
ENSG00000205328	12	55784214	55805289	70	7	34343	0.56619	0.28563	OR6C65		
ENSG00000158050	2	96798905	96821179	30	10	47117	0.56601	0.28569	DUSP2		
ENSG00000205281	15	82625130	82651706	1	1	43440	0.56599	0.2857	GOLGA6L10		
ENSG00000229086	21	34527776	34552541	99	23	53745	0.56597	0.28571	C21orf54		
ENSG00000119866	2	60668302	60790702	213	48	42495	0.56581	0.28576	BCL11A		
ENSG00000173926	5	126193406	126376500	520	24	28785	0.56557	0.28584	Mar-03		
ENSG00000059588	1	234517059	234624849	511	66	44237	0.56547	0.28588	TARBP1		
ENSG00000163125	1	150325567	150459042	462	25	40541	0.56535	0.28592	RPRD2		
ENSG00000130429	7	98961872	99002424	50	11	48226	0.56523	0.28596	ARPC1B		
ENSG00000268163	19	57939338	57998904	236	19	50575	0.56523	0.28596	AC004076.9		
ENSG00000072422	10	62619196	62771198	442	58	45371	0.56505	0.28602	RHOBTB1		
ENSG00000273079	12	13683165	14143053	1601	170	47124	0.56506	0.28602	GRIN2B		
ENSG00000267849	6	44390472	44410720	42	15	36003	0.56497	0.28605	AL133262.1		

ENSG00000269650	20	34746461	34768180	38	8	32534	0.5646	0.28617	AL121895.1		
ENSG00000188582	3	142658006	142692178	119	24	35963	0.56447	0.28622	PAQR9		
ENSG00000076201	3	47412501	47464931	65	11	43698	0.56417	0.28632	PTPN23		
ENSG00000113749	5	175075033	175123245	87	20	38484	0.56418	0.28632	HRH2		
ENSG00000183036	21	41229243	41311322	369	78	51364	0.56391	0.28641	PCP4		
ENSG00000140104	14	105442112	105486819	174	16	36754	0.56375	0.28646	C14orf79		
ENSG00000124091	20	55056548	55110981	137	17	34917	0.56352	0.28654	GCNT7		
ENSG00000088832	20	1339622	1383806	154	25	47242	0.56345	0.28657	FKBP1A		
ENSG00000157450	15	59147374	59399618	601	53	43057	0.56334	0.2866	RNF111		
ENSG00000082258	2	135665805	135726912	107	13	33616	0.5632	0.28665	CCNT2		
ENSG00000113448	5	58254865	59827947	4424	284	44481	0.56309	0.28669	PDE4D		
ENSG00000173207	1	154937129	154961725	30	7	38805	0.56306	0.2867	CKS1B		
ENSG00000171227	2	120177477	120206096	112	20	47940	0.56306	0.2867	TMEM37		
ENSG00000145220	4	4259428	4301896	224	33	38699	0.56304	0.2867	LYAR		
ENSG00000068781	2	48747064	49013654	1154	117	47587	0.56296	0.28673	STON1-GTF2A1L		
ENSG00000204851	19	46980163	47009755	155	26	48780	0.56287	0.28676	PNMAL2		
ENSG00000122852	10	81360695	81385196	113	19	46017	0.56213	0.28701	SFTPA1		
ENSG00000119411	9	116101821	116143513	265	38	39655	0.56211	0.28702	BSPRY		
ENSG00000117154	1	18424240	18714977	1103	172	47789	0.56196	0.28707	IGSF21		
ENSG00000118257	2	206536714	206672857	328	81	45186	0.56188	0.2871	NRP2		
ENSG00000171469	19	9705356	9742075	89	13	36098	0.56179	0.28713	ZNF561		
ENSG00000161021	5	179149851	179233512	247	31	48664	0.56151	0.28722	MAML1		
ENSG00000114331	3	194985465	195173807	618	27	24191	0.56077	0.28748	ACAP2		
ENSG00000157873	1	2477078	2506821	89	12	45182	0.56064	0.28752	TNFRSF14		
ENSG00000149575	11	118022666	118057388	98	17	40481	0.56034	0.28762	SCN2B		
ENSG00000119402	9	123504256	123565690	103	14	52408	0.56017	0.28768	FBXW2		
ENSG00000122958	10	70873268	70942617	195	19	31874	0.55989	0.28778	VPS26A		
ENSG00000170802	2	48531776	48616433	287	27	49672	0.55983	0.2878	FOXN2		
ENSG00000168619	8	39432008	39597583	342	36	43434	0.55974	0.28783	ADAM18		
ENSG00000228273	7	100537257	100560424	76	16	41708	0.55968	0.28785	MUC3A		
ENSG00000125459	1	155569979	155728153	188	30	41192	0.55939	0.28795	MSTO1		
ENSG00000106105	7	30624297	30683649	165	24	38731	0.55931	0.28797	GARS		
ENSG00000147596	8	70953886	70993928	145	23	40577	0.55934	0.28797	PRDM14		
ENSG00000174748	3	23948036	23975183	81	14	49367	0.55924	0.288	RPL15		
ENSG00000112212	6	41000293	41022076	65	8	53932	0.55873	0.28817	TSPO2		
ENSG00000109685	4	1863151	1993934	124	50	49382	0.55862	0.28821	WHSC1		

ENSG00000267710	19	56774138	56831819	177	30	37314	0.55851	0.28825	AC006116.20		
ENSG00000144893	3	150793484	151164860	1160	94	42053	0.55832	0.28831	MED12L		
ENSG00000147642	8	110576207	110714020	358	36	45169	0.5582	0.28835	SYBU		
ENSG00000158528	7	94526514	94935727	803	78	44612	0.55814	0.28837	PPP1R9A		
ENSG00000186300	19	2831433	2870482	168	19	43056	0.55794	0.28844	ZNF555		
ENSG00000180090	17	3184929	3205876	107	9	19836	0.5579	0.28846	OR3A1		
ENSG00000167702	8	145681426	145709585	54	13	42515	0.55787	0.28847	KIFC2		
ENSG00000132915	5	149227519	149334356	302	57	45461	0.55779	0.28849	PDE6A		
ENSG00000134802	11	57164427	57205053	84	21	51677	0.55781	0.28849	SLC43A3		
ENSG00000257355	19	12118703	12173782	113	13	32066	0.5575	0.28859	CTD-2006C1.10		
ENSG00000101138	20	54957427	54989518	89	27	37682	0.55744	0.28861	CSTF1		
ENSG00000172650	10	75424033	75467639	35	8	35147	0.55742	0.28862	AGAP5		
ENSG00000243710	1	43627820	43730029	407	40	35751	0.55738	0.28863	WDR65		
ENSG00000239305	2	86820516	86860989	128	20	40795	0.55723	0.28868	RNF103		
ENSG00000053254	14	89581215	90095493	1532	228	45511	0.55711	0.28873	FOXN3		
ENSG00000244754	13	32996554	33122970	218	27	33475	0.55676	0.28884	N4BP2L2		
ENSG00000107938	10	127398084	127462712	82	17	45364	0.55656	0.28891	EDRF1		
ENSG00000047249	8	54618117	54766118	175	15	29458	0.55654	0.28892	ATP6V1H		
ENSG00000174370	11	128759460	128785930	92	25	48619	0.55646	0.28895	C11orf45		
ENSG00000167705	17	1539444	1563371	61	14	46359	0.55596	0.28912	RILP		
ENSG00000182481	17	66021635	66052958	100	10	31614	0.55596	0.28912	KPNA2		
ENSG00000141385	18	12318943	12387313	183	19	38969	0.55588	0.28915	AFG3L2		
ENSG00000156150	1	110592616	110623322	53	6	48878	0.55585	0.28916	ALX3		
ENSG00000173786	17	40108759	40139749	56	14	45172	0.55511	0.28941	CNP		
ENSG00000256053	14	104019299	104083860	195	18	49020	0.55448	0.28962	APOPT1		
ENSG00000132693	1	159672079	159694379	65	14	42755	0.55422	0.28971	CRP		
ENSG00000134030	18	46055417	46399588	1197	148	43149	0.55408	0.28976	CTIF		
ENSG00000271303	20	617259	644014	84	27	41637	0.55389	0.28983	SRXN1		
ENSG00000229729	3	88098424	88198123	256	11	30067	0.55374	0.28988	RP11-159G9.5		
ENSG00000255423	3	73100810	73122488	75	10	46279	0.55368	0.2899	EBLN2		
ENSG00000113108	5	139927853	139983337	96	15	52047	0.55365	0.28991	APBB3		
ENSG00000085999	1	46703360	46754145	51	15	33747	0.55333	0.29002	RAD54L		
ENSG00000139780	13	103328094	103356854	141	28	49461	0.55318	0.29007	METTL21C		
ENSG00000215644	17	79752008	79781889	56	11	52155	0.55279	0.2902	GCGR		
ENSG00000132613	16	70685107	70729969	153	35	41974	0.55271	0.29023	MTSS1L		
ENSG00000132434	7	55423141	55511435	268	21	52878	0.55259	0.29027	LANCL2		

ENSG00000167011	7	100803774	100833557	97	18	42647	0.55255	0.29029	NAT16		
ENSG00000101004	20	25423341	25576153	423	35	37800	0.55253	0.29029	NINL		
ENSG00000256061	15	55692723	55810432	443	43	40266	0.55247	0.29031	DYX1C1		
ENSG00000148308	9	135896076	135943890	127	22	47329	0.55236	0.29035	GTF3C5		
ENSG00000144674	3	37274668	37418242	315	23	41427	0.5522	0.2904	GOLGA4		
ENSG00000100351	22	40287086	40379725	118	30	34381	0.55216	0.29042	GRAP2		
ENSG00000186980	21	31710717	31730924	100	15	39185	0.55207	0.29045	KRTAP23-1		
ENSG00000109971	11	122918197	122943938	123	16	33991	0.55202	0.29047	HSPA8		
ENSG00000112290	6	110411022	110511207	300	21	34686	0.55184	0.29053	WASF1		
ENSG00000101460	20	33124658	33158149	56	11	46320	0.55168	0.29058	MAP1LC3A		
ENSG00000205300	20	4040799	4065812	210	26	34815	0.55131	0.29071	RP11-352D3.2		
ENSG00000100614	14	60702470	60775805	159	15	32324	0.55115	0.29076	PPM1A		
ENSG00000164091	3	52278437	52332036	95	14	44127	0.55113	0.29077	WDR82		
ENSG00000145244	4	47586015	47850123	757	60	49566	0.55114	0.29077	CORIN		
ENSG00000119950	10	111957363	112057123	286	27	40675	0.55107	0.29079	MXI1		
ENSG00000136383	15	85349911	85426713	231	40	48166	0.55097	0.29083	ALPK3		
ENSG00000138380	2	203766937	203861786	209	14	47468	0.55088	0.29086	CARF		
ENSG00000111670	12	102129275	102234716	268	36	48286	0.55073	0.29091	GNPTAB		
ENSG00000099282	10	71201229	71277425	364	29	52834	0.55059	0.29096	TSPAN15		
ENSG00000186998	22	29591840	29665586	239	42	43446	0.55052	0.29098	EMID1		
ENSG00000183640	21	32175016	32195570	78	10	47369	0.55044	0.29101	KRTAP8-1		
ENSG00000205971	7	1722446	1743961	52	10	51107	0.55025	0.29107	AC074389.6		
ENSG00000204610	6	30120993	30150473	168	20	43438	0.55018	0.2911	TRIM15		
ENSG00000100997	20	25265379	25381619	350	17	44235	0.55006	0.29114	ABHD12		
ENSG00000171552	20	30242255	30321792	123	13	35573	0.55006	0.29114	BCL2L1		
ENSG00000134259	1	115818539	115890857	262	57	40758	0.55002	0.29115	NGF		
ENSG00000055070	1	16669070	16734640	196	22	46800	0.54993	0.29118	SZRD1		
ENSG00000170312	10	62528089	62564610	136	17	54954	0.54984	0.29121	CDK1		
ENSG00000182352	17	72570818	72600348	126	15	42478	0.54981	0.29122	C17orf77		
ENSG00000169116	4	75848305	75985325	258	42	45121	0.54978	0.29123	PARM1		
ENSG00000135164	7	86771677	86835653	230	16	55873	0.54979	0.29123	DMTF1		
ENSG00000178338	5	178276954	178325123	343	16	48788	0.54978	0.29124	ZNF354B		
ENSG00000149054	11	6937635	7015863	325	38	47816	0.54972	0.29126	ZNF215		
ENSG00000127837	2	219118850	219144980	52	7	43845	0.54946	0.29135	AAMP		
ENSG00000196660	1	219848769	220141989	1106	85	41648	0.54943	0.29136	SLC30A10		
ENSG00000163596	2	203630690	203746708	266	21	49512	0.54927	0.29141	ICA1L		

ENSG00000166289	19	30145963	30176364	77	16	33396	0.54904	0.29149	PLEKHF1		
ENSG00000164035	4	101306498	101811283	1869	118	48671	0.54881	0.29157	EMCN		
ENSG00000198795	18	22631890	22942154	862	140	46988	0.54874	0.29159	ZNF521		
ENSG00000158863	8	21936670	21972409	148	25	50186	0.54857	0.29165	FAM160B2		
ENSG00000164970	9	34388182	34468568	214	29	47002	0.54836	0.29172	FAM219A		
ENSG00000271092	1	95573479	95722781	527	59	44465	0.5483	0.29174	TMEM56-RWDD3		
ENSG00000109066	17	72762622	72845918	225	28	47314	0.54829	0.29175	TMEM104		
ENSG00000059378	7	139713544	139773521	240	37	40551	0.54819	0.29178	PARP12		
ENSG00000114854	3	52475118	52498086	50	10	51947	0.54786	0.29189	TNNC1		
ENSG00000080200	3	97585819	97673810	133	13	45845	0.54788	0.29189	CRYBG3		
ENSG00000269074	2	11593927	11616274	103	11	53781	0.54775	0.29193	AC099344.1		
ENSG00000100077	22	25950816	26135261	501	39	51627	0.54764	0.29197	ADRBK2		
ENSG00000159921	9	36204438	36287053	245	27	45849	0.54753	0.29201	GNE		
ENSG00000198933	17	45761447	45799416	77	14	47043	0.54745	0.29203	TBKBP1		
ENSG00000104324	8	97647455	98171882	920	107	40896	0.54738	0.29206	CPQ		
ENSG00000106025	7	120417376	120508456	163	20	37575	0.54735	0.29207	TSPAN12		
ENSG00000157992	2	27655233	27679348	33	5	34577	0.54726	0.2921	KRTCAP3		
ENSG00000178734	13	76435187	76467947	159	16	46459	0.54723	0.29211	C13orf45		
ENSG00000005381	17	56337217	56368296	64	14	52855	0.54715	0.29214	MPO		
ENSG00000243444	9	112393068	112723755	1372	136	49535	0.54685	0.29224	PALM2		
ENSG00000064601	20	44508783	44537459	69	16	37699	0.54669	0.29229	CTSA		
ENSG00000253787	5	67475704	67504235	99	25	52257	0.54647	0.29237	RP11-404L6.2		
ENSG00000163933	3	53112499	53174478	164	13	44178	0.54638	0.2924	RFT1		
ENSG00000150401	13	114100134	114155267	201	23	35601	0.54638	0.2924	DCUN1D2		
ENSG00000197822	5	68778119	68863931	71	17	47820	0.5462	0.29246	OCLN		
ENSG00000104497	8	82701816	82765101	300	19	54050	0.54609	0.2925	SNX16		
ENSG00000152455	10	14910819	14956314	91	24	37113	0.54608	0.29251	SUV39H2		
ENSG00000155846	5	149099861	149244585	502	68	49966	0.54591	0.29257	PPARGC1B		
ENSG00000177409	7	92749368	92787682	76	21	43654	0.54558	0.29268	SAMD9L		
ENSG00000143499	1	214444445	214520474	266	34	44289	0.54545	0.29272	SMYD2		
ENSG00000251322	22	51102843	51181726	211	49	42740	0.54546	0.29272	SHANK3		
ENSG00000134780	11	61437905	61524473	194	28	48081	0.54526	0.29279	DAGLA		
ENSG00000149639	20	35395845	35502089	168	33	41525	0.5451	0.29284	SOGA1		
ENSG00000092345	3	16618299	16721813	531	71	48715	0.5447	0.29298	DAZL		
ENSG00000143257	1	161189456	161218092	105	18	51500	0.54467	0.29299	NR1I3		
ENSG00000269529	12	50680489	50701718	37	5	38111	0.54442	0.29308	AC140061.12		

ENSG00000137168	6	36812603	36852800	134	19	54953	0.54438	0.29309	<i>PPIL1</i>		
ENSG00000170426	12	57306938	57338189	95	15	40103	0.5443	0.29312	<i>SDR9C7</i>		
ENSG00000153531	13	114066260	114117839	210	49	45150	0.54375	0.29331	<i>ADPRHL1</i>		
ENSG00000186009	13	114293119	114322501	53	17	41990	0.5433	0.29346	<i>ATP4B</i>		
ENSG00000236939	8	104135191	104163703	137	23	56368	0.54323	0.29348	<i>C8orf56</i>		
ENSG00000171133	9	114079763	114100800	43	9	49023	0.54317	0.29351	<i>OR2K2</i>		
ENSG00000196155	16	67301413	67333402	40	15	45911	0.54258	0.29371	<i>PLEKHG4</i>		
ENSG00000183562	11	3001093	3022563	87	15	38568	0.54253	0.29373	<i>AC131971.1</i>		
ENSG00000132405	4	6900969	7044845	577	47	51470	0.54239	0.29378	<i>TBC1D14</i>		
ENSG00000140675	16	31484323	31512181	20	9	43920	0.5422	0.29384	<i>SLC5A2</i>		
ENSG00000150722	2	182808968	183006125	491	63	48541	0.54216	0.29385	<i>PPP1R1C</i>		
ENSG00000204764	5	170278874	170737019	978	39	39778	0.54199	0.29391	<i>RANBP17</i>		
ENSG00000057294	12	32933679	33059774	376	57	40379	0.54159	0.29405	<i>PKP2</i>		
ENSG00000176635	22	30466163	30583064	255	31	40988	0.54158	0.29405	<i>HORMAD2</i>		
ENSG00000113456	5	34895369	34929094	71	15	55017	0.54158	0.29406	<i>RAD1</i>		
ENSG00000165526	11	126061993	126091587	97	19	42179	0.54155	0.29406	<i>RPUSD4</i>		
ENSG00000160439	19	55540476	55592659	349	50	51652	0.54138	0.29412	<i>RDH13</i>		
ENSG00000233280	3	97530884	97604132	101	13	32879	0.54126	0.29416	<i>CRYBG3</i>		
ENSG00000214357	5	172058269	172128543	221	42	46519	0.54125	0.29417	<i>NEURL1B</i>		
ENSG00000151967	3	159547650	159625149	127	27	47094	0.54121	0.29418	<i>SCHIP1</i>		
ENSG00000140505	15	75031185	75058543	75	9	25225	0.54107	0.29423	<i>CYP1A2</i>		
ENSG00000099338	19	38816415	38871589	209	26	46802	0.54097	0.29426	<i>CATSPERG</i>		
ENSG00000157426	4	57194456	57263666	301	28	49063	0.54079	0.29433	<i>AASDH</i>		
ENSG00000163564	1	158890586	158956844	184	32	47306	0.54056	0.29441	<i>PYHIN1</i>		
ENSG00000107147	9	138584031	138694992	478	78	47753	0.54042	0.29445	<i>KCNT1</i>		
ENSG00000221837	21	46037040	46058294	99	15	38727	0.54015	0.29455	<i>KRTAP10-9</i>		
ENSG00000170604	19	46376866	46399376	85	19	46744	0.54011	0.29456	<i>IRF2BP1</i>		
ENSG00000147874	9	19043141	19113117	332	29	44204	0.54002	0.29459	<i>HAUS6</i>		
ENSG00000133065	1	205748221	205792876	135	23	32859	0.53994	0.29462	<i>SLC41A1</i>		
ENSG00000168438	6	110491344	110585478	296	32	42162	0.53993	0.29462	<i>CDC40</i>		
ENSG00000204410	6	31697725	31742622	120	28	34544	0.53984	0.29465	<i>MSH5</i>		
ENSG00000255152	6	31697797	31742628	120	28	34544	0.53984	0.29465	<i>MSH5-SAPCD1</i>		
ENSG00000162881	2	42979642	43001401	67	15	37153	0.53969	0.29471	<i>OXER1</i>		
ENSG00000223931	16	32053311	32073601	4	2	20358	0.53969	0.29471	<i>AC142381.1</i>		
ENSG00000228008	3	49931278	49964370	45	9	39823	0.53957	0.29475	<i>CTD-2330K9.3</i>		
ENSG00000162949	2	30935637	31053408	462	76	47705	0.53955	0.29476	<i>CAPN13</i>		

ENSG00000184924	2	25002603	25026251	86	17	47449	0.53933	0.29483	<i>PTRHD1</i>		
ENSG00000184232	11	120071475	120111041	125	24	48802	0.53929	0.29484	<i>OAF</i>		
ENSG00000124789	6	17605269	17716656	325	43	49348	0.53906	0.29492	<i>NUP153</i>		
ENSG00000145075	3	180310646	180598793	731	57	35988	0.53895	0.29496	<i>CCDC39</i>		
ENSG00000132383	17	1722996	1813376	280	33	36621	0.53858	0.29509	<i>RPA1</i>		
ENSG00000156471	8	97263943	97359223	217	32	39852	0.53849	0.29512	<i>PTDSS1</i>		
ENSG00000166743	16	20624559	20720212	279	27	33440	0.5385	0.29512	<i>ACSM1</i>		
ENSG00000164112	4	122670088	122696582	122	16	39606	0.53842	0.29514	<i>TMEM155</i>		
ENSG00000105246	19	4219495	4247528	88	17	29935	0.53811	0.29525	<i>EBI3</i>		
ENSG00000168924	4	1803206	1867974	64	33	42356	0.53778	0.29537	<i>LETM1</i>		
ENSG00000122779	7	138135079	138284738	332	35	48400	0.53776	0.29537	<i>TRIM24</i>		
ENSG00000125779	20	3859486	3917605	169	21	47672	0.53762	0.29542	<i>PANK2</i>		
ENSG00000235478	22	17592476	17622994	151	28	43084	0.53752	0.29546	<i>AC006946.15</i>		
ENSG00000197930	14	53096634	53172618	177	26	53138	0.53734	0.29552	<i>ERO1L</i>		
ENSG00000160190	21	43906118	44011550	452	42	36133	0.53721	0.29556	<i>SLC37A1</i>		
ENSG00000220008	19	2279774	2318156	127	30	34553	0.537	0.29563	<i>LINGO3</i>		
ENSG00000114204	3	167149577	167206792	203	22	39016	0.53695	0.29565	<i>SERPINI2</i>		
ENSG00000164556	7	38714946	38736637	96	23	42868	0.5368	0.2957	<i>FAM183B</i>		
ENSG00000171611	6	42873727	42903573	76	12	38294	0.5365	0.29581	<i>PTCRA</i>		
ENSG00000151689	2	191198196	191246391	148	15	35767	0.5364	0.29584	<i>INPP1</i>		
ENSG00000204193	9	113055801	113110127	238	43	38785	0.53641	0.29584	<i>TXNDC8</i>		
ENSG00000255529	15	57874231	58084960	800	107	46424	0.53607	0.29595	<i>POLR2M</i>		
ENSG00000233932	15	48473736	48505953	1	1	12906	0.53594	0.296	<i>CTXN2</i>		
ENSG00000172500	11	65641212	65666010	60	11	36509	0.5358	0.29605	<i>FIBP</i>		
ENSG00000119280	1	230962865	231015335	164	27	45521	0.53575	0.29607	<i>C1orf198</i>		
ENSG00000173208	12	39933835	40023553	205	32	42515	0.53491	0.29636	<i>ABCD2</i>		
ENSG00000154263	17	67133355	67250987	303	27	42202	0.5349	0.29636	<i>ABCA10</i>		
ENSG00000151365	11	77764907	77789397	116	13	53657	0.53471	0.29643	<i>THRSP</i>		
ENSG00000164291	5	94880778	94950768	125	15	26550	0.53458	0.29647	<i>ARSK</i>		
ENSG00000105612	19	12976025	13002282	54	10	42706	0.53451	0.29649	<i>DNASE2</i>		
ENSG00000205502	15	62445734	62467482	53	12	50915	0.5344	0.29653	<i>C2CD4B</i>		
ENSG0000013288	4	6566902	6635089	219	40	45335	0.53424	0.29659	<i>MAN2B2</i>		
ENSG00000148180	9	123960072	124105121	406	42	38517	0.53397	0.29668	<i>GSN</i>		
ENSG00000183908	11	56939221	56969191	96	15	49675	0.53398	0.29668	<i>LRRC55</i>		
ENSG00000163359	2	238222646	238333018	324	60	45291	0.53393	0.29669	<i>COL6A3</i>		
ENSG00000169436	8	139590478	139936249	1315	154	42688	0.53395	0.29669	<i>COL22A1</i>		

ENSG00000185982	20	158494	180322	113	15	43394	0.5339	0.2967	DEFB128		
ENSG00000188991	12	16331419	16440619	495	29	47467	0.53387	0.29672	SLC15A5		
ENSG00000166329	17	55811842	55832673	93	16	53173	0.5338	0.29674	CCDC182		
ENSG00000138670	4	82337547	82975397	2356	165	43685	0.53378	0.29675	RASGEF1B		
ENSG00000198590	3	37417760	37486988	158	25	43650	0.53373	0.29676	C3orf35		
ENSG00000198742	7	98615061	98751723	229	48	50227	0.53342	0.29687	SMURF1		
ENSG00000169976	6	144406018	144426754	69	18	42229	0.53336	0.29689	SF3B5		
ENSG00000204897	17	38894273	38921584	80	17	48527	0.53336	0.29689	KRT25		
ENSG00000187987	6	28389707	28421279	119	15	49441	0.53324	0.29693	ZSCAN23		
ENSG00000253831	1	157051836	157079600	126	19	42085	0.53318	0.29695	ETV3L		
ENSG00000099290	10	51817648	51903269	74	9	36875	0.53226	0.29727	FAM21A		
ENSG00000073584	17	38771214	38814760	95	17	51611	0.53224	0.29728	SMARCE1		
ENSG00000267985	7	72449478	72474996	5	3	37143	0.53218	0.2973	AC005488.1		
ENSG00000187954	8	145664965	145701060	70	20	45313	0.53202	0.29736	CYHR1		
ENSG00000088038	19	54631444	54669419	114	28	44407	0.53184	0.29742	CNOT3		
ENSG00000162521	1	33106743	33161812	144	12	37655	0.53173	0.29746	RBBP4		
ENSG00000010818	6	143062604	143276338	588	87	50390	0.53156	0.29752	HIVEP2		
ENSG00000197445	16	73150536	73188346	120	21	40793	0.53153	0.29753	C16orf47		
ENSG00000129484	14	20801741	20836064	126	15	42046	0.53142	0.29756	PARP2		
ENSG00000141338	17	66853433	66961533	270	32	44775	0.53118	0.29765	ABCA8		
ENSG00000198246	10	73069015	73133142	237	37	38204	0.53115	0.29766	SLC29A3		
ENSG00000007545	16	1652326	1737909	185	22	39022	0.531	0.29771	CRAMP1L		
ENSG00000116852	1	200928520	201002828	204	25	34552	0.53088	0.29775	KIF21B		
ENSG00000186432	3	160202783	160293376	196	22	48916	0.53085	0.29776	KPNA4		
ENSG00000121236	11	5607339	5644188	210	47	48338	0.53076	0.29779	TRIM6		
ENSG00000109424	4	141470588	141499959	93	15	36773	0.53071	0.29781	UCP1		
ENSG00000168916	5	123962608	124094500	417	70	48027	0.53068	0.29782	ZNF608		
ENSG00000240505	17	16822849	16885432	296	40	43131	0.53004	0.29804	TNFRSF13B		
ENSG00000104365	8	42118820	42199973	131	19	41261	0.52931	0.29829	IKBKB		
ENSG00000214686	3	51802580	51823009	19	7	36185	0.529	0.2984	IQCF6		
ENSG00000139496	13	25865662	25933938	65	25	43506	0.52868	0.29851	NUPL1		
ENSG00000111186	12	1629057	1766409	593	138	43120	0.52848	0.29858	WNT5B		
ENSG00000099769	16	1830414	1854972	194	15	31713	0.52839	0.29861	IGFALS		
ENSG00000130589	20	62179439	62215592	133	32	43395	0.528	0.29875	HELZ2		
ENSG00000236334	1	143757144	143777881	2	1	42709	0.52787	0.29879	PPIAL4G		
ENSG00000182870	12	132670924	132915935	590	99	48107	0.52784	0.29881	GALNT9		

ENSG00000177947	11	186738	210261	66	17	42592	0.52757	0.2989	ODF3		
ENSG00000112473	6	33158222	33182216	56	13	48567	0.52723	0.29902	SLC39A7		
ENSG00000141279	17	45590308	45710642	261	22	47218	0.52695	0.29911	NPEPPS		
ENSG00000203778	6	112398802	112433993	112	6	55481	0.52642	0.2993	FAM229B		
ENSG00000168930	11	89520823	89551743	16	7	41047	0.52638	0.29931	TRIM49		
ENSG00000084754	2	26403504	26477594	146	8	52431	0.52617	0.29939	HADHA		
ENSG00000105146	19	57732377	57756916	108	15	53796	0.52603	0.29943	AURKC		
ENSG00000074317	5	176037085	176067530	48	13	36013	0.52582	0.29951	SNCB		
ENSG00000198677	5	94789599	94900711	246	14	26329	0.52515	0.29974	TTC37		
ENSG00000228727	6	31720576	31742628	61	18	34299	0.52504	0.29978	SAPCD1		
ENSG00000188425	19	46406475	46428036	118	21	52418	0.52502	0.29978	NANOS2		
ENSG00000104881	19	45872892	45919607	123	26	42598	0.52491	0.29982	PPP1R13L		
ENSG00000114982	2	97248907	97318524	70	17	27413	0.52487	0.29984	KANSL3		
ENSG00000134954	11	128318656	128467453	369	74	46902	0.52456	0.29994	ETS1		
ENSG00000117411	1	44434615	44466840	55	14	34727	0.52423	0.30006	B4GALT2		
ENSG00000122376	10	88843918	88961225	347	29	42439	0.52424	0.30006	FAM35A		
ENSG00000102786	13	51918213	52038400	246	26	51228	0.52423	0.30006	INTS6		
ENSG00000196396	20	49116891	49211299	258	33	55039	0.52398	0.30015	PTPN1		
ENSG00000148300	9	136261186	136293164	152	13	53099	0.52374	0.30023	REXO4		
ENSG00000137133	9	35802957	35825351	40	12	37444	0.52347	0.30032	HINT2		
ENSG00000109654	4	154063494	154270472	613	85	44322	0.52345	0.30033	TRIM2		
ENSG00000123342	12	56219217	56246750	28	15	45075	0.52339	0.30035	MMP19		
ENSG00000176597	3	182961032	183026292	184	14	41791	0.52329	0.30039	B3GNT5		
ENSG00000146425	6	159047506	159075771	88	13	52271	0.52329	0.30039	DYNLT1		
ENSG00000137054	9	37475932	37513694	197	14	52104	0.52329	0.30039	POLR1E		
ENSG00000258223	7	141941963	141967878	150	11	30462	0.5229	0.30052	PRSS58		
ENSG00000182698	2	220182131	220207899	102	12	25877	0.52285	0.30054	RESP18		
ENSG00000205835	3	190560666	190620218	205	36	40305	0.52286	0.30054	GMNC		
ENSG00000171617	5	73913234	73947249	91	14	49002	0.52251	0.30066	ENC1		
ENSG00000107105	9	23680102	23836335	486	76	49578	0.5225	0.30066	ELAVL2		
ENSG00000159261	21	37822919	37958867	576	59	35951	0.52215	0.30078	CLDN14		
ENSG00000241973	22	21051979	21223705	560	28	53527	0.52194	0.30086	PI4KA		
ENSG00000120708	5	135354584	135409507	142	17	44386	0.52173	0.30093	TGFB1		
ENSG00000186160	1	47523160	47593991	229	9	23310	0.52151	0.30101	CYP4Z1		
ENSG00000221818	8	25689246	25912913	742	112	46411	0.52115	0.30113	EBF2		
ENSG00000162399	1	55454606	55486556	95	16	39682	0.52104	0.30117	BSND		

ENSG00000167699	17	650337	695581	159	25	50153	0.52063	0.30131	GL0D4		
ENSG00000256812	16	55590584	55611599	51	8	37793	0.52049	0.30136	CAPNS2		
ENSG00000113360	5	31390604	31542303	438	58	38984	0.52046	0.30137	DROSHA		
ENSG00000100889	14	24553262	24589807	64	19	38931	0.52046	0.30137	PCK2		
ENSG00000170099	14	94760585	94799731	149	26	42123	0.52007	0.30151	SERPINA6		
ENSG00000269103	22	21348030	21370736	117	20	43435	0.52005	0.30151	AC002472.1		
ENSG00000196993	16	28753108	28794128	3	2	43308	0.51994	0.30155	NPIP8		
ENSG00000268798	19	1430838	1451937	47	12	51580	0.51991	0.30156	AC027307.3		
ENSG00000109101	17	26823261	26875914	113	22	47091	0.51989	0.30157	FOXN1		
ENSG00000167799	11	67385409	67407401	105	14	34196	0.5198	0.3016	NUDT8		
ENSG00000088881	20	2663524	2750753	219	41	41154	0.51939	0.30174	EBF4		
ENSG00000011260	17	49327889	49385297	167	21	42518	0.51934	0.30176	UTP18		
ENSG00000134709	1	60270458	60352050	189	22	43168	0.51933	0.30177	HOOK1		
ENSG00000163541	2	84640647	84697169	150	15	31001	0.51927	0.30179	SUCLG1		
ENSG00000177679	7	75821216	75926605	192	30	43231	0.51906	0.30186	SRRM3		
ENSG00000072657	12	72471046	73069422	1414	120	38215	0.51896	0.30189	TRHDE		
ENSG00000100242	22	39120730	39200148	163	34	42178	0.51879	0.30195	SUN2		
ENSG00000163795	2	27590098	27613657	40	9	37148	0.51877	0.30196	ZNF513		
ENSG00000171954	19	15609304	15673128	240	50	49071	0.51872	0.30198	CYP4F22		
ENSG00000068654	2	86237339	86343278	248	27	33772	0.51864	0.30201	POLR1A		
ENSG00000182742	17	46642875	46667473	67	16	40217	0.51835	0.30211	HOXB4		
ENSG00000131747	17	38534768	38584202	101	16	54822	0.5183	0.30212	TOP2A		
ENSG00000140367	15	76125622	76203419	171	24	39618	0.51829	0.30213	UBE2Q2		
ENSG00000235645	10	71434655	71462208	144	19	54281	0.51824	0.30214	RP11-242G20.1		
ENSG00000261086	15	83199620	83241124	67	14	46044	0.51819	0.30216	RP11-379H8.1		
ENSG00000100055	22	37668068	37721382	168	34	43116	0.51777	0.30231	CYTH4		
ENSG00000118420	6	83592117	83785560	580	46	49504	0.51771	0.30233	UBE3D		
ENSG00000205857	12	7907812	7936717	47	19	49365	0.51749	0.30241	NANOGNB		
ENSG00000130529	19	49650998	49725093	250	37	48062	0.51746	0.30242	TRPM4		
ENSG00000164087	3	52099269	52198706	137	20	35106	0.51736	0.30245	POC1A		
ENSG00000095209	9	108446825	108548893	364	16	22734	0.51687	0.30262	TMEM38B		
ENSG00000164002	1	40964413	40992228	110	16	41601	0.51685	0.30263	EXO5		
ENSG00000153266	3	62345356	62369999	40	11	48717	0.51674	0.30267	FEZF2		
ENSG00000127507	19	14833205	14899353	372	45	44012	0.51667	0.30269	EMR2		
ENSG00000132466	4	73929093	74134515	204	36	48215	0.51657	0.30273	ANKRD17		
ENSG00000144730	3	57114010	57214334	271	33	42738	0.51636	0.3028	IL17RD		

ENSG00000008324	3	42613332	42646606	91	13	35861	0.5162	0.30286	SS18L2		
ENSG00000165030	9	94161327	94196144	101	23	43625	0.51616	0.30287	NFIL3		
ENSG00000198674	11	123854870	123875868	85	15	49745	0.51613	0.30288	OR10G6		
ENSG00000196141	2	201160604	201356986	507	66	42100	0.51595	0.30294	SPATS2L		
ENSG00000146072	6	47189268	47287641	229	54	45135	0.51592	0.30296	TNFRSF21		
ENSG00000119632	14	94584116	94606590	63	10	31097	0.51592	0.30296	IFI27L2		
ENSG00000074935	6	112381980	112418732	79	7	55877	0.51586	0.30297	TUBE1		
ENSG00000149633	20	36828890	36899174	197	33	45914	0.51579	0.303	KIAA1755		
ENSG00000143947	2	55449039	55472989	81	18	41607	0.5157	0.30303	RPS27A		
ENSG00000256861	12	122682326	122760970	165	21	39950	0.51566	0.30305	RP11-512M8.5		
ENSG00000153317	8	131054353	131465906	1481	71	55063	0.51543	0.30313	ASAP1		
ENSG00000115541	2	198354718	198378181	33	7	55126	0.51538	0.30314	HSPE1		
ENSG00000163463	1	155131884	155155951	44	9	47094	0.5153	0.30317	KRTCAP2		
ENSG00000260861	20	1510790	1610655	223	32	46489	0.51509	0.30325	RP4-576H24.4		
ENSG00000160282	21	47546176	47585481	237	51	42591	0.51499	0.30328	FTCD		
ENSG00000197566	17	16514051	16567170	189	14	46402	0.51425	0.30354	ZNF624		
ENSG00000132300	2	86323305	86379280	151	18	31373	0.51422	0.30355	PTCD3		
ENSG00000174705	5	171742185	171891527	584	53	36705	0.51398	0.30363	SH3PXD2B		
ENSG00000159147	21	34921848	34971014	60	12	51311	0.51393	0.30365	DONSON		
ENSG00000106031	7	27223122	27249725	58	15	43191	0.5137	0.30373	HOXA13		
ENSG00000258053	12	71431182	71522027	291	22	35560	0.51367	0.30374	CTD-2021H9.3		
ENSG00000185666	22	32898539	33464358	1923	205	45490	0.51351	0.3038	SYN3		
ENSG00000165238	9	95937198	96092854	493	60	40642	0.51322	0.3039	WNK2		
ENSG00000119682	14	75110140	75189818	108	11	40768	0.51314	0.30393	AREL1		
ENSG00000099812	19	741126	774319	100	40	42994	0.51311	0.30394	MISP		
ENSG00000196683	7	22842251	22872470	161	19	41143	0.51294	0.304	TOMM7		
ENSG00000262484	19	39389620	39412798	71	15	42824	0.51288	0.30402	CCER2		
ENSG00000122482	1	91370859	91497829	246	21	55526	0.51267	0.30409	ZNF644		
ENSG00000164123	4	159804286	159969912	525	43	51603	0.51234	0.3042	C4orf45		
ENSG00000162068	16	2511500	2534146	20	13	46606	0.51236	0.3042	NTN3		
ENSG00000258256	8	86124675	86167946	76	10	53780	0.51227	0.30423	RP11-219B4.5		
ENSG00000251246	1	155026224	155069283	78	18	45910	0.51223	0.30424	EFNA3		
ENSG00000143590	1	155026224	155070014	78	18	45910	0.51223	0.30424	EFNA3		
ENSG00000188089	15	42263780	42353388	416	56	46621	0.51214	0.30428	PLA2G4E		
ENSG00000101493	18	74059644	74217146	564	88	44431	0.51207	0.3043	ZNF516		
ENSG00000124067	16	67967377	68013504	62	13	35340	0.51205	0.30431	SLC12A4		

ENSG00000120875	8	29180581	29218185	103	18	34475	0.512	0.30433	DUSP4		
ENSG00000168237	3	52311105	52339272	52	11	45017	0.51187	0.30437	GLYCTK		
ENSG00000196867	19	57040317	57078169	161	21	45504	0.51178	0.3044	ZFP28		
ENSG00000119042	2	200124223	200345989	318	39	33209	0.5117	0.30443	SATB2		
ENSG00000180611	3	192504604	192645950	489	57	42840	0.51166	0.30444	MB21D2		
ENSG00000157077	1	52598046	52822358	282	39	45803	0.51164	0.30445	ZFYVE9		
ENSG00000167970	16	2293738	2322343	59	11	46511	0.51148	0.30451	AC009065.1		
ENSG00000167447	17	57276761	57302608	59	10	37942	0.51143	0.30452	SMG8		
ENSG00000254470	11	65533364	65558273	58	11	37677	0.51124	0.30459	AP5B1		
ENSG00000178882	12	124447788	124810570	1220	150	45667	0.51111	0.30464	FAM101A		
ENSG00000215527	18	12648042	12673470	91	12	40932	0.511	0.30467	AP005482.1		
ENSG00000118600	12	64163583	64213338	89	23	53607	0.511	0.30468	TMEM5		
ENSG00000198951	22	42444358	42476846	65	10	49530	0.5109	0.30471	NAGA		
ENSG00000220702	22	44751431	44772164	132	33	50348	0.51087	0.30472	RP1-32I10.10		
ENSG00000254469	11	71566555	71649700	384	18	37401	0.51073	0.30477	RP11-849H4.2		
ENSG00000033011	16	5073703	5147380	275	59	49645	0.51058	0.30482	ALG1		
ENSG00000172197	6	20090935	20222670	415	83	44625	0.51054	0.30484	MBOAT1		
ENSG00000156049	9	80027995	80273223	825	148	44733	0.51054	0.30484	GNA14		
ENSG00000197696	15	85188360	85211794	69	15	41170	0.51047	0.30486	NMB		
ENSG00000142687	1	35889091	36033551	106	43	48429	0.51036	0.3049	KIAA0319L		
ENSG00000054267	1	235284949	235501534	594	27	43119	0.5103	0.30492	ARID4B		
ENSG00000133265	19	55763599	55801749	99	20	52869	0.51029	0.30492	HSPBP1		
ENSG00000088247	19	6403359	6434805	111	16	49715	0.51024	0.30494	KHSRP		
ENSG00000110944	12	56722663	56744193	40	7	45411	0.51004	0.30501	IL23A		
ENSG00000177169	12	132369196	132417712	117	16	29156	0.51004	0.30501	ULK1		
ENSG00000108511	17	46661639	46692354	82	19	44281	0.51002	0.30502	HOXB6		
ENSG00000110076	11	64363646	64500660	218	25	36731	0.50946	0.30521	NRXN2		
ENSG00000165118	9	86543226	86581901	82	15	50560	0.50907	0.30535	C9orf64		
ENSG00000150275	10	55552531	57397702	7132	330	41492	0.50898	0.30538	PCDH15		
ENSG00000170323	8	82380654	82405498	78	13	44656	0.5089	0.30541	FABP4		
ENSG00000169718	17	80005382	80033763	76	18	38080	0.50869	0.30549	DUS1L		
ENSG00000167791	11	67276383	67300899	36	14	41817	0.50865	0.3055	CABP2		
ENSG00000170348	14	75588173	75653334	154	13	47824	0.50858	0.30552	TMED10		
ENSG00000140678	16	31356455	31404318	96	24	43675	0.50846	0.30557	ITGAX		
ENSG00000271723	1	55097459	55217981	499	49	41453	0.50805	0.30571	MROH7-TTC4		
ENSG00000101307	20	1534167	1610707	145	26	47768	0.50788	0.30577	SIRPB1		

ENSG00000159723	16	67506474	67527716	27	9	41706	0.50778	0.3058	AGRP		
ENSG00000100908	14	24598174	24620797	43	13	37680	0.50773	0.30582	EMC9		
ENSG00000162688	1	100305640	100399579	380	40	49995	0.50764	0.30585	AGL		
ENSG00000116652	1	64004588	64025405	55	12	50270	0.50761	0.30586	DLEU2L		
ENSG00000169955	16	30527244	30556668	33	15	39186	0.50745	0.30592	ZNF747		
ENSG00000115365	2	211285973	211352376	186	18	48047	0.50731	0.30597	LANCL1		
ENSG00000187210	9	79024752	79132332	468	55	48775	0.5071	0.30604	GCNT1		
ENSG00000093144	6	127599855	127674754	153	16	49241	0.50705	0.30606	ECHDC1		
ENSG00000269367	12	42614050	42638075	58	11	47020	0.50689	0.30612	AC020629.1		
ENSG00000184276	11	71534246	71558756	107	12	44299	0.50667	0.30619	DEFB108B		
ENSG00000134463	10	11774365	11816069	129	16	48750	0.50653	0.30624	ECHDC3		
ENSG00000088387	13	99435741	99748879	1184	64	46625	0.50655	0.30624	DOCK9		
ENSG00000248167	6	30287359	30324631	139	27	39683	0.50645	0.30627	TRIM39-RPP21		
ENSG00000132128	1	46716868	46779280	78	20	35860	0.50607	0.30641	LRRC41		
ENSG00000108846	17	48702138	48779613	191	54	45922	0.50599	0.30643	ABCC3		
ENSG00000125875	20	406124	453197	129	24	46133	0.50601	0.30643	TBC1D20		
ENSG00000214841	7	34675709	34709772	203	27	38772	0.50574	0.30652	AC005493.1		
ENSG00000087448	12	27922953	27965973	167	24	34871	0.50575	0.30652	KLHL42		
ENSG00000113916	3	187429165	187473515	145	32	43965	0.50558	0.30658	BCL6		
ENSG00000213160	2	170540998	170643499	558	59	52699	0.5055	0.3066	KLHL23		
ENSG00000142632	1	16514349	16549104	146	10	49224	0.50517	0.30672	ARHGEF19		
ENSG00000009335	7	156921607	157072066	550	40	43463	0.50516	0.30672	UBE3C		
ENSG00000114166	3	20071515	20205896	577	66	46098	0.50504	0.30677	KAT2B		
ENSG00000261190	16	52029399	52122386	258	41	51971	0.50496	0.30679	C16orf97		
ENSG00000204514	19	58350099	58410442	187	26	37903	0.50488	0.30682	ZNF814		
ENSG00000156194	4	76771020	76833724	160	23	36487	0.50478	0.30686	PPEF2		
ENSG00000166598	12	104313885	104357423	231	36	42184	0.50469	0.30689	HSP90B1		
ENSG00000032219	14	58755103	58850605	169	19	52203	0.50465	0.3069	ARID4A		
ENSG00000122674	7	5928356	5975605	118	30	40593	0.50453	0.30694	CCZ1		
ENSG00000154359	8	12569403	12623582	177	24	44892	0.50453	0.30694	LONRF1		
ENSG00000117395	1	43619846	43746607	492	48	36370	0.50443	0.30698	EBNA1BP2		
ENSG00000167608	19	54653846	54686944	97	28	44263	0.50422	0.30705	TMC4		
ENSG00000138468	3	101033049	101242085	670	22	53779	0.50413	0.30708	SEN7		
ENSG00000171595	17	72260386	72321023	245	36	38903	0.50404	0.30712	DNAI2		
ENSG00000106410	7	144084333	144117320	104	11	40090	0.5039	0.30716	NOBOX		
ENSG00000112062	6	35985488	36089013	286	26	42756	0.50386	0.30718	MAPK14		

ENSG00000249751	5	138774245	138852328	30	11	40528	0.50376	0.30722	ECSCR		
ENSG00000178732	3	194105550	194129995	96	12	26583	0.50273	0.30758	GP5		
ENSG00000134160	15	31283264	31463476	679	105	46623	0.50235	0.30771	TRPM1		
ENSG00000159069	9	139824887	139849148	108	17	49481	0.50193	0.30786	FBXW5		
ENSG00000163982	4	4180530	4238616	302	38	44113	0.50166	0.30795	OTOP1		
ENSG00000078725	9	121905736	122141745	579	85	44334	0.50168	0.30795	BRINP1		
ENSG00000178363	10	5556924	5578225	71	23	51570	0.50166	0.30795	CALML3		
ENSG00000136999	8	120418546	120446593	143	10	45539	0.50113	0.30814	NOV		
ENSG00000104472	8	141511397	141537236	73	20	51942	0.50088	0.30823	CHRA1		
ENSG00000230657	12	11450017	11473369	71	17	46227	0.50081	0.30825	PRB4		
ENSG00000077800	7	72732167	72782634	113	12	51567	0.50077	0.30827	FKBP6		
ENSG00000170162	6	117576721	117604728	78	16	34089	0.50062	0.30832	VGLL2		
ENSG00000096401	6	44345262	44428163	172	39	40525	0.50056	0.30834	CDC5L		
ENSG00000126243	19	36416260	36446669	85	14	33672	0.50056	0.30834	LRFN3		
ENSG00000105251	19	4268598	4300721	98	25	45658	0.50052	0.30835	SHD		
ENSG00000143179	1	165786768	165890855	207	36	44036	0.50012	0.3085	UCK2		
ENSG00000198298	10	44091855	44123351	129	25	48874	0.50012	0.3085	ZNF485		
ENSG00000132612	16	69335259	69368949	92	17	53697	0.49998	0.30854	VPS4A		
ENSG00000131374	3	17188654	18496309	3280	115	41953	0.49977	0.30862	TBC1D5		
ENSG00000162517	1	32085463	32120497	72	8	32080	0.49972	0.30864	PEF1		
ENSG00000203872	6	88044567	88085181	138	15	51487	0.49928	0.30879	C6orf163		
ENSG00000196923	5	176900395	176934607	44	20	35586	0.49926	0.3088	PDLIM7		
ENSG00000198162	1	117900071	118081494	581	41	53986	0.49912	0.30885	MAN1A2		
ENSG00000233438	2	27750253	27800011	117	15	51929	0.49906	0.30887	AC109829.1		
ENSG00000008438	19	46512411	46536323	79	13	55348	0.49853	0.30906	PGLYRP1		
ENSG00000204950	11	61266272	61288482	62	11	28452	0.49828	0.30914	LRRC10B		
ENSG00000197851	7	96100938	96142835	108	22	48495	0.49822	0.30916	C7orf76		
ENSG00000266202	17	26115832	26230391	236	28	41828	0.49766	0.30936	RP1-66C13.4		
ENSG00000250038	4	28353901	28414486	269	23	48264	0.49742	0.30945	RP11-180C1.1		
ENSG00000110660	11	107651717	107809019	725	68	43529	0.49721	0.30952	SLC35F2		
ENSG00000272297	4	187337700	187486464	786	112	42563	0.49718	0.30953	RP11-215A19.2		
ENSG00000160948	8	145639000	145663931	75	9	49969	0.49719	0.30953	VPS28		
ENSG00000159788	4	3284755	3451640	469	76	42380	0.49703	0.30958	RGS12		
ENSG00000171819	1	11239398	11266038	49	6	26000	0.49692	0.30962	ANGPTL7		
ENSG00000168067	11	64546290	64580713	35	9	43468	0.49686	0.30964	MAP4K2		
ENSG00000038002	4	178341924	178373657	92	23	47045	0.49668	0.30971	AGA		

ENSG00000117298	1	21533740	21681997	454	71	43383	0.49661	0.30973	<i>ECE1</i>		
ENSG00000217825	7	154978273	155000165	165	19	36875	0.4966	0.30974	<i>AC099552.4</i>		
ENSG00000136541	2	158165137	158194225	41	10	31015	0.4963	0.30984	<i>ERMN</i>		
ENSG00000082556	8	54128284	54174257	235	25	42252	0.4963	0.30984	<i>OPRK1</i>		
ENSG00000110057	11	67748575	67782452	78	17	51107	0.49624	0.30986	<i>UNC93B1</i>		
ENSG00000109943	11	122699208	122753347	200	39	46961	0.49625	0.30986	<i>CRTAM</i>		
ENSG00000168903	5	180405845	180443727	55	11	36251	0.49614	0.3099	<i>BTNL3</i>		
ENSG00000153982	17	57287828	57363328	156	15	33981	0.49612	0.3099	<i>GDPD1</i>		
ENSG00000215612	4	8837802	8883543	31	18	29761	0.49598	0.30995	<i>HMX1</i>		
ENSG00000169016	2	11574501	11616297	199	14	52896	0.49596	0.30996	<i>E2F6</i>		
ENSG00000245888	16	27269526	27311813	88	16	43654	0.49576	0.31003	<i>CTD-3203P2.2</i>		
ENSG00000108819	17	48201104	48237991	60	15	48624	0.49575	0.31004	<i>PPP1R9B</i>		
ENSG00000130595	11	1930792	1969936	117	32	45689	0.49569	0.31006	<i>TNNT3</i>		
ENSG00000148606	10	79724907	79799303	137	22	39475	0.49559	0.31009	<i>POLR3A</i>		
ENSG00000105202	19	40315098	40347054	112	20	55498	0.4954	0.31016	<i>FBL</i>		
ENSG00000113460	5	34905481	34936101	58	12	53898	0.49525	0.31021	<i>BRIX1</i>		
ENSG00000149716	11	69457844	69500184	84	18	35883	0.49513	0.31025	<i>ORAOV1</i>		
ENSG00000268265	21	34937431	34957645	24	7	53026	0.4945	0.31048	<i>AP000304.1</i>		
ENSG00000121691	11	34450472	34503609	173	22	37169	0.49437	0.31052	<i>CAT</i>		
ENSG00000126785	14	63660832	63769937	312	40	41601	0.49423	0.31057	<i>RHOJ</i>		
ENSG00000243509	20	62318021	62340037	65	11	36600	0.49412	0.31061	<i>TNFRSF6B</i>		
ENSG00000108244	17	39068948	39103886	184	28	36685	0.49411	0.31062	<i>KRT23</i>		
ENSG00000198805	14	20927113	20955253	88	18	41535	0.49402	0.31065	<i>PNP</i>		
ENSG00000173801	17	39765692	39953183	592	71	42495	0.49359	0.3108	<i>JUP</i>		
ENSG00000205863	13	24455238	24486794	123	18	47096	0.49349	0.31083	<i>C1QTNF9B</i>		
ENSG00000142920	1	33536705	33596131	101	14	48561	0.49345	0.31085	<i>ADC</i>		
ENSG00000196090	20	40691392	41828610	3744	332	43273	0.49344	0.31085	<i>PTPRT</i>		
ENSG00000244255	6	31885475	31929825	132	24	45429	0.49331	0.3109	<i>CFB</i>		
ENSG00000243649	6	31885475	31929861	132	24	45429	0.49331	0.3109	<i>CFB</i>		
ENSG00000138802	4	110344928	110472052	277	21	48300	0.4932	0.31094	<i>SEC24B</i>		
ENSG00000015171	10	170405	310577	275	28	40345	0.49298	0.31101	<i>ZMYND11</i>		
ENSG00000147896	9	27514312	27536496	109	13	42199	0.49289	0.31104	<i>IFNK</i>		
ENSG00000175105	3	88178254	88203815	61	6	30971	0.49281	0.31108	<i>ZNF654</i>		
ENSG00000155324	5	125685824	125842186	427	92	46705	0.49211	0.31132	<i>GRAMD3</i>		
ENSG00000117602	1	24819387	24877530	201	29	39523	0.49178	0.31144	<i>RCAN3</i>		
ENSG00000143858	1	202549724	202689545	351	49	38290	0.49166	0.31148	<i>SYT2</i>		

ENSG00000005339	16	3765055	3940727	223	53	36971	0.4916	0.3115	CREBBP		
ENSG00000163785	3	133774147	133979689	533	46	36158	0.49148	0.31154	RYK		
ENSG00000196684	19	16234838	16279386	136	24	48478	0.49136	0.31159	HSH2D		
ENSG00000149485	11	61557099	61606790	82	9	33995	0.49126	0.31162	FADS1		
ENSG00000255872	9	37578410	38078684	1612	118	50001	0.49115	0.31166	RP11-613M10.9		
ENSG00000079101	18	586988	660334	251	54	44740	0.49112	0.31167	CLUL1		
ENSG00000171551	2	233334537	233362538	118	28	50302	0.49074	0.3118	ECEL1		
ENSG00000146242	6	83062923	83090545	65	11	53546	0.49076	0.3118	TPBG		
ENSG00000176083	1	26678125	26711013	122	20	38501	0.49069	0.31182	ZNF683		
ENSG00000184588	1	66248197	66850259	1583	163	45117	0.49066	0.31183	PDE4B		
ENSG00000105402	19	47980894	48028497	70	12	42001	0.49067	0.31183	NAPA		
ENSG00000118322	5	159980127	160289221	1066	113	48303	0.49052	0.31188	ATP10B		
ENSG00000261794	15	30886329	30916764	18	8	38175	0.49023	0.31198	GOLGA8H		
ENSG00000212710	18	19983564	20007878	44	17	38363	0.49015	0.31201	CTAGE1		
ENSG00000185760	6	73321520	73918574	1691	182	43057	0.49008	0.31204	KCNQ5		
ENSG00000249852	7	217554	239557	96	22	48100	0.4898	0.31214	AC145676.2		
ENSG00000196639	3	11168779	11315243	475	71	38859	0.48953	0.31223	HRH1		
ENSG00000141380	18	23586578	23681181	217	20	36756	0.48932	0.31231	SS18		
ENSG00000186440	1	158522441	158543394	73	10	50475	0.48927	0.31232	OR6P1		
ENSG00000215277	14	23644525	23752686	413	53	45096	0.48929	0.31232	C14orf164		
ENSG00000170425	17	15838231	15889060	118	21	39779	0.48925	0.31233	ADORA2B		
ENSG00000166535	12	8965068	9049597	286	50	46113	0.4892	0.31235	A2ML1		
ENSG00000166436	11	8623584	8703413	235	29	52653	0.48917	0.31236	TRIM66		
ENSG00000198003	19	11521272	11556603	64	22	41251	0.489	0.31242	CCDC151		
ENSG00000143437	1	150772181	150859244	166	22	49480	0.4886	0.31256	ARNT		
ENSG00000085433	1	109502836	109594850	294	37	54597	0.48857	0.31257	WDR47		
ENSG00000176014	18	12297668	12354319	206	15	40094	0.48855	0.31258	TUBB6		
ENSG00000100744	14	96819814	96863625	60	14	46348	0.48843	0.31262	GSKIP		
ENSG00000156575	11	57134242	57158623	47	11	40318	0.48839	0.31264	PRG3		
ENSG00000095002	2	47620108	47799450	575	66	40835	0.48834	0.31265	MSH2		
ENSG00000121764	1	32073287	32108119	80	7	31630	0.48819	0.31271	HCRTR1		
ENSG00000163009	2	10271509	10361851	348	48	40199	0.48813	0.31273	C2orf48		
ENSG00000256407	1	54596897	54675746	237	53	47190	0.48794	0.3128	RP11-446E24.4		
ENSG00000244165	19	10212214	10236048	72	19	51645	0.48786	0.31282	P2RY11		
ENSG00000188112	6	42058856	42120357	262	51	48750	0.48782	0.31284	C6orf132		
ENSG00000071626	19	1397568	1445719	79	20	43509	0.48747	0.31296	DAZAP1		

ENSG00000134326	2	6970701	7016766	47	14	47118	0.4874	0.31299	<i>CMPK2</i>		
ENSG00000142627	1	16440832	16492582	106	25	38924	0.48696	0.31314	<i>EPHA2</i>		
ENSG00000087088	19	49448072	49475055	76	18	46511	0.48695	0.31315	<i>BAX</i>		
ENSG00000187764	9	91965702	92123045	625	92	45784	0.48684	0.31319	<i>SEMA4D</i>		
ENSG00000177464	19	46083022	46115466	70	21	38750	0.48675	0.31322	<i>GPR4</i>		
ENSG00000141720	17	36911942	36966379	133	26	38672	0.48653	0.31329	<i>PIP4K2B</i>		
ENSG00000173451	12	72046789	72084419	48	9	49441	0.48629	0.31338	<i>THAP2</i>		
ENSG00000164038	4	103931025	104016986	155	28	52026	0.4859	0.31352	<i>SLC9B2</i>		
ENSG00000137714	11	110290607	110345605	201	17	46249	0.48578	0.31356	<i>FDX1</i>		
ENSG00000033050	7	150894923	150934316	129	22	52812	0.4855	0.31366	<i>ABCF2</i>		
ENSG00000005156	17	33297513	33342083	42	13	39097	0.48546	0.31368	<i>LIG3</i>		
ENSG00000168824	4	4339867	4430785	391	61	42094	0.48542	0.31369	<i>NSG1</i>		
ENSG00000268457	20	30299001	30319134	25	5	30680	0.4854	0.31369	<i>AL160175.1</i>		
ENSG00000254999	3	10147276	10178874	170	10	48675	0.48534	0.31372	<i>BRK1</i>		
ENSG00000087510	20	55194358	55224339	76	17	49919	0.48531	0.31373	<i>TFAP2C</i>		
ENSG00000133424	22	33548212	34328829	2977	302	47741	0.48513	0.31379	<i>LARGE</i>		
ENSG00000152463	10	15064226	15125851	307	39	48081	0.485	0.31384	<i>OLAH</i>		
ENSG00000168038	3	41278090	42013922	2504	94	39815	0.48493	0.31386	<i>ULK4</i>		
ENSG00000108984	17	67400839	67549472	361	60	44400	0.4849	0.31387	<i>MAP2K6</i>		
ENSG00000109911	11	31521297	31815546	452	26	35045	0.48471	0.31394	<i>ELP4</i>		
ENSG00000196378	8	145988499	146022730	111	13	30027	0.48469	0.31395	<i>ZNF34</i>		
ENSG00000117868	7	158513686	158632944	492	30	34826	0.48448	0.31402	<i>ESYT2</i>		
ENSG00000144357	2	170673968	170950641	1191	47	43437	0.48445	0.31403	<i>UBR3</i>		
ENSG00000107618	10	48371487	48400991	46	18	48533	0.4841	0.31416	<i>RBP3</i>		
ENSG00000169313	3	151045168	151112600	253	36	44568	0.48337	0.31442	<i>P2RY12</i>		
ENSG00000198822	7	86263230	86504200	531	63	42570	0.48334	0.31443	<i>GRM3</i>		
ENSG00000157110	8	30231944	30439778	440	39	49229	0.48333	0.31443	<i>RBPM3</i>		
ENSG00000120937	1	11907521	11928988	84	17	47418	0.48299	0.31455	<i>NPPB</i>		
ENSG00000135346	6	87785216	87814824	103	14	44903	0.48288	0.31459	<i>CGA</i>		
ENSG00000103316	16	21240195	21324404	164	25	42075	0.48258	0.3147	<i>CRYM</i>		
ENSG00000069998	22	17608401	17656177	249	38	44664	0.48253	0.31471	<i>CECR5</i>		
ENSG00000173166	2	204249068	204410133	272	33	33591	0.48251	0.31472	<i>RAPH1</i>		
ENSG00000269237	19	21577961	21684068	388	26	50279	0.4825	0.31472	<i>CTD-2561J22.3</i>		
ENSG00000157184	1	53652101	53689869	72	14	34006	0.48229	0.3148	<i>CPT2</i>		
ENSG00000187838	17	7283046	7317416	94	28	47681	0.48222	0.31482	<i>TMEM256-PLSCR3</i>		
ENSG00000262481	17	7283053	7317416	94	28	47681	0.48222	0.31482	<i>C17orf61-PLSCR3</i>		

ENSG00000187498	13	110791318	110969496	867	139	52005	0.48194	0.31493	COL4A1		
ENSG00000117600	1	99719509	99785146	218	31	41753	0.48176	0.31499	LPPR4		
ENSG00000166595	16	66955959	66978326	26	9	34742	0.48171	0.31501	FAM96B		
ENSG00000004455	1	33463585	33556597	166	19	51746	0.48132	0.31514	AK2		
ENSG00000128815	10	49882921	50201001	1168	118	40963	0.48091	0.31529	WDFY4		
ENSG00000106244	7	98979671	99016452	45	13	46633	0.48085	0.31531	PDAP1		
ENSG00000182070	11	5162239	5217612	343	26	40657	0.48084	0.31532	OR52A1		
ENSG00000174136	5	98094354	98144347	130	24	43125	0.48076	0.31534	RGMB		
ENSG00000128965	15	41235160	41258710	85	13	38734	0.48063	0.31539	CHAC1		
ENSG00000178602	2	241068446	241093979	161	27	49852	0.48059	0.3154	OTOS		
ENSG00000122566	7	26219547	26251149	84	11	52130	0.48042	0.31547	HNRNPA2B1		
ENSG00000181274	10	99082255	99104458	64	10	48399	0.48006	0.31559	FRAT2		
ENSG00000137225	6	44116548	44162139	151	40	45454	0.48003	0.3156	CAPN11		
ENSG00000006607	2	242285658	242444256	473	48	54497	0.47978	0.31569	FARP2		
ENSG00000205581	21	40704241	40731573	105	13	53105	0.47956	0.31577	HMGH1		
ENSG00000100983	20	33506236	33553620	78	11	50835	0.47953	0.31578	GSS		
ENSG00000108883	17	42917311	42987030	238	25	52712	0.47948	0.3158	EFTUD2		
ENSG00000051128	19	19030010	19062070	47	15	38790	0.47944	0.31581	HOMER3		
ENSG00000182973	3	32716637	32825367	510	35	49532	0.47908	0.31594	CNOT10		
ENSG00000183023	2	40314410	40848193	2136	165	39891	0.47886	0.31602	SLC8A1		
ENSG00000138448	2	187444792	187555628	222	27	51465	0.47876	0.31605	ITGAV		
ENSG00000133226	1	24948207	25009758	92	18	48322	0.47873	0.31607	SRRM1		
ENSG00000214447	17	42967135	42992758	98	15	53384	0.47873	0.31607	FAM187A		
ENSG00000203684	1	228341787	228363213	28	9	46317	0.47863	0.3161	IBA57-AS1		
ENSG00000103966	15	42180950	42274776	281	44	45946	0.47863	0.3161	EHD4		
ENSG00000130811	19	10215693	10240596	69	17	50980	0.47862	0.31611	EIF3G		
ENSG00000002587	4	11384774	11441389	211	57	47894	0.47839	0.31619	HS3ST1		
ENSG00000222017	2	198547830	198649547	183	18	53862	0.47831	0.31622	AC011997.1		
ENSG00000205090	1	1460554	1485833	59	19	42753	0.47817	0.31626	TMEM240		
ENSG00000038358	16	67896926	67928406	43	12	48595	0.47812	0.31628	EDC4		
ENSG00000183607	2	69162364	69190102	57	14	41737	0.47765	0.31645	GKN2		
ENSG00000117533	1	171659300	171721387	262	19	47774	0.47753	0.31649	VAMP4		
ENSG00000137834	15	66984566	67084338	307	50	53515	0.47726	0.31659	SMAD6		
ENSG00000136699	2	130898981	130950323	125	10	48689	0.47711	0.31664	SMPD4		
ENSG00000135829	1	182798504	182866886	109	15	35206	0.47696	0.31669	DHX9		
ENSG00000172831	16	66958347	66988999	36	11	38602	0.47695	0.3167	CES2		

ENSG00000054179	9	139932550	139958497	70	15	51658	0.47689	0.31672	ENTPD2		
ENSG00000100612	14	60600838	60646574	128	7	26111	0.47671	0.31678	DHRS7		
ENSG00000112877	5	602387	677283	324	36	48437	0.47656	0.31684	CEP72		
ENSG00000148943	11	27506123	27538320	52	10	35649	0.47629	0.31693	LIN7C		
ENSG00000265303	17	57264927	57302587	83	12	35004	0.4763	0.31693	CTD-2510F5.6		
ENSG00000166225	12	69854129	69983562	318	25	45516	0.4762	0.31696	FRS2		
ENSG00000198842	1	167053282	167108402	213	28	48681	0.47612	0.31699	DUSP27		
ENSG00000171295	19	11915099	11956016	131	8	50508	0.47601	0.31703	ZNF440		
ENSG00000168546	8	21537915	21679869	308	86	43505	0.47495	0.31741	GFRA2		
ENSG00000120160	9	27274656	27307137	139	21	40374	0.4749	0.31743	EQTN		
ENSG00000109063	17	10521843	10570626	170	17	33915	0.47446	0.31759	MYH3		
ENSG00000172331	7	134321560	134374565	218	15	36159	0.47428	0.31765	BPGM		
ENSG00000196482	1	216666588	217321097	2383	241	46090	0.47426	0.31766	ESRRG		
ENSG00000140986	16	1983975	2017607	163	29	46109	0.4741	0.31771	RPL3L		
ENSG00000259511	15	84831242	84860986	19	6	39860	0.47371	0.31785	UBE2Q2L		
ENSG00000120727	5	138667276	138715406	55	14	41147	0.47367	0.31787	PAIP2		
ENSG00000196109	19	22351893	22389753	142	11	44211	0.47355	0.31791	ZNF676		
ENSG00000158480	20	48509928	48542080	105	13	38249	0.47344	0.31795	SPATA2		
ENSG00000143412	1	150944493	150978110	84	18	41997	0.47334	0.31799	ANXA9		
ENSG00000174898	19	5710688	5788745	252	54	44577	0.47333	0.31799	CATSPERD		
ENSG00000185033	15	90693836	90782911	345	41	39152	0.47301	0.3181	SEMA4B		
ENSG00000111196	12	10748612	10776222	101	12	36612	0.473	0.31811	MAGOHB		
ENSG00000032389	2	3182696	3391653	817	63	44178	0.4729	0.31814	TSSC1		
ENSG00000110446	11	60694556	60730002	119	20	41865	0.4728	0.31818	SLC15A3		
ENSG00000163513	3	30637994	30745634	341	61	49922	0.47263	0.31824	TGFR2		
ENSG00000132429	6	105596155	105637870	114	17	36240	0.47248	0.31829	POPDC3		
ENSG00000139719	12	122704111	122761068	119	16	40048	0.47212	0.31842	VPS33A		
ENSG00000228919	4	7930728	7952022	86	12	44718	0.47211	0.31843	AC097381.1		
ENSG00000113569	5	37278239	37381283	193	21	47256	0.47186	0.31851	NUP155		
ENSG00000182866	1	32706840	32761766	73	26	39641	0.47182	0.31853	LCK		
ENSG00000151790	4	156765890	156851558	230	36	47160	0.47182	0.31853	TDO2		
ENSG00000197870	12	11408857	11432739	53	9	32155	0.47173	0.31856	PRB3		
ENSG00000161583	17	34735936	34818104	25	7	23686	0.47172	0.31856	TBC1D3G		
ENSG00000084693	2	27255232	27303490	64	12	40389	0.47132	0.31871	AGBL5		
ENSG00000164761	8	119925796	119974439	180	25	47117	0.47108	0.31879	TNFRSF11B		
ENSG00000163395	1	201149953	201208080	251	46	42564	0.47102	0.31881	IGFN1		

ENSG00000089220	12	118563663	118593389	75	18	49508	0.47098	0.31883	PEBP1		
ENSG00000197914	6	27788952	27809305	49	14	40196	0.47093	0.31885	HIST1H4K		
ENSG00000243480	1	104149999	104178402	9	6	47354	0.47057	0.31897	AMY2A		
ENSG00000122512	7	6002870	6058756	208	30	48586	0.47058	0.31897	PMS2		
ENSG00000180340	17	42624925	42646907	57	17	48413	0.47059	0.31897	FZD2		
ENSG00000113838	3	186253862	186298332	113	12	31027	0.47037	0.31905	TBCCD1		
ENSG00000137819	15	69581286	69710119	307	37	31975	0.47013	0.31913	PAQR5		
ENSG00000219438	22	48875272	49256724	2428	251	45034	0.46992	0.31921	FAM19A5		
ENSG00000134440	18	55257888	55299445	148	23	50929	0.46988	0.31922	NARS		
ENSG00000103241	16	86534133	86558076	113	30	47255	0.46972	0.31928	FOXF1		
ENSG00000151718	4	184010446	184251930	510	70	51440	0.46966	0.3193	WWC2		
ENSG00000131143	16	85822239	85850650	80	14	32800	0.46952	0.31935	COX4I1		
ENSG00000116819	1	36028971	36070929	28	16	37687	0.46944	0.31938	TFAP2E		
ENSG00000136653	1	206670879	206772616	267	46	52481	0.46904	0.31952	RASSF5		
ENSG00000100075	22	19153095	19176343	88	17	42792	0.46904	0.31952	SLC25A1		
ENSG00000188004	1	159794264	159835137	119	35	41041	0.46895	0.31955	C1orf204		
ENSG00000106211	7	75921861	75943612	80	17	40810	0.46893	0.31956	HSPB1		
ENSG00000125898	20	804358	848106	204	50	45962	0.4688	0.3196	FAM110A		
ENSG00000102683	13	23745091	23909304	1179	110	49332	0.46846	0.31973	SGCG		
ENSG00000143321	1	156701899	156746717	117	24	36152	0.46809	0.31986	HDGF		
ENSG00000148156	9	111606871	111629239	124	20	51735	0.46788	0.31994	ACTL7B		
ENSG00000016490	1	86924051	86975972	184	40	51328	0.4676	0.32004	CLCA1		
ENSG00000077809	7	74061994	74185026	168	27	45596	0.46689	0.32029	GTF2I		
ENSG00000171557	4	155515286	155544119	41	9	48629	0.46682	0.32031	FGG		
ENSG00000177300	4	184229220	184251927	60	14	45443	0.46639	0.32047	CLDN22		
ENSG00000267937	21	38878740	38898973	57	13	53677	0.46633	0.32049	AP001421.1		
ENSG00000166455	16	81077102	81120872	186	9	46933	0.4663	0.3205	C16orf46		
ENSG00000075413	14	103841729	103980168	379	21	38478	0.4659	0.32065	MARK3		
ENSG00000237190	5	133727778	133757589	43	7	40384	0.4658	0.32068	CDKN2AIPNL		
ENSG00000196350	19	22459210	22509978	108	19	44578	0.46566	0.32073	ZNF729		
ENSG00000110777	11	111212977	111336355	497	54	40211	0.46562	0.32074	POU2AF1		
ENSG00000162598	1	60442941	60549442	276	52	55017	0.46538	0.32083	C1orf87		
ENSG00000186103	3	121279551	121315481	111	14	46866	0.46531	0.32086	ARGFX		
ENSG00000133250	19	8565462	8589048	117	8	44383	0.46524	0.32088	ZNF414		
ENSG00000159208	1	150244953	150269505	62	10	32774	0.46508	0.32094	C1orf51		
ENSG00000113734	5	172561445	172601390	126	20	42096	0.46502	0.32096	BNIP1		

ENSG00000197753	6	35763070	35811651	152	14	44705	0.46468	0.32108	LHFPL5		
ENSG00000087589	20	54977168	55044396	217	34	34649	0.46451	0.32114	CASS4		
ENSG00000168952	14	25268862	25529503	908	109	44545	0.46436	0.3212	STXBP6		
ENSG00000168615	8	38844388	38972663	292	27	49694	0.46403	0.32131	ADAM9		
ENSG00000136950	9	127614409	127650003	72	12	51807	0.46385	0.32138	ARPC5L		
ENSG00000234188	6	116432320	116453093	57	16	45293	0.46369	0.32144	AL121963.1		
ENSG00000143549	1	154117784	154177124	90	16	45023	0.46354	0.32149	TPM3		
ENSG00000076067	12	56905713	56994745	214	26	43023	0.46348	0.32151	RBMS2		
ENSG00000243073	1	12929045	12956025	20	13	34217	0.46319	0.32161	PRAMEF4		
ENSG00000170775	7	124376051	124415681	98	15	49296	0.46313	0.32164	GPR37		
ENSG00000187753	9	88825180	88884572	136	24	43097	0.46311	0.32164	C9orf153		
ENSG00000138041	2	55764428	55856015	302	33	40455	0.46308	0.32165	SMEK2		
ENSG00000083896	4	69166105	69225807	112	19	52627	0.46289	0.32172	YTHDC1		
ENSG00000147804	8	145625126	145652279	54	19	44850	0.46265	0.32181	SLC39A4		
ENSG00000197121	2	197687728	197802520	227	17	34904	0.46244	0.32188	PGAP1		
ENSG00000173597	4	70576880	70663679	315	33	45493	0.46236	0.32191	SULT1B1		
ENSG00000168878	2	85874437	85905864	59	20	42962	0.46223	0.32196	SFTPB		
ENSG00000164879	8	86275665	86371269	201	26	50553	0.46198	0.32205	CA3		
ENSG00000125462	1	156364042	156410493	67	28	41262	0.4617	0.32215	C1orf61		
ENSG00000243364	1	155026207	155052029	43	11	46155	0.46163	0.32218	EFNA4		
ENSG00000226524	6	88022323	88119459	418	31	48382	0.46157	0.3222	RP1-102H19.8		
ENSG00000270249	7	102171948	102242891	5	3	43125	0.46145	0.32224	RP11-514P8.7		
ENSG00000183207	19	49486705	49529252	129	14	51612	0.46145	0.32224	RUVBL2		
ENSG00000213953	2	187351840	187375393	56	9	54383	0.46142	0.32225	AC018867.1		
ENSG00000139734	13	60229717	60748121	1484	72	49523	0.46116	0.32234	DIAPH3		
ENSG00000125651	19	6369580	6403992	131	17	45518	0.46114	0.32235	GTF2F1		
ENSG00000165202	9	125366948	125388026	109	19	47983	0.4611	0.32236	OR1Q1		
ENSG00000189139	14	44963545	44986482	127	15	45276	0.4611	0.32236	FSCB		
ENSG00000074266	11	85945586	85999855	144	21	51064	0.46101	0.32239	EED		
ENSG00000166793	11	57402560	57427417	35	8	43262	0.46099	0.3224	YPEL4		
ENSG00000228208	1	218673438	218709320	144	10	25858	0.46078	0.32248	C1orf143		
ENSG00000215717	1	109622425	109649556	101	22	45913	0.46041	0.32261	TMEM167B		
ENSG00000151729	4	186054395	186081536	81	15	39033	0.46022	0.32268	SLC25A4		
ENSG00000198853	9	35480124	35571895	166	26	46566	0.45988	0.3228	RUSC2		
ENSG00000187688	17	16308856	16350317	117	18	46022	0.45976	0.32284	TRPV2		
ENSG00000239382	19	36490022	36515141	36	11	35888	0.45969	0.32287	ALKBH6		

ENSG00000121406	19	58028693	58078910	110	14	55663	0.45967	0.32288	ZNF549		
ENSG00000119471	9	115132217	115244690	428	30	53567	0.45962	0.32289	HSDL2		
ENSG00000174899	3	157251035	157405538	526	60	44339	0.45958	0.32291	C3orf55		
ENSG00000166171	10	103320317	103379425	117	15	46498	0.45958	0.32291	DPCD		
ENSG00000069812	1	6462478	6494730	133	17	39780	0.45934	0.323	HES2		
ENSG00000116191	1	178684300	178899238	500	43	43622	0.45926	0.32302	RALGPS2		
ENSG00000132906	1	15807327	15863029	234	14	50307	0.45921	0.32304	CASP9		
ENSG00000143776	1	227167566	227516175	2013	45	51423	0.45913	0.32307	CDC42BPA		
ENSG00000167131	17	42966510	42992758	100	15	53467	0.4591	0.32308	CCDC103		
ENSG00000086062	9	33094080	33177354	342	41	49144	0.45884	0.32318	B4GALT1		
ENSG00000169136	19	50421959	50447192	84	19	39891	0.45876	0.3232	ATF5		
ENSG00000170500	2	100879753	100949195	285	24	37397	0.45872	0.32322	LONRF2		
ENSG00000001561	6	46087730	46124436	131	11	36963	0.45842	0.32333	ENPP4		
ENSG00000158966	1	64926428	65168741	553	101	37156	0.45831	0.32336	CACHD1		
ENSG00000040633	17	7128347	7153041	29	8	55008	0.4583	0.32337	PHF23		
ENSG00000133739	8	86009382	86068311	116	19	45337	0.45818	0.32341	LRRCC1		
ENSG00000162384	1	53669771	53696289	56	12	38133	0.45791	0.32351	C1orf123		
ENSG00000196778	11	4500109	4521138	73	13	48248	0.45785	0.32353	OR52K1		
ENSG00000203883	20	62669076	62690994	58	16	45153	0.45751	0.32365	SOX18		
ENSG00000204396	6	31723367	31755108	78	23	32358	0.45742	0.32369	VWA7		
ENSG00000104361	8	99192061	99316621	313	54	45391	0.45714	0.32379	NIPAL2		
ENSG00000139178	12	7232183	7271869	91	18	48176	0.45711	0.3238	C1RL		
ENSG00000046889	8	68854353	69159265	1100	108	47125	0.457	0.32384	PREX2		
ENSG00000167747	19	51290961	51318186	119	17	48251	0.45662	0.32397	C19orf48		
ENSG00000144771	3	54942264	55011115	206	26	39731	0.45659	0.32398	LRTM1		
ENSG00000222011	7	102379418	102459672	218	34	39623	0.45627	0.3241	FAM185A		
ENSG00000129128	4	177231115	177263396	189	27	47624	0.45618	0.32413	SPCS3		
ENSG00000088002	19	49045332	49112682	332	49	42889	0.45608	0.32417	SULT2B1		
ENSG00000129250	17	4891243	4941696	154	28	43309	0.45603	0.32419	KIF1C		
ENSG00000256715	21	14731931	14755386	134	19	33997	0.45567	0.32431	AL050302.1		
ENSG00000120899	8	27158999	27326903	530	44	46612	0.45555	0.32436	PTK2B		
ENSG00000171873	20	4191329	4239721	167	35	46702	0.45528	0.32445	ADRA1D		
ENSG00000122733	9	34947484	34992541	89	23	41828	0.45524	0.32447	KIAA1045		
ENSG00000213828	2	240073493	240094053	84	11	56253	0.45493	0.32458	AC017028.1		
ENSG00000248511	4	93208402	93235329	37	12	44942	0.45476	0.32464	RP11-9B6.1		
ENSG00000168994	6	3712848	3762260	274	29	36006	0.45476	0.32464	PXDC1		

ENSG00000206432	18	5872071	5905954	107	26	36593	0.45476	0.32464	TMEM200C		
ENSG00000101447	20	37544955	37591703	117	12	54744	0.45461	0.32469	FAM83D		
ENSG00000219626	2	24289396	24402509	442	29	50369	0.45444	0.32476	FAM228B		
ENSG00000131019	6	150374286	150400231	116	18	46196	0.45436	0.32478	ULBP3		
ENSG00000179331	11	107789229	107844208	192	32	44182	0.4543	0.32481	RAB39A		
ENSG00000154764	3	13847755	13931618	300	56	34314	0.45418	0.32485	WNT7A		
ENSG00000143622	1	155857599	155891195	71	11	34751	0.4538	0.32499	RIT1		
ENSG00000132952	13	31181830	31243686	89	13	40199	0.4538	0.32499	USPL1		
ENSG00000197540	19	534034	559919	181	38	40792	0.45372	0.32501	GZMM		
ENSG00000130300	19	17452257	17498159	192	45	42665	0.45357	0.32507	PLVAP		
ENSG00000121904	1	33969609	34641443	1950	228	42458	0.45354	0.32508	CSMD2		
ENSG00000166266	11	107869459	107988503	280	31	49858	0.45352	0.32509	CUL5		
ENSG00000166133	15	40851499	40876659	89	9	33719	0.45341	0.32513	RPUSD2		
ENSG00000153214	2	112802800	112886895	279	41	48756	0.45333	0.32516	TMEM87B		
ENSG00000218416	2	241378732	241406131	129	35	48666	0.45333	0.32516	AC110619.2		
ENSG00000127838	2	219125115	219221516	260	25	46862	0.45313	0.32523	PNKD		
ENSG00000169905	1	179799102	179856938	136	20	49362	0.45303	0.32526	TOR1AIP2		
ENSG00000072756	3	3158600	3202563	195	33	36012	0.45291	0.32531	TRNT1		
ENSG00000010030	6	36312419	36366164	202	41	37338	0.45275	0.32536	ETV7		
ENSG00000166510	18	52558740	52636739	211	25	47706	0.45259	0.32542	CCDC68		
ENSG00000197353	8	143821568	143843952	57	11	46440	0.45252	0.32545	LYPD2		
ENSG00000060069	18	77429801	77524510	399	38	45020	0.45251	0.32545	CTDP1		
ENSG00000137817	15	72523522	72575340	122	19	39566	0.45226	0.32554	PARP6		
ENSG00000163995	4	7957039	8170559	827	176	44608	0.45221	0.32556	ABLIM2		
ENSG00000197345	11	68648744	68681303	87	14	50305	0.45205	0.32562	MRPL21		
ENSG00000082074	5	39095338	39284630	509	67	42512	0.45197	0.32565	FYB		
ENSG00000110344	11	118220300	118279926	116	14	36377	0.45189	0.32567	UBE4A		
ENSG00000181847	3	113985760	114039135	167	32	46545	0.45168	0.32575	TIGIT		
ENSG00000146205	2	242117924	242174792	193	47	37984	0.45152	0.32581	ANO7		
ENSG00000235173	8	145182672	145205746	8	2	40245	0.4512	0.32592	FAM203A		
ENSG00000137601	4	170304426	170543780	626	35	45256	0.45072	0.32609	NEK1		
ENSG00000170290	11	107568104	107600419	87	18	44857	0.45068	0.32611	SLN		
ENSG00000163050	1	227075237	227185246	334	57	43378	0.45062	0.32613	ADCK3		
ENSG00000144034	2	73946231	73974527	62	5	42181	0.45048	0.32618	TPRKB		
ENSG00000110921	12	110001060	110045067	159	20	54684	0.45049	0.32618	MVK		
ENSG00000268797	19	41297202	41414187	460	78	44883	0.45032	0.32624	CTC-490E21.12		

ENSG00000068793	15	22882005	23016016	371	90	45381	0.45022	0.32627	CYFIP1		
ENSG00000271605	17	62451569	62474760	23	5	35565	0.45015	0.3263	MILR1		
ENSG00000188981	4	3236096	3283465	170	19	40270	0.45007	0.32633	MSANTD1		
ENSG00000145864	5	160705436	160986050	792	91	47157	0.44998	0.32636	GABRB2		
ENSG00000143870	2	10913517	10988103	543	37	38713	0.44989	0.3264	PDIA6		
ENSG00000145819	5	142139949	142618576	1080	134	35712	0.44977	0.32644	ARHGAP26		
ENSG00000160633	19	5613046	5678489	141	24	48147	0.44967	0.32647	SAFB		
ENSG00000155269	4	8550452	8631486	399	76	41430	0.44964	0.32648	GPR78		
ENSG00000168303	7	40155622	40184258	38	10	35234	0.44948	0.32654	MPLKIP		
ENSG00000104848	19	49560675	49586198	102	16	47293	0.44945	0.32655	KCNA7		
ENSG00000175216	11	46754598	46877847	222	30	34589	0.44925	0.32662	CKAP5		
ENSG00000076242	3	37024823	37117380	193	17	40140	0.44923	0.32663	MLH1		
ENSG00000139187	12	9092640	9173356	246	19	46175	0.4492	0.32664	KLRG1		
ENSG00000106123	7	142542792	142578847	111	16	29389	0.44912	0.32667	EPHB6		
ENSG00000180869	1	85083913	85110703	81	19	39653	0.44908	0.32669	C1orf180		
ENSG00000268885	5	657759	678839	109	21	46319	0.44903	0.32671	AC026740.1		
ENSG00000171777	19	38889695	38926945	149	28	44645	0.44885	0.32677	RASGRP4		
ENSG00000114686	3	131171056	131231827	133	20	35278	0.44883	0.32678	MRPL3		
ENSG00000205186	8	82360576	82383814	68	10	33925	0.44881	0.32678	FABP9		
ENSG00000120832	12	107361069	107390944	85	22	41772	0.44873	0.32681	MTERFD3		
ENSG00000196535	17	27390528	27517430	301	33	35456	0.44864	0.32685	MYO18A		
ENSG00000187658	5	157088561	157117151	107	18	43225	0.44854	0.32688	C5orf52		
ENSG00000134444	18	59844491	59984355	488	36	50780	0.44817	0.32702	KIAA1468		
ENSG00000139537	12	49287893	49335623	152	10	51687	0.44802	0.32707	CCDC65		
ENSG00000138964	22	44558836	44625413	331	54	47937	0.44788	0.32712	PARVG		
ENSG00000162520	1	33135507	33179197	104	11	37728	0.44778	0.32716	SYNC		
ENSG00000105856	7	106799406	106852974	120	11	53869	0.44765	0.3272	HBP1		
ENSG00000177508	16	54307216	54330675	59	15	47034	0.44755	0.32724	IRX3		
ENSG00000197863	19	37298330	37351689	94	17	42893	0.44735	0.32731	ZNF790		
ENSG00000177025	19	58459805	58495902	133	13	45928	0.44708	0.32741	C19orf18		
ENSG00000129521	14	34383437	34941980	2139	255	44898	0.44693	0.32746	EGLN3		
ENSG00000149328	11	134191768	134258235	200	60	49030	0.44681	0.32751	GLB1L2		
ENSG00000105497	19	52064551	52102991	187	35	38608	0.4467	0.32755	ZNF175		
ENSG00000132000	19	14032000	14074204	56	19	43944	0.44659	0.32759	PODNL1		
ENSG00000267368	7	102267472	102293238	1	1	42811	0.44655	0.3276	UPK3BL		
ENSG00000166965	15	91488100	91516349	101	20	38270	0.44651	0.32761	RCCD1		

ENSG00000152092	1	176816438	177144109	833	102	42175	0.44649	0.32762	ASTN1		
ENSG00000124831	2	238526219	238732325	809	89	39899	0.44545	0.328	LRRFIP1		
ENSG00000269028	3	96325981	96347000	80	12	38245	0.44542	0.32801	MTRNR2L12		
ENSG00000153130	4	141168440	141316880	416	55	41414	0.44487	0.32821	SCOC		
ENSG00000162377	1	53142508	53174038	85	12	44111	0.44461	0.3283	COA7		
ENSG00000117155	1	85099390	85166486	193	24	45773	0.44461	0.3283	SSX2IP		
ENSG00000069696	11	627293	650706	109	21	47472	0.44447	0.32835	DRD4		
ENSG00000121075	17	59519765	59572471	105	22	52616	0.44444	0.32836	TBX4		
ENSG00000163159	1	151132463	151177797	49	15	50001	0.44433	0.3284	VPS72		
ENSG00000185664	12	56337889	56377101	56	19	46294	0.44434	0.3284	PMEL		
ENSG00000152443	19	58248164	58279527	70	12	39461	0.44422	0.32844	ZNF776		
ENSG00000088726	3	12765024	12820956	190	31	36007	0.44404	0.32851	TMEM40		
ENSG00000163755	3	148837371	148901519	235	36	48910	0.444	0.32852	HPS3		
ENSG00000181555	3	47047919	47215457	254	23	43124	0.44392	0.32855	SETD2		
ENSG00000169418	1	153641113	153676468	72	15	38889	0.44369	0.32863	NPR1		
ENSG00000204228	6	33162419	33184608	48	13	51024	0.44344	0.32872	HSD17B8		
ENSG00000105223	19	40844363	40896346	146	32	43151	0.44331	0.32877	PLD3		
ENSG00000215910	1	11811844	11859642	230	22	49143	0.44325	0.32879	C1orf167		
ENSG00000172425	11	118388187	118411912	47	6	26800	0.44318	0.32882	TTC36		
ENSG00000214376	11	93541398	93593697	192	26	28854	0.443	0.32888	VSTM5		
ENSG00000177119	12	45599770	45844187	628	45	28473	0.44294	0.32891	ANO6		
ENSG00000129535	14	24539316	24594223	91	25	38514	0.44247	0.32908	NRL		
ENSG00000197497	19	53652466	53706639	229	36	38072	0.44242	0.32909	ZNF665		
ENSG00000134207	1	114621913	114706541	322	76	50186	0.44224	0.32916	SYT6		
ENSG00000146707	7	76229303	76266578	106	10	40693	0.44224	0.32916	POMZP3		
ENSG00000107201	9	32445300	32536322	260	30	54698	0.44211	0.3292	DDX58		
ENSG00000010319	3	52457069	52489101	40	11	52104	0.4417	0.32935	SEMA3G		
ENSG00000046604	18	29068006	29138971	248	30	42336	0.44158	0.3294	DSG2		
ENSG00000096092	6	52525907	52561386	170	22	48372	0.44145	0.32944	TMEM14A		
ENSG00000159184	17	46792125	46816540	50	15	47175	0.44144	0.32945	HOXB13		
ENSG00000188747	9	140307802	140338858	71	12	52072	0.4414	0.32946	NOXA1		
ENSG00000080845	20	34884258	35167040	317	64	42728	0.4413	0.3295	DLGAP4		
ENSG00000138271	3	151001891	151044740	161	23	54326	0.44126	0.32951	GPR87		
ENSG00000163932	3	53180025	53236733	124	24	40930	0.44109	0.32957	PRKCD		
ENSG00000170266	3	33028100	33148722	406	56	45429	0.44093	0.32963	GLB1		
ENSG00000092445	15	41839873	41881536	104	17	46883	0.44063	0.32974	TYRO3		

ENSG00000176658	17	30809540	31214195	899	96	46831	0.4405	0.32979	MYO1D		
ENSG00000102524	13	108893588	108970832	223	51	48775	0.44041	0.32982	TNFSF13B		
ENSG00000101574	18	2527524	2581508	209	25	42478	0.44027	0.32987	METTL4		
ENSG00000138669	4	81999837	82146218	327	38	39086	0.44021	0.32989	PRKG2		
ENSG00000163040	2	132275248	132301239	86	12	30440	0.43984	0.33003	CCDC74A		
ENSG00000103121	16	80999698	81063875	358	20	35954	0.43973	0.33007	CMC2		
ENSG00000154917	3	133533083	133624680	304	61	42788	0.4396	0.33011	RAB6B		
ENSG00000138036	2	43991178	44047149	227	20	36657	0.43957	0.33012	DYNC2LI1		
ENSG00000162599	1	61320931	61938465	1682	251	46350	0.43937	0.3302	NFIA		
ENSG00000159625	16	57718705	57775717	175	35	35718	0.43895	0.33035	CCDC135		
ENSG00000125449	17	73096047	73136360	124	23	39638	0.43894	0.33035	ARMC7		
ENSG00000169220	5	176774838	176809602	68	13	43500	0.43889	0.33037	RGS14		
ENSG00000080839	20	35614752	35734398	191	28	42134	0.43887	0.33038	RBL1		
ENSG00000189042	19	37168514	37228603	151	15	53883	0.43874	0.33042	ZNF567		
ENSG00000134574	11	47226493	47270767	82	17	43380	0.4383	0.33058	DDB2		
ENSG00000100121	22	22978780	23000368	35	13	33237	0.43771	0.3308	GGTLC2		
ENSG00000215356	8	7773859	7822271	2	1	42688	0.43725	0.33096	ZNF705B		
ENSG00000183520	1	38464930	38500496	59	24	46677	0.43714	0.331	UTP11L		
ENSG00000198730	11	10762534	10811290	130	31	42580	0.43703	0.33104	CTR9		
ENSG00000187566	6	18110718	18132851	96	12	54726	0.43698	0.33106	NHLRC1		
ENSG00000138778	4	104016963	104129566	258	19	53930	0.43694	0.33108	CENPE		
ENSG00000182333	10	90414198	90448571	97	20	43792	0.43675	0.33115	LIPF		
ENSG00000180745	10	129666105	129701211	128	39	50458	0.43663	0.33119	CLRN3		
ENSG00000145632	5	57739809	57766087	137	19	52019	0.43661	0.3312	PLK2		
ENSG00000124205	20	57865482	57911047	97	35	43659	0.43654	0.33122	EDN3		
ENSG00000126549	4	70851647	70878287	59	15	50356	0.43645	0.33126	STATH		
ENSG00000132746	11	67419633	67458671	103	16	34408	0.43638	0.33128	ALDH3B2		
ENSG00000221887	18	61606535	61659008	179	29	43366	0.43639	0.33128	HMSD		
ENSG00000140254	15	45399569	45432136	48	21	41879	0.43631	0.33131	DUOXA1		
ENSG00000140044	14	75884419	75950814	189	37	43108	0.43627	0.33132	JDP2		
ENSG00000118260	2	208384461	208478155	166	15	49179	0.43587	0.33147	CREB1		
ENSG00000152104	1	214512039	214735792	909	108	47716	0.43583	0.33148	PTPN14		
ENSG00000056972	6	111867657	111937481	218	32	38000	0.43581	0.33149	TRAF3IP2		
ENSG00000100083	22	37994481	38039571	118	18	40313	0.43578	0.3315	GGA1		
ENSG00000163618	3	62374022	62871054	2016	195	46366	0.43572	0.33152	CADPS		
ENSG00000187997	17	76132434	76172258	188	43	42558	0.43573	0.33152	C17orf99		

ENSG00000138363	2	216166540	216224487	205	24	43474	0.43545	0.33162	AT1C		
ENSG00000105205	19	40211890	40238668	138	12	47426	0.43538	0.33164	CLC		
ENSG00000162994	2	55391927	55469699	232	29	46193	0.43522	0.3317	CLHC1		
ENSG00000128271	22	24803847	24848328	122	24	40936	0.43515	0.33173	ADORA2A		
ENSG00000239810	1	13042394	13062998	4	2	42884	0.435	0.33178	WI2-3308P17.2		
ENSG00000183251	11	5312244	5333226	106	23	43029	0.43499	0.33179	OR51B4		
ENSG00000132510	17	7733222	7768114	79	20	40735	0.43479	0.33186	KDM6B		
ENSG00000109163	4	68595046	68630078	126	17	48817	0.43467	0.3319	GNRHR		
ENSG00000129173	11	19235610	19273167	72	18	42286	0.43459	0.33193	E2F8		
ENSG00000169851	4	30712037	31158422	1405	113	43581	0.43454	0.33195	PCDH7		
ENSG00000107672	10	123706603	123744732	164	15	49473	0.43451	0.33196	NSMCE4A		
ENSG00000100478	14	31484312	31572818	234	41	48090	0.43448	0.33197	AP4S1		
ENSG00000197993	7	142628201	142669768	116	17	29254	0.43439	0.332	KEL		
ENSG0000012504	12	100857486	100968191	185	40	38948	0.4342	0.33207	NR1H4		
ENSG00000165283	9	35089888	35113154	44	10	42745	0.43397	0.33216	STOML2		
ENSG00000008735	22	51029114	51062409	159	28	40816	0.43376	0.33223	MAPK8IP2		
ENSG00000120215	9	5880802	5920606	90	17	42379	0.43358	0.3323	MLANA		
ENSG00000123200	13	46518600	46636894	288	18	54512	0.43313	0.33246	ZC3H13		
ENSG00000233412	3	97877544	97898485	156	5	48509	0.43273	0.33261	OR5H15		
ENSG00000106302	7	123459037	123527532	141	26	52758	0.43272	0.33261	HYAL4		
ENSG00000161610	17	40326078	40347470	15	9	47514	0.43258	0.33266	HCRT		
ENSG00000135423	12	56854736	56892198	71	16	44436	0.43238	0.33273	GLS2		
ENSG00000227152	1	248594508	248615434	17	10	37429	0.43234	0.33275	OR2T7		
ENSG00000130762	1	3360990	3407677	153	23	44205	0.4323	0.33276	ARHGEF16		
ENSG00000142484	17	4665179	4696506	109	22	42645	0.43232	0.33276	TM4SF5		
ENSG00000115594	2	102671004	102806334	445	58	39910	0.43204	0.33286	IL1R1		
ENSG00000181541	4	151493077	151515843	27	12	44252	0.43175	0.33296	MAB21L2		
ENSG00000187546	7	15229943	15611640	1441	139	45792	0.4317	0.33298	AGMO		
ENSG00000004779	16	23582323	23617677	130	16	49612	0.43121	0.33316	NDUFAB1		
ENSG00000146151	6	55289167	55454012	840	62	51679	0.43108	0.33321	HMGCLL1		
ENSG00000063169	19	48101453	48216533	382	45	51216	0.431	0.33323	GLTSCR1		
ENSG00000184979	22	18622666	18670164	157	28	41941	0.43088	0.33328	USP18		
ENSG00000144191	2	98952618	99025064	245	31	41811	0.43076	0.33332	CNGA3		
ENSG00000244067	6	52604897	52638367	122	15	32669	0.43072	0.33334	GSTA2		
ENSG00000167800	11	67388774	67417031	114	20	36299	0.43067	0.33335	TBX10		
ENSG00000151148	12	109905207	109984507	264	26	50116	0.43054	0.3334	UBE3B		

ENSG00000158008	1	26336375	26372955	73	13	39435	0.43041	0.33345	<i>EXTL1</i>		
ENSG00000258539	10	126295649	126490296	465	57	48524	0.43032	0.33348	<i>RP11-12J10.3</i>		
ENSG00000214226	17	54859274	54926134	201	16	52398	0.43027	0.3335	<i>C17orf67</i>		
ENSG00000213398	16	67963653	67988034	24	7	35955	0.43019	0.33353	<i>LCAT</i>		
ENSG00000047188	5	112839380	112940982	478	30	36566	0.43006	0.33357	<i>YTHDC2</i>		
ENSG00000144591	2	220353589	220381710	60	10	47184	0.43001	0.33359	<i>GMPPA</i>		
ENSG00000106927	9	116812407	116850752	158	30	49772	0.42998	0.3336	<i>AMBP</i>		
ENSG00000153347	5	94717048	94796158	275	38	39949	0.42997	0.33361	<i>FAM81B</i>		
ENSG00000169612	15	83644959	83669809	62	15	48164	0.42983	0.33366	<i>FAM103A1</i>		
ENSG00000218819	2	21336789	21376144	78	14	42794	0.42975	0.33369	<i>TDRD15</i>		
ENSG00000100554	14	67751088	67836982	187	32	44455	0.42971	0.3337	<i>ATP6V1D</i>		
ENSG00000179021	3	88188893	88227879	90	7	31929	0.42961	0.33374	<i>C3orf38</i>		
ENSG00000053918	11	2455914	2880339	1238	217	43435	0.42949	0.33378	<i>KCNQ1</i>		
ENSG00000160505	19	56337944	56403220	310	68	43174	0.42913	0.33391	<i>NLRP4</i>		
ENSG00000155099	8	91996024	92063292	140	21	40335	0.42906	0.33394	<i>TMEM55A</i>		
ENSG00000146378	6	132928161	132955414	143	26	44273	0.42904	0.33395	<i>TAAR2</i>		
ENSG00000081320	2	196988290	197051227	230	19	47001	0.42882	0.33403	<i>STK17B</i>		
ENSG00000255292	11	111947627	112074528	285	40	40840	0.42862	0.3341	<i>SDHD</i>		
ENSG00000198169	8	145936298	145991802	105	21	34979	0.42845	0.33416	<i>ZNF251</i>		
ENSG00000106536	7	39007598	39542694	1765	139	48764	0.42816	0.33427	<i>POU6F2</i>		
ENSG00000129474	14	23430383	23461851	57	11	52205	0.42812	0.33428	<i>AJUBA</i>		
ENSG00000176231	19	16049818	16070768	121	6	36781	0.42806	0.33431	<i>OR10H4</i>		
ENSG00000117362	1	150227804	150251980	31	11	40144	0.42796	0.33434	<i>APH1A</i>		
ENSG00000173862	7	33755593	33778068	56	17	30230	0.42755	0.33449	<i>RP11-89N17.1</i>		
ENSG00000164037	4	103796205	103950896	369	13	46453	0.42751	0.3345	<i>SLC9B1</i>		
ENSG00000215428	9	133264029	133292639	135	37	41361	0.42752	0.3345	<i>AL354898.1</i>		
ENSG00000198855	12	108898962	108929614	90	17	48670	0.42751	0.3345	<i>FICD</i>		
ENSG00000157765	4	25646923	25690370	102	30	39556	0.42733	0.33457	<i>SLC34A2</i>		
ENSG00000149634	20	44505128	44526274	59	10	39539	0.42731	0.33458	<i>SPATA25</i>		
ENSG00000141384	18	23795900	23981649	555	50	39861	0.42719	0.33462	<i>TAF4B</i>		
ENSG00000156219	4	76922337	77043955	780	31	46620	0.42701	0.33469	<i>ART3</i>		
ENSG00000103111	16	77214732	77246302	175	18	39029	0.42696	0.3347	<i>MON1B</i>		
ENSG00000166140	15	41089284	41116767	85	10	40397	0.42657	0.33485	<i>ZFYVE19</i>		
ENSG00000132153	3	47834399	47901685	77	14	38468	0.42629	0.33495	<i>DHX30</i>		
ENSG00000268396	2	239182329	239202498	55	13	51513	0.4258	0.33513	<i>AC012485.1</i>		
ENSG00000130311	19	17410327	17444110	145	17	45850	0.4257	0.33516	<i>DDA1</i>		

ENSG00000133466	22	37566207	37605425	149	21	44790	0.42558	0.33521	<i>C1QTNF6</i>		
ENSG00000152684	5	52073774	52109880	147	16	50910	0.4254	0.33527	<i>PELO</i>		
ENSG00000079739	1	64048947	64135916	279	53	47223	0.42539	0.33528	<i>PGM1</i>		
ENSG00000103423	16	4465806	4516776	132	21	46327	0.42525	0.33533	<i>DNAJA3</i>		
ENSG00000145757	5	94977885	95044415	212	26	48261	0.42502	0.33541	<i>SPATA9</i>		
ENSG00000214946	17	15625561	15659476	80	15	41303	0.42496	0.33543	<i>TBC1D26</i>		
ENSG00000173726	1	235262651	235302251	88	11	50029	0.42471	0.33552	<i>TOMM20</i>		
ENSG00000120889	8	22867646	22936692	218	42	43338	0.42463	0.33555	<i>TNFRSF10B</i>		
ENSG00000204387	6	31792385	31817541	91	30	38740	0.4241	0.33574	<i>C6orf48</i>		
ENSG00000120949	1	12113434	12214264	254	57	46637	0.42404	0.33577	<i>TNFRSF8</i>		
ENSG00000221866	7	131798091	132343447	1712	194	41506	0.42398	0.33579	<i>PLXNA4</i>		
ENSG00000177427	17	18153848	18179866	59	12	55649	0.42337	0.33601	<i>MIEF2</i>		
ENSG00000136731	2	128838774	128963251	368	25	41147	0.42318	0.33608	<i>UGG1</i>		
ENSG00000140945	16	82650408	83840204	7153	496	47460	0.42304	0.33613	<i>CDH13</i>		
ENSG00000168411	16	74645292	74710779	283	26	46867	0.423	0.33615	<i>RFWD3</i>		
ENSG00000167191	16	19858616	19907489	130	23	40186	0.42293	0.33617	<i>GPRC5B</i>		
ENSG00000197586	20	25166329	25217365	167	23	37816	0.42294	0.33617	<i>ENTPD6</i>		
ENSG00000137135	9	35648872	35685863	125	18	44225	0.42289	0.33619	<i>ARHGEF39</i>		
ENSG00000116183	1	176422307	176824735	961	87	48014	0.42281	0.33622	<i>PAPPA2</i>		
ENSG00000169271	5	53741445	53762207	107	18	53166	0.42246	0.33635	<i>HSPB3</i>		
ENSG00000081189	5	88003975	88209922	434	46	42627	0.42152	0.33669	<i>MEF2C</i>		
ENSG00000181873	1	228343516	228379958	65	12	50370	0.42149	0.3367	<i>IBA57</i>		
ENSG00000135355	6	90594188	90615839	76	19	53779	0.42128	0.33678	<i>GJA10</i>		
ENSG00000109667	4	9762777	10066560	1354	68	32939	0.42124	0.33679	<i>SLC2A9</i>		
ENSG00000269526	19	53507174	53529375	39	10	35131	0.42104	0.33686	<i>ERVV-1</i>		
ENSG00000176040	3	111743690	111810116	287	37	46331	0.4208	0.33695	<i>TMPRSS7</i>		
ENSG00000005844	16	30473979	30544506	108	30	37656	0.42042	0.33709	<i>ITGAL</i>		
ENSG00000240224	2	234611638	234691945	335	32	42077	0.42032	0.33713	<i>UGT1A5</i>		
ENSG00000204227	6	33166272	33190499	54	15	52498	0.42031	0.33713	<i>RING1</i>		
ENSG00000138472	3	108616639	108682742	277	38	51180	0.42017	0.33718	<i>GUCA1C</i>		
ENSG00000132541	8	99104572	99139469	141	25	54261	0.41988	0.33729	<i>HRSP12</i>		
ENSG00000214562	10	89107425	89140452	30	12	42123	0.41983	0.33731	<i>NUTM2D</i>		
ENSG00000257962	8	86148524	86172077	44	8	54211	0.41978	0.33732	<i>RP11-219B4.6</i>		
ENSG00000150347	10	63651059	63866703	562	112	51122	0.41947	0.33744	<i>ARID5B</i>		
ENSG00000264116	18	73108967	73140995	100	17	41191	0.4194	0.33746	<i>RP11-321M21.3</i>		
ENSG00000188779	15	68102042	68136899	120	16	38743	0.41921	0.33753	<i>SKOR1</i>		

ENSG00000144785	12	56669700	56719843	96	12	44469	0.4191	0.33757	RP11-977G19.10		
ENSG00000131791	1	146616685	146654129	158	13	39238	0.41894	0.33763	PRKAB2		
ENSG00000206026	18	73111431	73149658	122	16	40217	0.41827	0.33788	SMIM21		
ENSG00000157916	1	2313267	2346883	99	26	41380	0.41795	0.33799	RER1		
ENSG00000125870	20	16700606	16732421	126	32	46753	0.41768	0.33809	SNRPB2		
ENSG00000128833	15	52474519	52597995	251	49	40089	0.41754	0.33814	MYO5C		
ENSG00000143514	1	223957601	224043674	209	22	38558	0.41742	0.33818	TP53BP2		
ENSG00000071677	2	238465217	238485818	126	18	41209	0.41722	0.33826	PRLH		
ENSG00000173209	2	61394553	61428338	88	15	48459	0.417	0.33834	AHSA2		
ENSG00000149646	20	34546512	34628622	139	21	28078	0.41683	0.3384	CNBD2		
ENSG00000078295	5	7386321	7840194	1322	133	45253	0.41666	0.33846	ADCY2		
ENSG00000204850	19	46987765	47009755	106	22	50377	0.41668	0.33846	AC011484.1		
ENSG00000136709	2	128448596	128578761	396	46	44738	0.41613	0.33866	WDR33		
ENSG00000127080	9	95365466	95442547	233	21	42262	0.41544	0.33891	IPPK		
ENSG00000184954	12	55852984	55873922	101	11	55541	0.41526	0.33898	OR6C70		
ENSG00000124596	6	40991366	41075526	203	20	50522	0.41509	0.33904	OARD1		
ENSG00000135845	1	172329329	172423230	255	33	39980	0.415	0.33907	PIGC		
ENSG00000082175	11	100890355	101011255	372	35	45716	0.415	0.33907	PGR		
ENSG00000162069	16	3067683	3096927	85	12	54131	0.41488	0.33912	CCDC64B		
ENSG00000116990	1	40351098	40377928	71	21	49475	0.41483	0.33913	MYCL		
ENSG00000121966	2	136861919	136885735	37	9	37326	0.41474	0.33917	CXCR4		
ENSG00000159648	16	58000339	58032020	96	16	45644	0.41449	0.33926	TEPP		
ENSG00000162735	1	160236602	160266138	49	10	37540	0.41436	0.3393	PEX19		
ENSG00000160789	1	156042364	156119880	196	23	27397	0.41421	0.33936	LMNA		
ENSG00000163507	3	108258716	108318491	123	17	48827	0.41395	0.33946	KIAA1524		
ENSG00000114656	3	128618709	128731533	372	38	36738	0.41391	0.33947	KIAA1257		
ENSG00000140350	15	69060874	69123236	132	24	31340	0.41388	0.33948	ANP32A		
ENSG00000176946	2	242513820	242586864	233	19	45482	0.41382	0.3395	THAP4		
ENSG00000187994	19	39348470	39378919	45	13	37949	0.4136	0.33958	RINL		
ENSG00000237649	6	33349313	33387701	103	20	50925	0.41358	0.33959	KIFC1		
ENSG00000183340	11	96113153	96250738	374	42	53660	0.41347	0.33963	JRKL		
ENSG00000179583	16	10961055	11036079	185	45	44853	0.41345	0.33964	CIITA		
ENSG00000185522	11	544855	570779	158	28	48264	0.41311	0.33976	C11orf35		
ENSG00000141968	19	6762725	6867377	403	64	43455	0.4131	0.33977	VAV1		
ENSG00000186198	15	65327708	65355734	61	12	51663	0.41307	0.33978	SLC51B		
ENSG00000118946	13	58195944	58313445	287	45	49560	0.41278	0.33988	PCDH17		

ENSG00000171960	1	43114096	43152429	81	16	52805	0.41263	0.33994	PPIH		
ENSG00000108821	17	48250650	48288993	95	31	42084	0.41249	0.33999	COL1A1		
ENSG00000169490	8	38836327	38864343	77	8	53822	0.41241	0.34002	TM2D2		
ENSG00000245848	19	33780840	33803470	70	11	51957	0.41228	0.34007	CEBPA		
ENSG00000178645	10	50877697	50928307	182	22	38867	0.41219	0.3401	C10orf53		
ENSG00000269897	10	22595317	22628471	22	12	43093	0.41217	0.34011	COMMD3-BMI1		
ENSG00000124196	20	42344804	42365638	50	18	53775	0.41198	0.34018	GTSF1L		
ENSG00000131409	19	51010149	51081302	168	45	43273	0.41166	0.34029	LRRC4B		
ENSG00000138162	10	123738689	124024060	1234	156	43245	0.41144	0.34038	TACC2		
ENSG00000011600	19	36385303	36409197	65	11	31666	0.4112	0.34046	TYROBP		
ENSG00000155890	3	140386881	140429992	159	21	44848	0.41116	0.34048	TRIM42		
ENSG00000178928	19	48294500	48332308	210	40	47959	0.41077	0.34062	TPRX1		
ENSG00000166685	17	71179129	71214646	144	14	47420	0.41061	0.34068	COG1		
ENSG00000172733	8	30843321	30901231	121	23	35748	0.41046	0.34074	PURG		
ENSG00000160799	3	46953216	47033500	125	17	46756	0.41041	0.34075	CCDC12		
ENSG00000152467	19	58535400	58575999	92	18	47089	0.41037	0.34077	ZSCAN1		
ENSG00000036054	3	99969844	100054095	164	16	46911	0.4102	0.34083	TBC1D23		
ENSG00000144619	3	2130497	3109645	4546	426	45084	0.41018	0.34084	CNTN4		
ENSG00000070915	16	56889119	56959762	316	50	46295	0.41018	0.34084	SLC12A3		
ENSG00000244020	1	237157403	237177718	56	17	42527	0.41013	0.34085	MT1HL1		
ENSG00000166261	11	123584885	123622383	132	12	52157	0.41011	0.34086	ZNF202		
ENSG00000179476	14	45356498	45386460	72	11	30674	0.41005	0.34089	C14orf28		
ENSG00000178199	6	149758794	149816197	188	13	45790	0.40986	0.34096	ZC3H12D		
ENSG00000101198	20	61862136	61914046	302	46	48119	0.40978	0.34098	NKAIN4		
ENSG00000225968	7	1717755	1797590	195	40	49580	0.40976	0.34099	ELFN1		
ENSG00000197601	11	13680217	13763893	212	29	54693	0.40954	0.34107	FAR1		
ENSG00000182327	17	4682254	4703685	64	15	40892	0.40938	0.34113	GLTPD2		
ENSG00000183655	15	86292554	86348261	248	42	46688	0.40913	0.34122	KLHL25		
ENSG00000212768	15	35260552	35282268	60	13	37679	0.40906	0.34125	AC114546.1		
ENSG00000099797	19	14617897	14686792	211	40	49708	0.40904	0.34126	TECR		
ENSG00000173080	1	155901480	155922625	26	6	27860	0.40883	0.34133	RXFP4		
ENSG00000074660	17	1527152	1559041	86	22	49724	0.40877	0.34135	SCARF1		
ENSG00000083828	19	58271023	58341307	207	25	42446	0.40865	0.3414	ZNF586		
ENSG00000081760	12	125539925	125637873	285	50	49600	0.40861	0.34141	AACS		
ENSG00000086300	7	26321541	26423949	343	46	36379	0.4084	0.34149	SNX10		
ENSG00000127337	12	69743483	69794576	222	20	45813	0.40831	0.34152	YEATS4		

ENSG00000137691	11	101908174	101965291	151	14	40296	0.40829	0.34153	<i>C11orf70</i>		
ENSG00000197595	13	113291358	113348811	201	35	49720	0.40828	0.34153	<i>C13orf35</i>		
ENSG00000126264	19	36383382	36405279	61	10	30528	0.4082	0.34156	<i>HCST</i>		
ENSG00000188833	9	140318816	140346268	64	13	51053	0.40812	0.34159	<i>ENTPD8</i>		
ENSG00000255639	12	4756800	4863747	344	40	40401	0.40777	0.34172	<i>RP11-234B24.6</i>		
ENSG00000163001	2	55736740	55783015	139	26	44073	0.40727	0.3419	<i>CCDC104</i>		
ENSG00000135226	4	70136217	70170768	25	8	43668	0.40682	0.34207	<i>UGT2B28</i>		
ENSG00000172350	11	119009722	119043360	65	11	27728	0.40666	0.34213	<i>ABCG4</i>		
ENSG00000100567	14	58701549	58748730	88	16	51292	0.4064	0.34222	<i>PSMA3</i>		
ENSG00000153707	9	8304246	10622723	11142	609	43721	0.40615	0.34231	<i>PTPRD</i>		
ENSG00000117226	1	89462349	89498577	85	12	29465	0.40615	0.34232	<i>GBP3</i>		
ENSG00000078399	7	27192054	27220117	51	17	43114	0.40613	0.34232	<i>HOXA9</i>		
ENSG00000119403	9	123607977	123649606	98	15	48129	0.40587	0.34242	<i>PHF19</i>		
ENSG00000113851	3	3180676	3231394	212	30	36438	0.40568	0.34249	<i>CRBN</i>		
ENSG00000178498	12	57988405	58013587	43	16	43527	0.40568	0.34249	<i>DTX3</i>		
ENSG00000164237	5	10265987	10318138	189	27	24898	0.40553	0.34255	<i>CMBL</i>		
ENSG00000173250	5	145882666	145905753	71	15	41612	0.40544	0.34258	<i>GPR151</i>		
ENSG00000187446	15	41513037	41584043	213	20	33332	0.40525	0.34265	<i>CHP1</i>		
ENSG00000128789	18	12648737	12735739	280	23	38779	0.40503	0.34273	<i>PSMG2</i>		
ENSG00000117528	1	94873933	94994222	158	23	40988	0.40483	0.3428	<i>ABCD3</i>		
ENSG00000116679	1	185255520	185296461	53	14	49314	0.4042	0.34303	<i>IVNS1ABP</i>		
ENSG00000267802	14	52426014	52446247	55	8	31045	0.40399	0.34311	<i>AL358333.1</i>		
ENSG00000101190	20	61462467	61503115	207	27	42877	0.40366	0.34323	<i>TCFL5</i>		
ENSG00000160360	9	139211932	139264057	202	38	51016	0.40347	0.3433	<i>GPSM1</i>		
ENSG00000197857	19	12325501	12415702	238	16	43808	0.4033	0.34336	<i>ZNF44</i>		
ENSG00000163930	3	52425029	52454366	28	8	55014	0.40323	0.34339	<i>BAP1</i>		
ENSG00000131584	1	1217756	1254989	91	25	37877	0.4032	0.3434	<i>ACAP3</i>		
ENSG00000161055	5	180007103	180028540	77	21	48926	0.40317	0.34341	<i>SCGB3A1</i>		
ENSG00000143502	1	223384161	223547544	416	44	42122	0.40314	0.34342	<i>SUSD4</i>		
ENSG00000175854	9	131027658	131061269	77	13	35335	0.40309	0.34344	<i>SWI5</i>		
ENSG00000182795	1	207181866	207216101	61	9	51477	0.4029	0.34351	<i>C1orf116</i>		
ENSG00000175311	16	21234986	21273750	77	27	43439	0.40279	0.34355	<i>ANKS4B</i>		
ENSG00000108018	10	108323421	108934292	1798	191	41010	0.40252	0.34365	<i>SORCS1</i>		
ENSG00000106780	9	123353091	123486748	185	15	42181	0.40222	0.34376	<i>MEGF9</i>		
ENSG00000135773	1	230873130	230947749	355	55	38282	0.40213	0.34379	<i>CAPN9</i>		
ENSG00000196171	1	158659369	158680486	52	10	40084	0.40212	0.3438	<i>OR6K2</i>		

ENSG00000170456	12	31525157	31754031	983	56	47468	0.40203	0.34383	DENND5B		
ENSG00000116584	1	155906630	155986861	128	21	33133	0.40172	0.34395	ARHGEF2		
ENSG00000177225	11	757220	787488	86	17	37670	0.40151	0.34402	PDDC1		
ENSG00000106554	7	132459629	132776848	660	49	48585	0.40137	0.34407	CHCHD3		
ENSG00000116157	1	53058044	53084723	79	13	51043	0.40126	0.34411	GPX7		
ENSG00000142864	1	67863493	67906098	68	13	37660	0.40124	0.34412	SERBP1		
ENSG00000250254	4	37952056	37972746	90	12	41229	0.40102	0.3442	PTTG2		
ENSG00000139531	12	56380964	56410425	49	13	41674	0.40103	0.3442	SUOX		
ENSG00000121274	16	50176829	50279221	231	30	41822	0.4008	0.34428	PAPD5		
ENSG00000163958	3	195914320	195948308	197	34	51546	0.40064	0.34434	ZDHHC19		
ENSG00000143393	1	151254273	151310191	67	14	49100	0.40039	0.34443	PI4KB		
ENSG00000196407	1	151809739	151836173	81	18	37406	0.4004	0.34443	THEM5		
ENSG00000124788	6	16289343	16771722	1555	238	44791	0.40035	0.34445	ATXN1		
ENSG00000129204	17	5009733	5088329	191	26	39778	0.40033	0.34446	USP6		
ENSG00000185775	9	43614507	43640730	5	2	42759	0.40012	0.34454	SPATA31A6		
ENSG00000267981	11	129926836	129954012	121	13	41020	0.40005	0.34456	AP003041.2		
ENSG00000099864	19	698953	758329	279	65	45313	0.39994	0.3446	PALM		
ENSG00000269071	5	138842108	138862506	26	7	36318	0.3999	0.34462	AC138517.1		
ENSG00000170779	14	105465910	105497485	138	11	32754	0.39985	0.34463	CDCA4		
ENSG00000136378	15	79041545	79113773	302	31	42803	0.39944	0.34478	ADAMTS7		
ENSG00000204345	17	72565504	72598422	146	17	40541	0.39944	0.34479	CD300LD		
ENSG00000144057	2	107408056	107513564	368	49	42294	0.39935	0.34482	ST6GAL2		
ENSG00000145192	3	186320712	186349107	103	17	47885	0.39935	0.34482	AHSG		
ENSG00000268925	10	135331026	135352661	78	16	32919	0.39922	0.34486	AL161645.2		
ENSG00000119943	10	100133322	100184941	223	15	30147	0.39907	0.34492	PYROXD2		
ENSG00000161981	16	93010	117669	75	12	47363	0.39904	0.34493	SNRNP25		
ENSG00000154016	17	18913986	18960950	28	14	34037	0.39882	0.34501	GRAP		
ENSG00000165655	10	77147588	77171664	24	14	45082	0.39874	0.34504	ZNF503		
ENSG00000131142	19	8107651	8137534	147	28	48703	0.39874	0.34504	CCL25		
ENSG00000189275	10	133594734	133632535	136	17	55267	0.39859	0.3451	AL450307.1		
ENSG00000184502	17	39858578	39882221	126	13	34956	0.39856	0.34511	GAST		
ENSG00000083123	6	80806364	81065987	845	44	37246	0.39852	0.34512	BCKDHB		
ENSG00000107854	10	93548069	93635033	235	20	45741	0.39853	0.34512	TNKS2		
ENSG00000231500	6	33229787	33254287	87	14	33427	0.39838	0.34518	RPS18		
ENSG00000168016	3	36858311	36996548	328	35	38318	0.39759	0.34547	TRANK1		
ENSG00000134955	11	124922963	124969131	223	42	47094	0.39752	0.34549	SLC37A2		

ENSG00000243207	19	10206899	10235456	79	22	50835	0.39753	0.34549	PPAN-P2RY11		
ENSG00000167920	17	38965358	39002522	118	20	41748	0.3974	0.34554	TMEM99		
ENSG00000138642	4	89289891	89374263	102	35	42642	0.39727	0.34558	HERC6		
ENSG00000164296	5	149362681	149390730	62	10	41163	0.39727	0.34559	TIGD6		
ENSG00000134262	1	114427370	114457823	54	10	35018	0.39713	0.34563	AP4B1		
ENSG00000141449	18	18812203	19115378	375	41	36032	0.39687	0.34573	GREB1L		
ENSG00000185015	8	86122816	86206302	139	15	52884	0.39669	0.3458	CA13		
ENSG00000094804	17	38433885	38469171	39	8	45833	0.3966	0.34583	CDC6		
ENSG00000214670	14	75148879	75189800	61	7	41966	0.39655	0.34585	AC007956.1		
ENSG00000139793	13	97863688	98056374	466	65	42271	0.39651	0.34587	MBNL2		
ENSG00000161996	16	689311	727833	88	15	31049	0.39641	0.3459	WDR90		
ENSG00000118503	6	138178351	138214449	79	14	38482	0.39608	0.34602	TNFAIP3		
ENSG00000172936	3	38169969	38194513	36	8	41476	0.39602	0.34604	MYD88		
ENSG00000085276	3	168791287	169391406	1948	217	44877	0.39597	0.34606	MECOM		
ENSG00000092421	5	115769312	115920630	560	110	45965	0.39593	0.34608	SEMA6A		
ENSG00000183798	20	39978606	40005467	57	13	47152	0.39584	0.34611	EMILIN3		
ENSG00000174738	3	23976751	24032109	211	23	45141	0.39577	0.34614	NR1D2		
ENSG00000153291	6	46610678	46655930	69	15	49163	0.3955	0.34624	SLC25A27		
ENSG00000170373	20	23718190	23741905	178	21	46066	0.39549	0.34624	CST1		
ENSG00000075290	10	102212798	102253501	83	5	54630	0.39533	0.3463	WNT8B		
ENSG00000114503	3	196652273	196679468	90	16	34663	0.39529	0.34631	NCBP2		
ENSG00000146755	7	72716535	72752085	50	15	46714	0.39513	0.34637	TRIM50		
ENSG00000197448	7	142931186	142977947	28	14	54252	0.39509	0.34639	GSTK1		
ENSG00000112304	6	24657263	24715293	205	30	46419	0.39507	0.3464	ACOT13		
ENSG00000163600	2	204791471	204836300	185	29	39995	0.39494	0.34644	ICOS		
ENSG00000103855	15	73966307	74016859	165	25	42526	0.39494	0.34645	CD276		
ENSG00000104371	8	42221586	42244750	49	12	35442	0.39472	0.34652	DKK4		
ENSG00000164930	8	104300661	104355094	207	21	53233	0.39469	0.34653	FZD6		
ENSG00000112851	5	65212303	65388377	240	26	35505	0.39429	0.34668	ERBB2IP		
ENSG00000100413	22	41911808	41950610	84	9	49203	0.39423	0.34671	POLR3H		
ENSG00000215906	1	23269536	23301831	105	19	40040	0.39407	0.34677	LACTBL1		
ENSG00000120256	6	150129934	150196199	135	13	36431	0.39388	0.34683	LRP11		
ENSG00000182963	17	42865816	42918184	139	24	50058	0.39375	0.34688	GJC1		
ENSG00000042781	1	215786236	216606738	2514	248	49192	0.39369	0.34691	USH2A		
ENSG00000161544	17	74513438	74557257	126	25	40687	0.39366	0.34691	CYGB		
ENSG00000091010	5	145708587	145730083	61	11	45251	0.39336	0.34703	POU4F3		

ENSG00000205213	11	27377508	27504322	277	48	41762	0.39327	0.34706	LGR4		
ENSG00000050628	1	71308036	71523491	683	75	49510	0.39317	0.3471	PTGER3		
ENSG00000051009	11	6222565	6265941	99	16	33826	0.39301	0.34715	FAM160A2		
ENSG00000188511	22	49798176	50061190	1103	131	40642	0.39294	0.34718	C22orf34		
ENSG00000144161	2	112959102	113022713	103	16	50317	0.39287	0.34721	ZC3H8		
ENSG00000179627	14	105256933	105281049	52	16	34980	0.39259	0.34731	ZBTB42		
ENSG00000217128	5	130967407	131142710	277	21	34697	0.39248	0.34735	FNIP1		
ENSG00000204661	5	179058545	179082047	76	21	44364	0.39245	0.34736	C5orf60		
ENSG00000127774	17	3562109	3582962	101	15	51777	0.39194	0.34755	EMC6		
ENSG00000269858	19	41294901	41324338	121	24	46828	0.39193	0.34755	EGLN2		
ENSG00000121940	1	109462130	109516111	231	34	46182	0.39188	0.34757	CLCC1		
ENSG00000105613	19	12934765	12995765	145	16	40260	0.39181	0.3476	MAST1		
ENSG00000065413	2	197821741	198185897	1117	98	43248	0.39147	0.34772	ANKRD44		
ENSG00000106077	7	73140424	73163197	57	13	38238	0.3912	0.34783	ABHD11		
ENSG00000154611	18	23703816	23783319	192	18	34342	0.39109	0.34786	PSMA8		
ENSG00000158987	5	130749614	130980929	377	23	36582	0.39093	0.34792	RAPGEF6		
ENSG00000158270	18	309361	510722	987	146	49243	0.39089	0.34794	COLEC12		
ENSG00000187091	3	38038987	38081253	139	26	49031	0.39087	0.34795	PLCD1		
ENSG00000144455	3	3732498	4518965	3341	205	34390	0.39084	0.34796	SUMF1		
ENSG00000269408	9	138140512	138161275	78	32	40554	0.39083	0.34796	AL390778.1		
ENSG00000143303	1	156688234	156716752	57	16	41427	0.39063	0.34803	RRNAD1		
ENSG00000110934	12	51664822	51728452	237	26	45895	0.39035	0.34814	BIN2		
ENSG00000180386	17	39421911	39442949	38	5	26681	0.39032	0.34815	KRTAP9-7		
ENSG00000178694	3	93771760	93857389	82	25	41655	0.39026	0.34817	NSUN3		
ENSG00000118292	1	150230600	150263327	49	12	36182	0.39021	0.34819	C1orf54		
ENSG00000185774	4	20720239	21960422	5071	315	46118	0.39009	0.34824	KCNIP4		
ENSG00000008405	12	107375142	107497607	340	29	42568	0.39005	0.34825	CRY1		
ENSG00000099940	22	21203271	21255506	159	14	53637	0.39005	0.34825	SNAP29		
ENSG00000169299	4	37818255	37874558	254	25	30118	0.38973	0.34837	PGM2		
ENSG00000119718	14	75459614	75486292	52	6	46893	0.38952	0.34845	EIF2B2		
ENSG00000160213	21	45182393	45206326	92	23	42539	0.38951	0.34845	CSTB		
ENSG00000172543	11	65637280	65661212	51	9	33858	0.38911	0.3486	CTSW		
ENSG00000102890	16	67223014	67247932	45	9	32892	0.38893	0.34866	ELMO3		
ENSG00000118162	19	47968401	47997525	39	10	43194	0.38888	0.34868	KPTN		
ENSG00000101333	20	9039410	9471889	1012	114	45994	0.38866	0.34876	PLCB4		
ENSG00000163645	3	150367672	150431758	212	41	40285	0.38835	0.34888	FAM194A		

ENSG00000143398	1	151160425	151232012	107	15	48703	0.38823	0.34892	PIP5K1A		
ENSG00000138029	2	26456038	26523336	125	11	51278	0.38823	0.34892	HADHB		
ENSG00000135976	2	97769233	97940258	86	25	38564	0.38807	0.34898	ANKRD36		
ENSG00000150991	12	125386150	125411914	61	15	43787	0.38806	0.34899	UBC		
ENSG00000120055	10	104199594	104221300	55	19	50031	0.38795	0.34903	C10orf95		
ENSG00000221977	14	22123297	22144238	112	17	50434	0.38776	0.3491	OR4E2		
ENSG00000150269	11	56219945	56240877	74	13	50394	0.38747	0.3492	OR5M9		
ENSG00000187961	1	885967	911095	93	19	38736	0.38731	0.34926	KLHL17		
ENSG00000181004	4	123643857	123676098	81	10	40054	0.38723	0.34929	BBS12		
ENSG00000114923	2	220482049	220516702	49	15	45087	0.38709	0.34935	SLC4A3		
ENSG00000146122	6	39750142	39882648	446	72	43362	0.38703	0.34937	DAAM2		
ENSG00000185668	1	38499523	38522450	57	10	51988	0.38699	0.34938	POU3F1		
ENSG00000110245	11	116690422	116713788	105	20	30879	0.38686	0.34943	APOC3		
ENSG00000087303	14	52461521	52545712	437	47	43828	0.38687	0.34943	NID2		
ENSG00000166278	6	31855562	31923449	208	39	41143	0.38679	0.34946	C2		
ENSG00000181381	4	169267886	169468937	892	99	44803	0.38668	0.34949	DDX60L		
ENSG00000205364	16	56656145	56677898	118	19	40410	0.38644	0.34958	MT1M		
ENSG00000268171	4	57266682	57287131	63	10	51832	0.38629	0.34964	AC068620.1		
ENSG00000132464	4	71484461	71562533	112	24	36398	0.38628	0.34964	ENAM		
ENSG00000205853	22	32745893	32788039	230	34	41016	0.38627	0.34965	RFPL3S		
ENSG00000137628	4	169127444	169249958	383	37	49742	0.38622	0.34967	DDX60		
ENSG00000166579	17	8306449	8403729	192	26	53677	0.386	0.34975	NDEL1		
ENSG00000243543	20	44152835	44178134	50	8	47993	0.38599	0.34975	WFDC6		
ENSG00000165502	14	50075237	50097403	80	9	41246	0.38598	0.34976	RPL36AL		
ENSG00000041982	9	117772806	117890536	397	57	53174	0.3859	0.34979	TNC		
ENSG00000198355	22	50344161	50367728	59	21	43604	0.38583	0.34981	PIM3		
ENSG00000174405	13	108849787	108880716	95	18	50351	0.3858	0.34982	LIG4		
ENSG00000160991	7	102063553	102107268	125	26	48799	0.38577	0.34983	ORAI2		
ENSG00000185088	15	63408071	63460220	189	23	37168	0.38574	0.34985	RPS27L		
ENSG00000184302	14	60965669	60989568	51	8	27574	0.38562	0.34989	SIX6		
ENSG00000136122	13	73292061	73340336	113	26	50395	0.3856	0.3499	BORA		
ENSG00000173641	1	16330523	16356089	151	17	55159	0.38554	0.34992	HSPB7		
ENSG00000066185	1	42886000	42931938	149	14	47598	0.38517	0.35005	ZMYND12		
ENSG00000166897	22	37754000	37833505	325	49	44905	0.38517	0.35006	ELFN2		
ENSG00000146232	6	44215903	44243500	71	21	51892	0.38498	0.35012	NFKBIE		
ENSG00000136159	13	48601703	48631358	101	21	46528	0.38494	0.35014	NUDT15		

ENSG00000114796	3	183343356	183412265	265	7	49817	0.38486	0.35017	KLHL24		
ENSG00000152591	4	88519681	88548062	84	14	44812	0.38484	0.35018	DSPP		
ENSG00000147471	8	37610111	37647283	23	13	55979	0.38455	0.35029	PROSC		
ENSG00000180398	2	47119009	47178994	289	35	37579	0.38449	0.35031	MCFD2		
ENSG00000180532	19	58170303	58200520	88	10	50500	0.38442	0.35033	ZSCAN4		
ENSG00000018408	3	149225022	149464501	838	110	47769	0.38437	0.35035	VWTR1		
ENSG00000205126	11	44059531	44091527	112	19	41075	0.38399	0.35049	ACCSL		
ENSG00000131015	6	150253136	150280371	42	16	38831	0.38367	0.35061	ULBP2		
ENSG00000128573	7	113716382	114343827	1103	102	38199	0.38339	0.35071	FOXP2		
ENSG00000172757	11	65580493	65639497	138	16	29806	0.38341	0.35071	CFL1		
ENSG00000137411	6	30866019	30904236	176	18	41711	0.38326	0.35076	VAR2		
ENSG00000132821	20	36521499	36583752	185	36	44994	0.38263	0.351	VSTM2L		
ENSG00000084674	2	21214301	21276945	120	30	34144	0.38248	0.35105	APOB		
ENSG00000129235	17	6534078	6557861	104	14	42641	0.38214	0.35118	TXNDC17		
ENSG00000185737	10	83625070	84756935	3540	268	42616	0.38193	0.35126	NRG3		
ENSG00000095319	9	131699978	131779375	90	10	42332	0.38163	0.35137	NUP188		
ENSG00000162873	1	205295220	205336218	207	28	52234	0.38144	0.35144	KLHDC8A		
ENSG00000127415	4	970785	1008316	142	33	51758	0.3807	0.35171	IDUA		
ENSG00000253633	8	103530968	103560896	188	28	50691	0.38072	0.35171	KB-1980E6.3		
ENSG00000170191	20	25583571	25614811	97	10	28989	0.38038	0.35183	NANP		
ENSG00000204544	6	30941495	30967680	173	16	50826	0.38034	0.35185	MUC21		
ENSG00000268674	1	16855561	16876070	33	7	44119	0.38018	0.3519	FAM231B		
ENSG00000184922	17	43288811	43334687	111	23	37148	0.38012	0.35193	FMNL1		
ENSG00000206043	18	71973048	72036422	268	22	48427	0.37998	0.35198	C18orf63		
ENSG00000272162	6	10738027	10940656	524	90	48652	0.37973	0.35207	RP11-637O19.3		
ENSG00000099256	10	25127536	25251533	459	63	42384	0.37947	0.35217	PRTFDC1		
ENSG00000111911	6	126267927	126311387	61	5	53591	0.37945	0.35218	HINT3		
ENSG00000240038	1	104086437	104132156	68	22	49797	0.37928	0.35224	AMY2B		
ENSG00000196313	7	72339936	72431979	72	36	43998	0.37919	0.35227	POM121		
ENSG00000114770	3	183627722	183745803	351	32	51882	0.37918	0.35228	ABCC5		
ENSG00000108231	10	95507566	95567916	170	39	44078	0.37908	0.35231	LGI1		
ENSG00000198873	10	120957101	121225131	978	128	43395	0.37894	0.35237	GRK5		
ENSG00000184385	21	43512244	43538644	168	23	49850	0.37887	0.35239	C21orf128		
ENSG00000164893	8	87216281	87343375	392	40	35462	0.37879	0.35242	SLC7A13		
ENSG00000005379	17	56368592	56416152	148	26	53965	0.37871	0.35245	BZRAP1		
ENSG00000158816	1	20607412	20691387	336	43	45193	0.37846	0.35254	VWA5B1		

ENSG00000178568	2	212230446	213413565	4795	280	42765	0.37832	0.3526	ERBB4		
ENSG00000173473	3	47616762	47833596	285	22	37673	0.37817	0.35265	SMARCC1		
ENSG00000138135	10	90955694	90977071	36	12	44655	0.37814	0.35266	CH25H		
ENSG00000224531	6	11084266	11148964	268	30	50483	0.3779	0.35275	SMIM13		
ENSG00000243716	16	22480442	22557842	8	5	43377	0.3779	0.35275	NPIP5		
ENSG00000183684	17	79835713	79859462	29	12	52082	0.37783	0.35278	ALYREF		
ENSG00000148925	11	13399548	13494844	289	22	44513	0.37777	0.3528	BTBD10		
ENSG00000203942	10	99339450	99360690	55	12	48865	0.37762	0.35285	C10orf62		
ENSG00000128951	15	48613208	48645570	51	8	44886	0.37754	0.35289	DUT		
ENSG00000168564	4	184355744	184379351	142	12	30816	0.37744	0.35292	CDKN2AIP		
ENSG00000090530	3	189664517	189850226	768	72	47368	0.37732	0.35297	LEPREL1		
ENSG00000164107	4	174436120	174461380	54	13	53891	0.37732	0.35297	HAND2		
ENSG00000135905	2	225619807	225917162	855	81	43635	0.37716	0.35303	DOCK10		
ENSG00000270999	2	90448201	90468671	1	1	43032	0.37696	0.3531	CH17-132F21.1		
ENSG00000151366	11	77769350	77801265	131	14	53649	0.37694	0.35311	NDUFC2		
ENSG00000133983	14	70781798	70836448	203	24	45217	0.37663	0.35322	COX16		
ENSG00000203908	6	74062400	74083894	67	18	54904	0.37646	0.35329	KHDC3L		
ENSG00000155714	16	21985186	22022433	39	15	44825	0.37638	0.35332	PDZD9		
ENSG00000160801	3	46909236	46955287	93	23	44045	0.37632	0.35334	PTH1R		
ENSG00000141873	19	2722202	2750150	109	19	37650	0.37631	0.35334	SLC39A3		
ENSG00000166262	15	49609159	49923128	1107	51	44127	0.37606	0.35344	FAM227B		
ENSG00000078579	8	16839678	16869690	222	35	45036	0.37602	0.35345	FGF20		
ENSG00000177463	3	14979091	15105107	295	33	53630	0.37588	0.3535	NR2C2		
ENSG00000163638	3	64491333	64683676	491	77	34371	0.3758	0.35353	ADAMTS9		
ENSG00000134287	12	49319506	49361334	146	12	48159	0.37542	0.35367	ARF3		
ENSG00000124257	20	44507264	44529926	60	12	36849	0.37536	0.3537	NEURL2		
ENSG00000107554	10	101625334	101779676	560	42	48599	0.37524	0.35374	DNMBP		
ENSG00000155438	2	122474521	122504499	55	8	26419	0.37508	0.3538	NIFK		
ENSG00000131746	17	38622080	38667849	129	30	45558	0.37506	0.35381	TNS4		
ENSG00000166948	20	2351554	2423399	314	44	38204	0.37494	0.35385	TGM6		
ENSG00000232237	1	201073081	201106312	141	26	42768	0.37482	0.3539	ASCL5		
ENSG00000203837	10	118177379	118247469	197	26	38777	0.37454	0.354	PNLIPRP3		
ENSG00000253313	1	43737554	43761288	55	18	43060	0.37442	0.35404	C1orf210		
ENSG00000089127	12	113334582	113379990	165	7	25937	0.37438	0.35406	OAS1		
ENSG00000170464	5	138734279	138790180	63	9	30399	0.37437	0.35407	DNAJC18		
ENSG00000111344	12	113526624	113584044	248	24	50987	0.37436	0.35407	RASAL1		

ENSG00000104432	8	79577978	79727758	397	37	48553	0.37429	0.3541	<i>IL7</i>		
ENSG00000124766	6	21583972	21608847	28	13	43444	0.37405	0.35418	<i>SOX4</i>		
ENSG00000182187	2	208997297	209020892	106	16	45346	0.37348	0.35439	<i>CRYGB</i>		
ENSG00000138443	2	204182942	204322446	241	32	33074	0.37343	0.35441	<i>ABI2</i>		
ENSG00000109511	4	169003666	169118841	329	39	46844	0.37341	0.35442	<i>ANXA10</i>		
ENSG00000103496	16	31034210	31064296	42	6	22216	0.37336	0.35444	<i>STX4</i>		
ENSG00000171634	17	65811640	65990494	346	21	32274	0.37336	0.35444	<i>BPTF</i>		
ENSG00000257955	12	48403554	48429165	107	18	41355	0.37333	0.35445	<i>RP1-228P16.5</i>		
ENSG00000172638	11	65623912	65651063	65	10	29885	0.3733	0.35446	<i>EFEMP2</i>		
ENSG00000165181	9	114438453	114567288	545	35	42625	0.3731	0.35454	<i>C9orf84</i>		
ENSG00000180329	17	42740437	42777147	63	18	48484	0.37308	0.35455	<i>CCDC43</i>		
ENSG00000204104	2	239219082	239319541	322	28	42143	0.37303	0.35456	<i>TRAF3IP1</i>		
ENSG00000153956	7	81565760	82083114	1780	198	47908	0.37292	0.3546	<i>CACNA2D1</i>		
ENSG00000198711	1	54693710	54714736	58	14	52378	0.3729	0.35461	<i>SSBP3-AS1</i>		
ENSG00000248540	15	74408256	74431619	17	9	43406	0.37283	0.35464	<i>RP11-247C2.2</i>		
ENSG00000138798	4	110824040	110943422	245	27	41803	0.37278	0.35465	<i>EGF</i>		
ENSG00000157060	1	182859000	182932660	135	22	33944	0.37254	0.35475	<i>SHCBP1L</i>		
ENSG00000120903	8	27307279	27347400	153	25	46214	0.37236	0.35481	<i>CHRNA2</i>		
ENSG00000112759	6	44177242	44211888	101	27	50878	0.3723	0.35484	<i>SLC29A1</i>		
ENSG00000137857	15	45412131	45467774	125	23	34331	0.37203	0.35494	<i>DUOX1</i>		
ENSG00000176979	4	165943105	165972896	86	16	38093	0.3719	0.35498	<i>TRIM60</i>		
ENSG00000130653	9	140344404	140454986	210	67	44295	0.37163	0.35508	<i>PNPLA7</i>		
ENSG00000241685	7	98913521	98995787	123	26	39856	0.37159	0.3551	<i>ARPC1A</i>		
ENSG00000140836	16	72806784	73103597	831	163	46491	0.37144	0.35516	<i>ZFHX3</i>		
ENSG00000167601	19	41715108	41777671	170	31	47449	0.37139	0.35517	<i>AXL</i>		
ENSG00000267001	19	2707767	2750046	167	26	38338	0.37135	0.35519	<i>AC006538.4</i>		
ENSG00000152284	2	85350533	85547511	737	103	47784	0.37121	0.35524	<i>TCF7L1</i>		
ENSG00000130701	20	60975293	61012589	168	35	45455	0.37088	0.35536	<i>RBBP8NL</i>		
ENSG00000198483	1	145539230	145578526	61	11	44260	0.3708	0.35539	<i>ANKRD35</i>		
ENSG00000133687	12	29643773	29947692	1276	135	48288	0.37077	0.3554	<i>TMTC1</i>		
ENSG00000198914	2	105461969	105486929	40	13	51220	0.37075	0.35541	<i>POU3F3</i>		
ENSG00000185128	17	36273971	36304915	4	2	35724	0.37054	0.35549	<i>TBC1D3F</i>		
ENSG00000215014	1	1500355	1521373	97	13	40305	0.37046	0.35552	<i>AL645728.1</i>		
ENSG00000100243	22	43003846	43055574	135	21	45171	0.37037	0.35555	<i>CYB5R3</i>		
ENSG00000204366	6	31857384	31879769	73	25	36374	0.37034	0.35556	<i>ZBTB12</i>		
ENSG00000181588	19	1544668	1578057	62	30	41819	0.37033	0.35557	<i>MEX3D</i>		

ENSG00000128595	7	128369346	128421861	150	18	36608	0.37022	0.35561	CALU		
ENSG00000122299	16	11834442	11901123	212	31	38992	0.36994	0.35571	ZC3H7A		
ENSG00000076604	17	27061002	27087974	44	9	46527	0.36994	0.35571	TRAF4		
ENSG00000100994	20	25218705	25288650	265	19	39973	0.36981	0.35576	PYGB		
ENSG00000135452	12	58121796	58153994	44	17	41515	0.36971	0.3558	TSPAN31		
ENSG00000104043	15	50140435	50485014	1193	111	44669	0.36958	0.35585	ATP8B4		
ENSG00000187555	16	8975951	9068371	297	37	45102	0.36948	0.35588	USP7		
ENSG00000198464	19	52790430	52839175	246	33	44082	0.36949	0.35588	ZNF480		
ENSG00000176371	15	85134217	85181027	110	19	41493	0.3694	0.35591	ZSCAN2		
ENSG00000116675	1	65703902	65891552	524	57	39957	0.36917	0.356	DNAJC6		
ENSG00000137404	6	30645824	30669197	100	18	36850	0.36916	0.356	NRM		
ENSG00000145012	3	187861072	188618460	2267	261	44225	0.36909	0.35603	LPP		
ENSG00000143771	1	224534552	224577161	98	17	37831	0.36905	0.35605	CNIH4		
ENSG00000273217	5	130751584	131142676	635	31	35834	0.36894	0.35609	CTC-432M15.3		
ENSG00000183971	16	2049927	2080756	115	20	42444	0.36871	0.35617	NPW		
ENSG00000017427	12	102779645	102884423	181	30	51974	0.3686	0.35621	IGF1		
ENSG00000101306	20	30397111	30432492	87	10	40444	0.36862	0.35621	MYLK2		
ENSG00000181092	3	186550463	186586252	116	29	49421	0.36851	0.35625	ADIPOQ		
ENSG00000204599	6	30284256	30321506	150	26	41178	0.36803	0.35642	TRIM39		
ENSG00000152969	4	6017926	6212318	656	127	44043	0.368	0.35644	JAKMIP1		
ENSG00000104626	8	8849657	8984256	619	58	42381	0.36798	0.35644	ERI1		
ENSG00000174450	15	23674645	23702381	81	9	44853	0.36762	0.35658	GOLGA6L2		
ENSG00000179922	19	56122108	56145967	64	18	49485	0.36743	0.35665	ZNF784		
ENSG00000141096	16	67999566	68024732	42	11	38593	0.36737	0.35667	DPEP3		
ENSG00000205867	11	1608409	1629524	87	15	53655	0.36707	0.35678	KRTAP5-2		
ENSG00000148341	9	131759315	131800582	79	15	36443	0.36704	0.3568	SH3GLB2		
ENSG00000116218	1	179509674	179555087	192	25	44451	0.36688	0.35685	NPHS2		
ENSG00000151692	2	7047523	7218417	586	69	42679	0.36678	0.35689	RNF144A		
ENSG00000183914	17	7610672	7747062	334	57	35218	0.36665	0.35694	DNAH2		
ENSG00000137875	15	52391460	52414972	55	13	46267	0.36659	0.35696	BCL2L10		
ENSG00000161791	12	50021724	50111948	156	16	34641	0.36652	0.35699	FMNL3		
ENSG00000136867	9	115903222	115936417	160	27	46509	0.36649	0.357	SLC31A2		
ENSG00000148303	9	136205069	136228281	66	12	52411	0.36642	0.35702	RPL7A		
ENSG00000268960	18	45768672	45789208	105	22	41469	0.3664	0.35703	AC091150.1		
ENSG00000272822	12	49287286	49361148	250	14	49916	0.36604	0.35717	RP11-302B13.5		
ENSG00000166197	10	103901933	103933627	54	17	35465	0.36598	0.35719	NOLC1		

ENSG00000161091	19	3528259	3584288	169	43	37602	0.36592	0.35721	MFSD12		
ENSG00000229937	7	18056405	18077486	60	13	39250	0.36587	0.35723	PRPS1L1		
ENSG00000136152	13	46029060	46120765	291	23	42086	0.36562	0.35733	COG3		
ENSG00000105520	19	11456062	11486374	51	16	41398	0.36558	0.35734	DKFZP761J1410		
ENSG00000100346	22	39956758	40095742	324	44	40895	0.36557	0.35734	CACNA1I		
ENSG00000176571	8	87868670	88637447	2536	147	48963	0.36528	0.35745	CNBD1		
ENSG00000189060	22	38191114	38213442	64	10	50923	0.36511	0.35752	H1FO		
ENSG00000104064	15	50559389	50657605	297	23	33944	0.36498	0.35756	GABPB1		
ENSG00000107815	10	102737124	102764158	59	8	30225	0.3648	0.35763	C10orf2		
ENSG00000147459	8	25032238	25285598	740	95	38582	0.36465	0.35769	DOCK5		
ENSG00000186047	13	51275144	51428075	450	56	43431	0.36457	0.35772	DLEU7		
ENSG00000175592	11	65649520	65678044	55	14	36188	0.3645	0.35774	FOSL1		
ENSG00000187806	15	72680614	72710370	59	9	50996	0.36444	0.35776	TMEM202		
ENSG00000172840	16	66902492	66939657	77	16	36071	0.36441	0.35778	PDP2		
ENSG00000091542	17	18076392	18123268	112	13	42524	0.36408	0.3579	ALKBH5		
ENSG00000069424	1	6041526	6171253	395	83	49520	0.36401	0.35793	KCNAB2		
ENSG00000110442	11	36285051	36320999	188	21	47291	0.36377	0.35801	COMMD9		
ENSG00000168056	11	65296276	65336401	62	17	51199	0.36379	0.35801	LTBP3		
ENSG00000035141	2	70513107	70539222	53	8	44549	0.36376	0.35802	FAM136A		
ENSG00000011258	17	49244786	49347524	292	25	44550	0.36371	0.35804	MBTD1		
ENSG00000105357	19	50681443	50823802	674	112	46097	0.3637	0.35804	MYH14		
ENSG00000198728	10	103857317	103890210	66	15	45413	0.36348	0.35812	LDB1		
ENSG00000026036	20	62280653	62340037	241	27	37307	0.36312	0.35826	RTEL1-TNFRSF6B		
ENSG00000185467	7	98761197	98815129	257	17	51208	0.36253	0.35848	KPNA7		
ENSG00000135766	1	231489497	231570790	356	11	33053	0.36245	0.35851	EGLN1		
ENSG00000185722	17	4057201	4177274	259	26	38065	0.36241	0.35852	ANKFY1		
ENSG00000130656	16	192686	214502	67	16	39347	0.36237	0.35854	HBZ		
ENSG00000257767	12	112181694	112239222	39	8	50849	0.36234	0.35855	RP11-162P23.2		
ENSG00000108061	10	112669301	112783425	225	31	46595	0.36209	0.35864	SHOC2		
ENSG00000182809	14	105929299	105956499	28	15	35551	0.36196	0.35869	CRIP2		
ENSG00000214050	8	28195804	28357835	278	62	41572	0.36163	0.35881	FBXO16		
ENSG00000042753	19	47331393	47364249	52	24	44931	0.36154	0.35885	AP2S1		
ENSG00000115129	2	24290303	24318731	114	10	54092	0.36147	0.35887	TP53I3		
ENSG00000137878	15	57874106	58016943	575	67	46190	0.36136	0.35892	GCOM1		
ENSG00000148158	9	115503118	115653951	505	41	50253	0.36119	0.35898	SNX30		
ENSG00000187135	19	30007406	30065386	283	45	40341	0.3611	0.35901	VSTM2B		

ENSG00000134569	11	46868419	46950193	147	21	33147	0.36096	0.35907	LRP4		
ENSG00000261514	17	42005731	42026327	61	12	35830	0.36081	0.35912	RP11-527L4.2		
ENSG00000070018	12	12258959	12429946	433	42	49868	0.36024	0.35933	LRP6		
ENSG00000264668	8	144319280	144368573	178	15	34908	0.36007	0.3594	ZFP41		
ENSG00000188647	9	72314438	72384875	147	20	42452	0.35998	0.35943	PTAR1		
ENSG00000267106	19	9721967	9766572	86	12	34809	0.35961	0.35957	C19orf82		
ENSG00000185658	21	40546102	40703485	537	31	47342	0.35955	0.35959	BRWD1		
ENSG00000198074	7	134202344	134236160	166	17	45915	0.35924	0.35971	AKR1B10		
ENSG00000125505	19	54667107	54703733	103	24	46323	0.35898	0.3598	MBOAT7		
ENSG00000153140	5	89678078	89715603	39	12	51380	0.35883	0.35986	CETN3		
ENSG00000172139	3	111849734	112023105	862	34	54005	0.35863	0.35993	SLC9C1		
ENSG00000179776	16	66390533	66448686	185	35	50611	0.35854	0.35997	CDH5		
ENSG00000133808	11	12287627	12390691	503	62	38949	0.35844	0.36001	MICALCL		
ENSG00000151789	3	21449915	22424812	4979	373	46264	0.35835	0.36004	ZNF385D		
ENSG00000186766	10	129525499	129549450	154	17	32174	0.35789	0.36021	FOXI2		
ENSG00000101294	20	30092231	30167370	173	9	26541	0.35769	0.36029	HM13		
ENSG00000104825	19	39380340	39409533	77	16	39469	0.35727	0.36044	NFKB1B		
ENSG00000134285	12	49305301	49330257	90	8	52445	0.35716	0.36049	FKBP11		
ENSG00000255098	8	11860545	11883043	87	17	37448	0.35707	0.36052	RP11-481A20.11		
ENSG00000143627	1	155249630	155281225	52	7	31893	0.35705	0.36053	PKLR		
ENSG00000185262	17	74251283	74277375	83	16	46124	0.35693	0.36057	UBALD2		
ENSG00000105325	19	3496271	3548328	132	23	34330	0.35641	0.36077	FZR1		
ENSG00000150867	10	22813778	23013484	696	69	46217	0.35622	0.36084	PIP4K2A		
ENSG00000163013	2	73471810	73521559	93	23	33717	0.35614	0.36087	FBXO41		
ENSG00000258465	1	160177254	160264920	131	18	36785	0.35612	0.36088	DCAF8		
ENSG00000179468	7	142713245	142734282	44	8	48424	0.35608	0.36089	OR9A2		
ENSG00000205057	12	92803870	92831924	86	17	41288	0.35607	0.36089	CLLU1OS		
ENSG00000163508	3	27747440	27774206	69	16	47315	0.35593	0.36095	EOMES		
ENSG00000197375	5	131695444	131741306	145	15	32900	0.35572	0.36102	SLC22A5		
ENSG00000172006	19	2809872	2845771	135	20	41362	0.3556	0.36107	ZNF554		
ENSG00000182511	15	91416925	91449006	89	17	49416	0.35559	0.36108	FES		
ENSG00000221996	11	4378493	4399616	57	14	45921	0.35555	0.36109	OR52B4		
ENSG00000108641	17	19230867	19291495	49	12	47412	0.35552	0.3611	B9D1		
ENSG00000167236	17	34330096	34355005	107	17	34897	0.35523	0.36121	CCL23		
ENSG00000105618	19	54608837	54645140	130	29	50641	0.35514	0.36124	PRPF31		
ENSG00000100319	22	30116945	30173000	201	25	41718	0.35487	0.36135	ZMAT5		

ENSG00000204592	6	30447244	30471982	88	18	45944	0.35472	0.3614	<i>HLA-E</i>		
ENSG00000149292	11	113175251	113264266	202	28	39684	0.35418	0.3616	<i>TTC12</i>		
ENSG00000226757	4	122675740	122697962	97	16	37935	0.35411	0.36163	<i>AC079341.1</i>		
ENSG00000171570	19	41274147	41324103	190	30	46108	0.35406	0.36165	<i>RAB4B-EGLN2</i>		
ENSG00000025772	20	43560771	43599127	70	18	48092	0.35403	0.36166	<i>TOMM34</i>		
ENSG00000197728	12	56425637	56448116	36	10	44449	0.35386	0.36172	<i>RPS26</i>		
ENSG00000172366	16	681813	708474	62	13	33076	0.35374	0.36177	<i>FAM195A</i>		
ENSG00000196387	12	133646424	133694130	40	8	46129	0.35357	0.36183	<i>ZNF140</i>		
ENSG00000132716	1	160175505	160264920	132	18	36942	0.35328	0.36194	<i>DCAF8</i>		
ENSG00000197961	19	9661029	9705209	153	6	25055	0.35323	0.36196	<i>ZNF121</i>		
ENSG00000168297	3	58308607	58421748	502	32	36236	0.35307	0.36202	<i>PXK</i>		
ENSG00000185551	15	96859167	96893492	43	21	43728	0.35303	0.36203	<i>NR2F2</i>		
ENSG00000124164	20	56954178	57036157	263	27	49144	0.35292	0.36207	<i>VAPB</i>		
ENSG00000171914	15	62672725	63146830	1428	185	44183	0.35268	0.36216	<i>TLN2</i>		
ENSG00000163046	2	132895164	133025542	208	26	23863	0.35262	0.36219	<i>ANKRD30BL</i>		
ENSG00000205078	16	77223294	77257112	210	24	42423	0.35235	0.36229	<i>SYCE1L</i>		
ENSG00000267757	19	46134752	46156098	75	14	53225	0.35221	0.36234	<i>C19orf83</i>		
ENSG00000071564	19	1599291	1662604	120	32	48590	0.35192	0.36245	<i>TCF3</i>		
ENSG00000122592	7	27183335	27207555	62	14	35155	0.35185	0.36248	<i>HOXA7</i>		
ENSG00000242384	17	34571086	34818061	30	10	26886	0.35171	0.36253	<i>TBC1D3H</i>		
ENSG00000254445	11	111773460	111807595	62	12	35819	0.3515	0.36261	<i>HSPB2-C11orf52</i>		
ENSG00000118137	11	116696467	116718666	88	17	28220	0.35149	0.36261	<i>APOA1</i>		
ENSG00000198028	19	9567183	9619283	188	10	37467	0.35145	0.36262	<i>ZNF560</i>		
ENSG00000186579	8	7672694	7696575	2	1	42594	0.35125	0.3627	<i>DEFB106A</i>		
ENSG00000176782	8	7683993	7708764	2	1	42594	0.35125	0.3627	<i>DEFB104A</i>		
ENSG00000138326	10	79783518	79826570	72	18	37653	0.3511	0.36276	<i>RPS24</i>		
ENSG00000137975	1	86879769	86932241	266	27	56061	0.35107	0.36277	<i>CLCA2</i>		
ENSG00000181195	8	57339233	57369293	134	16	49361	0.35084	0.36286	<i>PENK</i>		
ENSG00000119147	2	106669702	106704615	130	31	52350	0.35063	0.36293	<i>C2orf40</i>		
ENSG00000171928	17	18674308	18720027	119	15	49055	0.35058	0.36295	<i>TVP23B</i>		
ENSG00000172155	1	152759227	152780657	56	11	50962	0.3504	0.36302	<i>LCE1D</i>		
ENSG00000139890	14	23342374	23366895	50	12	54179	0.35032	0.36305	<i>REM2</i>		
ENSG00000117862	1	52475803	52531843	108	16	49430	0.35025	0.36307	<i>TXNDC12</i>		
ENSG00000135966	2	105870871	105956491	278	34	43743	0.35026	0.36307	<i>TGFBRAP1</i>		
ENSG00000178996	5	53803589	53852415	231	32	47991	0.35025	0.36308	<i>SNX18</i>		
ENSG00000170581	12	56725381	56763939	54	8	47762	0.35021	0.36309	<i>STAT2</i>		

ENSG00000018280	2	219236752	219271617	72	25	47262	0.35017	0.36311	SLC11A1		
ENSG000000197937	19	53617325	53672328	216	33	37508	0.35004	0.36315	ZNF347		
ENSG000000104755	8	39591254	39705808	275	33	49349	0.35003	0.36316	ADAM2		
ENSG000000124459	19	44406781	44449430	146	15	53397	0.35002	0.36316	ZNF45		
ENSG000000166682	11	113548272	113587095	168	21	44745	0.34983	0.36323	TMPRSS5		
ENSG000000187323	18	49856542	51067784	5236	273	41078	0.34964	0.3633	DCC		
ENSG000000117560	1	172618154	172646014	64	11	45306	0.34959	0.36332	FASLG		
ENSG000000166143	15	41097650	41130907	94	11	40250	0.34956	0.36333	PPP1R14D		
ENSG00000014257	3	132026211	132097142	293	29	53125	0.34954	0.36334	ACPP		
ENSG000000140988	16	2002053	2024861	140	16	51153	0.34941	0.36339	RPS2		
ENSG000000253110	5	171190656	171211743	82	15	51610	0.34934	0.36342	CTB-78H18.1		
ENSG000000101292	20	5272317	5307378	274	16	52817	0.34934	0.36342	PROKR2		
ENSG000000269308	1	808043	829983	21	11	28935	0.34927	0.36344	AL645608.2		
ENSG000000109944	11	122743391	122840506	348	53	49754	0.34921	0.36347	C11orf63		
ENSG000000170142	3	23837394	23942807	265	36	47019	0.34916	0.36349	UBE2E1		
ENSG000000100336	22	36575172	36610886	217	25	35610	0.34911	0.3635	APOL4		
ENSG000000083782	12	91347456	91408803	254	17	31127	0.349	0.36354	EPYC		
ENSG000000135018	9	86264878	86333118	214	17	36924	0.34895	0.36356	UBQLN1		
ENSG000000124780	6	39256777	39292329	165	32	48491	0.34887	0.36359	KCNK17		
ENSG000000143110	1	112006414	112031134	73	22	48857	0.34874	0.36364	C1orf162		
ENSG000000073803	3	184990729	185216885	606	52	39059	0.34875	0.36364	MAP3K13		
ENSG000000073921	11	85658727	85790924	446	34	53066	0.34855	0.36371	PICALM		
ENSG000000132780	1	46039518	46094566	113	9	53582	0.34846	0.36375	NASP		
ENSG000000130402	19	39128289	39232223	346	26	49201	0.34839	0.36377	ACTN4		
ENSG000000096872	9	26937037	27072928	301	42	47866	0.34831	0.3638	IFT74		
ENSG000000085760	2	55453731	55506483	181	28	38906	0.34808	0.36389	MTIF2		
ENSG000000186335	5	150684539	150737151	210	30	37565	0.34806	0.3639	SLC36A2		
ENSG00000011485	19	46840251	46906238	193	34	45147	0.34801	0.36392	PPP5C		
ENSG000000168724	5	34919698	34969069	91	16	50951	0.34782	0.36399	DNAJC21		
ENSG000000185962	1	152585310	152605579	109	8	50412	0.34776	0.36401	LCE3A		
ENSG000000076351	17	26711661	26744215	62	12	42287	0.34772	0.36402	SLC46A1		
ENSG000000176182	19	46383278	46415862	154	26	49456	0.34752	0.3641	MYPOP		
ENSG000000152954	6	24116350	24165128	195	40	38912	0.34736	0.36416	NRSN1		
ENSG000000157111	5	72406119	72437644	81	18	46551	0.3471	0.36426	TMEM171		
ENSG000000089486	16	4550676	4598829	118	14	35975	0.34694	0.36432	CDIP1		
ENSG000000215455	21	45948864	45970078	45	14	44572	0.34688	0.36434	KRTAP10-1		

ENSG00000184752	12	95280831	95407546	717	80	52751	0.34675	0.36439	NDUFA12		
ENSG00000267906	7	16818866	16839246	117	26	46968	0.34667	0.36442	AC073333.1		
ENSG00000169876	7	100653353	100712020	177	31	45285	0.34667	0.36442	MUC17		
ENSG00000163389	3	119177785	119223555	140	21	47269	0.3465	0.36448	POGLUT1		
ENSG00000100767	14	73694205	73751348	163	34	46993	0.3465	0.36448	PAPLN		
ENSG00000151892	10	117806444	118042979	724	110	48593	0.34643	0.36451	GFRA1		
ENSG00000234127	6	30142232	30191204	217	24	43990	0.34634	0.36454	TRIM26		
ENSG00000090470	15	65399717	65436174	39	14	49048	0.3463	0.36456	PDCD7		
ENSG00000006634	7	87495531	87548856	109	16	49628	0.34622	0.36459	DBF4		
ENSG00000130810	19	10206965	10235414	78	21	50774	0.34591	0.36471	PPAN		
ENSG00000185339	22	30992825	31033265	280	37	38749	0.34577	0.36476	TCN2		
ENSG00000114993	2	74642963	74679549	30	9	51028	0.34554	0.36484	RTKN		
ENSG00000255112	18	11841395	11864448	73	13	41101	0.34513	0.365	CHMP1B		
ENSG00000211450	11	57498825	57520986	25	7	45679	0.34509	0.36501	C11orf31		
ENSG00000269179	19	50402758	50471648	232	49	42469	0.34487	0.3651	CTC-326K19.6		
ENSG00000183888	1	16320731	16345302	177	20	55548	0.34469	0.36517	C1orf64		
ENSG00000196547	15	91435448	91475814	97	21	42051	0.34442	0.36526	MAN2A2		
ENSG00000167757	19	51515472	51541295	70	15	44673	0.34439	0.36528	KLK11		
ENSG00000150782	11	112003974	112044840	114	17	43704	0.34412	0.36538	IL18		
ENSG00000180245	4	110739150	110775760	93	10	33790	0.34407	0.3654	RRH		
ENSG00000164318	5	38248511	38475123	632	102	44561	0.34397	0.36543	EGFLAM		
ENSG00000141570	17	77755931	77785482	57	20	46780	0.34399	0.36543	CBX8		
ENSG00000085265	9	137791431	137819809	86	15	50894	0.34372	0.36553	FCN1		
ENSG00000178297	19	2379769	2436237	356	40	40941	0.34372	0.36553	TMPRSS9		
ENSG00000162441	1	9972173	10013465	93	17	38212	0.34351	0.36561	LZIC		
ENSG00000187957	2	230212345	230589274	1443	159	47190	0.34337	0.36566	DNER		
ENSG00000125965	20	34011145	34052568	99	15	29404	0.3429	0.36584	GDF5		
ENSG00000107560	10	119754427	119816114	99	18	49861	0.34269	0.36592	RAB11FIP2		
ENSG00000154040	18	21708942	21751567	108	19	32359	0.34267	0.36592	CABYR		
ENSG00000269000	2	107089728	107113848	83	17	51709	0.34261	0.36595	AC108868.1		
ENSG00000182253	15	99628420	99685798	271	38	50167	0.34254	0.36597	SYNM		
ENSG00000035720	4	68414446	68483055	265	37	38352	0.34232	0.36605	STAP1		
ENSG00000012232	8	28447986	28623116	394	62	46599	0.34233	0.36605	EXTL3		
ENSG00000196911	6	116992350	117073029	163	23	44984	0.34231	0.36606	KPNA5		
ENSG00000150681	1	192117587	192164945	89	16	53250	0.3422	0.3661	RGS18		
ENSG00000118407	6	75991575	76213454	383	31	51992	0.34199	0.36618	FILIP1		

ENSG00000114999	2	113229731	113309316	234	28	46651	0.34196	0.36619	TTL		
ENSG00000172867	12	53028342	53055948	92	18	49780	0.34187	0.36622	KRT2		
ENSG00000115474	2	233621174	233651278	89	14	49660	0.34143	0.36639	KCNJ13		
ENSG00000179010	4	6631818	6654472	76	17	47377	0.34137	0.36641	MRFAP1		
ENSG00000267314	19	5894852	5924718	87	18	52636	0.3413	0.36644	AC104532.2		
ENSG00000173349	2	128448597	128471385	80	18	40258	0.34128	0.36645	SFT2D3		
ENSG00000159433	15	42857857	43023179	244	28	28341	0.34108	0.36652	STARD9		
ENSG00000169169	19	50184155	50226988	107	24	41057	0.34105	0.36653	CPT1C		
ENSG00000188155	21	46001149	46022386	93	11	28608	0.34089	0.36659	KRTAP10-6		
ENSG00000128581	7	100946975	100975104	134	15	52705	0.3408	0.36663	RABL5		
ENSG00000029153	12	27475787	27586241	376	60	50790	0.34073	0.36665	ARNTL2		
ENSG00000175283	9	131697809	131719898	28	5	50142	0.34038	0.36678	DOLK		
ENSG00000165626	10	13470484	13580974	337	39	47328	0.34041	0.36678	BEND7		
ENSG00000145384	4	120228405	120253545	193	11	54842	0.34034	0.3668	FABP2		
ENSG00000148297	9	136195160	136224986	85	14	50269	0.34031	0.36681	MED22		
ENSG00000101276	20	730724	759131	155	37	48071	0.34006	0.36691	SLC52A3		
ENSG00000121207	4	155538097	155684270	274	25	29734	0.33995	0.36695	LRAT		
ENSG00000165861	14	73426159	73503920	365	33	52851	0.33986	0.36698	ZFYVE1		
ENSG00000105221	19	40726224	40801443	173	24	38111	0.33967	0.36705	AKT2		
ENSG00000146433	6	158947468	159066460	455	42	49638	0.33965	0.36706	TMEM181		
ENSG00000229387	11	22636860	22657369	31	10	36765	0.33963	0.36707	AC103801.2		
ENSG00000141424	18	33678495	33719348	132	18	51208	0.33952	0.36711	SLC39A6		
ENSG00000230000	7	62799239	62822151	10	2	47180	0.33944	0.36714	AC006455.1		
ENSG00000133606	7	140142840	140189369	165	14	30503	0.33927	0.3672	MKRN1		
ENSG00000174697	7	127871337	127907681	98	19	43182	0.33924	0.36721	LEP		
ENSG00000149313	11	105936228	105979437	69	13	43054	0.3392	0.36723	AASDHPPT		
ENSG00000172717	14	67646110	67705267	154	26	44904	0.33918	0.36724	FAM71D		
ENSG00000011523	2	65273500	65324138	173	26	51581	0.33902	0.3673	CEP68		
ENSG00000130299	19	17435729	17463544	105	16	45859	0.33884	0.36736	GTPBP3		
ENSG00000112972	5	43279497	43323614	120	8	44609	0.33873	0.36741	HMGCS1		
ENSG00000172113	3	48324754	48353175	73	5	34272	0.33835	0.36755	NME6		
ENSG00000181638	8	144318991	144354875	118	11	34203	0.33835	0.36755	ZFP41		
ENSG00000198576	8	143682405	143706833	84	15	39900	0.33815	0.36763	ARC		
ENSG00000143669	1	235814341	236056940	356	29	38216	0.33807	0.36765	LYST		
ENSG00000069966	15	52403117	52493566	262	29	50039	0.33795	0.3677	GNB5		
ENSG00000257115	14	19367522	19388606	3	1	43467	0.33788	0.36773	OR11H12		

ENSG00000180383	20	30043309	30074560	67	15	39612	0.33784	0.36774	DEFB124		
ENSG00000100092	22	38020661	38072939	179	27	44411	0.3378	0.36776	SH3BP1		
ENSG00000011243	19	15480859	15539952	105	11	51874	0.33745	0.36789	AKAP8L		
ENSG00000005059	4	110471361	110619874	438	41	48735	0.33728	0.36795	CCDC109B		
ENSG00000113520	5	131999678	132028368	46	10	31797	0.3373	0.36795	IL4		
ENSG00000183086	7	74369083	74448803	18	10	34420	0.33721	0.36798	GATSL1		
ENSG00000143632	1	229556992	229579845	62	16	37331	0.33713	0.36801	ACTA1		
ENSG00000116005	2	70474518	70518323	102	8	48827	0.33706	0.36804	PCYOX1		
ENSG00000112818	6	46751127	46817515	176	20	50991	0.33675	0.36815	MEP1A		
ENSG00000197177	10	134874433	134955179	409	68	44061	0.33675	0.36815	GPR123		
ENSG00000189091	16	70547691	70618820	118	14	36929	0.33675	0.36815	SF3B3		
ENSG00000144659	3	39414839	39448842	148	15	52146	0.3367	0.36817	SLC25A38		
ENSG00000177302	17	18164742	18228321	173	17	48422	0.33661	0.3682	TOP3A		
ENSG00000137078	9	35639292	35660937	100	17	43895	0.33622	0.36835	SIT1		
ENSG00000090674	19	7577512	7608895	73	22	53233	0.33612	0.36839	MCOLN1		
ENSG00000178301	11	77290436	77331400	104	11	44382	0.33604	0.36842	AQP11		
ENSG00000072110	14	69330860	69456157	493	85	47603	0.33602	0.36843	ACTN1		
ENSG00000111615	12	75880684	75915416	100	12	52235	0.33593	0.36846	KRR1		
ENSG00000132305	2	86361055	86432893	239	16	43128	0.33591	0.36847	IMMT		
ENSG00000143498	1	222721244	222773275	140	20	45309	0.33549	0.36863	TAF1A		
ENSG00000111850	6	88022301	88062043	195	16	47449	0.33513	0.36876	SMIM8		
ENSG00000157890	15	66177417	66556085	1263	171	45738	0.33472	0.36892	MEGF11		
ENSG00000139697	12	123763656	123859390	405	23	52225	0.33469	0.36893	SBNO1		
ENSG00000115020	2	209120991	209233475	365	26	32780	0.33448	0.36901	PIKFYVE		
ENSG00000141293	17	46200802	46517637	825	57	44693	0.33445	0.36902	SKAP1		
ENSG00000179921	2	219114219	219138582	44	8	42626	0.33415	0.36913	GPBAR1		
ENSG00000137880	15	41046218	41069906	48	16	43817	0.33415	0.36913	GCHFR		
ENSG00000168676	16	67313331	67370666	65	21	46197	0.33416	0.36913	KCTD19		
ENSG00000088325	20	30317074	30399608	159	16	36386	0.33406	0.36917	TPX2		
ENSG00000133030	17	16935859	17130993	524	48	39287	0.33377	0.36928	MPRIIP		
ENSG00000261915	17	7205980	7232493	62	13	48604	0.33357	0.36935	RP11-542C16.2		
ENSG00000174453	2	215265789	215453683	591	60	44981	0.33353	0.36937	VWC2L		
ENSG00000095794	10	35405719	35511886	270	12	53263	0.33332	0.36945	CREM		
ENSG00000152556	12	48488922	48550187	173	22	46720	0.33325	0.36947	PFKM		
ENSG00000176731	8	86116311	86142650	38	7	51259	0.33322	0.36948	C8orf59		
ENSG00000181666	19	37793739	37870267	175	23	35474	0.33322	0.36948	HKR1		

ENSG00000267680	19	44588492	44622479	98	11	22398	0.33315	0.36951	ZNF224		
ENSG00000139668	13	52148644	52346171	289	39	51297	0.33306	0.36954	WDFY2		
ENSG00000105355	19	4828353	4877780	214	41	50683	0.33307	0.36954	PLIN3		
ENSG00000116703	1	186402698	186440254	76	10	46642	0.33272	0.36967	PDC		
ENSG00000115762	2	131852420	132121282	423	27	31148	0.33256	0.36973	PLEKHB2		
ENSG00000188897	16	11443702	11627444	1100	122	45118	0.33232	0.36982	CTD-3088G3.8		
ENSG00000175470	10	133737955	133783331	142	13	54092	0.33226	0.36985	PPP2R2D		
ENSG00000040933	2	99051317	99220853	293	17	54948	0.33218	0.36988	INPP4A		
ENSG00000105855	7	20360325	20465377	423	42	47277	0.33199	0.36995	ITGB8		
ENSG00000102452	13	101696130	102078843	1587	138	44796	0.332	0.36995	NALCN		
ENSG00000109743	4	15694573	15749936	183	33	43225	0.33168	0.37006	BST1		
ENSG00000117632	1	26200672	26243482	68	9	42591	0.33167	0.37007	STMN1		
ENSG00000020181	8	37631709	37712414	138	39	46276	0.33144	0.37016	GPR124		
ENSG00000244474	2	234617424	234691945	316	31	42066	0.33096	0.37034	UGT1A4		
ENSG00000186326	19	33156313	33179206	106	21	37736	0.33096	0.37034	RGS9BP		
ENSG00000203286	9	3442305	3479181	63	18	38359	0.33089	0.37036	AL365202.1		
ENSG00000100815	14	92422335	92517240	283	26	50434	0.3309	0.37036	TRIP11		
ENSG00000104131	15	44819255	44865227	77	12	35315	0.33046	0.37053	EIF3J		
ENSG00000102554	13	73619114	73661676	163	33	37119	0.33034	0.37057	KLF5		
ENSG00000121064	17	55045466	55094129	83	17	49646	0.33021	0.37062	SCPEP1		
ENSG00000168995	19	51635556	51666783	34	19	41934	0.32986	0.37075	SIGLEC7		
ENSG00000198046	19	56940694	56999434	155	20	46843	0.32983	0.37076	ZNF667		
ENSG00000104853	19	45447842	45506599	221	19	47793	0.32974	0.3708	CLPTM1		
ENSG00000171540	5	76914538	76945513	78	14	49693	0.32969	0.37082	OTP		
ENSG00000065989	19	10517449	10590305	170	26	50245	0.32966	0.37083	PDE4A		
ENSG00000163207	1	152871021	152894362	32	13	43863	0.32963	0.37084	IVL		
ENSG00000214113	6	5092827	5271172	719	68	40677	0.32934	0.37095	LYRM4		
ENSG00000187151	11	101751405	101797253	133	25	41443	0.32933	0.37095	ANGPTL5		
ENSG00000118849	3	158404681	158460485	210	22	52820	0.32914	0.37102	RARRES1		
ENSG00000115593	2	88357299	88422906	235	41	45749	0.32913	0.37103	SMYD1		
ENSG00000165410	14	35169593	35194029	105	17	31337	0.3291	0.37104	CFL2		
ENSG00000144589	2	220452582	220491173	40	23	47880	0.32884	0.37114	STK11IP		
ENSG00000139644	12	50091508	50168717	243	19	32709	0.32885	0.37114	TMBIM6		
ENSG00000100979	20	44517399	44550794	84	22	42086	0.32883	0.37114	PLTP		
ENSG00000197785	1	1437531	1480067	110	30	41531	0.32876	0.37117	ATAD3A		
ENSG00000203737	1	174407212	174428683	46	10	40165	0.32874	0.37117	GPR52		

ENSG00000079974	22	51195929	51232091	57	12	47090	0.32865	0.37121	RABL2B		
ENSG00000132130	17	35284084	35311917	56	14	31186	0.32856	0.37124	LHX1		
ENSG00000121957	1	109407972	109487167	255	31	44890	0.32851	0.37126	GPSP2		
ENSG00000181652	7	150699297	150731586	88	29	51216	0.32846	0.37128	ATG9B		
ENSG00000121297	19	31755851	31850453	219	52	42256	0.32781	0.37153	TSHZ3		
ENSG00000165506	14	50081892	50111948	92	9	36305	0.32761	0.3716	DNAAF2		
ENSG00000126001	20	34032985	34109804	144	13	31490	0.32717	0.37177	CEP250		
ENSG00000135249	7	105162532	105218124	202	13	26655	0.32693	0.37186	RINT1		
ENSG00000160796	3	47011173	47061193	83	15	44570	0.32677	0.37192	NBEAL2		
ENSG00000102900	16	56754017	56888797	350	41	52810	0.32654	0.37201	NUP93		
ENSG00000125813	20	21676297	21706620	43	18	43225	0.32655	0.37201	PAX1		
ENSG00000171357	1	46659006	46696933	53	13	46702	0.32641	0.37206	LURAP1		
ENSG00000148773	10	129884923	129934649	231	33	53948	0.32624	0.37212	MKI67		
ENSG00000132382	17	4432192	4468926	128	49	45116	0.32625	0.37212	MYBBP1A		
ENSG00000204398	13	112230548	112334955	415	55	45618	0.32603	0.3722	RP11-65D24.2		
ENSG00000131042	19	54767675	54795039	112	24	34893	0.32588	0.37226	LILRB2		
ENSG00000101134	20	53082136	53277710	552	60	38475	0.3258	0.37229	DOK5		
ENSG00000112787	12	133056137	133171774	565	66	47520	0.3256	0.37236	FBRSL1		
ENSG00000184530	6	127830600	127922962	383	34	32091	0.32539	0.37244	C6orf58		
ENSG00000198920	17	6471468	6554247	295	24	39289	0.32538	0.37245	KIAA0753		
ENSG00000141378	17	57741997	57794987	74	15	42523	0.32537	0.37245	PTRH2		
ENSG00000001167	6	41030684	41077715	104	16	48336	0.32535	0.37246	NFYA		
ENSG00000120693	13	37408968	37504902	239	43	39685	0.32535	0.37246	SMAD9		
ENSG00000151461	10	11952021	12095169	544	40	48956	0.32502	0.37258	UPF2		
ENSG00000187123	2	150176499	150340662	368	43	41082	0.32462	0.37273	LYPD6		
ENSG00000180902	2	242663994	242718231	211	36	37724	0.32461	0.37274	D2HGDH		
ENSG00000198087	6	47435525	47604999	486	24	52945	0.32458	0.37275	CD2AP		
ENSG00000138614	15	65861091	65913627	111	10	45732	0.32448	0.37279	VWA9		
ENSG00000154165	3	98240743	98261960	52	15	45822	0.32438	0.37283	GPR15		
ENSG00000171282	17	79363540	79443357	246	59	44314	0.32392	0.373	RP11-1055B8.7		
ENSG00000127184	5	85903721	85926779	27	14	43242	0.3238	0.37304	COX7C		
ENSG00000206107	21	31699331	31720012	108	14	34834	0.32378	0.37305	KRTAP27-1		
ENSG00000110203	11	71815915	71860936	170	22	38087	0.32365	0.3731	FOLR3		
ENSG00000162496	1	12617939	12687737	292	51	48757	0.32351	0.37316	DHRS3		
ENSG00000101624	18	12651832	12712776	200	18	38477	0.3234	0.3732	CEP76		
ENSG00000130347	6	107008903	107087373	348	24	43930	0.32327	0.37325	RTN4IP1		

ENSG00000113594	5	38465065	38618456	273	40	46032	0.32305	0.37333	LIFR		
ENSG00000156284	21	31576324	31598391	68	21	43258	0.32306	0.37333	CLDN8		
ENSG00000186146	4	9436260	9462240	66	16	45308	0.32296	0.37336	DEFB131		
ENSG00000165799	14	21500385	21522393	79	31	46243	0.32294	0.37337	RNASE7		
ENSG00000164346	5	74052817	74082737	70	11	43711	0.3228	0.37342	NSA2		
ENSG00000050438	12	51775101	51912980	345	32	52784	0.32273	0.37345	SLC4A8		
ENSG00000103512	16	14917538	15000017	49	28	35972	0.32267	0.37347	NOMO1		
ENSG00000133789	11	9675624	9784538	384	24	42483	0.3221	0.37369	SWAP70		
ENSG00000268941	20	57199828	57220772	69	13	36457	0.32199	0.37373	MGC4294		
ENSG00000162931	1	228585641	228614562	56	13	42105	0.32195	0.37374	TRIM17		
ENSG00000143630	1	155237374	155269639	54	6	30662	0.32194	0.37375	HCN3		
ENSG00000196693	10	43074555	43143992	192	23	36081	0.3218	0.3738	ZNF33B		
ENSG00000095370	9	130490596	130551020	149	26	37463	0.32176	0.37382	SH2D3C		
ENSG00000165312	10	23718198	23741308	34	10	38413	0.32172	0.37383	OTUD1		
ENSG00000056097	5	32344456	32454867	352	33	52150	0.32136	0.37397	ZFR		
ENSG00000005448	2	74638805	74662882	24	7	48795	0.32129	0.37399	WDR54		
ENSG00000171481	9	125427315	125448432	55	12	46638	0.32129	0.37399	OR1L3		
ENSG00000117399	1	43814626	43838874	36	10	45670	0.32126	0.37401	CDC20		
ENSG00000144035	2	73857959	73879520	90	8	45619	0.32117	0.37404	NAT8		
ENSG00000205208	4	159577831	159603407	19	7	40344	0.32103	0.37409	C4orf46		
ENSG00000164031	4	100807405	100877883	139	21	42259	0.32098	0.37411	DNAJB14		
ENSG00000186074	17	72680452	72719117	89	24	40965	0.32089	0.37415	CD300LF		
ENSG00000142186	11	65282548	65316175	44	14	54789	0.32082	0.37417	SCYL1		
ENSG00000257019	9	107356924	107377951	152	9	25884	0.32064	0.37424	OR13C2		
ENSG00000151320	14	32788479	33310567	1755	209	38782	0.32033	0.37436	AKAP6		
ENSG00000125810	20	23049986	23076977	55	11	48344	0.32031	0.37437	CD93		
ENSG00000074370	17	3817169	3877736	231	33	44205	0.32023	0.3744	ATP2A3		
ENSG00000084110	12	96356440	96400143	220	34	44509	0.3201	0.37445	HAL		
ENSG00000100234	22	33187687	33269030	214	38	47067	0.32009	0.37445	TIMP3		
ENSG00000164398	5	131132683	131357936	406	27	35465	0.31985	0.37454	ACSL6		
ENSG00000119547	18	55092917	55168529	226	35	37081	0.31975	0.37458	ONECUT2		
ENSG00000156162	8	95721931	95816064	324	39	45393	0.31959	0.37464	DPY19L4		
ENSG00000170989	1	101692444	101717074	48	17	44905	0.31957	0.37465	S1PR1		
ENSG00000188613	10	120779228	120803854	37	9	34959	0.319	0.37486	NANOS1		
ENSG00000061936	12	132185626	132294282	278	31	30434	0.31901	0.37486	SFSWAP		
ENSG00000104814	19	39068281	39119522	101	19	35551	0.319	0.37486	MAP4K1		

ENSG00000268509	3	5219227	5239982	39	14	38961	0.31892	0.37489	AC026202.1		
ENSG00000083457	17	3607922	3714537	408	55	40834	0.31872	0.37497	ITGAE		
ENSG00000150593	10	112621565	112669764	105	21	48441	0.31865	0.375	PDCD4		
ENSG00000007384	16	98058	136354	108	18	39126	0.3186	0.37502	RHBDF1		
ENSG00000139517	13	28110050	28204541	342	38	51674	0.31855	0.37503	LNK2		
ENSG00000183876	5	149665906	149728870	145	32	53148	0.31854	0.37504	ARSI		
ENSG00000178607	17	62106502	62218179	218	38	43687	0.31843	0.37508	ERN1		
ENSG00000183856	1	156485197	156552396	174	23	30044	0.31836	0.37511	IQGAP3		
ENSG00000149179	11	46948240	47195936	382	36	46952	0.31808	0.37521	C11orf49		
ENSG00000165280	9	35046061	35083246	70	13	43899	0.31807	0.37522	VCP		
ENSG00000124701	6	41011043	41042250	89	8	52321	0.31797	0.37525	APOBEC2		
ENSG00000129460	14	23928897	23989071	170	23	35054	0.31795	0.37526	NGDN		
ENSG00000108700	17	32636055	32658421	85	9	51867	0.31784	0.3753	CCL8		
ENSG00000198492	1	29053133	29106287	104	12	41891	0.31762	0.37539	YTHDF2		
ENSG00000125482	9	135241008	135292209	111	20	32308	0.31748	0.37544	TTF1		
ENSG00000143919	2	44579089	45009731	1146	61	44149	0.31738	0.37548	CAMKMT		
ENSG00000138613	15	63558217	63611325	141	31	41310	0.31713	0.37557	APH1B		
ENSG00000102466	13	102362134	103064124	2077	186	42209	0.31706	0.3756	FGF14		
ENSG00000205076	19	39251611	39274132	99	15	45173	0.31644	0.37583	LGALS7		
ENSG00000162783	1	181047638	181069977	55	13	50334	0.31644	0.37584	IER5		
ENSG00000135144	12	113484514	113545833	259	41	44776	0.31642	0.37584	DTX1		
ENSG00000204918	13	57711622	57734643	8	4	49992	0.31639	0.37585	PRR20B		
ENSG00000221931	11	123614196	123635253	77	12	40815	0.31638	0.37586	OR6X1		
ENSG00000185946	1	104058313	104107861	81	21	50939	0.31606	0.37598	RNPC3		
ENSG00000166908	12	57974957	58007198	64	16	37647	0.31604	0.37599	PIP4K2C		
ENSG00000143127	1	145514891	145553868	32	8	44256	0.31578	0.37609	ITGA10		
ENSG00000129696	8	33320904	33381119	230	17	49484	0.31551	0.37619	TTI2		
ENSG00000160886	8	143771529	143796545	78	9	46109	0.31546	0.37621	LY6K		
ENSG00000162779	1	179324855	179533870	1365	43	52929	0.31533	0.37626	AXDND1		
ENSG00000169184	22	28134265	28207486	180	67	46623	0.31532	0.37626	MN1		
ENSG00000088320	20	30053096	30082708	55	12	37746	0.31524	0.37629	REM1		
ENSG00000101197	20	61857235	61881859	144	22	52208	0.31515	0.37633	BIRC7		
ENSG00000258366	20	62279163	62338416	240	27	37353	0.31507	0.37635	RTEL1		
ENSG00000240184	5	140845580	140902542	159	29	46336	0.31494	0.3764	PCDHGC3		
ENSG00000157315	16	69367151	69395712	55	15	54315	0.31489	0.37642	TMED6		
ENSG00000120647	12	488439	561811	209	46	45795	0.31486	0.37643	CCDC77		

ENSG00000224153	3	184109325	184167436	255	43	45648	0.31473	0.37648	RP11-433C9.2		
ENSG00000119684	14	75470467	75528235	107	9	47496	0.31474	0.37648	MLH3		
ENSG00000134825	11	61525973	61570274	68	16	29862	0.31472	0.37649	TMEM258		
ENSG00000261857	19	41267553	41293395	88	15	43060	0.31453	0.37656	MIA		
ENSG00000165762	14	20334391	20355468	14	7	43473	0.31448	0.37658	OR4K2		
ENSG00000137269	6	53649295	53798919	444	33	51380	0.3142	0.37668	LRRC1		
ENSG00000143167	1	167012073	167069868	206	35	49417	0.31414	0.37671	GPA33		
ENSG00000127191	9	139766364	139831059	207	12	54492	0.31404	0.37675	TRAF2		
ENSG00000267908	19	56741773	56768863	160	37	46586	0.31402	0.37675	ZSCAN5D		
ENSG00000176697	11	27666440	27753605	168	25	41805	0.31368	0.37688	BDNF		
ENSG00000205021	17	34613842	34635731	3	2	42925	0.31359	0.37692	CCL3L1		
ENSG00000143033	1	93534792	93614638	148	18	39182	0.31331	0.37702	MTF2		
ENSG00000179388	8	22535172	22560815	41	14	47565	0.31332	0.37702	EGR3		
ENSG00000161036	7	102095376	102123615	104	15	40715	0.31318	0.37707	LRWD1		
ENSG00000172888	3	40556369	40626176	145	25	38746	0.31246	0.37735	ZNF621		
ENSG00000188505	19	39677601	39702524	65	7	54933	0.31209	0.37749	NCCRP1		
ENSG00000120533	8	110336553	110368182	79	16	54355	0.31196	0.37753	ENY2		
ENSG00000241058	10	18824490	18950551	581	35	53890	0.3118	0.3776	NSUN6		
ENSG00000149435	20	23955690	23979416	72	17	33221	0.31177	0.37761	GGTLC1		
ENSG00000121310	1	53351656	53402884	66	15	36400	0.31172	0.37763	ECHDC2		
ENSG00000100036	22	31021639	31075003	277	41	36729	0.31121	0.37782	SLC35E4		
ENSG00000181090	9	140503444	140774468	800	82	45072	0.31087	0.37795	EHMT1		
ENSG00000052749	10	99106115	99171127	277	13	53262	0.31074	0.378	RRP12		
ENSG00000198739	10	68675764	68869588	542	58	41918	0.31029	0.37817	LRRTM3		
ENSG00000158163	3	137770832	137844660	180	13	36501	0.31025	0.37818	DZIP1L		
ENSG00000167740	17	4036462	4100605	215	24	45718	0.31002	0.37827	CYB5D2		
ENSG00000205745	7	36108694	36135346	139	22	36270	0.31	0.37828	PP13004		
ENSG00000122644	7	12716481	12740559	135	26	43906	0.30994	0.3783	ARL4A		
ENSG00000147799	8	145744563	145921194	289	34	42281	0.30949	0.37847	ARHGAP39		
ENSG00000198816	19	7570178	7595912	71	17	52993	0.30941	0.3785	ZNF358		
ENSG00000008869	2	37185526	37321485	454	50	49562	0.30937	0.37852	HEATR5B		
ENSG00000082153	2	201665317	201698569	59	11	41258	0.30904	0.37864	BZW1		
ENSG00000240771	12	57993963	58023162	47	16	45657	0.30903	0.37865	ARHGEF25		
ENSG00000110497	11	46407964	46625675	228	31	48556	0.30895	0.37868	AMBRA1		
ENSG00000189050	17	58019601	58052122	57	12	36935	0.30883	0.37872	RNFT1		
ENSG00000268332	1	6090630	6111399	70	20	50813	0.30877	0.37875	AL035406.1		

ENSG00000007264	19	3767971	3812127	124	35	42602	0.3087	0.37877	<i>MATK</i>		
ENSG00000143653	1	246877349	246941439	276	27	42075	0.30869	0.37878	<i>SCCPDH</i>		
ENSG00000256574	10	45788102	45821056	165	14	39049	0.30854	0.37883	<i>OR13A1</i>		
ENSG00000115947	2	148677968	148789147	207	18	53562	0.30841	0.37889	<i>ORC4</i>		
ENSG00000143093	1	110564199	110627263	86	11	46894	0.30817	0.37898	<i>STRIP1</i>		
ENSG00000253729	8	48675669	48882743	180	45	45178	0.30801	0.37904	<i>PRKDC</i>		
ENSG00000161298	19	37085719	37129499	85	14	52765	0.30787	0.37909	<i>ZNF382</i>		
ENSG00000090534	3	184079723	184105932	65	19	46905	0.30784	0.3791	<i>THPO</i>		
ENSG00000105519	19	5901718	5925888	62	13	53118	0.30781	0.37911	<i>CAPS</i>		
ENSG00000115350	2	75175619	75207255	94	18	50007	0.30778	0.37912	<i>POLE4</i>		
ENSG00000198870	9	136233117	136281220	188	14	54607	0.30778	0.37912	<i>C9orf96</i>		
ENSG00000175322	18	14047456	14142489	257	29	50902	0.30777	0.37913	<i>ZNF519</i>		
ENSG00000007062	4	15954699	16096001	514	101	45758	0.30763	0.37918	<i>PROM1</i>		
ENSG00000121653	11	45897202	45938016	67	25	47477	0.30759	0.3792	<i>MAPK8IP1</i>		
ENSG00000132639	20	10189478	10298066	262	55	44805	0.30758	0.3792	<i>SNAP25</i>		
ENSG00000128274	22	43078127	43127304	274	33	41615	0.30755	0.37921	<i>A4GALT</i>		
ENSG00000139826	13	108860727	108896603	109	17	48304	0.30735	0.37929	<i>ABHD13</i>		
ENSG00000145911	5	177530444	177563088	96	16	52891	0.30714	0.37937	<i>N4BP3</i>		
ENSG00000255863	12	49305767	49343446	132	10	50188	0.30672	0.37953	<i>AC073610.5</i>		
ENSG00000139160	12	31790094	31836048	201	34	34942	0.30665	0.37955	<i>METTL20</i>		
ENSG00000114019	3	134064716	134104321	71	17	39288	0.30647	0.37962	<i>AMOTL2</i>		
ENSG00000143379	1	150888739	150947213	131	16	54066	0.30628	0.3797	<i>SETDB1</i>		
ENSG00000175115	11	65827834	66022218	377	32	49074	0.30609	0.37977	<i>PACS1</i>		
ENSG00000152078	1	95572894	95673163	339	44	43038	0.3059	0.37984	<i>TMEM56</i>		
ENSG00000121644	1	244806237	244882335	210	36	44330	0.30581	0.37987	<i>DES12</i>		
ENSG00000084733	2	26246976	26370323	268	16	54048	0.30562	0.37995	<i>RAB10</i>		
ENSG00000183473	22	37590278	37618362	112	20	45677	0.30536	0.38004	<i>SSTR3</i>		
ENSG00000117500	1	93605299	93656285	116	17	46047	0.30529	0.38007	<i>TMED5</i>		
ENSG00000106003	7	2542163	2578811	121	31	41881	0.30525	0.38009	<i>LFNG</i>		
ENSG00000151376	11	86142150	86393678	1183	93	44351	0.30519	0.38011	<i>ME3</i>		
ENSG00000103534	16	19411818	19520435	499	50	37567	0.30512	0.38014	<i>TMC5</i>		
ENSG00000205858	7	16556505	16631193	279	47	49575	0.30455	0.38036	<i>LRRC72</i>		
ENSG00000001626	7	117095838	117366025	507	47	43855	0.30448	0.38038	<i>CFTR</i>		
ENSG00000107864	10	93796449	94060844	422	40	36882	0.30421	0.38049	<i>CPEB3</i>		
ENSG00000100439	14	23057146	23091265	111	27	40937	0.30399	0.38057	<i>ABHD4</i>		
ENSG00000107821	10	102811598	102837888	61	14	53716	0.30375	0.38066	<i>KAZALD1</i>		

ENSG00000103811	15	79203400	79251916	160	20	44618	0.30374	0.38066	CTSH		
ENSG00000102796	13	52332129	52388293	110	26	45211	0.30369	0.38068	DHRS12		
ENSG00000198580	7	6703376	6725991	102	19	39747	0.30359	0.38072	AC073343.1		
ENSG00000182759	8	144491352	144522576	165	30	42869	0.30355	0.38074	MAFA		
ENSG00000176925	11	4832551	4853686	101	10	46356	0.30353	0.38074	OR51F2		
ENSG00000163519	3	108531545	108583852	145	23	45926	0.30334	0.38082	TRAT1		
ENSG00000184575	12	64788130	64854907	120	21	44748	0.30323	0.38086	XPOT		
ENSG00000188313	3	146222967	146272651	223	26	54233	0.30316	0.38089	PLSCR1		
ENSG00000198001	12	44142747	44193346	129	18	42152	0.3031	0.38091	IRAK4		
ENSG00000214978	17	9684544	9735388	212	34	44388	0.30292	0.38098	RP11-477N12.3		
ENSG00000105696	19	18708240	18741849	124	23	41533	0.30272	0.38105	TMEM59L		
ENSG00000138622	15	73602200	73671605	212	40	44107	0.30244	0.38116	HCN4		
ENSG00000114638	3	118882364	118934000	225	45	48184	0.30235	0.38119	UPK1B		
ENSG00000137080	9	21155636	21176659	80	11	51891	0.30229	0.38122	IFNA21		
ENSG00000261652	15	55690746	55720962	134	14	33930	0.30196	0.38134	C15orf65		
ENSG00000005249	7	106675094	106812256	362	42	46050	0.30189	0.38137	PRKAR2B		
ENSG00000185758	4	184232917	184253579	57	13	45584	0.30186	0.38138	CLDN24		
ENSG00000112796	6	46116924	46148708	94	11	40086	0.30172	0.38143	ENPP5		
ENSG00000172457	11	56500303	56521287	89	16	50217	0.30171	0.38144	OR9G4		
ENSG00000186334	5	150646323	150693327	225	27	39760	0.30166	0.38145	SLC36A3		
ENSG00000130005	19	1387091	1411569	61	15	32619	0.30154	0.3815	GAMT		
ENSG00000132718	1	155819300	155864990	82	19	39855	0.30107	0.38168	SYT11		
ENSG00000197927	2	132469948	132534973	194	19	40595	0.30103	0.3817	C2orf27A		
ENSG00000169154	8	37781799	37807647	55	12	53325	0.30054	0.38188	GOT1L1		
ENSG00000132911	5	151761093	151822929	245	9	56196	0.30041	0.38193	NMUR2		
ENSG00000130383	19	5855837	5913798	285	41	52275	0.30041	0.38193	FUT5		
ENSG00000237787	3	153192284	153230486	151	22	36210	0.29996	0.38211	C3orf79		
ENSG00000250799	19	36280890	36314201	100	26	48103	0.2999	0.38213	PRODH2		
ENSG00000100360	22	37144246	37182300	81	13	45061	0.29957	0.38225	IFT27		
ENSG00000164116	4	156577863	156663501	307	44	46527	0.29936	0.38233	GUCY1A3		
ENSG00000085998	1	46644354	46695977	74	15	46333	0.29917	0.38241	POMGNT1		
ENSG00000062485	12	56655483	56704176	100	12	47067	0.29908	0.38244	CS		
ENSG00000116288	1	8004351	8055565	101	18	34578	0.299	0.38247	PARK7		
ENSG00000143195	1	166872443	166954719	169	25	54062	0.29889	0.38251	ILDR2		
ENSG00000176236	10	15127384	15149318	126	24	42166	0.2989	0.38251	C10orf111		
ENSG00000111726	12	22189108	22228608	87	15	37896	0.29877	0.38256	CMAS		

ENSG00000168826	4	4281924	4333513	231	22	42023	0.29872	0.38258	ZBTB49		
ENSG00000160993	7	102086685	102115323	113	18	42280	0.29872	0.38258	ALKBH4		
ENSG00000170390	4	150989426	151188609	660	67	46144	0.29868	0.38259	DCLK2		
ENSG00000197808	19	37118094	37167755	114	15	52791	0.29861	0.38262	ZNF461		
ENSG00000150093	10	33179247	33304720	464	56	37160	0.29854	0.38265	ITGB1		
ENSG00000203965	1	63979043	64048364	192	19	47639	0.29839	0.3827	EFCAB7		
ENSG00000134046	18	51669079	51761158	190	25	42819	0.29832	0.38273	MBD2		
ENSG00000124237	20	56715960	56746206	52	12	50756	0.29808	0.38282	C20orf85		
ENSG00000198812	12	69992351	70014942	66	10	51850	0.29801	0.38285	LRRC10		
ENSG00000172409	11	57406465	57439340	55	10	43281	0.29799	0.38286	CLP1		
ENSG00000101203	20	61914538	61976203	231	29	50823	0.29796	0.38287	COL20A1		
ENSG00000255633	6	62274008	62294534	170	12	48465	0.29781	0.38293	MTRNR2L9		
ENSG00000162738	1	160360376	160408468	133	24	42959	0.29777	0.38294	VANGL2		
ENSG00000205084	16	75562015	75600184	105	12	47113	0.29776	0.38294	TMEM231		
ENSG00000089639	19	19730285	19764476	68	19	51774	0.29773	0.38296	GMIP		
ENSG00000120093	17	46616232	46692274	202	34	41256	0.29761	0.383	HOXB3		
ENSG00000135250	7	104741151	105049755	630	37	35605	0.29744	0.38307	SRPK2		
ENSG00000162344	11	69503000	69529410	45	16	47206	0.29735	0.3831	FGF19		
ENSG00000136929	9	100679073	100717138	75	7	51683	0.2973	0.38312	HEMGN		
ENSG00000173627	1	183605541	183632451	149	5	23428	0.29715	0.38318	APOBEC4		
ENSG00000179088	12	103621369	103899749	713	66	40220	0.29713	0.38318	C12orf42		
ENSG00000141098	16	67698434	67763324	90	18	42459	0.297	0.38323	GFOD2		
ENSG00000116285	1	8054464	8096368	72	12	36028	0.29691	0.38327	ERRFI1		
ENSG00000130856	18	74524563	74692683	498	46	48941	0.29684	0.38329	ZNF236		
ENSG00000163520	3	13563824	13689922	516	74	46680	0.2968	0.38331	FBLN2		
ENSG00000126545	4	70786799	70822289	96	14	48196	0.2967	0.38335	CSN1S1		
ENSG00000169398	8	141657999	142022315	619	37	38455	0.29652	0.38341	PTK2		
ENSG00000131023	6	149969289	150049392	130	10	35049	0.29651	0.38342	LATS1		
ENSG00000076356	1	208185587	208427665	732	108	48615	0.29642	0.38346	PLXNA2		
ENSG00000083937	3	87266421	87314698	137	23	47030	0.29608	0.38359	CHMP2B		
ENSG00000104047	15	49903177	49947333	137	15	31921	0.29606	0.38359	DTWD1		
ENSG00000178105	11	108525752	108821657	623	42	48033	0.296	0.38361	DDX10		
ENSG00000115998	2	70367012	70485747	279	25	40312	0.29596	0.38363	C2orf42		
ENSG00000196326	10	5186335	5254449	386	31	37686	0.29597	0.38363	AKR1CL1		
ENSG00000118702	20	35869489	35900238	70	18	40787	0.29577	0.3837	GHRH		
ENSG00000177875	12	48567366	48589709	84	11	49756	0.29574	0.38371	C12orf68		

ENSG00000165215	7	73173328	73194600	60	10	42198	0.29548	0.38381	CLDN3		
ENSG00000165556	13	28526274	28555276	89	15	45421	0.29547	0.38382	CDX2		
ENSG00000138166	10	112247596	112281302	73	13	49072	0.2953	0.38388	DUSP5		
ENSG00000196743	5	150581711	150660001	278	48	40236	0.29497	0.38401	GM2A		
ENSG00000125148	16	56632111	56653409	97	25	43483	0.29493	0.38402	MT2A		
ENSG00000174500	3	111829688	111862152	95	19	49740	0.29474	0.38409	GCSAM		
ENSG00000198626	1	237195505	238007288	3107	281	44261	0.29469	0.38411	RYR2		
ENSG00000115677	2	242156679	242266476	308	35	47931	0.29428	0.38427	HDLBP		
ENSG00000152022	1	145467085	145511669	19	11	44144	0.29412	0.38433	LIX1L		
ENSG00000181392	19	36484209	36509695	42	12	40455	0.2941	0.38434	SYNE4		
ENSG00000227059	12	133784898	133822681	117	19	44274	0.29407	0.38435	ANHX		
ENSG00000133316	11	62589814	62619281	87	9	36828	0.29389	0.38442	WDR74		
ENSG00000205038	8	110364706	110552559	601	37	48931	0.29382	0.38445	PKHD1L1		
ENSG00000171045	8	143283441	143494601	898	82	46534	0.29376	0.38447	TSNARE1		
ENSG00000136352	14	36975602	37000354	56	16	39626	0.29376	0.38447	NKX2-1		
ENSG00000158006	1	26276258	26334648	153	13	33940	0.29367	0.38451	PAFAH2		
ENSG00000198445	22	17061667	17083700	56	17	40242	0.29356	0.38455	CCT8L2		
ENSG00000253626	10	81262357	81286188	99	16	46509	0.29334	0.38463	EIF5AL1		
ENSG00000069482	11	68441247	68468643	61	12	50513	0.29329	0.38465	GAL		
ENSG00000132359	17	2670350	2951033	1026	198	46832	0.2933	0.38465	RAP1GAP2		
ENSG00000106006	7	27175015	27200222	64	13	34262	0.29322	0.38468	HOXA6		
ENSG00000197956	1	153497075	153518720	43	7	36685	0.2931	0.38472	S100A6		
ENSG00000186409	1	42919001	43130335	712	37	46976	0.29304	0.38474	CCDC30		
ENSG00000097046	1	91956408	92001321	139	22	47089	0.29303	0.38475	CDC7		
ENSG00000177476	1	247758856	247779838	60	12	55074	0.29287	0.38481	OR2G3		
ENSG00000145779	5	118594387	118745383	553	63	37865	0.29286	0.38481	TNFAIP8		
ENSG00000049247	1	7893143	7923572	146	33	49028	0.2928	0.38484	UTS2		
ENSG00000265817	8	95380605	95459180	274	25	37710	0.29237	0.385	FSBP		
ENSG00000117543	1	101445179	101501644	85	11	51418	0.29212	0.3851	DPH5		
ENSG00000152683	2	32380933	32459448	237	27	52671	0.29205	0.38513	SLC30A6		
ENSG00000162981	2	14762810	14800933	64	13	42953	0.29174	0.38524	FAM84A		
ENSG00000149256	11	78353876	79161992	2362	270	43576	0.29136	0.38539	TENM4		
ENSG00000019505	11	45251852	45317870	187	23	35965	0.29134	0.3854	SYT13		
ENSG00000131379	3	14706606	14824541	343	57	44347	0.29129	0.38542	C3orf20		
ENSG00000181038	17	74712912	74740018	22	10	44890	0.29117	0.38546	METTL23		
ENSG00000187550	19	56031100	56058456	152	37	44236	0.29118	0.38546	SBK2		

ENSG00000166004	11	93384805	93473522	172	23	35770	0.29112	0.38548	KIAA1731		
ENSG00000172782	17	72863428	72899708	92	16	32103	0.29093	0.38555	FADS6		
ENSG00000187605	2	74219840	74345303	295	32	41674	0.29089	0.38557	TET3		
ENSG00000077063	7	117340705	117524193	417	73	45368	0.29078	0.38561	CTTNBP2		
ENSG00000148123	9	103780991	104097417	1157	109	46544	0.29076	0.38562	LPPR1		
ENSG00000133661	10	81687496	81752370	349	31	41350	0.29067	0.38565	SFTPD		
ENSG00000111275	12	112194691	112257782	57	12	51854	0.29064	0.38566	ALDH2		
ENSG00000155657	2	179380716	179705529	608	72	38089	0.29046	0.38573	TTN		
ENSG00000143512	1	222685602	222731445	159	19	40109	0.2903	0.38579	HHIPL2		
ENSG00000112983	5	137465455	137524675	78	12	54112	0.29029	0.3858	BRD8		
ENSG00000235631	7	122331718	122353021	56	10	53033	0.29014	0.38585	RNF148		
ENSG00000169884	12	49349123	49375546	61	9	44774	0.29002	0.3859	WNT10B		
ENSG00000168843	4	162295049	163095187	3136	220	44196	0.28995	0.38593	FSTL5		
ENSG00000145860	5	158574417	158647061	158	24	50655	0.28973	0.38601	RNF145		
ENSG00000163605	3	73035936	73128350	387	20	46391	0.28949	0.3861	PPP4R2		
ENSG00000003056	12	9082959	9112551	93	10	45504	0.28946	0.38611	M6PR		
ENSG00000137331	6	30700976	30722331	105	11	23560	0.2893	0.38618	IER3		
ENSG00000123374	12	56350553	56376568	44	15	45642	0.28927	0.38619	CDK2		
ENSG00000129657	17	75072798	75223179	636	90	49802	0.28891	0.38632	SEC14L1		
ENSG00000161798	12	50345653	50369464	40	13	28396	0.28872	0.3864	AQP5		
ENSG00000178381	7	1181707	1210395	259	19	46140	0.2885	0.38648	ZFAND2A		
ENSG00000147724	8	139132266	139519065	1406	153	38738	0.2884	0.38652	FAM135B		
ENSG00000170953	11	124402578	124423575	73	15	49791	0.28835	0.38654	OR8B12		
ENSG00000187951	15	30906697	31075196	402	31	38937	0.28832	0.38655	ARHGAP11B		
ENSG00000107018	9	5324969	5349873	83	12	37690	0.28827	0.38657	RLN1		
ENSG00000254732	11	57499635	57570715	108	17	46631	0.28811	0.38663	RP11-691N7.6		
ENSG00000166148	12	63529014	63554722	85	14	30887	0.28811	0.38663	AVPR1A		
ENSG00000168481	8	21994338	22024597	82	24	51131	0.28806	0.38665	LGI3		
ENSG00000272514	6	88107701	88184183	288	22	52414	0.28804	0.38666	C6ORF165		
ENSG00000175220	11	46688630	46732165	63	14	43818	0.288	0.38667	ARHGAP1		
ENSG00000197502	14	50290810	50321552	37	14	51598	0.28798	0.38668	AL627171.1		
ENSG00000117407	1	44388992	44412913	60	11	40490	0.28792	0.3867	ARTN		
ENSG00000256316	6	26240370	26260835	57	11	45343	0.28792	0.38671	HIST1H3F		
ENSG00000196961	19	50260225	50320370	182	32	49482	0.28786	0.38673	AP2A1		
ENSG00000112238	6	100044606	100073454	83	21	44099	0.2878	0.38675	PRDM13		
ENSG00000063015	17	27271919	27343458	105	20	50753	0.28748	0.38687	SEZ6		

ENSG00000123415	12	54548529	54592778	98	17	43716	0.28734	0.38693	SMUG1		
ENSG00000267740	19	5856182	5913798	284	41	52263	0.28717	0.38699	AC024592.12		
ENSG00000139146	12	31423518	31489992	69	21	41536	0.28699	0.38706	FAM60A		
ENSG00000216560	4	3568596	3602438	58	17	29015	0.28691	0.38709	LINC00955		
ENSG00000143217	1	161030785	161069389	97	26	49093	0.28675	0.38715	PVRL4		
ENSG00000268846	2	187357219	187377356	47	9	55983	0.28651	0.38724	AC018867.2		
ENSG00000162618	1	79345449	79482403	650	54	54092	0.28644	0.38727	ELTD1		
ENSG00000038295	4	166784410	167035047	640	109	43871	0.28617	0.38737	TLL1		
ENSG00000159239	2	74631304	74658718	35	6	49992	0.28609	0.3874	C2orf81		
ENSG00000107611	10	16855963	17181830	1312	135	43506	0.28607	0.38741	CUBN		
ENSG00000137868	15	74461807	74514608	137	19	32512	0.28586	0.38749	STRA6		
ENSG00000169242	1	155089936	155117333	57	13	39100	0.28532	0.3877	EFNA1		
ENSG00000077380	2	172533919	172614930	195	24	45423	0.28521	0.38774	DYNC1I2		
ENSG00000140835	16	71549136	71582649	71	18	38423	0.28506	0.3878	CHST4		
ENSG00000134389	1	196936667	196988804	107	17	35164	0.28479	0.3879	CFHR5		
ENSG00000197142	10	114123776	114198138	168	22	53307	0.28475	0.38792	ACSL5		
ENSG00000197818	20	48419250	48518779	354	43	48254	0.28451	0.38801	SLC9A8		
ENSG00000172771	3	129110164	129157494	127	20	40272	0.28437	0.38806	EFCAB12		
ENSG00000120029	10	103595356	103825950	346	43	51241	0.28426	0.38811	C10orf76		
ENSG00000160447	9	131454802	131493197	35	19	47889	0.28393	0.38823	PKN3		
ENSG00000151414	1	198116093	198301550	595	41	34768	0.28369	0.38832	NEK7		
ENSG00000133958	14	93789565	94184222	1011	57	49807	0.28365	0.38834	UNC79		
ENSG00000111540	12	56357697	56398490	79	15	43534	0.2836	0.38836	RAB5B		
ENSG00000167779	12	53481220	53506129	82	11	28836	0.28353	0.38838	IGFBP6		
ENSG00000117724	1	214766538	214847931	308	32	44803	0.28319	0.38851	CENPF		
ENSG00000006659	19	40184946	40210084	69	11	45854	0.28302	0.38858	LGALS14		
ENSG00000167578	19	41274121	41312847	146	25	45456	0.28303	0.38858	RAB4B		
ENSG00000255384	11	118293836	118315921	42	13	40303	0.28275	0.38869	RP11-770J1.4		
ENSG00000187017	1	6474848	6531430	188	25	37528	0.28268	0.38871	ESPN		
ENSG00000198478	6	80331000	80423372	253	36	49224	0.28264	0.38873	SH3BGRL2		
ENSG00000131446	5	180207541	180252652	228	19	45413	0.28261	0.38874	MGAT1		
ENSG00000188739	1	235284498	235334772	135	14	47596	0.28253	0.38877	RBM34		
ENSG00000187583	1	891877	921245	106	26	39592	0.28249	0.38878	PLEKHN1		
ENSG00000162910	1	228284380	228307013	31	11	49396	0.28234	0.38884	MRPL55		
ENSG00000013297	3	170126653	170588169	1374	117	44939	0.28236	0.38884	CLDN11		
ENSG00000115318	2	74749541	74792817	33	10	38557	0.28198	0.38898	LOXL3		

ENSG00000006534	11	67766048	67806744	103	18	51780	0.28185	0.38903	ALDH3B1		
ENSG00000178021	2	54470315	54493409	96	12	55447	0.28177	0.38906	TSPYL6		
ENSG00000187650	19	5894869	5920864	83	17	53480	0.28174	0.38907	VMAC		
ENSG00000251692	16	1525887	1548982	158	32	41004	0.28166	0.3891	PTX4		
ENSG00000113615	5	133974479	134073513	149	28	34758	0.28156	0.38914	SEC24A		
ENSG00000186088	7	76930068	77055717	455	48	41976	0.28146	0.38918	GSAP		
ENSG00000164600	7	31367075	31390508	44	13	39734	0.28129	0.38925	NEUROD6		
ENSG00000182816	21	31733709	31754557	76	17	44723	0.28125	0.38926	KRTAP13-2		
ENSG00000115760	2	32572096	32853966	680	61	53096	0.28121	0.38928	BIRC6		
ENSG00000168300	8	52720140	52821735	296	30	42118	0.28115	0.3893	PCMTD1		
ENSG00000198301	4	76852103	76922115	210	23	49610	0.28103	0.38934	SDAD1		
ENSG00000136449	17	48575745	48618862	145	23	43454	0.28102	0.38935	MYCBPAP		
ENSG00000042493	2	85611871	85655555	169	26	48765	0.28093	0.38938	CAPG		
ENSG00000155026	7	5955181	6020314	22	14	41140	0.28088	0.3894	RSPH10B		
ENSG00000137145	9	19220433	19384139	551	45	47460	0.28058	0.38952	DENND4C		
ENSG00000164048	3	48272590	48350743	154	12	41894	0.28055	0.38953	ZNF589		
ENSG00000235705	10	81256126	81280678	107	17	48530	0.2805	0.38955	AL133481.1		
ENSG00000091140	7	107521415	107582175	142	15	31594	0.28044	0.38957	DLD		
ENSG00000054803	20	54562496	54590528	41	14	41795	0.28036	0.3896	CBLN4		
ENSG00000106355	7	32514951	32544895	129	14	41952	0.28026	0.38964	LSM5		
ENSG00000247121	5	96139731	96281513	732	50	48532	0.28009	0.3897	CTD-2260A17.2		
ENSG00000071794	3	148737914	148814341	181	22	46984	0.28001	0.38973	HLTF		
ENSG00000122507	7	33158856	33655680	1703	115	48833	0.27995	0.38976	BBS9		
ENSG00000188888	17	36471413	36509730	71	20	42055	0.27981	0.38981	GPR179		
ENSG00000254614	11	64935077	64959305	52	14	44405	0.27975	0.38983	AP003068.23		
ENSG00000203811	1	149801110	149822765	15	5	42739	0.27966	0.38987	HIST2H3C		
ENSG00000183558	1	149803505	149824478	15	5	42739	0.27966	0.38987	HIST2H2AA3		
ENSG00000203812	1	149812643	149833191	15	5	42739	0.27966	0.38987	HIST2H2AA4		
ENSG00000203852	1	149814181	149835836	15	5	42739	0.27966	0.38987	HIST2H3A		
ENSG00000186073	15	36861812	37112449	769	97	51293	0.27965	0.38987	C15orf41		
ENSG00000180263	12	95460525	95621258	606	58	51052	0.2796	0.38989	FGD6		
ENSG00000145708	5	76238538	76286983	139	21	42533	0.27934	0.38999	CRHBP		
ENSG00000071537	14	81927893	82010205	149	37	44728	0.27904	0.39011	SEL1L		
ENSG00000109205	4	71052213	71080293	110	9	32738	0.27898	0.39013	ODAM		
ENSG00000271271	4	70444135	70515360	357	30	53141	0.27882	0.39019	UGT2A2		
ENSG00000169439	8	97495579	97634000	411	73	38797	0.27878	0.39021	SDC2		

ENSG00000140983	16	708086	734174	61	14	35309	0.27864	0.39026	<i>RHOT2</i>		
ENSG00000162592	1	3658962	3698209	167	31	46633	0.27838	0.39036	<i>CCDC27</i>		
ENSG00000165417	14	81631796	81697721	147	22	45266	0.27821	0.39043	<i>GTF2A1</i>		
ENSG00000038427	5	82757284	82888122	353	66	49371	0.27803	0.3905	<i>VCAN</i>		
ENSG00000198839	7	111836643	111993151	459	37	31720	0.27762	0.39065	<i>ZNF277</i>		
ENSG00000122965	12	114244543	114414176	747	68	44122	0.27761	0.39065	<i>RBM19</i>		
ENSG00000168955	2	228216872	228256711	188	37	52005	0.27729	0.39078	<i>TM4SF20</i>		
ENSG00000102854	16	800762	828865	145	34	38173	0.2772	0.39081	<i>MSLN</i>		
ENSG00000263155	15	57874139	57987562	497	54	46681	0.27621	0.39119	<i>MYZAP</i>		
ENSG00000146360	6	110289514	110311921	66	16	44983	0.27598	0.39128	<i>GPR6</i>		
ENSG00000175029	10	126666421	126859739	814	126	46047	0.27594	0.3913	<i>CTBP2</i>		
ENSG00000171234	4	69907081	69988705	455	18	29827	0.27578	0.39136	<i>UGT2B7</i>		
ENSG00000122218	1	160249063	160323190	141	26	37621	0.27569	0.39139	<i>COPA</i>		
ENSG00000111405	12	48093517	48129350	115	17	46978	0.27554	0.39145	<i>ENDOU</i>		
ENSG00000162959	2	32080129	32246299	410	35	54725	0.27545	0.39148	<i>MEMO1</i>		
ENSG00000125746	19	46100252	46158887	185	33	47782	0.27536	0.39152	<i>EML2</i>		
ENSG00000163788	3	43318004	43476256	228	38	47919	0.2752	0.39158	<i>SNRK</i>		
ENSG00000144452	2	215786266	216013151	576	77	38236	0.27492	0.39169	<i>ABCA12</i>		
ENSG00000176593	19	58503429	58532600	123	16	50203	0.27483	0.39172	<i>CTD-2368P22.1</i>		
ENSG00000186881	9	107256455	107277547	81	11	48396	0.27478	0.39174	<i>OR13F1</i>		
ENSG00000182217	1	149815607	149842714	11	4	46796	0.27477	0.39175	<i>HIST2H4B</i>		
ENSG00000132286	11	6492677	6515909	48	9	49579	0.27477	0.39175	<i>TIMM10B</i>		
ENSG00000137707	11	111328251	111393079	145	25	45540	0.27448	0.39186	<i>BTG4</i>		
ENSG00000142541	19	49980811	50005565	84	10	31293	0.27437	0.3919	<i>RPL13A</i>		
ENSG00000162734	1	160165127	160195166	38	13	41746	0.27432	0.39192	<i>PEA15</i>		
ENSG00000088179	2	120507207	120751394	489	35	51458	0.27424	0.39195	<i>PTPN4</i>		
ENSG00000108963	17	1923404	1956724	94	24	48746	0.27414	0.39199	<i>DPH1</i>		
ENSG00000137364	6	18118542	18165305	186	25	53388	0.274	0.39204	<i>TPMT</i>		
ENSG00000186132	2	120049801	120134404	340	40	52553	0.27387	0.39209	<i>C2orf76</i>		
ENSG00000107362	9	74467368	74535847	101	17	42871	0.27363	0.39218	<i>ABHD17B</i>		
ENSG00000183161	11	22634079	22657387	34	10	38558	0.27355	0.39222	<i>FANCF</i>		
ENSG00000113391	5	92943775	93457404	811	59	49863	0.27326	0.39233	<i>FAM172A</i>		
ENSG00000197275	8	95374188	95497337	481	34	37611	0.27288	0.39247	<i>RAD54B</i>		
ENSG00000243955	6	52646462	52678708	100	11	36570	0.27282	0.39249	<i>GSTA1</i>		
ENSG00000005483	7	104644626	104764808	170	22	35505	0.27268	0.39255	<i>KMT2E</i>		
ENSG00000204580	6	30834198	30877933	143	26	35807	0.27266	0.39256	<i>DDR1</i>		

ENSG00000135374	11	34490340	34545352	200	25	37875	0.27266	0.39256	ELF5		
ENSG00000175325	5	177409236	177433243	88	22	49474	0.2726	0.39258	PROP1		
ENSG00000084764	2	27183480	27260064	106	12	48358	0.27253	0.39261	MAPRE3		
ENSG00000223802	19	18969361	19017536	124	29	46717	0.272	0.39281	CERS1		
ENSG00000106304	7	123555286	123621468	160	24	47896	0.27189	0.39285	SPAM1		
ENSG00000172367	11	119046166	119070932	30	10	39107	0.27189	0.39285	PDZD3		
ENSG00000174358	5	1191710	1235232	206	48	46113	0.27183	0.39288	SLC6A19		
ENSG00000222000	2	98937852	98982468	187	19	38075	0.27127	0.39309	AC092675.3		
ENSG00000132670	20	2834830	3029722	364	35	37085	0.27127	0.39309	PTPRA		
ENSG00000145113	3	195463636	195549148	319	41	40986	0.27105	0.39318	MUC4		
ENSG00000009765	6	150680028	150737105	281	34	28168	0.27103	0.39318	IYD		
ENSG00000107731	10	72962327	73072621	396	76	43992	0.27098	0.3932	UNC5B		
ENSG00000188783	1	203434956	203470480	134	22	49849	0.27079	0.39327	PRELP		
ENSG00000125861	20	3629939	3654046	124	25	46379	0.27051	0.39338	GFRA4		
ENSG00000125743	19	46180712	46205827	60	13	54291	0.27029	0.39347	SNRPD2		
ENSG00000165091	9	75126717	75461267	1130	52	41389	0.27016	0.39352	TMC1		
ENSG00000116752	1	115100178	115134260	70	15	51926	0.2697	0.3937	BCAS2		
ENSG00000173908	17	38938455	38966211	97	23	45129	0.26963	0.39372	KRT28		
ENSG00000213085	1	159832154	159879953	144	21	41870	0.26962	0.39373	CCDC19		
ENSG00000198585	3	131090515	131117674	48	12	40169	0.26955	0.39375	NUDT16		
ENSG00000131759	17	38455444	38523094	101	14	48758	0.26941	0.39381	RARA		
ENSG00000137871	15	56912379	57220769	678	53	43175	0.26915	0.39391	ZNF280D		
ENSG00000136883	9	116838406	116871507	146	24	48423	0.26907	0.39394	KIF12		
ENSG00000183067	21	41107334	41184023	472	34	41659	0.26869	0.39408	IGSF5		
ENSG00000119686	14	76034960	76139557	243	53	38562	0.26857	0.39413	FLVCR2		
ENSG00000138771	4	77346253	77714406	1151	113	46577	0.26854	0.39414	SHROOM3		
ENSG00000063854	16	1835621	1887195	496	27	44703	0.26855	0.39414	HAGH		
ENSG00000166780	16	15518152	15728885	395	66	42510	0.26831	0.39423	C16orf45		
ENSG00000165813	10	115870621	115943979	161	19	53242	0.26823	0.39426	C10orf118		
ENSG00000131323	14	103233813	103387837	373	34	39155	0.26812	0.3943	TRAF3		
ENSG00000181135	8	144756622	144806068	146	35	36380	0.26807	0.39432	ZNF707		
ENSG00000090339	19	10371511	10407291	85	26	44540	0.26791	0.39439	ICAM1		
ENSG00000184305	4	91038686	92533064	5226	317	44443	0.26757	0.39452	CCSER1		
ENSG00000187094	3	42289317	42317699	67	17	41594	0.26747	0.39455	CCK		
ENSG00000115145	2	152963315	153042506	202	21	44141	0.26717	0.39467	STAM2		
ENSG00000115363	2	75686428	75806848	358	65	46596	0.26708	0.3947	EVA1A		

ENSG00000122729	9	32374618	32464767	261	47	52983	0.26706	0.39471	ACO1		
ENSG00000196260	6	30889130	30909952	110	15	42541	0.26692	0.39477	SFTA2		
ENSG00000258664	1	179823916	179844311	37	10	47948	0.26685	0.39479	IFRG15		
ENSG00000117322	1	207617575	207673240	163	28	47052	0.26679	0.39482	CR2		
ENSG00000066427	14	92514896	92582965	401	20	49415	0.26675	0.39483	ATXN3		
ENSG00000132740	11	68661310	68718070	190	19	49286	0.26621	0.39504	IGHMBP2		
ENSG00000082126	2	202499593	202573417	200	49	47558	0.26613	0.39507	MPP4		
ENSG00000175820	13	103371801	103399159	56	13	46565	0.26506	0.39548	CCDC168		
ENSG00000091640	17	4852521	4881167	59	17	43829	0.2648	0.39558	SPAG7		
ENSG00000081791	5	141293373	141331612	92	16	40825	0.26466	0.39564	KIAA0141		
ENSG00000125869	20	9485005	9521171	122	25	35563	0.2645	0.3957	LAMP5		
ENSG00000148843	10	105146405	105216049	111	21	47463	0.2643	0.39578	PDCD11		
ENSG00000140564	15	91401822	91436688	94	16	48368	0.26428	0.39578	FURIN		
ENSG00000179832	8	145192919	145326843	108	20	37973	0.26426	0.39579	MROH1		
ENSG00000140990	16	1999509	2021976	127	16	51457	0.26426	0.39579	NDUFB10		
ENSG00000103852	15	99666528	99801428	424	48	50805	0.26418	0.39582	TTC23		
ENSG00000154642	21	19151284	19201703	113	15	53098	0.26412	0.39584	C21orf91		
ENSG00000159592	1	46082976	46163785	205	9	55779	0.26407	0.39586	GPBP1L1		
ENSG00000248712	11	119050347	119077479	36	9	36846	0.26394	0.39591	CCDC153		
ENSG00000187714	10	50808347	50830765	60	21	37787	0.26392	0.39592	SLC18A3		
ENSG00000176945	3	195437753	195477994	26	14	41089	0.26384	0.39595	MUC20		
ENSG00000103202	16	436725	470367	136	19	33046	0.26377	0.39598	NME4		
ENSG00000215306	14	23276463	23301750	110	21	51176	0.26373	0.39599	AL135998.1		
ENSG00000164305	4	185538850	185580663	118	18	45516	0.26339	0.39612	CASP3		
ENSG00000131467	17	40966402	41005774	18	12	51620	0.26325	0.39618	PSME3		
ENSG00000175662	17	17736828	17885736	202	16	30040	0.2631	0.39624	TOM1L2		
ENSG00000102934	16	57280004	57328599	197	27	40571	0.26286	0.39633	PLL		
ENSG00000140995	16	90004333	90044468	215	31	32202	0.26287	0.39633	DEF8		
ENSG00000125531	20	62174373	62198061	73	26	38209	0.26249	0.39647	C20orf195		
ENSG00000121210	4	154377498	154567863	532	86	42757	0.26244	0.39649	KIAA0922		
ENSG00000133706	5	145482601	145572223	388	10	55308	0.26243	0.39649	LARS		
ENSG00000135338	6	80184708	80257175	161	23	49665	0.2622	0.39658	LCA5		
ENSG00000129691	8	37952760	38011594	68	18	39217	0.26221	0.39658	ASH2L		
ENSG00000178567	3	37017357	37044795	47	8	38615	0.26209	0.39663	EPM2AIP1		
ENSG00000128040	4	57666026	57697908	137	25	32371	0.26198	0.39667	SPINK2		
ENSG00000170075	1	202081986	202112720	103	24	39124	0.26151	0.39685	GPR37L1		

ENSG00000164466	5	174894065	174966745	308	33	36190	0.26141	0.39689	SFXN1		
ENSG00000050767	5	177654619	178027556	1543	200	38253	0.26131	0.39693	COL23A1		
ENSG00000198851	11	118165260	118196890	104	13	55018	0.26108	0.39702	CD3E		
ENSG00000119698	14	94602465	94756072	402	32	36414	0.26094	0.39707	PPP4R4		
ENSG00000080854	11	133768459	133836880	199	41	46455	0.26092	0.39708	IGSF9B		
ENSG00000074771	6	155706504	155787037	240	61	46634	0.26071	0.39716	NOX3		
ENSG00000171446	17	38923060	38948786	91	21	47640	0.26054	0.39722	KRT27		
ENSG00000268975	19	41267553	41302590	130	21	44109	0.26055	0.39722	MIA-RAB4B		
ENSG00000177054	11	19128646	19207969	220	29	40212	0.26048	0.39725	ZDHHC13		
ENSG00000140682	16	31472906	31499281	33	11	46379	0.26031	0.39731	TGFB11		
ENSG00000175535	10	118295443	118337367	68	10	53959	0.26015	0.39737	PNLIP		
ENSG00000178015	5	94945782	94967846	41	17	42629	0.25953	0.39761	GPR150		
ENSG00000178852	17	45390656	45528678	480	27	37440	0.2593	0.3977	EFCAB13		
ENSG00000174886	19	5881287	5914017	160	24	53298	0.25932	0.3977	NDUFA11		
ENSG00000084207	11	67341066	67364131	94	13	48198	0.25928	0.39771	GSTP1		
ENSG00000114857	3	42632106	42700227	177	17	34349	0.25926	0.39772	NKTR		
ENSG00000173145	10	96065004	96132716	209	23	55224	0.2592	0.39774	NOC3L		
ENSG00000188393	12	10041272	10094980	194	44	41035	0.25916	0.39776	CLEC2A		
ENSG00000198561	11	57510715	57597018	117	18	47453	0.25913	0.39777	CTNND1		
ENSG00000160746	3	43386351	43743086	792	76	43846	0.25907	0.39779	ANO10		
ENSG00000136205	7	47304752	47632156	953	155	45895	0.25905	0.3978	TNS3		
ENSG00000255284	11	767578	794297	75	15	42287	0.25874	0.39792	AP006621.5		
ENSG00000186470	6	26355387	26388546	222	20	48217	0.25856	0.39799	BTN3A2		
ENSG00000149043	11	1838709	1868751	72	13	51990	0.25857	0.39799	SYT8		
ENSG00000269302	4	187101913	187122626	127	12	47022	0.25824	0.39811	AC110771.1		
ENSG00000239704	17	15329332	15416922	205	33	45692	0.25807	0.39818	CDRT4		
ENSG00000177873	3	40508604	40541727	76	11	46498	0.25799	0.39821	ZNF619		
ENSG00000157833	2	26385960	26422532	82	9	49877	0.25784	0.39827	GAREML		
ENSG00000164796	8	113225157	114459328	3434	131	44583	0.25771	0.39832	CSMD3		
ENSG00000168282	14	50077489	50100198	75	9	39557	0.25768	0.39833	MGAT2		
ENSG00000126233	8	143812362	143833829	62	10	55177	0.25743	0.39842	SLURP1		
ENSG00000185947	16	31875079	31938668	52	25	49635	0.25735	0.39846	ZNF267		
ENSG00000258064	12	72057984	72102748	73	14	43880	0.25727	0.39848	RP11-293/14.2		
ENSG00000116198	1	3718645	3783778	371	29	40435	0.25714	0.39853	CEP104		
ENSG00000186393	17	38912490	38938414	84	15	48876	0.25699	0.39859	KRT26		
ENSG00000268485	2	242157319	242178850	55	19	43486	0.25667	0.39872	AC104841.2		

ENSG00000197226	5	179279066	179344859	138	21	35742	0.25665	0.39872	TBC1D9B		
ENSG00000197459	6	26241879	26262303	53	12	44162	0.25663	0.39873	HIST1H2BH		
ENSG00000125657	19	6521010	6545931	76	23	42679	0.25655	0.39876	TNFSF9		
ENSG00000196428	3	150116122	150194218	241	28	50448	0.25651	0.39878	TSC22D2		
ENSG00000089280	16	31181431	31213127	25	10	42461	0.25638	0.39883	FUS		
ENSG00000110244	11	116681419	116704022	96	17	30738	0.25634	0.39884	APOA4		
ENSG00000170324	10	49354601	49492941	222	33	42021	0.25632	0.39885	FRMPD2		
ENSG00000168779	3	157804948	157834292	74	10	50023	0.25622	0.39889	SHOX2		
ENSG00000244623	7	99463610	99484680	52	10	38692	0.25608	0.39895	OR2AE1		
ENSG00000120686	13	38913986	38947140	37	10	41623	0.25601	0.39897	UFM1		
ENSG00000072864	16	15727124	15830210	284	42	42007	0.25592	0.39901	NDE1		
ENSG00000154429	1	229446758	229489041	110	15	54133	0.25585	0.39903	CCSAP		
ENSG00000109332	4	103705540	103800053	246	12	43115	0.25553	0.39916	UBE2D3		
ENSG00000138592	15	50706577	50803280	346	31	50781	0.25509	0.39933	USP8		
ENSG00000145416	4	164435450	165315202	3480	235	37548	0.25491	0.3994	Mar-01		
ENSG00000139428	12	109981542	110021679	170	20	51018	0.25482	0.39943	MMAB		
ENSG00000128203	22	26815239	26850981	108	23	45286	0.25456	0.39953	ASPHD2		
ENSG00000165507	10	45456429	45484258	96	23	47038	0.25449	0.39956	C10orf10		
ENSG00000165501	14	50055415	50091390	121	11	46669	0.25427	0.39964	LRR1		
ENSG00000211452	1	54346912	54386759	161	20	48995	0.25424	0.39966	DIO1		
ENSG00000171484	9	125380858	125401852	101	18	45044	0.25391	0.39978	OR1B1		
ENSG00000189334	1	153576731	153599462	43	9	41881	0.25389	0.39979	S100A14		
ENSG00000119979	10	120853598	120907496	173	14	45972	0.2538	0.39982	FAM45A		
ENSG00000147677	8	117644369	117789164	352	35	38605	0.25374	0.39985	EIF3H		
ENSG00000175193	3	183537173	183612721	253	28	51779	0.25363	0.39989	PARL		
ENSG00000204390	6	31767396	31793437	72	25	38264	0.25343	0.39997	HSPA1L		
ENSG00000105245	19	41162596	41206877	141	26	49386	0.25335	0.4	NUMBL		
ENSG00000088812	20	3441687	3641769	620	44	50732	0.25334	0.4	ATRNL		
ENSG00000179630	13	44443420	44478068	161	20	44968	0.25325	0.40004	LACC1		
ENSG00000128039	4	56202276	56249263	146	23	49158	0.25311	0.40009	SRD5A3		
ENSG00000086570	5	150873654	150958505	287	40	49562	0.25305	0.40012	FAT2		
ENSG00000120341	1	177883091	177963438	325	52	45546	0.25295	0.40015	SEC16B		
ENSG00000188517	4	109721877	110233813	1779	123	33075	0.25279	0.40022	COL25A1		
ENSG00000126368	17	38239040	38266978	58	18	40796	0.25238	0.40037	NR1D1		
ENSG00000130528	19	49644455	49668681	99	20	46517	0.25222	0.40043	HRC		
ENSG00000186190	20	31633230	31671434	126	18	50591	0.25204	0.40051	BPIFB3		

ENSG00000091947	17	42078556	42111314	85	15	45430	0.25198	0.40053	<i>TMEM101</i>		
ENSG00000103091	16	74897468	75044071	505	93	44908	0.25191	0.40055	<i>WDR59</i>		
ENSG00000176022	1	1157629	1180421	132	9	47547	0.25151	0.40071	<i>B3GALT6</i>		
ENSG00000161653	17	42071914	42096431	66	15	44117	0.25107	0.40088	<i>NAGS</i>		
ENSG00000198841	1	52487775	52509488	51	11	50562	0.25091	0.40094	<i>KTI12</i>		
ENSG00000181323	17	7313679	7334951	43	19	40412	0.25055	0.40108	<i>SPEM1</i>		
ENSG00000166482	17	19276755	19300553	15	7	48280	0.25028	0.40119	<i>MFAP4</i>		
ENSG00000154025	17	18843658	18935908	167	53	39129	0.25008	0.40126	<i>SLC5A10</i>		
ENSG00000176490	19	2704565	2731416	124	20	40844	0.24994	0.40132	<i>DIRAS1</i>		
ENSG00000119414	9	127898852	127962218	173	15	53972	0.24987	0.40135	<i>PPP6C</i>		
ENSG00000138297	10	51582080	51633365	23	9	46062	0.24969	0.40141	<i>TIMM23</i>		
ENSG00000187676	13	31764073	31916413	431	52	41506	0.24961	0.40144	<i>B3GALTL</i>		
ENSG00000111981	6	150275143	150304846	67	13	29666	0.24954	0.40147	<i>ULBP1</i>		
ENSG00000203760	6	126651320	126680021	37	8	33366	0.24952	0.40148	<i>CENPW</i>		
ENSG00000166896	12	58325324	58361052	113	12	29817	0.24946	0.4015	<i>XRCC6BP1</i>		
ENSG00000151418	1	198482352	198520075	95	17	36496	0.24933	0.40155	<i>ATP6V1G3</i>		
ENSG00000231192	3	97841542	97862483	75	7	50102	0.2492	0.4016	<i>OR5H1</i>		
ENSG00000119231	3	196584727	196671585	254	24	34540	0.24902	0.40167	<i>SEN5P</i>		
ENSG00000138071	2	65444887	65508387	196	20	42370	0.24875	0.40178	<i>ACTR2</i>		
ENSG00000173876	10	82828	130103	124	21	40294	0.2485	0.40187	<i>TUBB8</i>		
ENSG00000132467	4	71544196	71566267	33	11	41221	0.24838	0.40192	<i>UTP3</i>		
ENSG00000154473	10	124903793	124934886	63	10	46219	0.24834	0.40194	<i>BUB3</i>		
ENSG00000203910	1	92673497	92721370	85	13	27498	0.24795	0.40209	<i>C1orf146</i>		
ENSG00000068903	19	39359197	39400502	90	24	37495	0.24784	0.40213	<i>SIRT2</i>		
ENSG00000091106	2	32439522	32500923	155	20	53364	0.24759	0.40222	<i>NLRC4</i>		
ENSG00000145284	4	83540692	83730010	993	99	42618	0.24721	0.40237	<i>SCD5</i>		
ENSG00000166111	12	109294658	109469045	283	62	45204	0.24723	0.40237	<i>SVOP</i>		
ENSG00000183386	1	38452442	38481278	60	26	41403	0.2472	0.40238	<i>FHL3</i>		
ENSG00000119203	2	9553697	9623230	158	15	34474	0.24701	0.40245	<i>CPSF3</i>		
ENSG00000155926	8	134038973	134125298	384	36	48483	0.24683	0.40252	<i>SLA</i>		
ENSG00000099968	22	18101621	18223388	513	42	40187	0.24663	0.4026	<i>BCL2L13</i>		
ENSG00000198768	20	57024157	57100187	221	55	45731	0.24655	0.40263	<i>APCDD1L</i>		
ENSG00000112306	6	133125580	133148703	125	18	44376	0.24649	0.40265	<i>RPS12</i>		
ENSG00000154654	21	22360633	22925650	2012	175	47440	0.2462	0.40277	<i>NCAM2</i>		
ENSG00000097021	1	6314329	6464451	582	52	35056	0.24599	0.40284	<i>ACOT7</i>		
ENSG00000204683	10	21404692	21445488	94	16	40283	0.24601	0.40284	<i>C10orf113</i>		

ENSG00000004660	17	3753609	3808185	144	48	38408	0.24577	0.40293	CAMKK1		
ENSG00000185860	1	162784248	162848605	274	41	40835	0.24576	0.40294	C1orf110		
ENSG00000259003	14	23015534	23037939	145	22	36580	0.24559	0.403	AE000662.92		
ENSG00000066322	1	43819068	43843696	46	12	45358	0.24554	0.40302	ELOVL1		
ENSG00000048740	10	11037259	11388674	1274	146	41347	0.24507	0.4032	CELF2		
ENSG00000128609	7	123167051	123208309	109	16	54620	0.24504	0.40321	NDUFA5		
ENSG00000110108	11	60671346	60700915	71	11	39133	0.24505	0.40321	TMEM109		
ENSG00000170128	1	200832083	200853306	93	18	38279	0.24498	0.40324	GPR25		
ENSG00000126821	14	64140932	64204757	101	12	35451	0.24498	0.40324	SGPP1		
ENSG00000176087	5	139934041	139958688	36	11	48750	0.2449	0.40327	SLC35A4		
ENSG00000181965	5	134859991	134881639	54	17	42247	0.24487	0.40328	NEUROG1		
ENSG00000065183	1	118462343	118519165	119	14	31539	0.24464	0.40337	WDR3		
ENSG00000137547	8	55037770	55070461	31	12	41158	0.24421	0.40353	MRPL15		
ENSG00000204694	6	29383281	29434848	212	20	27079	0.24406	0.40359	OR11A1		
ENSG00000107738	10	73497316	73543255	191	40	50576	0.2437	0.40373	C10orf54		
ENSG00000213215	7	143647027	143668108	78	11	42633	0.24363	0.40376	OR2F1		
ENSG00000100191	22	32604465	32661328	247	36	45289	0.24353	0.4038	SLC5A4		
ENSG00000176984	11	120029685	120052387	58	15	39090	0.24339	0.40385	AP000679.2		
ENSG00000113205	5	140470234	140493406	70	7	52987	0.24335	0.40387	PCDHB3		
ENSG00000153930	17	54178319	54599020	1032	95	44240	0.2433	0.40389	ANKFN1		
ENSG00000124688	6	43587277	43618689	68	15	41899	0.24311	0.40396	MAD2L1BP		
ENSG00000140396	8	71011997	71326040	532	38	38718	0.24307	0.40397	NCOA2		
ENSG00000082515	5	154310630	154358971	124	17	44705	0.24265	0.40414	MRPL22		
ENSG00000151332	14	36757770	36799882	56	15	47749	0.2426	0.40416	MBIP		
ENSG00000255767	2	3569574	3605547	102	19	50961	0.24255	0.40418	RP13-512J5.1		
ENSG00000179409	17	637654	667239	112	22	47265	0.24238	0.40424	GEMIN4		
ENSG00000196458	12	133488019	133542892	75	18	42868	0.24237	0.40425	ZNF605		
ENSG00000221926	17	15521274	15597625	200	35	42578	0.24236	0.40425	TRIM16		
ENSG00000103502	16	29859678	29885057	26	6	48421	0.2423	0.40427	CDIPT		
ENSG00000168291	3	58403357	58429584	123	15	36855	0.24221	0.40431	PDHB		
ENSG00000171956	15	60286421	60363929	253	38	37113	0.24218	0.40432	FOXB1		
ENSG00000178700	3	93756680	93792233	31	12	42159	0.24214	0.40433	DHFRL1		
ENSG00000183695	11	19066002	19092228	137	18	48289	0.24212	0.40434	MRGPRX2		
ENSG00000213965	19	33172867	33214702	119	18	46303	0.24207	0.40436	NUDT19		
ENSG00000168772	4	105379469	105426058	61	14	39373	0.24205	0.40437	CXXC4		
ENSG00000144550	3	9735491	9781592	99	33	48376	0.24172	0.4045	CPNE9		

ENSG00000205060	7	133964084	134011803	136	7	46524	0.24173	0.4045	SLC35B4		
ENSG00000177984	9	139644086	139670707	128	10	39001	0.24169	0.40451	LCN15		
ENSG00000137409	6	36925917	36964074	158	25	44042	0.24152	0.40458	MTCH1		
ENSG00000159307	22	43583289	43749394	757	123	42832	0.24095	0.4048	SCUBE1		
ENSG00000178636	4	120103928	120143799	137	20	55728	0.24092	0.40481	RP11-455G16.1		
ENSG00000139304	12	80789774	81082802	839	77	33487	0.24073	0.40488	PTPRQ		
ENSG00000167617	19	54966210	54994411	124	30	44153	0.24074	0.40488	CDC42EP5		
ENSG00000189184	4	138430072	138463648	109	25	46720	0.24071	0.40489	PCDH18		
ENSG00000198793	1	11156592	11332564	385	19	24857	0.24066	0.40491	MTOR		
ENSG00000168887	2	85823777	85849189	43	10	34675	0.24062	0.40492	C2orf68		
ENSG00000041353	18	52375091	52572747	673	56	46424	0.24054	0.40495	RAB27B		
ENSG00000151553	10	116571503	116669591	315	24	45106	0.24032	0.40504	FAM160B1		
ENSG00000196505	1	118396107	118482253	112	20	35897	0.2403	0.40505	GDAP2		
ENSG00000159140	21	34904924	34959812	64	13	51942	0.24003	0.40515	SON		
ENSG00000170476	5	138713169	138735770	27	4	25614	0.23967	0.40529	MZB1		
ENSG00000143126	1	109782641	109828372	140	31	45815	0.23962	0.40531	CELSR2		
ENSG00000165553	14	77721826	77747655	88	19	41217	0.23958	0.40533	NGB		
ENSG00000183020	11	914894	1022239	366	18	31267	0.23944	0.40538	AP2A2		
ENSG00000100320	22	36124783	36434473	450	48	45019	0.23943	0.40539	RBFOX2		
ENSG00000155465	14	23232431	23309029	328	56	44260	0.23939	0.4054	SLC7A7		
ENSG00000268809	2	105872490	105892585	47	13	34072	0.23923	0.40546	AC012360.2		
ENSG00000171723	14	66964125	67658520	2338	42	43841	0.23899	0.40556	GPHN		
ENSG00000183598	1	149774826	149795236	36	5	50375	0.23894	0.40558	HIST2H3D		
ENSG00000170579	18	3486030	4465335	3394	351	44515	0.23865	0.40569	DLGAP1		
ENSG00000177800	1	229375383	229397557	65	12	54952	0.23851	0.40574	TMEM78		
ENSG00000175262	1	10996528	11052094	213	30	26343	0.2381	0.4059	C1orf127		
ENSG00000140987	16	3422085	3461065	102	16	50748	0.23808	0.40591	ZSCAN32		
ENSG00000123989	2	220393669	220418509	63	11	45757	0.23788	0.40599	CHPF		
ENSG00000180913	11	6139840	6160706	73	12	31752	0.23779	0.40602	OR56B3P		
ENSG00000126254	19	36109932	36138588	67	15	40807	0.23778	0.40603	RBM42		
ENSG00000178522	4	71447973	71483005	133	30	37588	0.23737	0.40619	AMBN		
ENSG00000145916	5	177547997	177587566	130	17	53574	0.23683	0.40639	RMND5B		
ENSG00000204671	12	122646577	122668746	72	10	49842	0.23672	0.40644	IL31		
ENSG00000092439	15	50834670	50989012	574	37	49716	0.23646	0.40654	TRPM7		
ENSG00000102678	13	22235522	22288637	126	26	49340	0.23632	0.40659	FGF9		
ENSG00000184564	13	86356925	86383623	148	13	44954	0.23625	0.40662	SLITRK6		

ENSG00000175077	3	186905274	186929253	74	16	42966	0.23616	0.40665	RTP1		
ENSG00000250210	8	132091	160563	20	7	36468	0.23614	0.40666	RP11-585F1.10		
ENSG00000120051	10	106103522	106224848	253	47	45907	0.23592	0.40675	CCDC147		
ENSG00000188133	9	32773497	32797397	79	12	42885	0.23588	0.40676	TMEM215		
ENSG00000148950	11	31443948	31541192	133	12	33993	0.2356	0.40687	IMMP1L		
ENSG00000134115	3	1124260	1455901	1731	186	42747	0.2353	0.40699	CNTN6		
ENSG00000122584	7	8463585	8802593	1607	119	45239	0.23508	0.40707	NXPH1		
ENSG00000159479	1	43839588	43865479	53	12	41310	0.23492	0.40713	MED8		
ENSG00000187678	5	141679992	141716020	104	19	46168	0.23491	0.40714	SPRY4		
ENSG00000172361	18	47743563	47802892	142	16	49705	0.23476	0.4072	CCDC11		
ENSG00000198056	12	57115380	57156157	73	12	44835	0.23469	0.40722	PRIM1		
ENSG00000204371	6	31837536	31875464	136	32	33187	0.23454	0.40728	EHMT2		
ENSG00000031003	5	137263649	137397650	330	24	52488	0.23438	0.40735	FAM13B		
ENSG00000187003	9	111614603	111636035	109	21	49309	0.23424	0.4074	ACTL7A		
ENSG00000074964	1	17856330	18034369	485	72	51117	0.23396	0.40751	ARHGEF10L		
ENSG00000119906	10	102662326	102734893	123	18	36033	0.23394	0.40752	FAM178A		
ENSG00000143772	1	226809391	226937024	267	48	47561	0.23389	0.40753	ITPKB		
ENSG00000168348	14	35993248	36016260	23	7	37148	0.23367	0.40762	INSM2		
ENSG00000159352	1	151217179	151249955	47	8	56010	0.23363	0.40763	PSMD4		
ENSG00000186943	9	107321449	107342411	57	9	31504	0.23365	0.40763	OR13C8		
ENSG00000063245	19	56176592	56231224	219	38	45477	0.23345	0.4077	EPN1		
ENSG00000005882	17	48162101	48199516	110	21	38670	0.23335	0.40775	PDK2		
ENSG00000185115	15	29550353	29572033	59	12	44029	0.23321	0.4078	NDNL2		
ENSG00000153012	4	24990469	25042501	236	45	37697	0.23278	0.40796	LGI2		
ENSG00000189283	3	59725036	61247133	6975	448	43684	0.23262	0.40803	FHIT		
ENSG00000119041	2	197617756	197674449	94	19	40932	0.2326	0.40804	GTF3C3		
ENSG00000123454	9	136491482	136534466	212	52	39177	0.23242	0.40811	DBH		
ENSG00000106976	9	130955658	131027527	176	31	38472	0.23228	0.40816	DNM1		
ENSG00000171853	2	3373446	3498865	527	65	44443	0.23226	0.40817	TRAPPC12		
ENSG00000204130	10	70090864	70177051	217	17	39853	0.23218	0.4082	RUFY2		
ENSG00000158195	1	27720730	27826669	169	21	37932	0.23216	0.40821	WASF2		
ENSG00000188770	1	203453271	203487992	142	24	48110	0.23192	0.4083	OPTC		
ENSG00000163751	3	148573043	148624983	233	17	36550	0.23172	0.40838	CPA3		
ENSG00000141510	17	7555097	7600856	138	31	34130	0.23165	0.40841	TP53		
ENSG00000183559	10	124447225	124469338	76	18	48122	0.2315	0.40846	C10orf120		
ENSG00000078140	4	39689664	39794412	350	28	44336	0.23146	0.40848	UBE2K		

ENSG00000183527	21	40536695	40565777	117	12	50585	0.23146	0.40848	PSMG1		
ENSG00000033170	14	65867310	66220839	973	75	42075	0.23135	0.40852	FUT8		
ENSG00000214140	17	74513668	74559660	138	25	39879	0.23122	0.40857	PRCD		
ENSG00000170613	5	156578857	156603275	76	13	50466	0.23115	0.4086	FAM71B		
ENSG00000005421	7	94916988	95035673	279	42	44706	0.2308	0.40873	PON1		
ENSG00000068831	11	64484383	64522928	51	8	34955	0.23081	0.40873	RASGRP2		
ENSG00000163754	3	148699128	148755419	129	21	50420	0.23073	0.40876	GYG1		
ENSG00000181104	5	76001868	76041606	107	19	45400	0.23063	0.4088	F2R		
ENSG00000196266	1	159273460	159294449	51	12	40648	0.23048	0.40886	OR10J3		
ENSG00000121851	1	145446236	145480388	10	7	44305	0.23032	0.40892	POLR3GL		
ENSG00000145414	4	164021225	164098073	181	24	51900	0.23011	0.409	NAF1		
ENSG00000088876	20	2452463	2515348	158	40	42407	0.23012	0.409	ZNF343		
ENSG00000153310	8	130841839	131039375	448	63	49004	0.23003	0.40903	FAM49B		
ENSG00000162927	2	61157357	61255394	186	35	42871	0.22979	0.40913	PUS10		
ENSG00000062194	5	56459775	56570506	243	36	46227	0.22979	0.40913	GPBP1		
ENSG00000167653	8	143741726	143774142	145	16	41119	0.22965	0.40918	PSCA		
ENSG00000196208	2	11664242	11792914	405	68	38997	0.22963	0.40919	GREB1		
ENSG00000133275	19	1931188	1991337	258	33	37679	0.22964	0.40919	CSNK1G2		
ENSG00000179639	1	159249504	159288014	102	20	42429	0.22936	0.40929	FCER1A		
ENSG00000119446	9	124989903	125037118	113	21	42432	0.22914	0.40938	RBM18		
ENSG00000007001	2	158723214	159002666	856	105	35362	0.22887	0.40949	UPP2		
ENSG00000172432	6	43563053	43606899	88	19	42316	0.22881	0.40951	GTPBP2		
ENSG00000186625	6	149906009	149980108	159	8	28577	0.22879	0.40952	KATNA1		
ENSG00000110851	12	108116643	108165049	154	13	29981	0.22866	0.40957	PRDM4		
ENSG00000063660	2	241365088	241417493	234	48	44714	0.22858	0.4096	GPC1		
ENSG00000227164	20	52095495	52116164	106	9	53017	0.22833	0.40969	AL354993.1		
ENSG00000070413	22	19013795	19119967	497	31	44438	0.22833	0.40969	DGCR2		
ENSG00000162456	1	47001316	47027199	68	15	42802	0.2282	0.40974	KNCN		
ENSG00000036530	14	100140641	100203638	178	30	49667	0.2282	0.40975	CYP46A1		
ENSG00000107443	10	97793151	97830627	78	18	45252	0.22798	0.40983	CCNJ		
ENSG00000138792	4	111276889	111496441	700	83	50549	0.22782	0.40989	ENPEP		
ENSG00000101327	20	1949403	1984732	62	16	33896	0.22762	0.40997	PDYN		
ENSG00000179933	14	23553974	23579665	98	18	48127	0.22734	0.41008	C14orf119		
ENSG00000165886	10	99248625	99340966	228	27	36186	0.22726	0.41011	UBTD1		
ENSG00000103942	15	83499838	83664661	424	51	48015	0.22688	0.41026	HOMER2		
ENSG00000170236	15	50782759	50848905	265	28	49200	0.22642	0.41044	USP50		

ENSG00000159388	1	203264619	203288730	56	18	45519	0.22628	0.41049	BTG2		
ENSG00000132603	16	69363333	69387014	57	13	54192	0.22608	0.41057	NIP7		
ENSG00000124089	20	54813788	54834871	94	19	38117	0.22607	0.41057	MC3R		
ENSG00000121381	12	10951693	10972767	36	8	38606	0.22596	0.41062	TAS2R9		
ENSG00000271949	1	90088699	90408809	646	65	52056	0.2259	0.41064	RP11-302M6.4		
ENSG00000128891	15	40810882	40867256	169	15	32642	0.22577	0.41069	C15orf57		
ENSG00000197723	17	40264756	40285371	38	4	25931	0.22573	0.41071	HSPB9		
ENSG00000268882	10	135182720	135203102	84	12	33217	0.22539	0.41084	AL360181.1		
ENSG00000185933	10	105203144	105228645	65	17	51682	0.22537	0.41085	CALHM1		
ENSG00000258484	15	69100560	69249150	257	40	36552	0.22532	0.41086	SPESP1		
ENSG00000134343	11	26200829	26694835	2959	160	48818	0.22525	0.41089	ANO3		
ENSG00000169894	7	100537187	100621118	124	29	43096	0.22518	0.41092	MUC3A		
ENSG00000179520	12	100740857	100825837	227	42	47736	0.22515	0.41093	SLC17A8		
ENSG00000196361	19	11552141	11601861	152	31	35311	0.22516	0.41093	ELAVL3		
ENSG00000159905	19	44445375	44481861	129	17	44088	0.22482	0.41106	ZNF221		
ENSG00000166169	10	103328639	103358027	54	7	45399	0.22479	0.41107	POLL		
ENSG00000204653	19	51004857	51027947	78	18	40801	0.22468	0.41111	ASPDH		
ENSG00000170540	16	18792991	18823000	60	11	47284	0.22441	0.41122	ARL6IP1		
ENSG00000164597	7	106832000	107214959	908	45	51452	0.22435	0.41124	COG5		
ENSG00000132518	17	7895912	7933657	107	24	47380	0.22431	0.41126	GUCY2D		
ENSG00000160218	21	45422200	45536433	230	18	29896	0.22423	0.41129	TRAPPC10		
ENSG00000181039	1	145460508	145485646	11	7	44229	0.22415	0.41132	ANKRD34A		
ENSG00000165097	6	18145560	18234084	338	44	50645	0.22383	0.41145	KDM1B		
ENSG00000100387	22	41337351	41379313	46	15	44112	0.22379	0.41146	RBX1		
ENSG00000143869	2	20856424	20883418	87	26	47411	0.22377	0.41147	GDF7		
ENSG00000138660	4	113142893	113201203	120	14	36322	0.22359	0.41154	AP1AR		
ENSG00000174917	19	5668432	5690907	53	14	49270	0.22326	0.41167	C19orf70		
ENSG00000164303	4	184999859	185152383	557	74	44193	0.22307	0.41174	ENPP6		
ENSG00000152214	18	40313192	40705657	989	109	43165	0.22291	0.4118	RIT2		
ENSG00000131375	3	15237659	15304425	88	19	35586	0.22287	0.41182	CAPN7		
ENSG00000090686	1	21994791	22120099	483	57	45991	0.2226	0.41192	USP48		
ENSG00000248050	8	110646344	110670313	62	16	43788	0.22242	0.41199	RP11-422N16.3		
ENSG00000198270	12	112359086	112460970	154	8	46911	0.22241	0.412	TMEM116		
ENSG00000116815	1	117047157	117123661	101	20	34948	0.22214	0.4121	CD58		
ENSG00000162888	1	206654449	206681061	87	17	44117	0.2219	0.4122	C1orf147		
ENSG00000185236	19	8444865	8479318	158	25	51587	0.2219	0.4122	RAB11B		

ENSG00000081026	1	113923371	114238545	737	52	41793	0.22162	0.4123	MAGI3		
ENSG00000198225	6	63911351	63932929	86	6	56123	0.22152	0.41234	FKBP1C		
ENSG00000128739	15	25058794	25233870	691	137	48194	0.22128	0.41244	SNRPN		
ENSG00000157911	1	2326236	2355236	96	23	45201	0.22121	0.41247	PEX10		
ENSG00000155974	12	66731211	67207966	1745	168	51861	0.22113	0.41249	GRIP1		
ENSG00000196711	8	53436597	53488067	125	16	38071	0.22089	0.41259	FAM150A		
ENSG00000171522	5	40669600	40703837	101	15	44473	0.22061	0.4127	PTGER4		
ENSG00000113742	5	173305283	173398979	249	25	37474	0.22042	0.41277	CPEB4		
ENSG00000180336	17	42723762	42777676	107	21	49833	0.22043	0.41277	C17orf104		
ENSG00000162704	1	183582401	183614892	214	9	24577	0.22041	0.41278	ARPC5		
ENSG00000163590	3	160463390	160806695	940	76	43183	0.22031	0.41281	PPM1L		
ENSG00000170215	9	67782938	67804111	1	1	42735	0.22009	0.4129	FAM27B		
ENSG00000135974	2	105943816	105975668	119	17	49832	0.21994	0.41296	C2orf49		
ENSG00000106537	7	16783160	16834161	268	52	49278	0.21993	0.41296	TSPAN13		
ENSG00000127914	7	91560181	91749987	387	12	52734	0.21994	0.41296	AKAP9		
ENSG00000147454	8	23376318	23442976	420	53	46629	0.21947	0.41314	SLC25A37		
ENSG00000103269	16	715666	738268	59	17	39797	0.21929	0.41321	RHBDL1		
ENSG00000204231	6	33151365	33178630	73	16	48716	0.21916	0.41326	RXRB		
ENSG00000143373	1	151244094	151274656	37	8	50403	0.21891	0.41336	ZNF687		
ENSG00000183729	8	53840991	53863677	122	17	44625	0.21885	0.41338	NPBWR1		
ENSG00000136643	1	213214589	213458116	348	35	50358	0.21863	0.41347	RPS6KC1		
ENSG00000186297	15	27101510	27204354	294	59	44400	0.21836	0.41357	GABRA5		
ENSG00000246223	14	98381947	98454461	283	38	42539	0.21835	0.41358	C14orf64		
ENSG00000196850	12	110959120	111031125	191	16	32127	0.21826	0.41361	PPTC7		
ENSG00000170262	21	33654124	33697095	104	24	42047	0.21811	0.41367	MRAP		
ENSG00000091536	17	18002020	18093116	184	26	36704	0.21787	0.41377	MYO15A		
ENSG00000144647	3	43110724	43157568	107	18	54586	0.21755	0.41389	POMGNT2		
ENSG00000182853	17	4678580	4699728	59	13	40277	0.21745	0.41393	VMO1		
ENSG00000096063	6	35790743	35899119	295	14	51377	0.21743	0.41394	SRPK1		
ENSG00000214688	10	73461458	73507581	104	21	44742	0.21735	0.41397	C10orf105		
ENSG00000269279	1	116905890	116936718	58	9	25750	0.21726	0.414	AL136376.1		
ENSG00000072444	10	47991603	48065018	3	2	42872	0.21714	0.41405	ASA2C		
ENSG00000177879	5	115167178	115259778	190	31	49622	0.21705	0.41408	AP3S1		
ENSG00000260342	16	18789385	18822841	75	12	46377	0.21679	0.41419	RP11-1035H13.3		
ENSG00000129480	14	31905242	31936716	72	8	51752	0.21672	0.41421	DTD2		
ENSG00000031698	1	109746540	109790791	104	21	46255	0.21665	0.41424	SARS		

ENSG00000203780	10	127575108	127708161	383	29	51796	0.21661	0.41426	FANK1		
ENSG00000082146	2	202242581	202355569	191	17	39945	0.21654	0.41428	STRADB		
ENSG00000105738	19	38387868	38709012	919	95	42386	0.21654	0.41429	SIPA1L3		
ENSG00000213445	11	65395568	65428401	50	14	41584	0.21651	0.4143	SIPA1		
ENSG00000214306	11	107633129	107657344	88	17	53243	0.21627	0.41439	AP001024.2		
ENSG00000267318	17	58008269	58060462	90	16	38456	0.21625	0.4144	RP11-178C3.1		
ENSG00000205544	17	7296294	7317456	49	19	47901	0.21623	0.41441	TMEM256		
ENSG00000137766	15	54295101	54930806	2860	207	46251	0.21538	0.41474	UNC13C		
ENSG00000130283	19	18969361	19016905	122	28	46905	0.21526	0.41478	GDF1		
ENSG00000185669	16	88734090	88762901	90	20	52038	0.21508	0.41485	SNAI3		
ENSG00000122778	7	138506126	138676064	559	70	40241	0.21506	0.41486	KIAA1549		
ENSG00000203757	1	158676958	158697953	57	7	46150	0.21493	0.41491	OR6K3		
ENSG00000115808	2	37060783	37203615	385	40	43892	0.21492	0.41492	STRN		
ENSG00000087250	16	56612986	56635000	98	19	46354	0.21488	0.41493	MT3		
ENSG00000135069	9	80902059	80955009	231	40	43598	0.21478	0.41497	PSAT1		
ENSG00000174521	19	40711965	40734306	46	14	45625	0.2146	0.41504	TTC9B		
ENSG00000048540	12	16691307	16773528	98	34	46896	0.21455	0.41506	LMO3		
ENSG00000124203	20	57756075	57844168	273	48	38724	0.21451	0.41507	ZNF831		
ENSG00000196705	19	21314827	21383034	185	26	46586	0.21442	0.41511	ZNF431		
ENSG00000273266	12	54437661	54459814	40	14	52454	0.21421	0.41519	HOXC4		
ENSG00000185963	9	95463645	95537094	187	15	31416	0.21416	0.41521	BICD2		
ENSG00000254440	6	138527129	138549627	67	8	25906	0.21408	0.41524	PBOV1		
ENSG00000156011	8	18374811	18952240	3097	260	45247	0.21396	0.41529	PSD3		
ENSG00000182224	17	7751064	7775600	61	15	38384	0.21366	0.41541	CYB5D1		
ENSG00000140848	16	57116449	57191878	270	56	39863	0.21332	0.41554	CPNE2		
ENSG00000158985	5	130571186	130744140	257	25	33945	0.21317	0.4156	CDC42SE2		
ENSG00000170927	6	51470098	51962423	1803	106	43816	0.213	0.41567	PKHD1		
ENSG00000132386	17	1655253	1690868	151	24	45407	0.21294	0.41569	SERPINF1		
ENSG00000112761	6	112365275	112402171	82	13	53601	0.21269	0.41579	WISP3		
ENSG00000165125	7	142558956	142593507	105	12	23034	0.21264	0.4158	TRPV6		
ENSG00000162105	11	70303961	70973623	2053	231	44162	0.21266	0.4158	SHANK2		
ENSG00000132522	17	7204643	7228883	63	13	48671	0.21263	0.41581	GPS2		
ENSG00000160961	19	14790613	14854558	274	34	46497	0.21261	0.41582	ZNF333		
ENSG00000198042	8	33332268	33368778	133	12	49344	0.21248	0.41587	MAK16		
ENSG00000165521	14	89068775	89269096	417	35	36873	0.21242	0.41589	EML5		
ENSG00000153814	7	27860192	28230362	1047	131	46954	0.21228	0.41594	JAZF1		

ENSG00000174231	17	1543923	1598176	178	20	41119	0.21228	0.41594	PRPF8		
ENSG00000163535	2	201364731	201458505	244	29	54196	0.21221	0.41597	SGOL2		
ENSG00000162129	11	71993469	72155692	277	30	39537	0.21204	0.41604	CLPB		
ENSG00000166347	18	71910530	71969251	260	26	47903	0.21201	0.41605	CYB5A		
ENSG00000157404	4	55514085	55616881	279	44	43602	0.21183	0.41612	KIT		
ENSG00000197782	19	40565059	40606845	154	14	31890	0.21167	0.41618	ZNF780A		
ENSG00000168813	19	32826500	32888573	153	21	37169	0.21165	0.41619	ZNF507		
ENSG00000137955	1	76241879	76270764	109	18	37005	0.21164	0.4162	RABGGTB		
ENSG00000235750	1	175116123	175172135	197	26	43610	0.21156	0.41623	KIAA0040		
ENSG00000205220	16	67958405	67980990	16	5	31561	0.21148	0.41626	PSMB10		
ENSG00000136944	9	129366722	129473311	359	56	43899	0.21112	0.4164	LMX1B		
ENSG00000175215	12	58203710	58250522	63	10	34958	0.211	0.41644	CTDSP2		
ENSG00000188626	15	28937100	28993530	47	11	31404	0.21091	0.41648	GOLGA8M		
ENSG00000071909	2	171024655	171521681	1773	220	43991	0.21087	0.41649	MYO3B		
ENSG00000105707	19	35521410	35567475	115	23	49613	0.21088	0.41649	HPN		
ENSG00000103249	16	1484935	1535581	346	43	46703	0.21081	0.41652	CLCN7		
ENSG00000119820	2	32492979	32551663	141	29	44692	0.21057	0.41661	YIPF4		
ENSG00000129422	8	17491304	17668426	1146	122	39556	0.21057	0.41661	MTUS1		
ENSG00000183549	16	20410856	20462658	256	21	40345	0.21024	0.41674	ACSM5		
ENSG00000198077	19	41371344	41398657	117	20	47258	0.21011	0.41679	CYP2A7		
ENSG00000112530	6	163138164	163746524	2020	198	41699	0.2101	0.4168	PACRG		
ENSG00000167306	18	47339183	47731463	1615	124	47156	0.20983	0.4169	MYO5B		
ENSG00000105609	19	54744263	54771164	106	31	43208	0.20976	0.41693	LILRB5		
ENSG00000140459	15	74620100	74670081	117	18	37240	0.20952	0.41702	CYP11A1		
ENSG00000259132	14	23405479	23461467	110	14	41178	0.20936	0.41708	RP11-298I3.5		
ENSG00000177192	12	132403745	132438406	93	15	31258	0.20931	0.4171	PUS1		
ENSG00000165568	10	4818821	4900254	599	44	50042	0.20915	0.41716	AKR1E2		
ENSG00000010318	3	52434673	52467657	35	12	54564	0.20913	0.41717	PHF7		
ENSG00000145321	4	72597410	72679758	201	29	40659	0.20886	0.41728	GC		
ENSG00000162946	1	231752561	232187018	1344	185	49083	0.20879	0.41731	DISC1		
ENSG00000163882	3	184069506	184096384	67	18	44023	0.20853	0.41741	POLR2H		
ENSG00000076650	19	33561786	33631448	217	18	30259	0.20831	0.41749	GPATCH1		
ENSG00000128322	22	23905312	23932495	119	32	43938	0.2083	0.4175	IGLL1		
ENSG00000196591	6	114244192	114342472	273	38	54576	0.20819	0.41754	HDAC2		
ENSG00000162576	1	1278069	1307157	84	13	38099	0.20801	0.41761	MXRA8		
ENSG00000109861	11	88016760	88080955	241	32	41455	0.20802	0.41761	CTSC		

ENSG00000179715	12	47463386	47640443	567	81	40019	0.20778	0.4177	PCED1B		
ENSG00000166454	16	81059452	81090963	88	13	38187	0.20778	0.4177	ATMIN		
ENSG00000072210	17	19541449	19590911	155	15	52762	0.20773	0.41772	ALDH3A2		
ENSG00000134108	3	5153905	5232596	240	25	35086	0.20763	0.41776	ARL8B		
ENSG00000114850	3	156247929	156282973	112	16	54987	0.20763	0.41776	SSR3		
ENSG00000169246	16	21403558	21469888	1	1	42438	0.20752	0.4178	NP1PB3		
ENSG00000228594	1	1523392	1545476	32	10	43465	0.20748	0.41782	C1orf233		
ENSG00000157106	16	18806175	18947776	436	27	48374	0.20737	0.41786	SMG1		
ENSG00000118495	6	144251437	144395735	435	75	50870	0.20731	0.41788	PLAGL1		
ENSG00000157782	12	121068355	121115127	189	34	46247	0.20732	0.41788	CABP1		
ENSG00000165379	14	42066773	42383752	1224	82	43694	0.20732	0.41788	LRFN5		
ENSG00000166886	12	57472677	57499259	53	13	48353	0.2073	0.41789	NAB2		
ENSG00000131126	19	43895648	43932763	114	15	37934	0.2072	0.41793	TEX101		
ENSG00000144642	3	29312473	30061886	3091	285	45203	0.20714	0.41795	RBMS3		
ENSG00000248483	5	93060508	93087343	35	8	47825	0.20701	0.418	POU5F2		
ENSG00000143340	1	179702298	179795333	344	48	44783	0.20698	0.41801	FAM163A		
ENSG00000005102	17	41707756	41749322	121	22	39750	0.207	0.41801	MEOX1		
ENSG00000139372	12	104349582	104392652	203	29	45586	0.20623	0.4183	TDG		
ENSG00000162885	1	235603238	235677781	191	24	32581	0.20621	0.41831	B3GALNT2		
ENSG00000110367	11	118610034	118671858	165	18	54775	0.20614	0.41834	DDX6		
ENSG00000170469	5	138722252	138749777	30	6	27795	0.20608	0.41836	SPATA24		
ENSG00000206483	3	126280625	126337398	197	32	42243	0.2058	0.41847	TXNRD3NB		
ENSG00000134247	1	117442679	117542980	257	39	42302	0.20547	0.4186	PTGFRN		
ENSG00000154582	8	74841404	74894522	170	25	45053	0.20546	0.41861	TCEB1		
ENSG00000100350	22	36873237	36913148	140	22	38981	0.20533	0.41866	FOXRED2		
ENSG00000226124	2	200615267	200725896	253	50	45432	0.2053	0.41867	FTCDNL1		
ENSG00000250673	4	147135709	147160208	67	15	41894	0.20527	0.41868	RP11-6L6.2		
ENSG00000154080	18	24485595	24775281	938	85	47684	0.20528	0.41868	CHST9		
ENSG00000160883	5	176297870	176336333	94	25	44425	0.20504	0.41877	HK3		
ENSG00000139921	14	51696880	51732759	125	18	44692	0.20499	0.41879	TMX1		
ENSG00000091262	16	16232785	16327379	346	51	42228	0.20481	0.41886	ABCC6		
ENSG00000115232	2	182311929	182410914	329	40	49749	0.20476	0.41888	ITGA4		
ENSG00000136146	13	48617459	48679267	224	30	43775	0.20467	0.41891	MED4		
ENSG00000132109	11	4396127	4424926	156	16	49241	0.20458	0.41895	TRIM21		
ENSG00000133937	14	95224553	95246562	60	19	43302	0.20457	0.41895	GSC		
ENSG00000142675	1	26493894	26526377	93	16	42271	0.20439	0.41903	CNKSR1		

ENSG00000204006	1	51557906	51623752	103	17	40126	0.20431	0.41906	<i>C1orf185</i>		
ENSG00000186847	17	39728531	39753173	87	6	53020	0.20396	0.41919	<i>KRT14</i>		
ENSG00000149506	11	60625035	60653166	72	17	40638	0.20393	0.4192	<i>ZP1</i>		
ENSG00000143324	1	180591140	180869387	608	51	52158	0.20388	0.41922	<i>XPR1</i>		
ENSG00000219492	4	9375743	9400709	119	19	42858	0.20371	0.41929	<i>RP11-1396O13.13</i>		
ENSG00000124155	20	44034717	44064884	62	19	43957	0.20346	0.41939	<i>PIGT</i>		
ENSG00000204120	2	233552009	233735285	535	37	47363	0.20272	0.41968	<i>GIGYF2</i>		
ENSG00000066651	6	126297576	126370422	79	6	47812	0.20262	0.41972	<i>TRMT11</i>		
ENSG00000153551	3	32423163	32534559	481	66	52358	0.20249	0.41977	<i>CMTM7</i>		
ENSG00000166025	11	94429597	94619918	359	53	45337	0.20234	0.41982	<i>AMOTL1</i>		
ENSG00000122787	7	137677070	137812732	376	52	49313	0.20208	0.41993	<i>AKR1D1</i>		
ENSG00000215529	20	31436729	31559006	415	52	44551	0.20208	0.41993	<i>EFCAB8</i>		
ENSG00000158715	1	205616979	205659587	149	29	38101	0.20155	0.42013	<i>SLC45A3</i>		
ENSG00000237651	2	61362243	61401964	151	10	51030	0.2012	0.42027	<i>C2orf74</i>		
ENSG00000172339	1	95429963	95548501	403	42	49873	0.20083	0.42042	<i>ALG14</i>		
ENSG00000091181	3	3101233	3178297	351	95	45781	0.2008	0.42043	<i>IL5RA</i>		
ENSG00000166292	17	53786988	53819482	57	16	42343	0.20068	0.42048	<i>TMEM100</i>		
ENSG00000187474	19	52288416	52339442	235	32	51670	0.20066	0.42048	<i>FPR3</i>		
ENSG00000119318	9	110035418	110104475	280	29	50215	0.2006	0.42051	<i>RAD23B</i>		
ENSG00000104689	8	23037965	23092639	193	33	45134	0.20038	0.42059	<i>TNFRSF10A</i>		
ENSG00000174206	12	64570096	64626076	98	16	50374	0.19993	0.42077	<i>C12orf66</i>		
ENSG00000250571	8	144339603	144369101	105	13	36475	0.1999	0.42078	<i>GLI4</i>		
ENSG00000118156	19	48013942	48069113	75	13	36103	0.19983	0.42081	<i>ZNF541</i>		
ENSG00000185304	2	88045474	88295309	84	21	43507	0.19917	0.42107	<i>RGPD2</i>		
ENSG00000140905	16	81105566	81140008	173	11	46353	0.19909	0.42109	<i>GCSH</i>		
ENSG00000069206	8	24288443	24394483	345	35	47680	0.19906	0.42111	<i>ADAM7</i>		
ENSG00000162076	16	2923187	2959383	202	20	46008	0.19904	0.42111	<i>FLYWCH2</i>		
ENSG00000256294	19	44606334	44647027	114	16	29545	0.19907	0.42111	<i>ZNF225</i>		
ENSG00000197568	1	70810488	70861022	120	17	49398	0.19899	0.42113	<i>HHLA3</i>		
ENSG00000101188	20	61330189	61404123	295	50	38238	0.19885	0.42119	<i>NTSR1</i>		
ENSG00000258512	14	102186774	102208859	78	7	51626	0.19883	0.4212	<i>RP11-796G6.2</i>		
ENSG00000213977	17	3556196	3581976	121	19	48820	0.1988	0.42121	<i>TAX1BP3</i>		
ENSG00000178462	10	5425061	5456793	131	12	53467	0.19878	0.42122	<i>TUBAL3</i>		
ENSG00000165644	10	76983727	77005788	67	16	42268	0.19869	0.42125	<i>COMTD1</i>		
ENSG00000271741	1	35437134	35507342	55	10	31091	0.19867	0.42126	<i>RP11-244H3.4</i>		
ENSG00000100823	14	20913350	20935927	69	12	54616	0.19867	0.42126	<i>APEX1</i>		

ENSG00000174640	3	133641540	133781028	437	88	46919	0.19856	0.4213	SLCO2A1		
ENSG00000150628	4	177095789	177126822	114	22	55011	0.19842	0.42136	SPATA4		
ENSG00000102931	16	57269010	57297516	61	9	32448	0.1982	0.42144	ARL2BP		
ENSG00000140932	16	66603351	66632178	73	8	33581	0.19821	0.42144	CMTM2		
ENSG00000115461	2	217526828	217570248	112	19	39661	0.19804	0.42151	IGFBP5		
ENSG00000087302	14	52446193	52481420	98	19	45589	0.19802	0.42151	C14orf166		
ENSG00000125207	12	130812432	130867182	223	37	38918	0.19788	0.42157	PIWIL1		
ENSG00000171823	12	1665159	1713331	129	38	48956	0.19783	0.42159	FBXL14		
ENSG00000105289	19	3698107	3760811	233	45	50764	0.19774	0.42162	TJP3		
ENSG00000143842	1	204032243	204106863	208	55	50039	0.19703	0.4219	SOX13		
ENSG00000260916	15	55622230	55710708	363	29	33444	0.19678	0.422	CCPG1		
ENSG00000175197	12	57900371	57924300	32	5	47848	0.19658	0.42208	DDIT3		
ENSG00000174083	17	8696041	8780994	221	44	45369	0.19636	0.42217	PIK3R6		
ENSG00000169519	11	28119795	28365054	350	29	39422	0.19617	0.42224	METTL15		
ENSG00000181240	19	6416048	6443790	130	13	48604	0.19597	0.42232	SLC25A41		
ENSG00000075785	3	128434965	128543639	330	29	42170	0.19594	0.42233	RAB7A		
ENSG00000088756	18	6719717	6925715	598	84	38090	0.19571	0.42242	ARHGAP28		
ENSG00000150540	2	138711590	138783930	151	15	49183	0.19553	0.42249	HNMT		
ENSG00000116151	1	2242692	2333146	387	68	42808	0.19535	0.42256	MORN1		
ENSG00000173660	1	46759303	46792448	64	21	40570	0.19533	0.42257	UQCRH		
ENSG00000160214	21	45199394	45235174	186	17	32802	0.19513	0.42265	RRP1		
ENSG00000184357	6	27824570	27845359	60	13	34648	0.19491	0.42273	HIST1H1B		
ENSG00000173261	5	145453949	145493932	124	7	55183	0.19471	0.42281	PLAC8L1		
ENSG00000169223	5	176748563	176788853	74	13	38108	0.19463	0.42284	LMAN2		
ENSG00000132254	11	6486910	6512666	48	10	51778	0.19461	0.42285	ARFIP2		
ENSG00000135454	12	58007193	58037138	63	11	47091	0.19448	0.4229	B4GALNT1		
ENSG00000198917	9	131571930	131602100	105	12	38465	0.19444	0.42291	C9orf114		
ENSG00000163815	3	45033040	45087563	165	16	28078	0.19441	0.42293	CLEC3B		
ENSG00000100665	14	95017428	95046250	143	22	55806	0.19436	0.42295	SERPINA4		
ENSG00000256683	19	52457596	52500109	170	18	30842	0.19422	0.423	ZNF350		
ENSG00000198156	16	28343876	28384829	14	4	42756	0.19398	0.42309	NPIP6		
ENSG00000163710	3	142524764	142618045	290	53	45563	0.19391	0.42312	PCOLCE2		
ENSG00000116882	1	119901402	119946753	137	18	36978	0.19382	0.42316	HAO2		
ENSG00000149196	11	86003253	86066969	276	22	47739	0.19372	0.4232	C11orf73		
ENSG00000186814	18	32821032	32880196	94	26	40316	0.19358	0.42325	ZSCAN30		
ENSG00000183495	12	132424508	132575005	270	30	36788	0.19337	0.42334	EP400		

ENSG00000167100	17	48177404	48217246	94	26	43193	0.19334	0.42334	<i>SAMD14</i>		
ENSG00000131779	1	145506252	145533730	10	6	44407	0.19308	0.42345	<i>PEX11B</i>		
ENSG00000188909	11	122838278	122862428	91	8	53435	0.19294	0.4235	<i>BSX</i>		
ENSG00000160094	1	33712146	33776320	140	24	51702	0.19288	0.42353	<i>ZNF362</i>		
ENSG00000176853	8	124770696	124837692	167	22	38563	0.19265	0.42361	<i>FAM91A1</i>		
ENSG00000132744	11	67400026	67428130	95	22	44153	0.19248	0.42368	<i>ACY3</i>		
ENSG00000187980	1	20477746	20513917	87	17	51590	0.19222	0.42379	<i>PLA2G2C</i>		
ENSG00000131242	17	29708642	29875236	512	90	47025	0.19209	0.42384	<i>RAB11FIP4</i>		
ENSG00000163092	2	167734997	168126263	1497	83	42165	0.19126	0.42416	<i>XIRP2</i>		
ENSG00000111961	6	148583440	148883186	1255	186	49794	0.19112	0.42421	<i>SASH1</i>		
ENSG00000204161	10	50352773	50406630	219	40	41314	0.19113	0.42421	<i>C10orf128</i>		
ENSG00000116717	1	68140744	68164021	88	14	46428	0.19103	0.42425	<i>GADD45A</i>		
ENSG00000176994	17	18208624	18236517	87	11	46727	0.19103	0.42425	<i>SMCR8</i>		
ENSG00000240857	2	18725989	18751946	55	21	42006	0.19098	0.42427	<i>RDH14</i>		
ENSG00000112685	6	475133	703117	835	94	39365	0.19082	0.42433	<i>EXOC2</i>		
ENSG00000144048	2	73979311	74017284	33	7	49363	0.19079	0.42434	<i>DUSP11</i>		
ENSG00000154451	1	89714633	89748544	57	11	44490	0.19078	0.42435	<i>GBP5</i>		
ENSG00000170782	11	6887856	6908850	109	11	54373	0.19074	0.42436	<i>OR10A4</i>		
ENSG00000159884	9	35648301	35671508	87	11	40498	0.19064	0.4244	<i>CCDC107</i>		
ENSG00000075426	2	28605315	28650179	98	20	44345	0.19013	0.4246	<i>FOSL2</i>		
ENSG00000196935	12	64228073	64551613	719	117	42101	0.19006	0.42463	<i>SRGAP1</i>		
ENSG00000154518	2	176030986	176059335	94	13	45694	0.18995	0.42467	<i>ATP5G3</i>		
ENSG00000100220	22	32773569	32818242	182	35	47091	0.18977	0.42474	<i>RTCB</i>		
ENSG00000165383	10	50107528	50153242	216	32	40911	0.18961	0.42481	<i>LRRC18</i>		
ENSG00000121634	1	147364946	147391393	88	21	50801	0.18955	0.42483	<i>GJA8</i>		
ENSG00000166401	18	61627159	61682278	178	39	46428	0.18943	0.42488	<i>SERPINB8</i>		
ENSG00000198327	6	26230561	26250976	67	9	49634	0.18938	0.4249	<i>HIST1H4F</i>		
ENSG00000214413	10	112648488	112689032	95	19	49528	0.18931	0.42493	<i>BBIP1</i>		
ENSG00000166189	10	103815147	103837792	35	12	53019	0.18926	0.42494	<i>HPS6</i>		
ENSG00000010322	3	52479134	52537087	109	10	53779	0.18898	0.42505	<i>NISCH</i>		
ENSG00000001630	7	91731465	91782266	112	7	51241	0.189	0.42505	<i>CYP51A1</i>		
ENSG00000155897	8	131782547	132064672	1084	96	45844	0.18877	0.42513	<i>ADCY8</i>		
ENSG00000105197	19	39961052	39994422	101	13	43583	0.1888	0.42513	<i>TIMM50</i>		
ENSG00000188056	6	41186062	41216620	187	16	36683	0.1887	0.42516	<i>TREML4</i>		
ENSG00000130598	11	1850219	1872910	34	17	47657	0.18867	0.42518	<i>TNNI2</i>		
ENSG00000172817	8	65490320	65721318	498	49	36293	0.18846	0.42526	<i>CYP7B1</i>		

ENSG00000123136	19	14509631	14540192	72	19	38510	0.18831	0.42532	DDX39A		
ENSG00000087338	2	70046774	70118528	135	16	43415	0.18829	0.42533	GMCL1		
ENSG00000198168	11	22825345	22861845	82	13	40406	0.18813	0.42539	SVIP		
ENSG00000141562	17	80406056	80458413	206	24	39012	0.18803	0.42543	NARF		
ENSG00000135519	12	49922940	49962091	82	12	34574	0.18796	0.42545	KCNH3		
ENSG00000168675	18	13207497	13662754	1304	182	43883	0.18796	0.42545	LDLRAD4		
ENSG00000139132	12	32542463	32808984	1186	95	49181	0.18727	0.42572	FGD4		
ENSG00000139083	12	11792788	12058336	683	144	43895	0.18712	0.42578	ETV6		
ENSG00000178719	8	145054226	145077583	53	6	50762	0.18693	0.42586	GRINA		
ENSG00000265629	2	14765215	14800933	62	13	42734	0.18691	0.42587	AC011897.1		
ENSG00000120963	8	102180106	102228421	97	14	30074	0.18644	0.42605	ZNF706		
ENSG00000262003	17	802872	824452	134	24	42940	0.18643	0.42606	RP11-676J12.7		
ENSG00000128059	4	57249528	57311781	202	22	49569	0.18631	0.4261	PPAT		
ENSG00000183668	19	43705943	43783682	236	36	31635	0.18627	0.42612	PSG9		
ENSG00000161654	17	42102003	42154987	93	17	44353	0.18615	0.42616	LSM12		
ENSG00000184672	8	85085022	85844079	2107	114	45548	0.18606	0.4262	RALYL		
ENSG00000239713	22	39426924	39493748	216	30	39291	0.18589	0.42626	APOBEC3G		
ENSG00000039319	5	79693832	79785169	252	15	30129	0.18584	0.42628	ZFYVE16		
ENSG00000142784	1	27551007	27645110	175	22	48401	0.18567	0.42635	WDTC1		
ENSG00000213988	19	20178803	20247885	200	28	31992	0.18564	0.42637	ZNF90		
ENSG00000156958	15	49437853	49670066	744	45	44359	0.18505	0.42659	GALK2		
ENSG00000152767	13	98784816	99112027	1291	182	43648	0.18502	0.42661	FARP1		
ENSG00000162642	1	85705639	85735355	107	23	55168	0.18473	0.42672	C1orf52		
ENSG00000161944	17	6994641	7029019	192	31	41585	0.18452	0.4268	ASGR2		
ENSG00000133028	17	10573654	10611692	75	8	38799	0.18444	0.42684	SCO1		
ENSG00000083067	9	73133979	74071820	3286	195	49767	0.18441	0.42685	TRPM3		
ENSG00000132677	1	156329003	156365011	100	24	44409	0.18424	0.42691	RHBG		
ENSG00000167670	19	4392659	4455015	198	21	51854	0.18416	0.42695	CHAF1A		
ENSG00000215012	22	19823661	19852419	90	18	38353	0.18407	0.42698	C22orf29		
ENSG00000121989	2	148592086	148698393	156	18	53496	0.18403	0.427	ACVR2A		
ENSG00000137074	9	32962604	33035166	347	14	53462	0.18386	0.42706	APTX		
ENSG00000163041	1	226239552	226269702	50	12	53482	0.18383	0.42707	H3F3A		
ENSG00000167210	18	44046935	44246996	698	111	48283	0.18384	0.42707	LOXHD1		
ENSG00000163867	1	35439523	35507569	52	9	30446	0.18379	0.42709	ZMYM6		
ENSG00000228856	4	9354855	9376447	60	7	41443	0.18377	0.4271	USP17L30		
ENSG00000224982	12	120021264	120089363	211	17	50194	0.18375	0.42711	TMEM233		

ENSG00000139219	12	48356748	48408269	207	31	45484	0.1836	0.42716	COL2A1		
ENSG00000079102	8	92957203	93125514	232	19	46958	0.18354	0.42719	RUNX1T1		
ENSG00000187240	11	102970160	103360591	2070	67	46685	0.18354	0.42719	DYNC2H1		
ENSG00000143977	2	70498494	70530903	70	8	46009	0.18341	0.42724	SNRPG		
ENSG00000137812	15	40876218	40966540	189	17	46931	0.18311	0.42735	CASC5		
ENSG00000048405	7	126976844	127081978	370	35	50564	0.18291	0.42743	ZNF800		
ENSG00000139291	12	72069867	72107836	59	13	40659	0.18242	0.42763	TMEM19		
ENSG00000100714	14	64844749	64936722	295	44	39362	0.18219	0.42772	MTHFD1		
ENSG00000070214	9	107996903	108211452	543	48	32540	0.182	0.42779	SLC44A1		
ENSG00000158525	7	129974630	130018571	197	27	55251	0.18184	0.42785	CPA5		
ENSG00000182257	22	46435358	46460024	84	17	39907	0.18174	0.42789	C22orf26		
ENSG00000100987	20	25041521	25072996	85	9	45561	0.18172	0.4279	VSX1		
ENSG00000021355	6	2822566	2852240	143	28	51727	0.18168	0.42791	SERPINB1		
ENSG00000117408	1	44402611	44443694	71	12	33048	0.18149	0.42799	IPO13		
ENSG00000168255	7	102168365	102223103	5	3	42887	0.18127	0.42808	POLR2J3		
ENSG00000269558	7	65102081	65123280	3	1	42945	0.18116	0.42812	AC104057.1		
ENSG00000123843	1	207252187	207283338	68	14	33867	0.18103	0.42817	C4BPB		
ENSG00000221914	8	26139007	26240196	261	43	50608	0.18096	0.4282	PPP2R2A		
ENSG00000228120	21	44569176	44592387	44	15	43878	0.1809	0.42822	AP001631.10		
ENSG00000101180	20	60780026	60805323	95	32	49167	0.18076	0.42828	HRH3		
ENSG00000185650	14	69244377	69273190	92	16	52083	0.18067	0.42831	ZFP36L1		
ENSG00000243709	1	226063982	226109082	168	25	41665	0.18058	0.42835	LEFTY1		
ENSG00000174038	9	35031092	35055988	48	12	43455	0.18029	0.42846	C9orf131		
ENSG00000213221	9	139243932	139268241	106	19	53116	0.18028	0.42847	DNLZ		
ENSG00000101098	20	43370449	43448979	163	34	45597	0.17993	0.4286	RIMS4		
ENSG00000066739	14	96737595	96840207	202	23	47352	0.17977	0.42867	ATG2B		
ENSG00000178425	6	116412012	116580660	448	46	39763	0.1797	0.42869	NT5DC1		
ENSG00000196570	5	176817108	176837637	24	9	46000	0.17939	0.42881	PFN3		
ENSG00000137764	15	67825047	68109461	723	55	41731	0.17928	0.42886	MAP2K5		
ENSG00000167554	19	52829498	52881031	225	35	48451	0.17928	0.42886	ZNF610		
ENSG00000171703	20	62671189	62713700	122	29	47627	0.17921	0.42889	TCEA2		
ENSG00000114790	3	153828792	153985616	451	39	48161	0.17918	0.4289	ARHGEF26		
ENSG00000015479	5	138599441	138677360	87	15	38638	0.17911	0.42893	MATR3		
ENSG00000108439	17	46008872	46035654	79	15	50957	0.17905	0.42895	PNPO		
ENSG00000132465	4	71511258	71557534	64	18	40236	0.17894	0.42899	IGJ		
ENSG00000167065	22	31038038	31073877	138	33	39865	0.17874	0.42907	DUSP18		

ENSG00000151151	10	59941278	60037694	405	17	31736	0.17858	0.42913	<i>IPMK</i>		
ENSG00000266964	19	35619712	35644013	50	13	53645	0.17824	0.42927	<i>FXYP1</i>		
ENSG00000105997	7	27135803	27202200	164	25	38199	0.17819	0.42929	<i>HOXA3</i>		
ENSG00000101019	20	33880369	34009944	249	17	30040	0.17779	0.42944	<i>UQCC1</i>		
ENSG00000128708	2	172768958	172858599	209	30	43066	0.17771	0.42947	<i>HAT1</i>		
ENSG00000168434	16	23389814	23474501	158	17	37237	0.1774	0.4296	<i>COG7</i>		
ENSG00000186510	1	16335370	16370545	238	27	53673	0.1769	0.4298	<i>CLCNKA</i>		
ENSG00000175449	5	94972458	95030477	155	23	48090	0.17678	0.42984	<i>RFESD</i>		
ENSG00000133742	8	86229837	86301243	156	27	50000	0.17672	0.42987	<i>CA1</i>		
ENSG00000157330	1	12796163	12833847	147	16	48687	0.17655	0.42993	<i>C1orf158</i>		
ENSG00000186575	22	29989545	30104587	280	33	45036	0.17638	0.43	<i>NF2</i>		
ENSG00000182010	10	63932794	64038466	319	23	48577	0.17595	0.43017	<i>RTKN2</i>		
ENSG00000177917	2	153564407	153627767	181	27	43627	0.17563	0.43029	<i>ARL6IP6</i>		
ENSG00000104059	15	29402457	29872927	1520	145	40864	0.17563	0.43029	<i>FAM189A1</i>		
ENSG00000186458	20	228377	251737	117	18	47929	0.17547	0.43035	<i>DEFB132</i>		
ENSG00000189376	8	124222196	124263638	20	14	47757	0.17537	0.43039	<i>C8orf76</i>		
ENSG00000129219	17	4700391	4736729	106	26	38494	0.17537	0.43039	<i>PLD2</i>		
ENSG00000138031	2	25032038	25152708	472	37	40973	0.17527	0.43043	<i>ADCY3</i>		
ENSG00000153790	7	25164316	25229975	284	23	38966	0.17518	0.43047	<i>C7orf31</i>		
ENSG00000225950	19	49549050	49578333	119	25	44758	0.17511	0.4305	<i>NTF4</i>		
ENSG00000107262	9	33237818	33274761	69	8	37038	0.17502	0.43053	<i>BAG1</i>		
ENSG00000175606	8	74874672	74905018	112	13	41669	0.17497	0.43055	<i>TMEM70</i>		
ENSG00000181915	10	64554516	64578238	48	10	31573	0.17489	0.43058	<i>ADO</i>		
ENSG00000161958	17	7331592	7358256	60	13	45245	0.17459	0.4307	<i>FGF11</i>		
ENSG00000006118	11	60681935	60714631	90	12	41491	0.17454	0.43072	<i>TMEM132A</i>		
ENSG00000091490	4	25739055	25875382	360	78	47046	0.17447	0.43075	<i>SEL1L3</i>		
ENSG00000113161	5	74622154	74667929	105	17	53323	0.17436	0.43079	<i>HMGCR</i>		
ENSG00000169972	1	1233947	1257057	42	14	36852	0.17349	0.43113	<i>PUSL1</i>		
ENSG00000172426	6	43602783	43650336	138	20	32264	0.17349	0.43113	<i>RSPH9</i>		
ENSG00000172243	12	10259376	10292857	122	17	27946	0.17349	0.43113	<i>CLEC7A</i>		
ENSG00000125912	19	3175561	3219573	167	21	48044	0.17349	0.43113	<i>NCLN</i>		
ENSG00000267697	7	135602022	135622198	73	14	39856	0.17323	0.43124	<i>LUZP6</i>		
ENSG00000117020	1	243641535	244024381	624	48	42625	0.17299	0.43133	<i>AKT3</i>		
ENSG00000255800	9	107350650	107371788	132	8	25449	0.17273	0.43143	<i>OR13C5</i>		
ENSG00000177951	11	157784	217428	95	20	45291	0.17229	0.4316	<i>BET1L</i>		
ENSG00000103365	16	23464863	23543316	203	19	44793	0.17222	0.43163	<i>GGA2</i>		

ENSG00000147894	9	27536544	27583864	217	32	50936	0.17217	0.43165	<i>C9orf72</i>		
ENSG00000180481	12	75774850	75836468	222	11	55244	0.17193	0.43175	<i>GLIPR1L2</i>		
ENSG00000171311	10	99185899	99215774	57	14	48417	0.17151	0.43191	<i>EXOSC1</i>		
ENSG00000186204	19	15773567	15817984	353	22	50375	0.17139	0.43196	<i>CYP4F12</i>		
ENSG00000122707	9	36026430	36134448	319	35	39805	0.17093	0.43214	<i>RECK</i>		
ENSG00000148396	9	139324549	139382141	204	29	43649	0.17091	0.43215	<i>SEC16A</i>		
ENSG00000074621	15	65893704	65963333	132	12	48664	0.17092	0.43215	<i>SLC24A1</i>		
ENSG00000197888	4	69392902	69444245	22	12	43072	0.17085	0.43217	<i>UGT2B17</i>		
ENSG00000162928	2	61234360	61289125	106	25	45386	0.17069	0.43223	<i>PEX13</i>		
ENSG00000117281	1	145685798	145725614	27	7	44158	0.17056	0.43229	<i>CD160</i>		
ENSG00000100258	22	50931376	50956135	100	27	49571	0.17045	0.43233	<i>LMF2</i>		
ENSG00000185838	22	19760747	19852462	258	45	42644	0.17037	0.43236	<i>GNB1L</i>		
ENSG00000006432	14	71179243	71286251	440	44	54675	0.17023	0.43241	<i>MAP3K9</i>		
ENSG00000128276	22	32740872	32767148	147	26	37395	0.17001	0.4325	<i>RFPL3</i>		
ENSG00000180628	10	92969908	93054088	199	13	27617	0.16995	0.43252	<i>PCGF5</i>		
ENSG00000187461	6	13459513	13496415	84	19	40776	0.16987	0.43256	<i>AL583828.1</i>		
ENSG00000087253	16	55532910	55630582	265	26	39237	0.16899	0.4329	<i>LPCAT2</i>		
ENSG00000203985	1	54464412	54493856	118	12	45932	0.1687	0.43301	<i>LDLRAD1</i>		
ENSG00000174938	16	29872480	29920868	57	14	44644	0.16869	0.43302	<i>SEZ6L2</i>		
ENSG00000112996	5	44799027	44830530	81	7	52614	0.16861	0.43305	<i>MRPS30</i>		
ENSG00000111271	12	112113857	112204903	60	17	51623	0.16843	0.43312	<i>ACAD10</i>		
ENSG00000035687	1	244561796	244625436	165	26	52419	0.16832	0.43317	<i>ADSS</i>		
ENSG00000184492	2	114246661	114268728	18	10	36052	0.1683	0.43317	<i>FOXD4L1</i>		
ENSG00000196224	11	1618795	1639693	120	17	55058	0.1683	0.43317	<i>KRTAP5-3</i>		
ENSG00000187796	9	139246355	139278133	137	19	54442	0.16827	0.43318	<i>CARD9</i>		
ENSG00000087128	4	69303167	69373322	251	22	44446	0.1681	0.43325	<i>TMPRSS11E</i>		
ENSG00000110841	12	27666364	27858497	643	86	48052	0.1678	0.43337	<i>PPFIBP1</i>		
ENSG00000204248	6	33120458	33170276	212	30	49049	0.1674	0.43353	<i>COL11A2</i>		
ENSG00000178934	19	39269851	39292389	96	12	35553	0.16736	0.43354	<i>LGALS7B</i>		
ENSG00000008282	7	105720949	105763022	142	26	45213	0.16711	0.43364	<i>SYPL1</i>		
ENSG00000268936	11	134845246	134866693	124	13	50608	0.16695	0.43371	<i>AP003062.1</i>		
ENSG00000198211	16	89975573	90012500	172	28	29731	0.16668	0.43381	<i>TUBB3</i>		
ENSG00000101412	20	32253489	32284210	42	16	47436	0.16667	0.43382	<i>E2F1</i>		
ENSG00000165244	9	99138223	99190611	156	13	47474	0.16639	0.43392	<i>ZNF367</i>		
ENSG00000137154	9	19365713	19390252	50	9	37582	0.16629	0.43396	<i>RPS6</i>		
ENSG00000103326	16	567717	614636	134	37	40926	0.16624	0.43398	<i>CAPN15</i>		

ENSG00000124731	6	41225664	41264457	122	26	41634	0.16617	0.43401	TREM1		
ENSG00000269058	19	16579868	16617003	154	17	47383	0.16584	0.43414	CALR3		
ENSG00000028137	1	12217060	12279285	196	29	50644	0.16581	0.43415	TNFRSF1B		
ENSG00000214491	22	30908786	30952669	173	21	53206	0.16579	0.43416	SEC14L6		
ENSG00000221989	7	143796607	143817657	87	6	26372	0.16531	0.43435	OR2A2		
ENSG00000174718	12	32102304	32156039	273	50	53469	0.16513	0.43442	KIAA1551		
ENSG00000083168	8	41776997	41919508	238	22	33438	0.16508	0.43444	KAT6A		
ENSG00000167552	12	49568579	49593107	42	7	35522	0.16504	0.43446	TUBA1A		
ENSG00000183760	19	39564553	39612133	202	24	53860	0.165	0.43447	PAPL		
ENSG00000187608	1	938803	959920	71	11	38603	0.1649	0.43451	ISG15		
ENSG00000128626	19	39411188	39433802	62	10	38070	0.16469	0.4346	MRPS12		
ENSG00000117091	1	160638536	160691641	202	44	43728	0.16459	0.43463	CD48		
ENSG00000177646	3	128588439	128644910	257	24	30716	0.16458	0.43464	ACAD9		
ENSG00000263563	17	21719601	21741762	72	10	47338	0.1645	0.43467	UBBP4		
ENSG00000154589	8	74893587	74951322	186	21	40163	0.16437	0.43472	LY96		
ENSG00000108055	10	112317449	112374394	216	19	40548	0.164	0.43487	SMC3		
ENSG00000231924	19	43360616	43393974	115	15	23710	0.16397	0.43488	PSG1		
ENSG00000163683	4	39537950	39650710	321	49	38341	0.16389	0.43491	SMIM14		
ENSG00000130713	9	133559108	133590248	89	10	31055	0.16362	0.43502	EXOSC2		
ENSG00000143882	2	10851775	10935236	309	43	42686	0.16354	0.43505	ATP6V1C2		
ENSG00000197580	11	112036190	112105422	189	25	43025	0.16331	0.43514	BCO2		
ENSG00000133105	13	32303674	32387009	292	29	46772	0.16325	0.43516	RXFP2		
ENSG00000164047	3	48254837	48276981	32	13	46955	0.16319	0.43518	CAMP		
ENSG00000076928	19	42377228	42444302	59	15	42691	0.1631	0.43522	ARHGEF1		
ENSG00000143355	1	197871037	197914608	110	23	45360	0.16277	0.43535	LHX9		
ENSG00000114544	3	125715198	125830404	476	32	48635	0.16272	0.43537	SLC41A3		
ENSG00000173281	8	8983765	9019084	118	18	36564	0.16268	0.43538	PPP1R3B		
ENSG00000214367	4	2219191	2253891	107	11	36606	0.16244	0.43548	HAUS3		
ENSG00000146085	6	49388073	49440904	119	14	55478	0.16241	0.43549	MUT		
ENSG00000128394	22	39426609	39459915	83	11	40713	0.16231	0.43553	APOBEC3F		
ENSG00000173585	3	45917996	45954667	97	17	35931	0.16216	0.43559	CCR9		
ENSG00000254852	16	14831923	14869270	9	6	37584	0.16214	0.4356	NPIPA2		
ENSG00000132155	3	12615100	12715725	321	25	34238	0.16204	0.43564	RAF1		
ENSG00000164946	9	14724664	14920993	856	154	47152	0.16197	0.43567	FREM1		
ENSG00000181350	17	16334891	16405467	247	30	48477	0.16192	0.43568	FAM211A		
ENSG00000092758	20	61437596	61482511	252	54	46519	0.16181	0.43573	COL9A3		

ENSG00000187642	1	900579	927497	97	21	36685	0.16175	0.43575	<i>C1orf170</i>		
ENSG00000127526	19	16650642	16693193	76	20	45817	0.16175	0.43575	<i>SLC35E1</i>		
ENSG00000125630	2	113289492	113344635	169	19	41913	0.16173	0.43576	<i>POLR1B</i>		
ENSG00000180083	20	44267202	44308909	137	12	46540	0.16165	0.43579	<i>WFDC11</i>		
ENSG00000188987	6	26178938	26199304	91	10	49506	0.16158	0.43582	<i>HIST1H4D</i>		
ENSG00000105397	19	10451209	10501352	151	24	54044	0.1613	0.43593	<i>TYK2</i>		
ENSG00000149564	11	124612026	124642186	63	15	39858	0.16127	0.43594	<i>ESAM</i>		
ENSG00000173193	3	122389465	122459687	258	34	48170	0.1612	0.43597	<i>PARP14</i>		
ENSG00000138759	4	78968724	79475423	2046	113	41724	0.16107	0.43602	<i>FRAS1</i>		
ENSG00000107951	10	30588730	30673377	267	38	42602	0.16107	0.43602	<i>MTPAP</i>		
ENSG00000160326	9	136326217	136354259	89	26	46904	0.16101	0.43604	<i>SLC2A6</i>		
ENSG00000143970	2	25946622	26111385	449	29	51206	0.16096	0.43606	<i>ASXL2</i>		
ENSG00000186153	16	78123310	79256564	7213	478	42541	0.16079	0.43613	<i>WWOX</i>		
ENSG00000105398	19	48363723	48399654	158	23	49583	0.16062	0.43619	<i>SULT2A1</i>		
ENSG00000228198	1	248356332	248377392	81	8	50476	0.16058	0.43621	<i>OR2M3</i>		
ENSG00000115295	2	29310571	29422509	297	42	42504	0.16039	0.43629	<i>CLIP4</i>		
ENSG00000171747	19	39282311	39314004	128	20	35766	0.16007	0.43641	<i>LGALS4</i>		
ENSG00000137203	6	10383419	10429892	109	27	38882	0.15986	0.4365	<i>TFAP2A</i>		
ENSG00000183513	2	99205773	99234978	57	6	55399	0.1598	0.43652	<i>COA5</i>		
ENSG00000168542	2	189829046	189887472	128	27	45854	0.15976	0.43654	<i>COL3A1</i>		
ENSG00000256797	12	10024088	10058432	134	15	37575	0.15976	0.43654	<i>KLRF2</i>		
ENSG00000246922	15	65375338	65417535	54	17	48845	0.15954	0.43662	<i>UBAP1L</i>		
ENSG00000117153	1	202850228	202907764	149	14	42838	0.15937	0.43669	<i>KLHL12</i>		
ENSG00000156232	15	83468380	83513611	132	24	48937	0.15921	0.43675	<i>WHAMM</i>		
ENSG00000181355	6	9586343	10221841	2320	193	47511	0.1589	0.43687	<i>OFCC1</i>		
ENSG00000159588	1	46075716	46099729	74	6	54886	0.15888	0.43688	<i>CCDC17</i>		
ENSG00000182631	5	33926491	33949023	49	13	23825	0.15883	0.4369	<i>RXFP3</i>		
ENSG00000189182	12	53073410	53107247	124	22	50848	0.15876	0.43693	<i>KRT77</i>		
ENSG00000268397	5	180672720	180694578	72	15	35240	0.15872	0.43694	<i>AC008443.1</i>		
ENSG00000030582	17	42412614	42440470	55	16	38368	0.15874	0.43694	<i>GRN</i>		
ENSG00000183423	4	110759358	110803471	104	14	45425	0.15871	0.43695	<i>LRIT3</i>		
ENSG00000216895	7	155393925	155447899	157	22	50951	0.15864	0.43698	<i>AC009403.2</i>		
ENSG00000075213	7	83575093	84132040	2020	131	43960	0.1584	0.43707	<i>SEMA3A</i>		
ENSG00000268977	16	79005647	79025739	118	35	45268	0.15839	0.43707	<i>PIH1</i>		
ENSG00000101546	18	77784358	77816397	148	16	44987	0.15819	0.43715	<i>RBFA</i>		
ENSG00000143079	1	112928803	113016078	216	15	32113	0.15798	0.43724	<i>CTTNBP2NL</i>		

ENSG00000272790	11	112031253	112081394	154	19	43486	0.1579	0.43727	AP002884.3		
ENSG00000123171	13	52426117	52450366	75	15	43581	0.15774	0.43733	CCDC70		
ENSG00000177234	10	122347721	122369629	93	18	49265	0.15765	0.43737	C10orf85		
ENSG00000108094	10	35287479	35389570	274	14	55140	0.15759	0.43739	CUL2		
ENSG00000166183	14	104542016	104589098	149	28	41273	0.15735	0.43748	ASPG		
ENSG00000108702	17	32677347	32700250	80	13	54756	0.15737	0.43748	CCL1		
ENSG00000198146	15	35260542	35290488	87	17	38408	0.15721	0.43754	ZNF770		
ENSG00000183977	3	20011453	20063822	195	24	44065	0.1571	0.43758	PP2D1		
ENSG00000011638	16	21159698	21201937	117	16	48604	0.15712	0.43758	TMEM159		
ENSG00000132975	13	27319341	27344922	100	16	52211	0.15653	0.43781	GPR12		
ENSG00000104835	19	39395906	39450495	168	23	40926	0.15625	0.43792	SARS2		
ENSG00000269547	19	39396044	39450495	168	23	40926	0.15625	0.43792	CTC-360G5.8		
ENSG00000133874	8	33395273	33434643	139	15	46966	0.15591	0.43805	RNF122		
ENSG00000119787	2	38512022	38614427	279	26	43801	0.1559	0.43806	ATL2		
ENSG00000144852	3	119489331	119547332	184	36	39872	0.15587	0.43807	NR1I2		
ENSG00000074603	15	65724801	65820042	261	24	42013	0.15579	0.4381	DPP8		
ENSG00000106009	7	2567511	2605361	141	22	40743	0.15566	0.43815	BRAT1		
ENSG00000100227	22	42969727	43020968	121	19	36326	0.15546	0.43823	POLDIP3		
ENSG00000113845	3	119207379	119253937	162	22	47381	0.15542	0.43825	TIMMDC1		
ENSG00000203880	20	62877094	62936855	117	21	44226	0.15535	0.43827	PCMTD2		
ENSG00000115993	2	202231930	202326302	180	16	41745	0.15516	0.43835	TRAK2		
ENSG00000121060	17	54955270	55001399	58	18	46302	0.15499	0.43841	TRIM25		
ENSG00000159596	1	46142886	46170115	60	4	54877	0.15487	0.43846	TMEM69		
ENSG00000183397	19	3529152	3554028	81	19	34765	0.15436	0.43866	C19orf71		
ENSG00000119714	14	91688876	91730269	115	19	42084	0.15381	0.43888	GPR68		
ENSG00000141527	17	78133791	78193130	238	46	46993	0.15379	0.43889	CARD14		
ENSG00000188050	7	122327766	122349210	62	12	52502	0.15355	0.43898	RNF133		
ENSG00000011198	3	43721605	43785863	200	20	37346	0.15312	0.43915	ABHD5		
ENSG00000107566	10	101899851	101958091	123	19	29932	0.1527	0.43932	ERLIN1		
ENSG00000156273	21	30556392	31013071	964	123	39866	0.1522	0.43951	BACH1		
ENSG00000066084	12	50888768	51152450	418	28	46615	0.15215	0.43954	DIP2B		
ENSG00000146955	7	140093843	140136050	170	38	43136	0.15173	0.4397	RAB19		
ENSG00000146276	6	89877220	89950997	394	49	52695	0.1516	0.43975	GABRR1		
ENSG00000214844	17	19031448	19051895	2	1	43509	0.15152	0.43978	AC007952.1		
ENSG00000178685	8	145041321	145096940	102	12	50024	0.15144	0.43982	PARP10		
ENSG00000187824	17	10592332	10643633	154	6	26635	0.15136	0.43985	TMEM220		

ENSG00000188958	3	190974957	191058325	365	41	45390	0.15117	0.43992	UTS2B		
ENSG00000100722	14	89019253	89089853	149	27	37627	0.15117	0.43992	ZC3H14		
ENSG00000072818	17	7229848	7264797	80	21	46005	0.15114	0.43993	ACAP1		
ENSG00000205250	16	67216072	67242821	48	9	32574	0.15099	0.43999	E2F4		
ENSG00000161940	17	6916339	6943609	55	9	45948	0.15087	0.44004	BCL6B		
ENSG00000120458	11	124626394	124680569	121	23	44904	0.15069	0.44011	MSANTD2		
ENSG00000204632	6	29784744	29808902	414	30	33329	0.15064	0.44013	HLA-G		
ENSG00000141748	17	37303147	37333737	128	23	48311	0.15065	0.44013	ARL5C		
ENSG00000167604	19	36368555	36403205	106	12	28111	0.15061	0.44014	NFKBID		
ENSG00000186226	1	152748690	152770902	55	10	37882	0.15054	0.44017	LCE1E		
ENSG00000232859	17	26195340	26231778	51	16	48891	0.15049	0.44019	LYRM9		
ENSG00000164949	8	95251481	95284578	113	16	47631	0.15024	0.44029	GEM		
ENSG00000129354	19	10673347	10707991	158	19	35539	0.15023	0.44029	AP1M2		
ENSG00000104611	8	19161128	19263729	356	61	48966	0.15006	0.44036	SH2D4A		
ENSG00000117614	1	25539170	25568993	22	14	52505	0.15	0.44038	SYF2		
ENSG00000197444	10	50932689	50980425	148	19	38735	0.14998	0.44039	OGDHL		
ENSG00000088836	20	3198063	3229836	127	27	46983	0.14997	0.4404	SLC4A11		
ENSG00000188827	16	3621182	3671599	157	12	49153	0.14969	0.44051	SLX4		
ENSG00000128253	22	32576422	32610718	185	16	36231	0.14966	0.44052	RFPL2		
ENSG00000103275	16	1345548	1387019	213	20	47765	0.14947	0.44059	UBE2I		
ENSG00000166257	11	123489895	123535952	209	29	52947	0.14942	0.44061	SCN3B		
ENSG00000145439	4	169774921	169941426	356	28	40112	0.14936	0.44063	CBR4		
ENSG00000094880	5	137513339	137559032	78	17	53438	0.14919	0.4407	CDC23		
ENSG00000165905	11	45933172	45960647	43	16	43451	0.14893	0.44081	GYLTL1B		
ENSG00000188938	9	96198776	96225874	111	19	50005	0.1489	0.44082	FAM120AOS		
ENSG00000266614	18	73961121	73982069	56	9	48300	0.14875	0.44087	RP11-94B19.4		
ENSG00000105427	19	42881171	42904439	50	5	41778	0.14867	0.44091	CNFN		
ENSG00000125347	5	131807301	131836490	104	8	51461	0.14865	0.44092	IRF1		
ENSG00000133678	10	81828402	81862313	167	24	50201	0.14863	0.44092	TMEM254		
ENSG00000082929	4	5516296	5539528	88	14	30937	0.14836	0.44103	C4orf6		
ENSG00000174428	7	74498364	74575623	24	13	35238	0.14829	0.44106	GTF2IRD2B		
ENSG00000113600	5	39274364	39434970	541	75	49136	0.14826	0.44107	C9		
ENSG00000179528	2	74714644	74740443	14	8	54141	0.14817	0.4411	LBX2		
ENSG00000145425	4	152010725	152035804	39	11	33471	0.14813	0.44112	RPS3A		
ENSG00000183134	11	60608413	60633444	117	25	43246	0.14806	0.44115	PTGDR2		
ENSG00000108509	17	4861287	4900960	117	22	41531	0.14789	0.44122	CAMTA2		

ENSG00000153446	16	5084123	5126111	144	37	51712	0.14776	0.44127	<i>C16orf89</i>		
ENSG00000154227	15	100930600	101095200	885	73	46521	0.14761	0.44133	<i>CERS3</i>		
ENSG00000186812	18	32810994	32857097	79	20	38231	0.14746	0.44138	<i>ZNF397</i>		
ENSG00000198670	6	160942515	161097407	323	37	44464	0.14726	0.44146	<i>LPA</i>		
ENSG00000268310	17	76200462	76230740	165	21	51843	0.14681	0.44164	<i>AC087645.1</i>		
ENSG00000174021	1	84954008	84982248	126	20	42076	0.14677	0.44166	<i>GNG5</i>		
ENSG00000134330	2	9603787	9646672	122	13	35281	0.14669	0.44169	<i>IAH1</i>		
ENSG00000185742	11	109282846	109309840	27	11	46093	0.14642	0.44179	<i>C11orf87</i>		
ENSG00000196975	2	69861557	70063596	469	55	44359	0.14633	0.44183	<i>ANXA4</i>		
ENSG00000059804	12	8061826	8098871	100	26	47591	0.14634	0.44183	<i>SLC2A3</i>		
ENSG00000163386	1	145279772	145380303	4	2	43158	0.14631	0.44184	<i>NBPF10</i>		
ENSG00000264058	17	38775049	38831393	133	17	51562	0.14629	0.44185	<i>KRT222</i>		
ENSG00000145555	5	16655395	16946372	1097	166	47986	0.14615	0.4419	<i>MYO10</i>		
ENSG00000047621	12	4586894	4657674	93	14	47815	0.14595	0.44198	<i>C12orf4</i>		
ENSG00000183628	22	18883541	18911751	77	24	44009	0.14581	0.44204	<i>DGCR6</i>		
ENSG00000152953	4	5043169	5512725	2283	184	36766	0.14574	0.44206	<i>STK32B</i>		
ENSG00000196388	17	4881425	4910905	98	21	41168	0.14573	0.44207	<i>INCA1</i>		
ENSG00000249581	4	17506788	17538727	128	21	52504	0.14566	0.4421	<i>CLRN2</i>		
ENSG00000081479	2	169973619	170229195	878	129	44395	0.14563	0.44211	<i>LRP2</i>		
ENSG00000196611	11	102650651	102678891	96	24	52927	0.1454	0.4422	<i>MMP1</i>		
ENSG00000170289	8	87556205	87765903	677	86	43387	0.14527	0.44225	<i>CNGB3</i>		
ENSG00000136059	3	38019550	38058679	132	17	50224	0.14525	0.44226	<i>VILL</i>		
ENSG00000273274	1	32920670	32972287	87	17	52871	0.14493	0.44238	<i>ZBTB8B</i>		
ENSG00000115590	2	102598306	102655006	198	19	36994	0.14464	0.4425	<i>IL1R2</i>		
ENSG00000184909	1	178501950	178527579	107	10	39839	0.1446	0.44251	<i>C1ORF220</i>		
ENSG00000138316	10	72422559	72532197	576	82	50731	0.14452	0.44255	<i>ADAMTS14</i>		
ENSG00000153157	6	10738027	10989553	707	107	45810	0.14402	0.44274	<i>SYCP2L</i>		
ENSG00000114698	3	145900126	145978966	360	31	39883	0.144	0.44275	<i>PLSCR4</i>		
ENSG00000182177	2	237092095	237183052	374	33	42810	0.14398	0.44276	<i>ASB18</i>		
ENSG00000110723	11	108366158	108474465	299	49	40489	0.14338	0.44299	<i>EXPH5</i>		
ENSG00000124356	2	74046086	74110786	194	28	39802	0.14332	0.44302	<i>STAMBP</i>		
ENSG00000152049	2	223906532	224073117	808	73	52324	0.14325	0.44305	<i>KCNE4</i>		
ENSG00000203859	1	119947554	119975658	81	13	28774	0.14311	0.4431	<i>HSD3B2</i>		
ENSG00000135222	4	70810974	70836725	96	13	50943	0.1431	0.4431	<i>CSN2</i>		
ENSG00000069493	12	9807565	9858413	280	27	44157	0.14298	0.44315	<i>CLEC2D</i>		
ENSG00000082397	18	5382383	5640699	837	123	43117	0.14277	0.44324	<i>EPB41L3</i>		

ENSG00000221995	17	27390537	27428537	92	12	34204	0.14256	0.44332	<i>TIAF1</i>		
ENSG00000138434	2	182746560	182805465	95	11	42141	0.14244	0.44337	<i>SSFA2</i>		
ENSG00000186230	19	57936697	57966853	93	22	49531	0.14226	0.44344	<i>ZNF749</i>		
ENSG00000187026	21	32109112	32129551	48	4	20790	0.14193	0.44357	<i>KRTAP21-2</i>		
ENSG00000100028	22	24941471	25015947	183	33	37972	0.14175	0.44364	<i>SNRPD3</i>		
ENSG00000189190	19	53257448	53300044	198	47	41299	0.14173	0.44365	<i>ZNF600</i>		
ENSG00000125378	14	54406454	54435479	80	22	43747	0.14166	0.44367	<i>BMP4</i>		
ENSG00000155760	2	202889310	202913160	70	12	47685	0.1415	0.44374	<i>FZD7</i>		
ENSG00000115325	2	74766153	74794681	25	7	36053	0.1413	0.44382	<i>DOK1</i>		
ENSG00000161929	17	5102256	5148155	136	25	41725	0.14127	0.44383	<i>SCIMP</i>		
ENSG00000143621	1	153624512	153653524	53	8	44408	0.14116	0.44387	<i>ILF2</i>		
ENSG00000146809	7	123197064	123287951	225	29	53827	0.14104	0.44392	<i>ASB15</i>		
ENSG00000101236	20	3897956	4006229	316	31	48563	0.14078	0.44402	<i>RNF24</i>		
ENSG00000182621	20	8102824	8959003	2950	288	47189	0.14075	0.44404	<i>PLCB1</i>		
ENSG00000188554	17	41312498	41373708	122	7	50938	0.14071	0.44405	<i>NBR1</i>		
ENSG00000148296	9	136187552	136213235	82	14	50470	0.14056	0.44411	<i>SURF6</i>		
ENSG00000174667	19	9314526	9335542	63	12	30334	0.14028	0.44422	<i>OR7D4</i>		
ENSG00000066136	1	41147320	41247275	308	28	41437	0.14019	0.44425	<i>NFYC</i>		
ENSG00000197409	6	26187068	26209521	125	12	50406	0.14019	0.44425	<i>HIST1H3D</i>		
ENSG00000140299	15	59941345	59991733	213	11	41773	0.14007	0.4443	<i>BNIP2</i>		
ENSG00000130520	19	18407040	18444084	98	20	47727	0.13999	0.44433	<i>LSM4</i>		
ENSG00000250127	5	57827394	57864070	120	19	36663	0.1399	0.44437	<i>CTD-2117L12.1</i>		
ENSG00000104524	8	144676083	144701943	107	20	36616	0.1399	0.44437	<i>PYCRL</i>		
ENSG00000170689	17	46688518	46713839	86	20	34550	0.13991	0.44437	<i>HOXB9</i>		
ENSG00000170458	5	140001313	140023286	71	9	53568	0.13981	0.4444	<i>CD14</i>		
ENSG00000184497	13	114452216	114524926	282	34	42419	0.13968	0.44446	<i>TMEM255B</i>		
ENSG00000156599	11	57425219	57478659	96	16	44532	0.13965	0.44447	<i>ZDHHC5</i>		
ENSG00000204488	1	13485254	13508260	1	1	44611	0.13957	0.4445	<i>PRAMEF16</i>		
ENSG00000135077	5	156502843	156579880	277	29	49959	0.13938	0.44458	<i>HAVCR2</i>		
ENSG00000203711	6	159280971	159341385	241	40	32923	0.13937	0.44458	<i>C6orf99</i>		
ENSG00000169992	17	7298193	7333179	78	31	45019	0.1392	0.44465	<i>NLGN2</i>		
ENSG00000144848	3	112241356	112290893	156	13	49036	0.13918	0.44466	<i>ATG3</i>		
ENSG00000229665	13	57718195	57741216	1	1	43388	0.13906	0.4447	<i>PRR20C</i>		
ENSG00000104826	19	49509237	49530338	100	12	50613	0.13861	0.44488	<i>LHB</i>		
ENSG00000269831	1	728532	749137	12	7	34598	0.13858	0.44489	<i>AL669831.1</i>		
ENSG00000144749	3	66419221	66561687	298	50	43765	0.13845	0.44494	<i>LRIG1</i>		

ENSG00000109670	4	153232410	153467253	523	22	50352	0.13801	0.44512	FBXW7		
ENSG00000198142	2	110361911	110386563	71	14	47686	0.13794	0.44515	SOWAHC		
ENSG00000171475	17	38365556	38450388	171	18	51039	0.13764	0.44526	WIPF2		
ENSG00000065548	2	187340883	187384090	101	13	52265	0.13762	0.44527	ZC3H15		
ENSG00000131795	1	145497598	145523536	9	5	43920	0.13756	0.44529	RBM8A		
ENSG00000256394	4	156740881	156797425	148	32	42653	0.13756	0.44529	ASIC5		
ENSG00000174292	17	7273853	7303093	95	23	48277	0.13754	0.4453	TNK1		
ENSG00000174145	4	37235842	37461087	788	118	48806	0.13753	0.44531	KIAA1239		
ENSG00000213057	1	178501887	178528024	109	10	39756	0.13698	0.44552	C1orf220		
ENSG00000182040	17	72902176	72929351	28	15	44094	0.137	0.44552	USH1G		
ENSG00000111605	12	69623317	69678138	137	17	47218	0.13677	0.44561	CPSF6		
ENSG00000141040	17	16444701	16482520	90	14	41692	0.13651	0.44571	ZNF287		
ENSG00000130590	20	62595466	62621361	79	12	45934	0.1364	0.44575	SAMD10		
ENSG00000170180	4	145020457	145071904	277	27	47403	0.13636	0.44577	GYP A		
ENSG00000197846	6	26189748	26210942	124	12	52140	0.13617	0.44584	HIST1H2BF		
ENSG00000178809	7	75014337	75050279	31	11	41532	0.13605	0.44589	TRIM73		
ENSG00000079263	2	231057826	231233762	616	67	45461	0.136	0.44591	SP140		
ENSG00000107719	10	72228577	72338205	454	67	43999	0.13598	0.44592	PALD1		
ENSG00000075891	10	102485360	102599698	270	40	46815	0.13589	0.44595	PAX2		
ENSG00000205436	14	103556481	103586896	83	16	47692	0.13588	0.44596	EXOC3L4		
ENSG00000103599	15	67537138	67804598	534	42	50442	0.1358	0.44599	IQCH		
ENSG00000106686	9	4543386	4676674	620	79	32651	0.13571	0.44603	SPATA6L		
ENSG00000169035	19	51469729	51497355	94	26	43527	0.13548	0.44612	KLK7		
ENSG00000197561	19	841014	866242	84	32	40302	0.13514	0.44625	ELANE		
ENSG00000157353	16	70478324	70524177	49	21	47655	0.13469	0.44643	FUK		
ENSG00000114784	3	40341175	40363915	55	5	52975	0.13452	0.44649	EIF1B		
ENSG00000213759	4	70055669	70090449	195	22	43854	0.13442	0.44654	UGT2B11		
ENSG00000108947	17	7598520	7624696	66	17	37521	0.13417	0.44663	EFNB3		
ENSG00000172728	8	33218342	33340940	417	37	45857	0.13402	0.44669	FUT10		
ENSG00000135457	12	51477446	51576926	307	29	43575	0.13381	0.44678	TFCP2		
ENSG00000162804	2	241928255	242044983	331	60	41766	0.13363	0.44685	SNED1		
ENSG00000269104	22	41675388	41695686	42	9	52661	0.13335	0.44696	AL035681.1		
ENSG00000159842	17	896758	1142315	1076	178	45979	0.13319	0.44702	ABR		
ENSG00000169738	17	79983012	80005608	77	10	29026	0.1332	0.44702	DCXR		
ENSG00000187634	1	850260	889955	123	27	41287	0.13226	0.44739	SAMD11		
ENSG00000020256	20	50658202	50830847	709	81	49244	0.13145	0.44771	ZFP64		

ENSG00000196866	6	26189079	26209471	120	12	51218	0.13144	0.44772	HIST1H2AD		
ENSG00000100116	22	38193912	38223183	80	12	49236	0.13142	0.44772	GCA1		
ENSG00000153107	2	112513848	112652267	397	34	48946	0.13137	0.44774	ANAPC1		
ENSG00000104907	19	13205716	13238381	72	26	47845	0.1313	0.44777	TRMT1		
ENSG00000105880	7	96639704	96664409	62	20	54059	0.13122	0.4478	DLX5		
ENSG00000120217	9	5440503	5480566	136	27	45684	0.13073	0.44799	CD274		
ENSG00000167850	17	72527247	72552282	119	17	45012	0.13075	0.44799	CD300C		
ENSG00000112139	6	37590284	37677082	400	76	37909	0.13006	0.44826	MDGA1		
ENSG00000176485	11	63330667	63394355	112	30	44115	0.13004	0.44827	PLA2G16		
ENSG00000196724	19	58423252	58456761	79	15	47684	0.13004	0.44827	ZNF418		
ENSG00000145014	3	194298402	194364418	394	46	40512	0.12991	0.44832	TMEM44		
ENSG00000109270	4	100789493	100825647	67	16	44299	0.12988	0.44833	LAMTOR3		
ENSG00000143553	1	153621130	153644306	39	6	47738	0.12968	0.44841	SNAPIN		
ENSG00000236027	11	125648006	125671495	84	11	51198	0.12966	0.44842	PATE3		
ENSG00000101558	18	9903999	9970018	224	37	52405	0.12959	0.44845	VAPA		
ENSG00000151650	10	135040908	135065433	105	21	46447	0.12941	0.44852	VENTX		
ENSG00000144713	3	12865984	12893087	93	11	33118	0.12866	0.44881	RPL32		
ENSG00000169067	5	56765846	56788636	71	14	49957	0.12863	0.44882	ACTBL2		
ENSG00000175581	11	73488361	73586178	368	27	48880	0.12857	0.44885	MRPL48		
ENSG00000128829	15	40216347	40337797	353	46	39188	0.12857	0.44885	EIF2AK4		
ENSG00000267140	18	33013835	33087904	160	29	53816	0.12853	0.44887	RP11-322E11.6		
ENSG00000240654	13	24871304	24906673	169	25	44486	0.12834	0.44894	C1QTNF9		
ENSG00000203668	1	241782155	241809232	99	21	53133	0.12831	0.44895	CHML		
ENSG00000044115	5	137936656	138280723	696	35	52438	0.128	0.44908	CTNNA1		
ENSG00000103769	15	66008392	66194329	393	35	38470	0.12793	0.4491	RAB11A		
ENSG00000179580	16	2006824	2028976	155	19	51756	0.12788	0.44912	RNF151		
ENSG00000182552	4	184550788	184590378	165	37	44712	0.12784	0.44914	RWDD4		
ENSG00000145358	4	101097027	101121939	123	24	54322	0.12768	0.4492	DDIT4L		
ENSG00000119681	14	74954873	75089306	338	50	39725	0.12755	0.44925	LTBP2		
ENSG00000196081	19	23394401	23443192	138	10	43902	0.12723	0.44938	ZNF724P		
ENSG00000167264	16	68011649	68123223	183	22	47493	0.1271	0.44943	DUS2		
ENSG00000119938	10	93378199	93402811	53	14	45702	0.12691	0.44951	PPP1R3C		
ENSG00000206203	22	19108321	19130134	68	12	52416	0.1269	0.44951	TSSK2		
ENSG00000232671	1	151242500	151264405	30	9	53014	0.1267	0.44959	RP11-126K1.2		
ENSG00000183780	1	234030679	234470262	1421	175	44543	0.12636	0.44973	SLC35F3		
ENSG00000144233	2	128609204	128653496	108	21	34290	0.12605	0.44985	AMMECR1L		

ENSG00000171596	2	232377871	232405206	124	13	55296	0.12602	0.44986	NMUR1		
ENSG00000155868	5	156554423	156596030	133	16	43625	0.12595	0.44989	MED7		
ENSG00000253117	8	133026467	133081627	205	30	50520	0.12593	0.44989	OC90		
ENSG00000171564	4	155474108	155502238	83	10	54200	0.12535	0.45012	FGB		
ENSG00000204560	6	30610896	30650814	112	14	27750	0.12524	0.45017	DHX16		
ENSG00000171396	17	39305910	39326983	33	8	36463	0.125	0.45026	KRTAP4-4		
ENSG00000163918	3	186497669	186534847	84	17	50547	0.1248	0.45034	RFC4		
ENSG00000121314	12	10948650	10969892	37	9	40259	0.12445	0.45048	TAS2R8		
ENSG00000121211	4	154255801	154346270	319	30	38878	0.12443	0.45049	MND1		
ENSG00000187783	10	45396648	45442450	130	22	50586	0.12411	0.45061	TMEM72		
ENSG00000158865	16	24847162	24932949	275	48	41621	0.12401	0.45065	SLC5A11		
ENSG00000146457	6	160136617	160187351	163	19	42374	0.1239	0.4507	WTAP		
ENSG00000099998	22	24605622	24651110	203	38	43172	0.12366	0.45079	GGT5		
ENSG00000167377	16	71471500	71506998	83	15	37942	0.12334	0.45092	ZNF23		
ENSG00000196437	19	37892057	37970177	163	25	37069	0.12333	0.45092	ZNF569		
ENSG00000167612	12	52271744	52295448	100	25	45701	0.1232	0.45097	ANKRD33		
ENSG00000083520	13	73319540	73366234	119	23	50622	0.12285	0.45111	DIS3		
ENSG00000103089	16	74736853	74818729	329	55	47281	0.1227	0.45117	FA2H		
ENSG00000205362	16	56662578	56683999	120	20	40957	0.12265	0.45119	MT1A		
ENSG00000143252	1	161274047	161342984	360	14	24989	0.12255	0.45123	SDHC		
ENSG00000168004	11	63218876	63268666	106	24	34600	0.12256	0.45123	HRASLS5		
ENSG00000112624	6	42739765	42846298	217	26	39653	0.12249	0.45126	GLTSCR1L		
ENSG00000256040	9	119150439	119172885	60	12	55810	0.12237	0.4513	PAPPA-AS1		
ENSG00000177981	12	48531571	48584996	148	20	50163	0.12236	0.45131	ASB8		
ENSG00000130560	9	138814815	138863226	227	30	49302	0.12222	0.45136	UBAC1		
ENSG00000163823	3	46233200	46259887	68	7	25447	0.12206	0.45143	CCR1		
ENSG00000136457	17	48531857	48556327	55	11	37856	0.12202	0.45144	CHAD		
ENSG00000163666	3	57221944	57270549	71	13	41949	0.12172	0.45156	HESX1		
ENSG00000197948	5	141008869	141040986	104	24	50919	0.12169	0.45157	FCHSD1		
ENSG00000125845	20	6738311	6770927	91	33	49584	0.12144	0.45167	BMP2		
ENSG00000015133	14	91727667	91894188	563	103	49163	0.12142	0.45168	CCDC88C		
ENSG00000124243	20	49401431	49503714	372	53	38371	0.12119	0.45177	BCAS4		
ENSG00000105993	7	157118075	157220133	447	49	42243	0.12111	0.4518	DNAJB6		
ENSG00000089685	17	76200267	76231717	170	22	51400	0.1211	0.45181	BIRC5		
ENSG00000189319	10	126297861	126442838	344	47	48150	0.121	0.45184	FAM53B		
ENSG00000156976	3	186490994	186517689	61	14	51831	0.12096	0.45186	EIF4A2		

ENSG00000119431	9	116125699	116149279	129	30	43330	0.12096	0.45186	HDHD3		
ENSG00000084070	1	40800522	40898998	280	51	47241	0.1209	0.45189	SMAP2		
ENSG00000239511	22	21467050	21492352	2	1	42797	0.12086	0.4519	POM121L7		
ENSG00000135999	2	149392009	149555130	403	24	38189	0.12082	0.45192	EPC2		
ENSG00000258588	11	5607955	5675628	337	64	43645	0.12078	0.45193	TRIM6-TRIM34		
ENSG00000170683	11	7950081	7971141	104	17	51182	0.12048	0.45205	OR10A3		
ENSG00000197245	1	26475511	26499119	74	17	40186	0.12031	0.45212	FAM110D		
ENSG00000148468	10	15243642	15423061	684	82	45951	0.11991	0.45228	FAM171A1		
ENSG00000204389	6	31773291	31795723	57	22	36800	0.11989	0.45229	HSPA1A		
ENSG00000225940	5	55797394	55912059	510	80	42333	0.11985	0.4523	AC022431.2		
ENSG00000183496	15	82324119	82348482	73	21	37647	0.11966	0.45238	MEX3B		
ENSG00000125249	13	98076476	98131382	94	15	46576	0.11929	0.45252	RAP2A		
ENSG00000166479	18	66330925	66392535	154	19	37141	0.11922	0.45255	TMX3		
ENSG00000164935	8	105341315	105378917	133	26	41458	0.11873	0.45275	DCSTAMP		
ENSG00000156711	6	36085586	36117842	62	16	43654	0.11865	0.45278	MAPK13		
ENSG00000206527	3	123199667	123314032	322	32	38566	0.11843	0.45286	PTPLB		
ENSG00000172795	5	112302399	112366667	217	29	47846	0.1182	0.45295	DCP2		
ENSG00000205002	8	117940438	117966726	54	17	49971	0.11818	0.45296	AARD		
ENSG00000092036	14	23405437	23436370	59	8	31906	0.11785	0.45309	HAUS4		
ENSG00000168621	5	37802779	37849788	157	31	45108	0.11776	0.45313	GDNF		
ENSG00000042304	2	228464806	228508036	376	38	46247	0.1177	0.45315	C2orf83		
ENSG00000085449	2	224710433	224820104	286	20	37488	0.11733	0.4533	WDFY1		
ENSG00000118972	12	4467393	4498894	88	17	44304	0.11732	0.4533	FGF23		
ENSG00000234602	5	54505442	54533143	91	10	56000	0.1171	0.45339	MCIDAS		
ENSG00000172819	12	53594354	53636764	85	26	34521	0.11685	0.45349	RARG		
ENSG00000151287	13	103408340	103436161	81	16	39070	0.11683	0.4535	TEX30		
ENSG00000090861	16	70276198	70333446	55	25	41532	0.1166	0.45359	AARS		
ENSG00000065882	4	37882708	38150796	951	137	46992	0.11657	0.4536	TBC1D1		
ENSG00000178342	18	77613668	77670184	207	27	37816	0.11654	0.45361	KCNG2		
ENSG00000121377	12	10944131	10965226	36	8	38129	0.11652	0.45362	TAS2R7		
ENSG00000100372	22	41155634	41225403	115	17	45414	0.11643	0.45366	SLC25A17		
ENSG00000186807	10	47736936	47773041	10	7	18783	0.11608	0.45379	ANXA8L2		
ENSG00000215033	10	47736962	47780871	10	7	18783	0.11608	0.45379	AL603965.1		
ENSG00000113638	5	40704577	40766077	135	16	49771	0.11598	0.45383	TTC33		
ENSG00000078618	1	52244863	52354477	245	37	44499	0.11512	0.45418	NRD1		
ENSG00000120068	17	46678739	46702478	77	19	36319	0.11509	0.45419	HOXB8		

ENSG00000166199	11	43892361	43951816	257	28	46542	0.115	0.45422	ALKBH3		
ENSG00000255307	11	6180560	6201638	72	16	24296	0.11489	0.45427	OR52B2		
ENSG00000187533	4	70989333	71052516	214	32	46176	0.11469	0.45435	C4orf40		
ENSG00000032444	19	7588890	7636650	259	33	46850	0.11468	0.45435	PNPLA6		
ENSG00000138069	2	65287835	65367240	278	30	53220	0.11456	0.4544	RAB1A		
ENSG00000163626	4	73911797	73945472	32	9	45941	0.11443	0.45445	COX18		
ENSG00000085117	11	44575977	44651913	316	58	48786	0.11438	0.45447	CD82		
ENSG00000081721	1	161709548	161737028	118	19	40593	0.1141	0.45458	DUSP12		
ENSG00000186648	14	24511206	24548937	81	33	46595	0.1141	0.45458	LRRC16B		
ENSG00000141084	16	67747005	67850555	140	23	39002	0.11384	0.45468	RANBP10		
ENSG00000159110	21	34592206	34647980	189	22	52997	0.11374	0.45472	IFNAR2		
ENSG00000170209	11	113248513	113281140	94	14	33691	0.11357	0.45479	ANKK1		
ENSG00000112357	6	137133717	137245075	303	28	51853	0.11346	0.45483	PEX7		
ENSG00000157570	11	44738015	44963972	683	119	40432	0.11346	0.45483	TSPAN18		
ENSG00000182827	1	226322380	226384431	164	22	54951	0.1132	0.45494	ACBD3		
ENSG00000116824	1	117287007	117321850	57	14	37148	0.11317	0.45495	CD2		
ENSG00000169926	15	31609058	31737868	354	59	48941	0.11308	0.45498	KLF13		
ENSG00000148187	9	125016882	125095743	89	24	48297	0.11304	0.455	MRRF		
ENSG00000101347	20	35508632	35590246	181	24	41613	0.11278	0.4551	SAMHD1		
ENSG00000183024	17	3019878	3040875	88	12	27312	0.11268	0.45514	OR1G1		
ENSG00000099866	19	479176	515347	163	35	34250	0.1126	0.45517	MADCAM1		
ENSG00000153029	1	180993067	181041074	175	33	44806	0.11242	0.45525	MR1		
ENSG00000099381	16	30958615	31006437	62	9	30688	0.11235	0.45527	SETD1A		
ENSG00000069667	15	60770483	61531518	2213	274	44370	0.11225	0.45531	RORA		
ENSG00000167136	9	131570753	131594956	95	11	39594	0.11186	0.45547	ENDOG		
ENSG00000106113	7	30682200	30749745	176	46	41924	0.11176	0.45551	CRHR2		
ENSG00000100296	22	29891868	29961205	199	20	47494	0.11173	0.45552	THOC5		
ENSG00000227268	10	89608918	89633194	41	11	53781	0.11135	0.45567	KLLN		
ENSG00000157350	16	70403338	70483140	95	34	47014	0.11116	0.45575	ST3GAL2		
ENSG00000125149	16	67133861	67192442	61	18	48133	0.11107	0.45578	C16orf70		
ENSG00000254106	5	109208883	109230452	80	16	39795	0.11101	0.4558	AC011366.3		
ENSG00000162236	11	62564369	62609560	110	11	35228	0.11059	0.45597	STX5		
ENSG00000136937	9	100385908	100446030	71	20	48527	0.11027	0.4561	NCBP1		
ENSG00000243627	21	35781013	35806264	33	12	44001	0.11007	0.45618	AP000322.53		
ENSG00000198752	14	103388716	103533799	380	58	42491	0.10989	0.45625	CDC42BPB		
ENSG00000111218	12	3480515	3713139	618	124	45922	0.10985	0.45627	PRMT8		

ENSG00000185989	13	114737194	114908086	747	65	38759	0.10966	0.45634	RASA3		
ENSG00000185924	17	1827971	1938639	444	72	47369	0.10945	0.45642	RTN4RL1		
ENSG00000204311	2	179306163	179336117	47	12	37589	0.10939	0.45645	DFNB59		
ENSG00000113073	5	139729787	139764728	44	18	53203	0.10936	0.45646	SLC4A9		
ENSG00000143751	1	226160403	226197032	54	14	45261	0.10926	0.4565	SDE2		
ENSG00000135048	9	74288282	74441606	533	43	47481	0.10902	0.45659	TMEM2		
ENSG00000148143	9	109615378	109785915	293	57	44446	0.10902	0.45659	ZNF462		
ENSG00000168267	10	23471256	23493181	33	11	47319	0.10879	0.45669	PTF1A		
ENSG00000134323	2	16070686	16097129	81	15	38524	0.10865	0.45674	MYCN		
ENSG00000197261	6	49508113	49539620	128	17	39700	0.10819	0.45692	C6orf141		
ENSG00000110148	11	6270966	6303357	118	24	38142	0.10814	0.45694	CCKBR		
ENSG00000128918	15	58235622	58800065	2162	245	43593	0.10812	0.45695	ALDH1A2		
ENSG00000164393	6	47614172	47675533	299	9	56039	0.10802	0.45699	GPR111		
ENSG00000163734	4	74892306	74914524	11	6	48056	0.10782	0.45707	CXCL3		
ENSG00000089902	14	103048998	103206913	483	37	47795	0.10782	0.45707	RCOR1		
ENSG00000164620	5	141006517	141030644	75	19	53400	0.10772	0.45711	RELL2		
ENSG00000148832	10	135182695	135215198	125	22	35461	0.10763	0.45714	PAOX		
ENSG00000235034	19	51142702	51172567	95	27	46388	0.1076	0.45716	C19orf81		
ENSG00000163082	2	223279236	223435667	464	75	46872	0.10749	0.4572	SGPP2		
ENSG00000137267	6	3143903	3167760	82	8	28347	0.10744	0.45722	TUBB2A		
ENSG00000226976	6	37002607	37023177	101	12	51988	0.10701	0.45739	COX6A1P2		
ENSG00000228567	19	53759929	53780972	106	18	53656	0.10683	0.45746	VN1R4		
ENSG00000180259	20	4701928	4731314	174	18	51771	0.10672	0.45751	PRNT		
ENSG00000267987	9	124093625	124120410	90	18	37118	0.10647	0.4576	AL161784.1		
ENSG00000188523	9	135275430	135458704	588	118	47264	0.10635	0.45765	C9orf171		
ENSG00000119688	14	74742126	74779759	100	17	38564	0.10627	0.45768	ABCD4		
ENSG00000145354	4	103780135	103820399	79	5	39228	0.10623	0.4577	CISD2		
ENSG00000100629	14	80933330	81435861	1781	127	43323	0.10609	0.45775	CEP128		
ENSG00000123159	19	14578572	14616944	175	31	43097	0.10596	0.45781	GIPC1		
ENSG00000136861	9	123141147	123352448	324	42	42813	0.10588	0.45784	CDK5RAP2		
ENSG00000236338	7	135601542	135623214	76	14	39384	0.10564	0.45793	AC015987.2		
ENSG00000145147	4	20244883	20632184	1131	168	49005	0.10559	0.45795	SLIT2		
ENSG00000227184	8	144929497	144962632	79	28	42518	0.10534	0.45805	EPPK1		
ENSG00000269117	20	31813091	31833387	55	5	38464	0.10517	0.45812	AL121901.1		
ENSG00000124935	11	61999682	62022280	61	14	38461	0.10487	0.45824	SCGB1D2		
ENSG00000144834	3	111707511	111742734	190	30	47685	0.10467	0.45832	TAGLN3		

ENSG00000165632	10	7850467	8068590	782	73	47462	0.10454	0.45837	TAF3		
ENSG00000100364	22	45576219	45646650	315	46	48511	0.10423	0.45849	KIAA0930		
ENSG00000164086	3	52072935	52100566	36	8	30560	0.10421	0.4585	DUSP7		
ENSG00000151503	11	134010014	134105348	237	36	48129	0.10383	0.45865	NCAPD3		
ENSG00000144535	2	232815955	233219060	1072	53	40465	0.1037	0.4587	DIS3L2		
ENSG00000079308	2	218654512	218877718	628	123	38238	0.10353	0.45877	TNS1		
ENSG00000185069	12	53151939	53181129	111	22	35632	0.10349	0.45879	KRT76		
ENSG00000225683	6	163576446	163622840	179	35	47393	0.10333	0.45885	AL078585.1		
ENSG00000109089	17	72973727	73011895	95	18	35849	0.10333	0.45885	CDR2L		
ENSG00000146112	6	30634166	30665672	131	19	31625	0.10307	0.45895	PPP1R18		
ENSG00000176024	19	52420400	52462012	162	18	32892	0.10301	0.45898	ZNF613		
ENSG00000196453	7	149118454	149168214	94	23	48039	0.10296	0.459	ZNF777		
ENSG00000186395	17	38964369	38988847	78	18	42973	0.10278	0.45907	KRT10		
ENSG00000170482	5	138692885	138730242	42	11	35904	0.10273	0.45909	SLC23A1		
ENSG00000132561	8	98871068	99058944	592	79	40587	0.10267	0.45911	MATN2		
ENSG00000172260	1	71851623	72758417	2039	156	42750	0.10266	0.45912	NEGR1		
ENSG00000189164	19	37851963	37893968	77	16	34751	0.10266	0.45912	ZNF527		
ENSG00000152804	10	94437945	94465403	62	13	53776	0.1023	0.45926	HHEX		
ENSG00000100628	14	94390499	94453137	235	48	43261	0.10183	0.45945	ASB2		
ENSG00000111596	12	70626774	70758773	412	32	52618	0.10179	0.45946	CNOT2		
ENSG00000188895	17	38268551	38303042	77	15	40797	0.10175	0.45948	MSL1		
ENSG00000154928	3	134306643	134989309	2236	189	42202	0.10167	0.45951	EPHB1		
ENSG00000176273	10	95643730	95725819	144	14	44576	0.10168	0.45951	SLC35G1		
ENSG00000092871	17	33323009	33426338	103	23	41366	0.10135	0.45964	RFFL		
ENSG00000013503	12	106741436	106913976	481	36	41926	0.10096	0.45979	POLR3B		
ENSG00000161905	17	4524197	4555589	85	27	38483	0.10095	0.45979	ALOX15		
ENSG00000175664	13	31496840	31559639	193	31	50380	0.10089	0.45982	TEX26		
ENSG00000183941	1	149794221	149821339	13	5	44906	0.10076	0.45987	HIST2H4A		
ENSG00000205821	17	2300279	2328731	75	20	38366	0.10077	0.45987	AC006435.1		
ENSG00000184140	15	102335902	102356876	53	10	41119	0.10027	0.46007	OR4F6		
ENSG00000106823	9	95246365	95308937	180	18	36563	0.10013	0.46012	ECM2		
ENSG00000203995	1	53298183	53370670	175	16	26585	0.10012	0.46013	ZYG11A		
ENSG00000139364	12	125661382	126156917	1634	223	47976	0.10007	0.46014	TMEM132B		
ENSG00000198959	20	36746863	36804980	165	17	32639	0.1	0.46017	TGM2		
ENSG00000161835	12	52390724	52419673	69	24	53169	0.09991	0.46021	GRASP		
ENSG00000109118	17	27222268	27288789	74	14	50119	0.099889	0.46022	PHF12		

ENSG00000197748	10	105879646	106002120	316	34	39630	0.099796	0.46025	WDR96		
ENSG00000116771	1	15888848	15921605	163	14	38017	0.099768	0.46026	AGMAT		
ENSG00000155087	8	103553800	103583245	164	28	52420	0.099612	0.46033	ODF1		
ENSG00000198821	1	167389877	167497847	378	84	43659	0.099483	0.46038	CD247		
ENSG00000198374	6	27823034	27843606	54	13	34273	0.099409	0.46041	HIST1H2AL		
ENSG00000145912	5	177566461	177590968	88	14	53218	0.099284	0.46046	NHP2		
ENSG00000065809	10	14550556	14826896	1184	152	49602	0.098791	0.46065	FAM107B		
ENSG00000099194	10	102096881	102134591	95	18	50210	0.0987	0.46069	SCD		
ENSG00000159337	15	42349207	42396752	223	21	53539	0.098671	0.4607	PLA2G4D		
ENSG00000206260	3	138712804	138735110	46	12	46946	0.098477	0.46078	PRR23A		
ENSG00000116127	2	73602886	73847920	537	28	33342	0.098276	0.46086	ALMS1		
ENSG00000176261	1	33055773	33126504	186	18	36959	0.098132	0.46091	ZBTB8OS		
ENSG00000197428	11	4650945	4672068	135	23	36751	0.098004	0.46096	OR51D1		
ENSG00000101216	20	62208955	62268394	231	29	41753	0.097788	0.46105	GMEB2		
ENSG00000168283	10	22600140	22630413	22	11	43181	0.097729	0.46107	BMI1		
ENSG00000116750	1	192971380	193039237	109	16	52333	0.097532	0.46115	UCHL5		
ENSG00000149308	11	108017942	108103369	144	16	51408	0.09743	0.46119	NPAT		
ENSG00000243729	6	29313007	29409744	440	47	38606	0.097259	0.46126	OR5V1		
ENSG00000154127	11	122516383	122695181	626	104	46261	0.096959	0.46138	UBASH3B		
ENSG00000133943	14	91516677	91701976	491	79	44609	0.096906	0.4614	C14orf159		
ENSG00000140416	15	63324831	63374114	198	28	47266	0.096911	0.4614	TPM1		
ENSG00000140688	16	31490792	31530630	64	9	35457	0.096889	0.46141	C16orf58		
ENSG00000172244	5	43476803	43525247	151	19	34758	0.096701	0.46148	C5orf34		
ENSG00000187695	3	128618717	128700173	312	31	35534	0.096633	0.46151	RP11-723O4.6		
ENSG00000028203	12	95601522	95706566	384	38	47001	0.096581	0.46153	VEZT		
ENSG00000255798	11	102542041	102564644	115	21	47957	0.096535	0.46155	RP11-817J15.3		
ENSG00000204501	1	13411176	13438191	1	1	42859	0.096404	0.4616	PRAMEF9		
ENSG00000129152	11	17731115	17753678	67	17	49776	0.096137	0.46171	MYOD1		
ENSG00000187391	7	77636393	79092890	5805	448	45183	0.096069	0.46173	MAGI2		
ENSG00000136045	12	108069509	108116944	118	16	39067	0.096011	0.46176	PWP1		
ENSG00000107020	9	5347973	5447878	379	49	40447	0.095858	0.46182	PLGRKT		
ENSG00000162694	1	101327943	101371554	53	13	44276	0.095812	0.46183	EXTL2		
ENSG00000099957	22	21354097	21393119	155	30	41988	0.095804	0.46184	P2RX6		
ENSG00000163811	2	29107509	29181088	267	16	44256	0.095259	0.46205	WDR43		
ENSG00000196531	12	57096212	57135412	79	14	49321	0.095221	0.46207	NACA		
ENSG00000163577	3	170596204	170636482	89	15	51128	0.094842	0.46222	EIF5A2		

ENSG00000185896	13	113941556	113987987	35	21	49983	0.09484	0.46222	LAMP1		
ENSG00000141101	16	69765770	69798843	80	18	44807	0.09466	0.46229	NOB1		
ENSG00000106004	7	27170671	27193287	55	12	35388	0.09451	0.46235	HOXA5		
ENSG00000106336	7	100171605	100208740	57	16	49683	0.094494	0.46236	FBXO24		
ENSG00000107164	9	133444352	133523739	210	34	42340	0.094431	0.46238	FUBP3		
ENSG00000136810	9	112996091	113028920	135	26	48486	0.094384	0.4624	TXN		
ENSG00000005243	17	46093533	46125392	105	20	46491	0.094305	0.46243	COPZ2		
ENSG00000167861	17	72936838	72979261	83	28	41072	0.094264	0.46245	HID1		
ENSG00000135218	7	79988891	80318593	990	107	37775	0.094221	0.46247	CD36		
ENSG00000198765	1	115387424	115547991	414	33	45902	0.094143	0.4625	SYCP1		
ENSG00000164744	7	48016745	48078716	167	16	49486	0.094104	0.46251	SUN3		
ENSG00000115282	2	74700200	74732013	21	14	51031	0.093973	0.46257	TTC31		
ENSG00000049249	1	7969907	8010926	57	16	38069	0.093734	0.46266	TNFRSF9		
ENSG00000008226	3	38070696	38175516	309	27	47682	0.093724	0.46266	DLEC1		
ENSG00000165997	10	18938334	18980568	146	21	54933	0.093672	0.46268	ARL5B		
ENSG00000204669	9	74656292	74697733	127	22	38808	0.093535	0.46274	C9orf57		
ENSG00000204983	7	142447319	142470923	42	9	33099	0.093436	0.46278	PRSS1		
ENSG00000182572	6	27829623	27850099	59	13	36254	0.093406	0.46279	HIST1H3I		
ENSG00000255835	1	226064396	226121978	196	32	43163	0.09324	0.46286	RP4-559A3.7		
ENSG00000105926	7	24602887	24743812	521	25	47705	0.093241	0.46286	MPP6		
ENSG00000163081	2	223152866	223179936	49	20	51164	0.093158	0.46289	CCDC140		
ENSG00000005175	12	48047070	48109844	146	21	50655	0.093125	0.4629	RPAP3		
ENSG00000132437	7	50516134	50643154	674	55	48565	0.092998	0.46295	DDC		
ENSG00000164253	5	76711795	76926436	908	78	38745	0.09299	0.46296	WDR41		
ENSG00000188846	3	40488783	40513861	77	10	43352	0.092827	0.46302	RPL14		
ENSG00000265590	21	33941132	33994591	181	24	48897	0.092752	0.46305	AP000275.65		
ENSG00000230185	9	115186096	115259484	267	15	54646	0.092509	0.46315	C9orf147		
ENSG00000171843	9	20331663	20632542	523	85	46857	0.092478	0.46316	MLLT3		
ENSG00000247626	2	198560087	198583113	59	8	52329	0.092261	0.46325	MARS2		
ENSG00000206538	3	86977119	87050269	102	21	48588	0.092171	0.46328	VGLL3		
ENSG00000163440	4	56412692	56468379	226	21	51924	0.091805	0.46343	PDCL2		
ENSG00000133111	13	37383361	37413241	37	12	40332	0.091707	0.46347	RFXAP		
ENSG00000227500	19	1895213	1936016	142	27	36825	0.09151	0.46354	SCAMP4		
ENSG00000180834	3	183523664	183553382	94	12	52416	0.091386	0.46359	MAP6D1		
ENSG00000089116	12	113889839	113920085	73	9	55486	0.091226	0.46366	LHX5		
ENSG00000258659	11	5630994	5675628	200	33	40862	0.091111	0.4637	TRIM34		

ENSG00000142449	19	8120286	8224730	572	90	41852	0.09099	0.46375	<i>FBN3</i>		
ENSG00000214216	3	158670717	158994096	761	83	42499	0.090917	0.46378	<i>IQCJ</i>		
ENSG00000161547	17	74720197	74743456	15	7	45319	0.090602	0.4639	<i>SRSF2</i>		
ENSG00000116138	1	15843308	15928874	366	21	43435	0.090182	0.46407	<i>DNAJC16</i>		
ENSG00000162695	1	101351632	101457309	181	21	53373	0.090123	0.46409	<i>SLC30A7</i>		
ENSG00000151470	4	130004472	130047795	155	16	39663	0.089606	0.4643	<i>C4orf33</i>		
ENSG00000135046	9	75756673	75795309	114	25	38754	0.089563	0.46432	<i>ANXA1</i>		
ENSG00000167874	17	7748383	7769417	50	14	37721	0.089478	0.46435	<i>TMEM88</i>		
ENSG00000125952	14	65462892	65579413	304	43	44535	0.089332	0.46441	<i>MAX</i>		
ENSG00000112981	5	137440866	137485132	80	17	53919	0.089187	0.46447	<i>NME5</i>		
ENSG00000205560	22	50997290	51027899	156	27	28960	0.088917	0.46457	<i>CPT1B</i>		
ENSG00000144566	3	19978571	20036667	244	27	41948	0.088805	0.46462	<i>RAB5A</i>		
ENSG00000156885	16	31429052	31449967	28	9	50384	0.088496	0.46474	<i>COX6A2</i>		
ENSG00000174844	3	57317727	57540071	915	55	40931	0.088299	0.46482	<i>DNAH12</i>		
ENSG00000143318	1	160150285	160181676	76	24	41973	0.088148	0.46488	<i>CASQ1</i>		
ENSG00000188760	2	220398385	220425317	84	13	45537	0.088011	0.46493	<i>TMEM198</i>		
ENSG00000127252	3	192948914	193005527	160	19	48018	0.087986	0.46494	<i>HRASLS</i>		
ENSG00000138035	2	55851400	55931045	278	33	39707	0.087977	0.46495	<i>PNPT1</i>		
ENSG00000133703	12	25347723	25413870	249	29	49238	0.08791	0.46497	<i>KRAS</i>		
ENSG00000125831	20	23421040	23443494	72	12	26418	0.087682	0.46506	<i>CST11</i>		
ENSG00000146477	6	160759300	160886014	311	34	51237	0.087504	0.46514	<i>SLC22A3</i>		
ENSG00000112992	5	43592794	43717507	370	23	45655	0.087454	0.46516	<i>NNT</i>		
ENSG00000149273	11	75100530	75143324	84	18	37759	0.087445	0.46516	<i>RPS3</i>		
ENSG00000107833	10	103531082	103553170	18	8	49074	0.087236	0.46524	<i>NPM3</i>		
ENSG00000158864	1	161156894	161194185	92	24	53663	0.086459	0.46555	<i>NDUFS2</i>		
ENSG00000110801	12	122316637	122366203	150	21	34753	0.086022	0.46572	<i>PSMD9</i>		
ENSG00000167842	17	5379605	5404134	115	11	29375	0.085813	0.46581	<i>MIS12</i>		
ENSG00000166670	11	102631234	102661359	119	25	54319	0.085725	0.46584	<i>MMP10</i>		
ENSG00000115289	2	74722170	74745707	11	5	57353	0.085608	0.46589	<i>PCGF1</i>		
ENSG00000214305	11	107640219	107662316	107	16	52424	0.085558	0.46591	<i>AP001024.1</i>		
ENSG00000198680	9	25666396	25688856	111	18	48585	0.085527	0.46592	<i>TUSC1</i>		
ENSG00000132356	5	40749481	40808476	136	19	50436	0.084597	0.46629	<i>PRKAA1</i>		
ENSG00000188522	17	18862102	18918117	103	30	36283	0.084363	0.46638	<i>FAM83G</i>		
ENSG00000109881	11	27342374	27395415	161	26	46214	0.084175	0.46646	<i>CCDC34</i>		
ENSG00000119801	2	30359807	30393399	53	15	45562	0.084069	0.4665	<i>YPEL5</i>		
ENSG00000070950	3	8807088	9015457	937	71	41298	0.084072	0.4665	<i>RAD18</i>		

ENSG00000198083	17	39401636	39422616	63	7	37075	0.084027	0.46652	KRTAP9-9		
ENSG00000005075	7	102103565	102129354	78	12	38754	0.083975	0.46654	POLR2J		
ENSG00000100288	22	51007378	51049884	214	36	32454	0.083966	0.46654	CHKB		
ENSG00000251606	5	96414779	96529354	310	56	45159	0.083432	0.46675	CTD-2215E18.1		
ENSG00000166863	12	57393784	57432667	82	11	53617	0.08336	0.46678	TAC3		
ENSG00000100600	14	93160152	93225047	173	43	42640	0.0833	0.46681	LGMN		
ENSG00000268194	2	121211911	121233697	76	20	38806	0.0829	0.46697	LINC01101		
ENSG00000170577	2	45222300	45246569	83	12	44723	0.082693	0.46705	SIX2		
ENSG00000123838	1	207267607	207328317	147	27	32696	0.082443	0.46715	C4BPA		
ENSG00000129167	11	18029111	18073973	89	11	41936	0.082042	0.46731	TPH1		
ENSG00000136928	9	101040391	101481479	1837	200	44712	0.081779	0.46741	GABBR2		
ENSG00000225614	16	88483879	88517165	104	31	45138	0.081726	0.46743	ZNF469		
ENSG00000135213	7	75036066	75125548	232	33	47005	0.081711	0.46744	POM121C		
ENSG00000140274	15	45396519	45420619	39	13	41836	0.081691	0.46745	DUOXA2		
ENSG00000171942	19	15828834	15849862	108	14	49713	0.081352	0.46758	OR10H2		
ENSG00000144468	2	227690297	227873931	412	27	41597	0.081306	0.4676	RHBDD1		
ENSG00000186174	11	118754584	118806317	127	31	44549	0.080874	0.46777	BCL9L		
ENSG00000148482	10	18230768	18342221	527	73	45611	0.080825	0.46779	SLC39A12		
ENSG00000180089	19	55728007	55751647	92	19	51986	0.080771	0.46781	TMEM86B		
ENSG00000269808	19	55728587	55751647	92	19	51986	0.080771	0.46781	AC010327.2		
ENSG00000268367	12	57800198	57820536	25	7	42498	0.080622	0.46787	AC126614.1		
ENSG00000171453	6	43467440	43507323	72	11	43558	0.080575	0.46789	POLR1C		
ENSG00000272047	6	158579384	158630376	151	20	45855	0.080458	0.46794	GTF2H5		
ENSG00000167680	19	4532600	4569820	108	28	46147	0.080215	0.46803	SEMA6B		
ENSG00000118777	4	89001416	89162474	525	65	42086	0.079939	0.46814	ABCG2		
ENSG00000267618	17	33328368	33458512	151	37	42514	0.079886	0.46816	RAD51L3-RFFL		
ENSG00000203818	1	149390131	149410542	1	1	42884	0.079544	0.4683	HIST2H3PS2		
ENSG00000100298	22	39483229	39510072	183	18	32177	0.079519	0.46831	APOBEC3H		
ENSG00000186020	19	37015676	37106178	234	27	53120	0.078978	0.46852	ZNF529		
ENSG00000162961	2	32082878	32274881	504	41	54536	0.07888	0.46856	DPY30		
ENSG00000145536	5	5130443	5330417	939	165	46456	0.078872	0.46857	ADAMTS16		
ENSG00000152583	4	88384487	88462213	299	28	36653	0.078767	0.46861	SPARCL1		
ENSG00000268387	1	161180160	161202296	62	17	50417	0.078673	0.46865	AL590714.1		
ENSG00000162419	1	28985244	29055865	119	13	34948	0.078611	0.46867	GMEB1		
ENSG00000175857	5	57777262	57802917	107	13	41705	0.078469	0.46873	GAPT		
ENSG00000251012	3	118856222	118916654	287	44	49106	0.078122	0.46887	RP11-484M3.5		

ENSG00000264472	18	66557018	66579492	91	11	45034	0.077982	0.46892	RP11-861L17.3		
ENSG00000171180	1	248392231	248413166	36	8	50022	0.077824	0.46898	OR2M4		
ENSG00000164011	1	43302280	43328148	44	10	52854	0.077816	0.46899	ZNF691		
ENSG00000115966	2	175926978	176043110	325	22	46467	0.077816	0.46899	ATF2		
ENSG00000116704	1	67455015	67529782	265	26	38306	0.07751	0.46911	SLC35D1		
ENSG00000196498	12	124798961	125062135	914	191	44072	0.077442	0.46914	NCOR2		
ENSG00000184166	17	2985352	3006290	62	12	37128	0.077212	0.46923	OR1D2		
ENSG00000135373	11	34632640	34692604	155	39	37853	0.077193	0.46924	EHF		
ENSG00000144199	2	97739320	97770619	20	11	29856	0.076893	0.46935	FAHD2B		
ENSG00000111801	6	26430700	26463643	110	18	39926	0.076778	0.4694	BTN3A3		
ENSG00000105127	19	15454196	15500609	84	12	53860	0.076789	0.4694	AKAP8		
ENSG00000175137	1	249094648	249130832	53	17	37975	0.076185	0.46964	SH3BP5L		
ENSG00000145451	4	175548065	175760465	911	113	49981	0.076087	0.46967	GLRA3		
ENSG00000185215	14	103579779	103613776	108	17	49913	0.076105	0.46967	TNFAIP2		
ENSG00000112167	6	39061840	39092965	89	23	39710	0.075981	0.46972	SAYSD1		
ENSG00000103429	16	14716672	14773093	62	20	55117	0.075584	0.46988	BFAR		
ENSG00000081277	1	201242580	201312121	292	31	34152	0.075543	0.46989	PKP1		
ENSG00000120664	13	36910568	36953738	145	20	54236	0.075366	0.46996	SPG20OS		
ENSG00000171368	5	650883	703510	215	34	44541	0.07532	0.46998	TPPP		
ENSG00000142798	1	22138738	22273790	475	70	47216	0.075229	0.47002	HSPG2		
ENSG00000162490	1	11741786	11795914	142	39	45892	0.074919	0.47014	DRAXIN		
ENSG00000198189	4	88247762	88322538	263	33	47489	0.074788	0.47019	HSD17B11		
ENSG00000143337	1	179841177	179904135	177	20	50060	0.074628	0.47026	TOR1AIP1		
ENSG00000150594	10	112826790	112850658	47	14	44940	0.074471	0.47032	ADRA2A		
ENSG00000198518	6	26194858	26216266	124	13	51552	0.074251	0.47041	HIST1H4E		
ENSG00000186187	16	75022928	75154892	311	40	37393	0.074015	0.4705	ZNRF1		
ENSG00000106617	7	151243197	151584210	1223	187	43728	0.073834	0.47057	PRKAG2		
ENSG00000072849	17	5364571	5400131	142	15	32445	0.073764	0.4706	DERL2		
ENSG00000197763	3	126280622	126383998	323	41	43795	0.073415	0.47074	TXNRD3		
ENSG00000155666	16	27204807	27243089	87	19	47691	0.073302	0.47078	KDM8		
ENSG00000170017	3	105075753	105305744	814	73	52314	0.073262	0.4708	ALCAM		
ENSG00000253719	12	74921551	74945223	101	12	35758	0.073243	0.47081	ATXN7L3B		
ENSG00000183955	12	123858320	123903905	152	22	44510	0.072989	0.47091	SETD8		
ENSG00000139620	12	49037184	49086021	131	18	45002	0.07269	0.47103	KANSL2		
ENSG00000197273	1	42618362	42640389	64	17	47710	0.072644	0.47104	GUCA2A		
ENSG00000130717	9	134389188	134416655	88	15	33368	0.072478	0.47111	UCK1		

ENSG00000183833	3	119411869	119495949	233	29	47700	0.072364	0.47116	MAATS1		
ENSG00000174839	3	57601184	57688816	239	26	45711	0.072242	0.4712	DENND6A		
ENSG00000165914	14	90996932	91292823	1087	123	46203	0.072221	0.47121	TTC7B		
ENSG00000106952	9	117646003	117702697	145	13	39267	0.072021	0.47129	TNFSF8		
ENSG00000158473	1	158139737	158164686	103	9	37050	0.071949	0.47132	CD1D		
ENSG00000091879	8	6347172	6430930	524	63	43939	0.07195	0.47132	ANGPT2		
ENSG00000129451	19	51505995	51533431	78	15	44908	0.071822	0.47137	KLK10		
ENSG00000171206	10	104394253	104428164	82	15	39414	0.071374	0.47155	TRIM8		
ENSG00000145703	5	75689074	76013957	1125	117	46208	0.071267	0.47159	IQGAP2		
ENSG00000155918	6	150329470	150356668	92	11	45534	0.071267	0.47159	RAET1L		
ENSG00000179598	17	17094309	17119629	82	20	46679	0.071256	0.4716	PLD6		
ENSG00000127314	12	68994619	69064372	159	28	39240	0.071007	0.4717	RAP1B		
ENSG00000179981	18	72912710	73011905	347	70	50724	0.070939	0.47172	TSHZ1		
ENSG00000173258	9	114277439	114350124	263	43	47871	0.070851	0.47176	ZNF483		
ENSG00000186197	1	236501562	236658214	722	74	39902	0.070772	0.47179	EDARADD		
ENSG00000164347	5	74007029	74073196	165	18	47573	0.070583	0.47186	GFM2		
ENSG00000148175	9	124091355	124142531	151	26	40426	0.070159	0.47203	STOM		
ENSG00000170190	17	73073822	73112257	181	27	40239	0.069801	0.47218	SLC16A5		
ENSG00000108021	10	5716801	5815703	307	40	52602	0.069431	0.47232	FAM208B		
ENSG00000158201	18	19220858	19294766	130	17	35567	0.069382	0.47234	ABHD3		
ENSG00000163162	2	101877681	101935163	120	24	50603	0.069362	0.47235	RNF149		
ENSG00000118004	2	3632426	3702048	263	42	45621	0.069334	0.47236	COLEC11		
ENSG00000129932	19	3480819	3510938	75	18	36969	0.069097	0.47246	DOHH		
ENSG00000183323	5	68566002	68638636	214	24	44706	0.069011	0.47249	CCDC125		
ENSG00000136813	9	114112972	114257025	403	34	39922	0.068931	0.47252	KIAA0368		
ENSG00000095139	11	118433105	118483748	103	11	31348	0.068945	0.47252	ARCN1		
ENSG00000104723	8	15264724	15634158	1962	153	45093	0.068909	0.47253	TUSC3		
ENSG00000148411	9	138888383	138997131	410	84	44707	0.068911	0.47253	NACC2		
ENSG00000185105	17	79887521	79915109	68	10	45371	0.068883	0.47254	MYADML2		
ENSG00000227124	3	75748794	75844734	155	15	42488	0.068856	0.47255	ZNF717		
ENSG00000143153	1	169064935	169111960	171	29	42210	0.068768	0.47259	ATP1B1		
ENSG00000136688	2	113720780	113753242	71	10	46724	0.068448	0.47271	IL36G		
ENSG00000214456	19	4512543	4545236	86	22	39646	0.068208	0.47281	PLIN5		
ENSG00000106070	7	50647760	50871159	818	73	46766	0.068135	0.47284	GRB10		
ENSG00000129158	11	17799595	18044709	484	58	46975	0.068094	0.47286	SERGEF		
ENSG00000188976	1	869584	904689	116	21	39693	0.068047	0.47287	NOC2L		

ENSG00000168032	3	40418647	40480110	133	10	38926	0.06789	0.47294	ENTPD3		
ENSG00000145817	5	143527723	143560278	110	10	50393	0.067877	0.47294	YIPF5		
ENSG00000112782	6	45858045	46058132	674	96	44577	0.067862	0.47295	CLIC5		
ENSG00000116128	1	147003182	147108017	327	66	46078	0.067803	0.47297	BCL9		
ENSG00000120729	5	137193480	137233540	44	14	42935	0.067807	0.47297	MYOT		
ENSG00000136997	8	128737680	128763674	70	25	39873	0.067758	0.47299	MYC		
ENSG00000025708	22	50954181	50978485	99	22	49186	0.067534	0.47308	TYMP		
ENSG00000151491	12	15763092	16045263	264	65	44310	0.06728	0.47318	EPS8		
ENSG00000145390	4	120123742	120226672	342	32	55377	0.067244	0.47319	USP53		
ENSG00000171124	19	5832899	5861485	92	30	38387	0.06688	0.47334	FUT3		
ENSG00000226777	14	106373838	106401825	19	9	45522	0.066646	0.47343	KIAA0125		
ENSG00000159335	12	6864682	6890116	48	12	35512	0.066614	0.47344	PTMS		
ENSG00000101199	20	61894137	61931142	141	17	49985	0.066636	0.47344	ARFGAP1		
ENSG00000154447	4	170005407	170202256	529	56	42685	0.066517	0.47348	SH3RF1		
ENSG00000135298	6	69335259	70109403	2411	139	48616	0.066533	0.47348	BAI3		
ENSG00000110628	11	2910951	2956476	159	44	45402	0.066512	0.47348	SLC22A18		
ENSG00000149443	20	18780372	18820797	135	31	52414	0.066508	0.47349	C20orf78		
ENSG00000204186	2	207129387	207189148	116	13	45380	0.066467	0.4735	ZDBF2		
ENSG00000169877	16	31529185	31550124	90	9	30615	0.066265	0.47358	AHSP		
ENSG00000159871	19	44290081	44341358	245	31	50239	0.066131	0.47364	LYPD5		
ENSG00000136531	2	166085912	166258818	500	48	54731	0.06594	0.47371	SCN2A		
ENSG00000129151	11	27052272	27159356	385	41	46644	0.065851	0.47375	BBOX1		
ENSG00000198604	14	35211937	35354853	501	41	49424	0.06583	0.47376	BAZ1A		
ENSG00000160349	9	138403284	138428378	90	23	46791	0.065782	0.47378	LCN1		
ENSG00000100065	22	37876400	37925549	181	26	41631	0.065544	0.47387	CARD10		
ENSG00000105371	19	10387643	10409198	68	14	39531	0.065531	0.47388	ICAM4		
ENSG00000168594	4	175740819	175909331	785	49	51818	0.06547	0.4739	ADAM29		
ENSG00000232434	9	139728867	139751797	35	13	50341	0.06541	0.47392	C9orf172		
ENSG00000071575	2	12847015	12892860	110	18	45196	0.06528	0.47398	TRIB2		
ENSG00000242612	16	441826	472487	110	15	36988	0.065204	0.47401	DECR2		
ENSG00000120656	1	28905835	28979597	112	20	46166	0.065171	0.47402	TAF12		
ENSG00000137207	6	43469565	43494728	45	9	46023	0.065136	0.47403	YIPF3		
ENSG00000164385	6	2612147	2644837	126	19	51087	0.065108	0.47404	C6orf195		
ENSG00000239961	19	54834456	54860421	110	39	47036	0.065059	0.47406	LILRA4		
ENSG00000137674	11	102437566	102506063	406	36	54177	0.064971	0.4741	MMP20		
ENSG00000170790	11	6880924	6901976	153	12	53786	0.064784	0.47417	OR10A2		

ENSG00000121621	11	28032167	28139855	160	21	37738	0.064725	0.4742	KIF18A		
ENSG00000183060	15	100245902	100283766	153	25	42248	0.064187	0.47441	LYSMD4		
ENSG00000173530	8	22983101	23031543	120	32	41173	0.064115	0.47444	TNFRSF10D		
ENSG00000143476	1	212198919	212290742	344	37	50228	0.064078	0.47445	DTL		
ENSG00000205323	12	56136247	56221540	92	22	40968	0.064064	0.47446	SARNP		
ENSG00000070047	11	566486	622222	243	25	45298	0.063576	0.47465	PHRF1		
ENSG00000139899	14	24885738	24910160	102	20	36979	0.063268	0.47478	CBLN3		
ENSG00000198750	7	74797499	74877509	6	4	43659	0.063162	0.47482	GATSL2		
ENSG00000166888	12	57479191	57535922	118	21	51929	0.063114	0.47484	STAT6		
ENSG00000185379	17	33416811	33458541	58	25	44822	0.06302	0.47488	RAD51D		
ENSG00000135722	16	67183834	67208473	17	10	46147	0.062887	0.47493	FBXL8		
ENSG00000144747	3	69058978	69111484	107	13	53352	0.062812	0.47496	TMF1		
ENSG00000152076	2	130886860	130912707	76	8	43450	0.062716	0.475	CCDC74B		
ENSG00000111245	12	111338623	111368526	116	19	47860	0.062708	0.475	MYL2		
ENSG00000124785	6	5988232	6017200	119	23	48175	0.062404	0.47512	NRN1		
ENSG00000007038	16	2857164	2886305	51	8	47336	0.062175	0.47521	PRSS21		
ENSG00000103152	16	117006	145852	75	14	31670	0.061868	0.47533	MPG		
ENSG00000153561	2	86937296	87015164	141	19	48256	0.061746	0.47538	RMND5A		
ENSG00000090520	3	186275192	186325061	147	14	34619	0.061747	0.47538	DNAJB11		
ENSG00000134419	16	18782617	18811705	77	12	48040	0.061665	0.47541	RPS15A		
ENSG00000092020	14	35544673	35601723	219	24	46413	0.061517	0.47547	PPP2R3C		
ENSG00000116062	2	47912669	48047240	417	56	41986	0.061357	0.47554	MSH6		
ENSG00000177076	9	19398925	19462018	181	24	46523	0.061265	0.47557	ACER2		
ENSG00000186184	13	28184903	28251548	267	46	48967	0.061212	0.4756	POLR1D		
ENSG00000166592	16	66945582	66969547	34	11	33174	0.061179	0.47561	RRAD		
ENSG00000127124	1	41962036	42511596	1471	134	48332	0.061156	0.47562	HIVEP3		
ENSG00000135900	2	224812121	224842431	74	11	41219	0.061161	0.47562	MRPL44		
ENSG00000105136	19	57989079	58016048	147	10	51259	0.061015	0.47567	ZNF419		
ENSG00000137274	6	3108608	3163812	107	14	29559	0.060987	0.47568	BPHL		
ENSG00000149050	11	7010549	7051599	157	15	49786	0.060628	0.47583	ZNF214		
ENSG00000141447	18	21732008	21987844	626	111	44302	0.060546	0.47586	OSBPL1A		
ENSG00000100796	14	91913955	91986898	213	15	50695	0.060521	0.47587	SMEK1		
ENSG00000075461	17	64951026	65039514	283	60	40732	0.060373	0.47593	CACNG4		
ENSG00000008517	16	3105298	3141908	127	29	46686	0.060337	0.47594	IL32		
ENSG00000086598	12	124059078	124093116	128	11	44298	0.060288	0.47596	TMED2		
ENSG00000175575	11	73577744	73648790	233	22	44964	0.060218	0.47599	PAAF1		

ENSG00000112096	6	160080089	160193561	381	34	46911	0.060196	0.476	SOD2		
ENSG00000172985	2	109735804	110272207	1300	119	42429	0.059976	0.47609	SH3RF3		
ENSG00000269510	9	35032390	35052824	39	12	42487	0.059913	0.47611	FLJ00273		
ENSG00000141639	18	48076448	48268194	496	74	51097	0.059914	0.47611	MAPK4		
ENSG00000198150	17	8251731	8273538	105	10	37694	0.059774	0.47617	AC135178.1		
ENSG00000167332	11	4691401	4729084	159	31	42382	0.059615	0.47623	OR51E2		
ENSG00000163545	1	205261187	205300883	142	23	49739	0.059589	0.47624	NUAK2		
ENSG00000139832	13	111165417	111224080	311	46	48887	0.059268	0.47637	RAB20		
ENSG00000054148	9	139733176	139755488	29	10	48886	0.059126	0.47643	PHPT1		
ENSG00000163297	4	80812303	81056608	558	51	42211	0.058932	0.4765	ANTXR2		
ENSG00000158169	9	97851336	98089991	289	37	48221	0.05886	0.47653	FANCC		
ENSG00000023287	8	53525016	53668403	208	34	42514	0.058753	0.47657	RB1CC1		
ENSG00000134201	1	110244864	110328050	276	46	38310	0.058715	0.47659	GSTM5		
ENSG00000170222	17	10590911	10624550	109	5	26557	0.058664	0.47661	ADPRM		
ENSG00000168631	6	30898749	30931998	120	25	40721	0.058547	0.47666	DPCR1		
ENSG00000185231	18	13872043	13925706	209	23	48831	0.058507	0.47667	MC2R		
ENSG00000181773	1	27709148	27732318	35	9	38363	0.05816	0.47681	GPR3		
ENSG00000196872	2	99400309	99562722	470	43	46529	0.058135	0.47682	KIAA1211L		
ENSG00000197901	11	62693857	62762455	153	22	47289	0.057872	0.47693	SLC22A6		
ENSG00000120265	6	150060579	150142556	199	9	30675	0.057465	0.47709	PCMT1		
ENSG00000174473	4	172723405	173972710	3171	182	42496	0.057349	0.47713	GALNTL6		
ENSG00000118096	11	118405243	118453685	128	7	25321	0.057262	0.47717	IFT46		
ENSG00000163581	3	170704137	170754539	126	11	30354	0.057063	0.47725	SLC2A2		
ENSG00000170549	5	3586168	3611517	97	24	47859	0.056655	0.47741	IRX1		
ENSG00000182359	11	105911825	105958492	93	18	49803	0.056198	0.47759	KBTBD3		
ENSG00000198929	1	162029564	162363321	1327	124	39416	0.055926	0.4777	NOS1AP		
ENSG00000188869	15	81613558	81676554	208	22	31297	0.055704	0.47779	TMC3		
ENSG00000167543	17	27883070	27910175	46	17	48009	0.055642	0.47781	TP53I13		
ENSG00000261833	16	76577314	76679520	335	61	50115	0.05554	0.47785	RP11-58C22.1		
ENSG00000094755	5	170180354	170251051	285	48	39900	0.055475	0.47788	GABRP		
ENSG00000131480	17	40986617	41012724	15	9	52729	0.055297	0.47795	AOC2		
ENSG00000132635	20	2805960	2831836	60	16	37601	0.055164	0.478	PCED1A		
ENSG00000134757	18	29017758	29068665	205	24	37212	0.054842	0.47813	DSG3		
ENSG00000130489	22	50951997	50974868	92	24	51791	0.054859	0.47813	SCO2		
ENSG00000169962	1	1256694	1280686	80	16	36842	0.054669	0.4782	TAS1R3		
ENSG00000256950	12	122316715	122369376	167	22	33798	0.054631	0.47822	RP11-87C12.2		

ENSG00000151948	12	129327972	129479509	716	120	43615	0.054331	0.47834	GLT1D1		
ENSG00000038532	16	11028345	11286046	793	62	46665	0.054096	0.47843	CLEC16A		
ENSG00000262664	17	1935327	1956724	64	19	50982	0.053984	0.47847	OVCA2		
ENSG00000148337	9	130918343	130976662	145	22	32582	0.053653	0.47861	CIZ1		
ENSG00000198183	20	31813801	31841115	62	6	38445	0.053568	0.47864	BPIFA1		
ENSG00000188176	17	4477294	4521614	197	44	40937	0.053517	0.47866	SMTNL2		
ENSG00000229924	4	9162135	9188453	6	3	42833	0.053251	0.47877	FAM90A26		
ENSG00000134324	2	11807721	11977535	590	92	43973	0.053159	0.4788	LPIN1		
ENSG00000196581	1	4704792	4862594	789	135	46187	0.052922	0.4789	AJAP1		
ENSG00000007933	1	171050018	171096959	210	27	43244	0.052826	0.47894	FMO3		
ENSG00000167460	19	16167831	16223813	177	32	48224	0.052675	0.479	TPM4		
ENSG00000130720	9	133767825	133824673	267	45	39347	0.052598	0.47903	FIBCD1		
ENSG00000265264	11	6492715	6540208	138	14	50332	0.052535	0.47905	TIMM10B		
ENSG00000130208	19	45407504	45432606	73	22	42055	0.05255	0.47905	APOC1		
ENSG00000072736	16	68108654	68273162	290	20	50652	0.052514	0.47906	NFATC3		
ENSG00000131368	3	15073967	15116842	107	19	54534	0.052453	0.47908	MRPS25		
ENSG00000259363	15	100337228	100427353	565	39	46600	0.051909	0.4793	CTD-2054N24.2		
ENSG00000204001	9	139638838	139662678	114	11	42439	0.051696	0.47939	LCN8		
ENSG00000197496	20	45328126	45374965	161	23	39466	0.051461	0.47948	SLC2A10		
ENSG00000160688	1	154945814	154975587	39	10	42210	0.05138	0.47951	FLAD1		
ENSG00000182645	10	118073940	118149541	232	28	34902	0.05113	0.47961	CCDC172		
ENSG00000111713	12	21679123	21767781	325	25	42491	0.050962	0.47968	GYS2		
ENSG00000163735	4	74851359	74874496	41	6	27964	0.050897	0.4797	CXCL5		
ENSG00000183718	5	180671417	180698119	97	17	36116	0.050889	0.47971	TRIM52		
ENSG00000021461	7	99415636	99473718	125	16	33814	0.050873	0.47971	CYP3A43		
ENSG00000172209	7	107100463	107126098	41	8	52921	0.050817	0.47974	GPR22		
ENSG00000064932	19	1097636	1184282	369	61	50353	0.050795	0.47974	SBNO2		
ENSG00000105392	19	48312703	48356587	323	34	45658	0.050778	0.47975	CRX		
ENSG00000148090	9	93966097	94134195	488	41	42933	0.050684	0.47979	AUH		
ENSG00000134871	13	110948159	111175374	1151	162	48555	0.050615	0.47982	COL4A2		
ENSG00000204876	7	155745326	155769037	87	29	44136	0.050464	0.47988	AC021218.2		
ENSG00000068137	17	40809932	40839048	44	9	50453	0.050341	0.47993	PLEKHH3		
ENSG00000196862	2	108433388	108517297	116	16	44940	0.050154	0.48	RGPD4		
ENSG00000110077	11	59929081	59962139	74	11	42343	0.050143	0.48	MS4A6A		
ENSG00000125844	20	17584323	17672940	216	40	39577	0.049924	0.48009	RRBP1		
ENSG00000101695	18	29588335	29663176	173	35	49218	0.049856	0.48012	RNF125		

ENSG00000158874	1	161182082	161203421	61	16	50515	0.049745	0.48016	APOA2		
ENSG00000104953	19	2967444	3005177	112	27	32649	0.049695	0.48018	TLE6		
ENSG00000259009	19	48327701	48374769	307	30	44825	0.049676	0.48019	TPRX2P		
ENSG00000135002	9	78990433	79019433	108	19	45953	0.049461	0.48028	RFK		
ENSG00000267882	20	45937246	45959467	26	10	43124	0.049456	0.48028	AL031666.2		
ENSG00000146006	5	138194612	138221057	43	5	52861	0.049375	0.48031	LRRTM2		
ENSG00000159792	16	67917175	67973581	70	15	47953	0.049187	0.48039	PSKH1		
ENSG00000169896	16	31261311	31354213	260	22	32014	0.049082	0.48043	ITGAM		
ENSG00000203814	1	149744245	149793928	56	9	43680	0.048925	0.48049	HIST2H2BF		
ENSG00000163798	2	27876338	27927840	36	13	41018	0.048924	0.48049	SLC4A1AP		
ENSG00000227345	10	51016325	51140715	203	20	44711	0.048738	0.48056	PARG		
ENSG00000006459	7	139774546	139886835	310	25	51898	0.048324	0.48073	KDM7A		
ENSG00000166451	16	81030103	81076719	179	13	39598	0.048265	0.48075	CENPN		
ENSG00000178935	19	58305209	58336281	94	15	47647	0.047929	0.48089	ZNF552		
ENSG00000181617	4	71081788	71110969	115	8	30920	0.046976	0.48127	FDCSP		
ENSG00000009709	1	18947500	19085360	437	93	46111	0.046747	0.48136	PAX7		
ENSG00000198558	6	27830926	27851289	62	14	37267	0.046693	0.48138	HIST1H4L		
ENSG00000164032	4	100859243	100881545	52	13	45315	0.04656	0.48143	H2AFZ		
ENSG00000151327	14	35504113	35592336	367	33	46736	0.046488	0.48146	FAM177A1		
ENSG00000174599	4	117994718	118016736	58	10	46341	0.046461	0.48147	TRAM1L1		
ENSG00000164327	5	38928021	39084510	385	27	52291	0.046337	0.48152	RICTOR		
ENSG00000171471	12	116987186	117024425	118	32	36792	0.045924	0.48169	MAP1LC3B2		
ENSG00000139330	12	91434268	91461760	136	22	34662	0.045832	0.48172	KERA		
ENSG00000132357	5	40831286	40870275	102	17	45846	0.045727	0.48176	CARD6		
ENSG00000244291	7	156421057	156443348	71	17	37627	0.045745	0.48176	C7orf13		
ENSG00000130772	1	28645513	28672476	47	11	50486	0.045691	0.48178	MED18		
ENSG00000171496	9	125319778	125340838	166	18	47360	0.045694	0.48178	OR1L8		
ENSG00000130731	16	674429	696358	54	11	50105	0.045667	0.48179	C16orf13		
ENSG00000167695	17	625652	656206	138	26	48686	0.045606	0.48181	FAM57A		
ENSG00000158553	6	27243682	27289949	175	22	49268	0.045595	0.48182	POM121L2		
ENSG00000179855	19	3575551	3603539	107	23	41221	0.045483	0.48186	GIPC3		
ENSG00000184545	11	1565274	1603150	130	12	54978	0.045445	0.48188	DUSP8		
ENSG00000231887	12	11023610	11046854	82	6	27289	0.045337	0.48192	PRH1		
ENSG00000258417	8	133026467	133107902	300	50	46190	0.045289	0.48194	OC90		
ENSG00000137492	11	76051000	76102015	113	23	51700	0.045241	0.48196	PRKRIR		
ENSG00000116711	1	186788085	186968113	610	69	43680	0.045174	0.48198	PLA2G4A		

ENSG00000180934	11	6037901	6058971	83	16	49046	0.045042	0.48204	OR56A1		
ENSG00000189366	3	125638118	125665882	149	11	29825	0.044991	0.48206	ALG1L		
ENSG00000151640	10	133990404	134029280	159	22	48924	0.044504	0.48225	DPYSL4		
ENSG00000266208	17	38506907	38530945	47	10	55283	0.044506	0.48225	CTD-2267D19.3		
ENSG00000183153	17	38507235	38530067	47	10	55283	0.044506	0.48225	GJD3		
ENSG00000146904	7	143077382	143115985	99	26	43911	0.044325	0.48232	EPHA1		
ENSG00000187005	21	32117439	32137746	42	4	21854	0.044257	0.48235	KRTAP21-1		
ENSG00000204394	6	31735295	31773730	95	29	35469	0.043949	0.48247	VAR5		
ENSG00000156675	8	37706136	37766985	60	24	51793	0.043956	0.48247	RAB11FIP1		
ENSG00000174808	4	75659969	75729896	300	25	35996	0.043886	0.4825	BTC		
ENSG00000255823	11	10519434	10540723	95	20	38424	0.043874	0.4825	MTRNR2L8		
ENSG00000258227	7	141617157	141656807	93	15	41073	0.043811	0.48253	CLEC5A		
ENSG00000175224	11	46628826	46706368	76	14	51287	0.043734	0.48256	ATG13		
ENSG00000108774	17	40266994	40317035	110	12	32169	0.043729	0.48256	RAB5C		
ENSG00000152601	3	151951617	152193569	441	45	48791	0.043084	0.48282	MBNL1		
ENSG00000214109	19	13880884	13910972	130	14	25573	0.043048	0.48283	AC008686.1		
ENSG00000155754	2	202342148	202493901	490	30	45330	0.042876	0.4829	ALS2CR11		
ENSG00000137571	8	70569282	70757299	558	89	48952	0.042765	0.48294	SLCO5A1		
ENSG00000170367	20	23846572	23870387	75	15	43465	0.042745	0.48295	CST5		
ENSG00000163810	3	44906100	44966482	162	19	31126	0.042614	0.483	TGM4		
ENSG00000213380	16	69344043	69383570	109	19	54066	0.042562	0.48303	COG8		
ENSG00000163486	1	206506200	206647783	289	33	39809	0.042186	0.48318	SRGAP2		
ENSG00000117118	1	17335217	17390665	196	19	39134	0.041919	0.48328	SDHB		
ENSG00000106258	7	99235817	99287621	53	21	52728	0.041803	0.48333	CYP3A5		
ENSG00000158156	1	28275973	28304607	67	19	43552	0.041678	0.48338	XKR8		
ENSG00000135502	12	58003310	58029934	50	13	49085	0.041552	0.48343	SLC26A10		
ENSG00000142166	21	34686734	34742168	164	21	41396	0.041171	0.48358	IFNAR1		
ENSG00000119729	2	46758945	46820260	157	29	41194	0.041074	0.48362	RHOQ		
ENSG00000005007	19	18932747	18989045	118	21	50786	0.040981	0.48366	UPF1		
ENSG00000141698	17	39971335	40002523	103	8	52179	0.040915	0.48368	NT5C3B		
ENSG00000078177	4	40048446	40169872	328	39	48130	0.040794	0.48373	N4BP2		
ENSG00000203907	6	74068278	74114856	107	22	54479	0.040607	0.4838	OOEP		
ENSG00000253598	8	82595842	82618409	86	14	39368	0.040542	0.48383	SLC10A5		
ENSG00000132436	7	50501831	50528088	69	14	45896	0.040342	0.48391	FIGNL1		
ENSG00000107263	9	134442157	134625461	513	49	45063	0.040354	0.48391	RAPGEF1		
ENSG00000151632	10	5019967	5070223	309	45	41995	0.040235	0.48395	AKR1C2		

ENSG00000163029	2	17835079	17991509	362	35	38801	0.040053	0.48403	SMC6		
ENSG00000174417	8	110088850	110141813	167	22	46538	0.040029	0.48403	TRHR		
ENSG00000273452	17	12616199	12671542	135	36	40795	0.039884	0.48409	AC005358.1		
ENSG00000128617	7	128402545	128425844	74	11	36424	0.039864	0.4841	OPN1SW		
ENSG00000115616	2	103226166	103337777	285	46	40855	0.03985	0.48411	SLC9A2		
ENSG00000175938	16	30950387	30977782	20	6	30816	0.039847	0.48411	ORAI3		
ENSG00000134744	1	52863954	53029159	295	31	45348	0.039623	0.4842	ZCCHC11		
ENSG00000115464	2	61404598	61707904	802	50	47211	0.039486	0.48425	USP34		
ENSG00000166313	11	6406355	6450644	102	29	54005	0.039306	0.48432	APBB1		
ENSG00000256500	14	104019299	104162261	394	31	47037	0.039154	0.48438	RP11-73M18.2		
ENSG00000143811	1	226097578	226121978	55	18	53698	0.039056	0.48442	PYCR2		
ENSG00000165633	10	50212290	50333554	472	38	33542	0.039056	0.48442	VSTM4		
ENSG00000257860	12	103535620	103572087	132	22	47284	0.039066	0.48442	RP11-552I14.1		
ENSG00000158825	1	20905441	20955401	281	33	50404	0.039037	0.48443	CDA		
ENSG00000268327	15	59429899	59450054	60	16	44140	0.038914	0.48448	C15ORF31		
ENSG00000241837	21	35265757	35298284	120	19	54740	0.038837	0.48451	ATP5O		
ENSG00000255737	12	58110054	58132139	34	8	47791	0.038441	0.48467	AGAP2-AS1		
ENSG00000105887	7	135601509	135672101	286	33	45259	0.038133	0.48479	MTPN		
ENSG00000184967	12	132618993	132647013	100	16	35948	0.038142	0.48479	NOC4L		
ENSG00000126214	14	104018233	104177888	438	34	46914	0.037863	0.4849	KLC1		
ENSG00000152936	12	25552241	25811513	1066	101	44233	0.037723	0.48495	IFLTD1		
ENSG00000101000	20	33749876	33775165	63	8	36540	0.0376	0.485	PROCR		
ENSG00000182271	17	28633351	28671077	83	15	44618	0.03754	0.48503	TMIGD1		
ENSG00000234949	2	238489663	238514624	153	24	31328	0.037396	0.48508	AC104667.3		
ENSG00000123411	12	56391443	56442219	68	17	45301	0.037385	0.48509	IKZF4		
ENSG00000138193	10	95743746	96102580	811	101	41530	0.037301	0.48512	PLCE1		
ENSG00000196865	10	115604420	115686953	94	27	46921	0.037139	0.48519	NHLRC2		
ENSG00000215421	18	72255106	72787627	1137	88	46927	0.036975	0.48525	ZNF407		
ENSG00000154839	18	47891365	47930543	156	13	41020	0.036936	0.48527	SKA1		
ENSG00000186487	2	1782885	2345032	1897	183	46145	0.036753	0.48534	MYT1L		
ENSG00000189046	12	109515996	109541436	62	21	47415	0.036565	0.48542	ALKBH2		
ENSG00000154102	16	85713690	85794735	264	41	48922	0.036562	0.48542	C16orf74		
ENSG00000158014	1	26353743	26382624	67	10	31167	0.036519	0.48543	SLC30A2		
ENSG00000143353	1	219337186	219396207	117	15	50751	0.036449	0.48546	LYPLAL1		
ENSG00000100941	14	39634387	39662422	89	17	48003	0.036366	0.4855	PNN		
ENSG00000151726	4	185666749	185757972	329	43	46150	0.036287	0.48553	ACSL1		

ENSG00000079150	2	179318391	179353327	66	15	38241	0.03585	0.4857	FKBP7		
ENSG00000137463	4	140177317	140211492	97	16	51284	0.034953	0.48606	MGARP		
ENSG00000108406	17	57632886	57695706	58	12	32253	0.034936	0.48607	DHX40		
ENSG00000106479	7	149525456	149574568	121	21	45324	0.034534	0.48623	ZNF862		
ENSG00000186532	17	1672779	1743928	296	31	36238	0.0341	0.4864	SMYD4		
ENSG00000155729	2	201343675	201394507	144	36	48490	0.034052	0.48642	KCTD18		
ENSG00000105784	7	87246864	87471611	403	30	49918	0.034054	0.48642	RUNDC3B		
ENSG00000115459	2	85571517	85628875	174	30	49697	0.033995	0.48644	ELMOD3		
ENSG00000177992	9	90487741	90513814	102	27	33149	0.033973	0.48645	SPATA31E1		
ENSG00000172270	19	561297	593493	222	31	34532	0.033768	0.48653	BSG		
ENSG00000137101	9	35599530	35656807	179	36	48212	0.033706	0.48656	CD72		
ENSG00000164329	5	78897943	78992471	266	16	29265	0.033413	0.48667	PAPD4		
ENSG00000182117	15	34623917	34645378	113	12	49442	0.03321	0.48675	NOP10		
ENSG00000146192	6	36963422	37006846	203	34	48753	0.032989	0.48684	FGD2		
ENSG00000100330	22	30269144	30436855	451	43	48260	0.032537	0.48702	MTMR3		
ENSG00000196411	7	100390187	100435121	127	21	44916	0.032527	0.48703	EPHB4		
ENSG00000173714	17	48902011	48929709	84	12	36399	0.032507	0.48703	WFIKN2		
ENSG00000175155	17	57399050	57489090	214	31	44919	0.032237	0.48714	YPEL2		
ENSG00000115267	2	163113589	163185213	98	16	39067	0.032082	0.4872	IFIH1		
ENSG00000179240	11	76082357	76135663	173	31	45839	0.032044	0.48722	RP11-111M22.2		
ENSG00000268466	14	58744751	58765865	44	6	52839	0.031919	0.48727	AL132989.1		
ENSG00000108423	17	57926851	57980304	128	16	38289	0.031844	0.4873	TUBD1		
ENSG00000103642	15	63403999	63444260	158	16	41243	0.031245	0.48754	LACTB		
ENSG00000112739	6	4011501	4075217	232	26	49335	0.03111	0.48759	PRPF4B		
ENSG00000085840	1	52828501	52880131	50	16	45444	0.030858	0.48769	ORC1		
ENSG00000064961	19	3562775	3589086	67	17	38161	0.030771	0.48773	HMG20B		
ENSG00000100142	22	38338614	38447922	126	17	44814	0.03076	0.48773	POLR2F		
ENSG00000163485	1	203049782	203146533	225	40	39989	0.030642	0.48778	ADORA1		
ENSG00000169981	3	44680219	44712283	33	10	42227	0.029855	0.48809	ZNF35		
ENSG00000157653	9	116162334	116201964	112	13	56773	0.02964	0.48818	C9orf43		
ENSG00000085832	1	51809935	51995000	667	42	53076	0.029572	0.4882	EPS15		
ENSG00000122642	7	32987017	33056543	251	43	41084	0.029452	0.48825	FKBP9		
ENSG00000204628	5	180653909	180685096	101	18	34680	0.029262	0.48833	GNB2L1		
ENSG00000158497	5	143181726	143210284	60	15	48059	0.028872	0.48848	HMHB1		
ENSG00000116039	2	71153012	71202536	180	43	44176	0.028718	0.48854	ATP6V1B1		
ENSG00000221843	2	27789389	27815588	41	9	55313	0.028681	0.48856	C2orf16		

ENSG00000196715	7	65328254	65434550	257	20	35127	0.028683	0.48856	VKORC1L1		
ENSG00000141759	18	77722867	77803949	292	23	42268	0.028677	0.48856	TXNL4A		
ENSG00000127922	7	96100938	96349203	605	56	40593	0.028617	0.48859	SHFM1		
ENSG00000105472	19	51216586	51238974	49	13	52624	0.028598	0.48859	CLEC11A		
ENSG00000163576	3	19910964	19998517	320	39	43117	0.028591	0.4886	EFHB		
ENSG00000188092	1	147390506	147475753	36	8	42269	0.028484	0.48864	GPR89B		
ENSG00000157014	3	10279707	10332902	152	24	36274	0.028478	0.48864	TATDN2		
ENSG00000144579	2	219252979	219280664	54	21	41825	0.028407	0.48867	CTDSP1		
ENSG00000168883	2	85819979	85886403	126	22	39703	0.028235	0.48874	USP39		
ENSG00000158435	2	101859264	101896778	71	17	53208	0.028224	0.48874	CNOT11		
ENSG00000188859	1	166016674	166146206	400	40	45609	0.02819	0.48876	FAM78B		
ENSG00000112852	5	140464227	140486962	86	8	54406	0.028013	0.48883	PCDHB2		
ENSG00000147647	8	105332552	105489281	507	77	41477	0.027924	0.48886	DPYS		
ENSG00000177082	15	85175999	85207574	86	15	39933	0.027901	0.48887	WDR73		
ENSG00000155093	7	157321750	158390480	4404	394	45266	0.027765	0.48892	PTPRN2		
ENSG00000172345	15	81591394	81626524	118	24	38008	0.027717	0.48894	STARD5		
ENSG00000122873	10	60018818	60059346	137	13	35901	0.027672	0.48896	CISD1		
ENSG00000119812	2	33798725	33834449	108	19	41446	0.027607	0.48899	FAM98A		
ENSG00000141428	18	33542046	33569241	59	9	52736	0.027609	0.48899	C18orf21		
ENSG00000157445	3	54146574	55118584	3210	331	49165	0.027509	0.48903	CACNA2D3		
ENSG00000103978	15	42492730	42575861	139	20	37773	0.027282	0.48912	TMEM87A		
ENSG00000232653	15	32875657	32906179	23	10	44040	0.027199	0.48915	GOLGA8N		
ENSG00000134186	1	109224945	109254425	21	13	51096	0.027104	0.48919	PRPF38B		
ENSG00000254685	1	74653896	74709770	152	12	27385	0.026989	0.48923	FPGT		
ENSG00000152779	10	91180051	91326398	417	77	44287	0.026948	0.48925	SLC16A12		
ENSG00000269175	1	101445761	101467653	29	7	55865	0.026823	0.4893	AC093157.1		
ENSG00000132326	2	239142679	239208743	220	29	48583	0.026596	0.48939	PER2		
ENSG00000268822	2	241614478	241634705	60	11	46663	0.026533	0.48942	AC011298.1		
ENSG00000142615	1	15773223	15808586	126	23	45692	0.026419	0.48946	CELA2A		
ENSG00000169684	15	78847862	78897611	128	17	47590	0.02631	0.48951	CHRNA5		
ENSG00000186818	19	55145340	55191810	240	36	41147	0.02612	0.48958	LILRB4		
ENSG00000127980	7	92106334	92167845	119	18	50768	0.025882	0.48968	PEX1		
ENSG00000221923	19	52863170	52899048	166	24	48021	0.025872	0.48968	ZNF880		
ENSG00000132259	11	6245995	6275659	63	15	41699	0.025746	0.48973	CNGA4		
ENSG00000175745	5	92909043	92940321	37	16	43400	0.025699	0.48975	NR2F1		
ENSG00000135677	12	65097225	65163227	105	18	41348	0.0257	0.48975	GNS		

ENSG00000177565	3	176727143	176925261	598	60	50272	0.02555	0.48981	TBL1XR1		
ENSG00000100207	22	42546019	42749622	509	67	45043	0.025534	0.48981	TCF20		
ENSG00000143001	1	55436465	55467966	107	11	32639	0.025017	0.49002	TMEM61		
ENSG00000043462	5	169663241	169735231	143	51	48710	0.024932	0.49005	LCP2		
ENSG00000173253	9	1040354	1067552	132	38	44930	0.024666	0.49016	DMRT2		
ENSG00000142459	19	7885119	7939862	178	22	48275	0.024665	0.49016	EVI5L		
ENSG00000175063	20	44431215	44455596	78	16	47729	0.024431	0.49025	UBE2C		
ENSG00000268821	2	172550844	172577314	67	14	43138	0.02431	0.4903	AC068039.1		
ENSG00000058799	1	54307392	54366407	231	21	53113	0.024229	0.49033	YIPF1		
ENSG00000205869	11	1595572	1616513	94	15	53503	0.02421	0.49034	KRTAP5-1		
ENSG00000184602	16	11752270	11783015	84	16	41909	0.024224	0.49034	SNN		
ENSG00000198216	1	181372238	181787219	1145	140	46626	0.024167	0.49036	CACNA1E		
ENSG00000228368	7	116595900	116617526	32	12	54264	0.024141	0.49037	AC106873.4		
ENSG00000165138	9	101483611	101569247	196	21	41371	0.023953	0.49044	ANKS6		
ENSG00000117691	1	212596229	212629714	125	21	41812	0.023901	0.49047	NENF		
ENSG00000171858	20	60952172	60973576	108	18	43215	0.023786	0.49051	RPS21		
ENSG00000198780	5	74063399	74172776	257	21	44420	0.02339	0.49067	FAM169A		
ENSG00000163374	1	155619237	155668791	53	13	38208	0.023333	0.49069	YY1AP1		
ENSG00000142867	1	85721931	85752773	133	24	55355	0.023298	0.49071	BCL10		
ENSG00000169836	4	104497188	104650973	533	56	35684	0.023177	0.49075	TACR3		
ENSG00000049283	17	48599904	48631111	128	21	41240	0.023106	0.49078	EPN3		
ENSG00000150779	11	111945524	111967522	24	8	42426	0.023068	0.4908	TIMM8B		
ENSG00000123395	12	52453030	52481278	101	19	48924	0.022817	0.4909	C12orf44		
ENSG00000186862	10	102757440	102800890	104	33	42039	0.022452	0.49104	PDZD7		
ENSG00000176244	10	15109522	15140775	161	33	45223	0.022149	0.49116	ACBD7		
ENSG00000179750	22	39368352	39398809	51	11	46994	0.02195	0.49124	APOBEC3B		
ENSG00000135372	11	34117149	34179217	129	10	53802	0.021854	0.49128	NAT10		
ENSG00000197977	6	10970992	11054547	178	20	34085	0.02176	0.49132	ELOVL2		
ENSG00000166391	11	75418864	75454003	95	17	41992	0.021698	0.49134	MOGAT2		
ENSG00000170748	11	7100165	7122379	110	14	45146	0.021659	0.49136	RBMXL2		
ENSG00000112769	6	112419963	112586141	475	59	43139	0.021595	0.49139	LAMA4		
ENSG00000183723	16	66638653	66740610	242	17	31278	0.021574	0.49139	CMTM4		
ENSG00000118557	16	72136056	72220777	252	30	44041	0.021518	0.49142	PMFBP1		
ENSG00000110696	11	16624679	16788428	306	30	43236	0.021489	0.49143	C11orf58		
ENSG00000120756	3	142305229	142442506	367	35	44413	0.021442	0.49145	PLS1		
ENSG00000168515	11	61947688	61971011	109	12	26267	0.021124	0.49157	SCGB1D1		

ENSG00000132965	13	31299645	31348556	209	38	44360	0.020921	0.49165	ALOX5AP		
ENSG00000134864	13	101173810	101251782	152	17	33700	0.020904	0.49166	GGACT		
ENSG00000006283	17	48628429	48714835	235	37	35361	0.020813	0.4917	CACNA1G		
ENSG00000170836	17	58667544	58751849	35	19	52633	0.020705	0.49174	PPM1D		
ENSG00000166509	16	78046412	78110658	552	31	35654	0.020557	0.4918	CLEC3A		
ENSG00000212659	17	39411591	39432893	29	7	34538	0.020333	0.49189	KRTAP9-6		
ENSG00000215704	1	15782404	15827895	192	24	48168	0.020232	0.49193	CELA2B		
ENSG00000197020	19	21895568	21960430	276	22	49783	0.020202	0.49194	ZNF100		
ENSG00000072163	2	128385956	128449360	260	50	44964	0.019821	0.49209	LIMS2		
ENSG00000241595	17	39395939	39416904	72	7	36719	0.019829	0.49209	KRTAP9-4		
ENSG00000197608	19	52557719	52609018	216	19	38202	0.019806	0.4921	ZNF841		
ENSG00000214842	2	17681851	17709706	95	9	47272	0.019415	0.49225	RAD51AP2		
ENSG00000184838	5	119789973	120033027	1067	93	45376	0.019432	0.49225	PRR16		
ENSG00000264364	17	56150776	56182897	69	14	40132	0.018812	0.4925	DYNLL2		
ENSG00000221874	19	53421728	53476076	217	38	38900	0.018681	0.49255	ZNF321P		
ENSG00000162458	1	16073102	16123089	149	25	48223	0.018547	0.4926	FBLIM1		
ENSG00000141452	18	21073473	21121746	99	13	41504	0.017993	0.49282	C18orf8		
ENSG00000111046	12	81091277	81113253	48	10	37469	0.01774	0.49292	MYF6		
ENSG00000172995	3	35670437	35845988	397	49	49182	0.017654	0.49296	ARPP21		
ENSG00000189057	11	58864658	58904883	67	15	51527	0.017473	0.49303	FAM111B		
ENSG00000258830	12	57633392	57700267	79	14	45009	0.017383	0.49307	RP11-123K3.4		
ENSG00000196966	6	26215383	26235844	85	8	55055	0.017309	0.49309	HIST1H3E		
ENSG00000132388	17	4162554	4279923	199	16	41316	0.017212	0.49313	UBE2G1		
ENSG00000198589	4	151175594	151946879	1485	95	35473	0.017096	0.49318	LRBA		
ENSG00000166669	16	10410291	10587495	670	62	42843	0.017106	0.49318	ATF7IP2		
ENSG00000108010	10	131924663	131992785	314	33	45427	0.01696	0.49323	GLRX3		
ENSG00000254413	22	50997298	51031394	168	28	29574	0.016907	0.49326	CHKB-CPT1B		
ENSG00000187908	10	124310181	124413252	438	25	49414	0.016612	0.49337	DMBT1		
ENSG00000166446	16	80621803	80848226	916	109	38576	0.016626	0.49337	CDYL2		
ENSG00000166035	15	58692768	58871151	649	122	46206	0.016599	0.49338	LIPC		
ENSG00000075914	3	45006733	45087558	209	19	30107	0.016404	0.49346	EXOSC7		
ENSG00000176444	1	155222659	155258282	63	7	32145	0.016372	0.49347	CLK2		
ENSG00000120802	12	98899290	98954157	174	26	43596	0.016354	0.49348	TMPO		
ENSG00000168746	20	43070624	43103984	74	21	41274	0.016291	0.4935	C20orf62		
ENSG00000064835	3	87298554	87335737	97	16	48598	0.016111	0.49357	POU1F1		
ENSG00000272762	3	51984317	52018032	43	15	33440	0.016074	0.49359	RP11-155D18.14		

ENSG00000069764	16	14756405	14798526	32	11	55525	0.015907	0.49365	PLA2G10		
ENSG00000100197	22	42512501	42536908	94	14	31379	0.015801	0.4937	CYP2D6		
ENSG00000169189	16	27226312	27290115	166	22	42316	0.015415	0.49385	NSMCE1		
ENSG00000006788	17	10191401	10286447	334	49	41824	0.015422	0.49385	MYH13		
ENSG00000005810	13	77608792	77911185	657	59	42314	0.015363	0.49387	MYCBP2		
ENSG00000261611	16	71471503	71533214	125	21	39051	0.01509	0.49398	AC010547.9		
ENSG00000122711	9	33208363	33258565	179	18	33817	0.014978	0.49402	SPINK4		
ENSG00000101353	20	35719629	35817991	289	26	50473	0.014712	0.49413	MROH8		
ENSG00000076258	1	171273347	171321223	101	17	39450	0.014531	0.4942	FMO4		
ENSG00000004809	6	110735890	110807844	365	56	42944	0.01447	0.49423	SLC22A16		
ENSG00000088305	20	31340191	31407162	220	21	33074	0.014413	0.49425	DNMT3B		
ENSG00000143450	1	151725445	151753808	81	11	46516	0.014353	0.49427	OAZ3		
ENSG00000183735	12	64835660	64905888	163	24	46053	0.014336	0.49428	TBK1		
ENSG00000064886	1	111733393	111796062	239	33	48570	0.01418	0.49434	CHI3L2		
ENSG00000257390	12	56141059	56231330	100	25	40918	0.014178	0.49434	RP11-762I7.5		
ENSG00000185176	2	241605835	241632323	105	17	50210	0.014079	0.49438	AQP12B		
ENSG00000132481	17	73860242	73884656	80	12	37491	0.014072	0.49439	TRIM47		
ENSG00000100304	22	43552628	43593139	231	37	46841	0.013951	0.49443	TTLL12		
ENSG00000010270	7	38207824	38280272	254	28	54915	0.013812	0.49449	STARD3NL		
ENSG00000157211	1	54588747	54629443	170	33	46433	0.013565	0.49459	CDCP2		
ENSG00000153201	2	109325937	109412267	161	12	45116	0.013499	0.49461	RANBP2		
ENSG00000116985	1	40212854	40264533	250	31	50753	0.01306	0.49479	BMP8B		
ENSG00000197721	1	207808458	207921761	515	43	42335	0.012976	0.49482	CR1L		
ENSG00000188816	10	124897638	124920188	41	9	48927	0.012694	0.49494	HMX2		
ENSG00000127928	7	93210885	93550577	1040	95	39183	0.012515	0.49501	GNGT1		
ENSG00000196277	3	6801688	7793215	3584	309	42870	0.012306	0.49509	GRM7		
ENSG00000066926	18	55205515	55264004	204	45	49502	0.012304	0.49509	FECH		
ENSG00000167281	17	77075427	77623550	1996	329	45461	0.012184	0.49514	RBFOX3		
ENSG00000165282	9	35078685	35106591	54	11	41986	0.012157	0.49515	PIGO		
ENSG00000169919	7	65415671	65457301	100	13	36610	0.012034	0.4952	GUSB		
ENSG00000084444	12	13187218	13305455	248	33	34513	0.011886	0.49526	KIAA1467		
ENSG00000166866	12	57412301	57454982	91	11	50601	0.011851	0.49527	MYO1A		
ENSG00000167094	9	130468345	130503879	71	12	46878	0.011753	0.49531	TTC16		
ENSG00000167994	11	61654773	61697741	107	25	34594	0.011763	0.49531	RAB31L1		
ENSG00000120094	17	46595888	46618359	67	12	39268	0.011758	0.49531	HOXB1		
ENSG00000163736	4	74842755	74863914	55	9	30639	0.011696	0.49533	PPBP		

ENSG00000133063	1	203171955	203252769	254	39	38630	0.011675	0.49534	CHIT1		
ENSG00000156564	6	40349325	40565204	911	95	45163	0.011496	0.49541	LRFN2		
ENSG00000196642	9	139692374	139745639	82	13	50492	0.011334	0.49548	RABL6		
ENSG00000167656	8	143856296	143878008	124	12	43381	0.011282	0.4955	LY6D		
ENSG00000196247	7	64116511	64181404	200	26	48987	0.01121	0.49553	ZNF107		
ENSG00000117133	1	84934942	84973473	190	25	41870	0.010983	0.49562	RPF1		
ENSG00000215186	15	72937079	72968735	6	3	23100	0.01099	0.49562	GOLGA6B		
ENSG00000228672	5	138717635	138740885	29	5	26258	0.010903	0.49565	PROB1		
ENSG00000057704	12	94950900	95054338	435	76	44996	0.010764	0.49571	TMCC3		
ENSG00000166889	11	59394189	59446453	83	13	34888	0.010424	0.49584	PATL1		
ENSG00000166986	12	57859228	57921352	113	15	43303	0.010104	0.49597	MARS		
ENSG00000204147	10	52489078	52586255	257	20	31084	0.010079	0.49598	ASAH2B		
ENSG00000110171	11	6459843	6505689	88	20	49014	0.0099336	0.49604	TRIM3		
ENSG00000133475	22	21552262	21591926	8	6	39006	0.0098798	0.49606	GGT2		
ENSG00000106799	9	101856320	101926474	150	19	54071	0.0098281	0.49608	TGFBF1		
ENSG00000110958	12	57047127	57092159	125	21	44901	0.0098368	0.49608	PTGES3		
ENSG00000180257	19	53420388	53476164	224	40	38703	0.0098291	0.49608	ZNF816		
ENSG00000168329	3	39294985	39333226	158	35	48396	0.0097304	0.49612	CX3CR1		
ENSG00000188076	11	183080	204573	44	13	41976	0.0097362	0.49612	SCGB1C1		
ENSG00000185404	2	231181899	231278447	444	45	44002	0.009631	0.49616	SP140L		
ENSG00000129968	19	1866809	1895546	63	7	44997	0.0096181	0.49616	ABHD17A		
ENSG00000188643	1	153569362	153595621	63	17	40802	0.0095423	0.49619	S100A16		
ENSG00000163378	3	69014365	69073112	175	21	43222	0.0092142	0.49632	EOGT		
ENSG00000251184	9	131693757	131729300	53	7	49678	0.0091454	0.49635	RP11-101E3.5		
ENSG00000185942	8	63151150	63922211	2611	156	44998	0.0090701	0.49638	NKAIN3		
ENSG00000099364	16	30924376	30970104	52	7	22160	0.0089759	0.49642	FBXL19		
ENSG00000147650	8	105491459	105611252	240	26	45683	0.0084756	0.49662	LRP12		
ENSG00000162065	16	2515147	2565735	43	27	45346	0.0083207	0.49668	TBC1D24		
ENSG00000150776	11	111934810	111965874	42	12	34168	0.0081074	0.49677	C11orf57		
ENSG00000184108	4	189050573	189078897	200	34	32489	0.0080631	0.49678	TRIML1		
ENSG00000137962	1	94604544	94750624	305	43	51181	0.0080279	0.4968	ARHGAP29		
ENSG00000176714	2	27838506	27861879	63	12	49040	0.0079957	0.49681	CCDC121		
ENSG00000249209	21	34946993	35294635	711	118	47442	0.0079881	0.49681	AP000304.12		
ENSG00000204176	10	46945444	46981400	6	4	27763	0.0079479	0.49683	SYT15		
ENSG00000138293	10	51555108	51600734	49	14	47506	0.0078768	0.49686	NCOA4		
ENSG00000100867	14	24089324	24124848	50	24	45589	0.0078331	0.49688	DHRS2		

ENSG00000143674	1	233453514	233530894	334	31	54087	0.0076733	0.49694	MLK4		
ENSG00000175161	3	84998132	86133579	3365	116	35444	0.0076137	0.49696	CADM2		
ENSG00000260027	17	46674594	46720934	156	29	34606	0.0075808	0.49698	HOXB7		
ENSG00000141644	18	47783252	47818144	74	14	53992	0.0072292	0.49712	MBD1		
ENSG00000110955	12	57021959	57049798	57	12	45747	0.0070715	0.49718	ATP5B		
ENSG00000180228	2	179286141	179326239	65	12	35632	0.0069152	0.49724	PRKRA		
ENSG00000109189	4	53447138	53535502	114	10	56176	0.006718	0.49732	USP46		
ENSG00000255346	15	69212864	69365083	253	28	38817	0.0065862	0.49737	NOX5		
ENSG00000088053	19	55515073	55559632	291	33	47994	0.0062059	0.49752	GP6		
ENSG00000146350	6	121390640	121665891	1230	44	40971	0.0060638	0.49758	TBC1D32		
ENSG00000177181	1	42836466	42898249	215	15	52744	0.0060189	0.4976	RIMKLA		
ENSG00000174343	4	40327346	40367234	224	22	47048	0.0053449	0.49787	CHRNA9		
ENSG00000082898	2	61694984	61775761	179	18	52044	0.0053222	0.49788	XPO1		
ENSG00000034152	17	21177984	21228552	76	18	44747	0.0052343	0.49791	MAP2K3		
ENSG00000181631	3	151034100	151057336	82	18	55457	0.005211	0.49792	P2RY13		
ENSG00000242019	19	55225984	55258003	47	17	36659	0.0050973	0.49797	KIR3DL3		
ENSG00000268500	19	52105344	52160142	185	46	44502	0.0049915	0.49801	SIGLEC5		
ENSG00000224132	2	238155734	238176319	33	7	37137	0.0046651	0.49814	AC112715.2		
ENSG00000153786	16	84997787	85055141	313	34	39869	0.0044114	0.49824	ZDHHC7		
ENSG00000215131	16	3533484	3555480	102	19	38869	0.0043499	0.49826	C16orf90		
ENSG00000151623	4	148989913	149375850	1117	122	47134	0.0043064	0.49828	NR3C2		
ENSG00000175189	12	57818543	57854611	69	14	41509	0.0039238	0.49843	INHBC		
ENSG00000111231	12	110880289	110917073	106	14	34278	0.0038127	0.49848	GPN3		
ENSG00000159685	3	126413063	126689249	809	62	48934	0.0036837	0.49853	CHCHD6		
ENSG00000269417	2	85112209	85132345	71	4	31767	0.0035972	0.49856	AC022210.1		
ENSG00000110321	11	10808597	10840657	78	18	47322	0.0032128	0.49872	EIF4G2		
ENSG00000141503	17	4726683	4811356	250	29	43165	0.0031401	0.49875	MINK1		
ENSG00000159713	16	67413712	67437438	36	10	44032	0.0030242	0.49879	TPPP3		
ENSG00000183643	15	93004884	93054347	148	36	47831	0.0029698	0.49882	C15orf32		
ENSG00000012983	14	50875219	51037844	307	38	45293	0.002649	0.49894	MAP4K5		
ENSG00000269064	1	179433716	179467805	301	19	56141	0.0025295	0.49899	AL160286.1		
ENSG00000106344	7	127927738	127993962	162	28	45928	0.0024425	0.49903	RBM28		
ENSG00000103353	16	23558392	23595710	118	14	39202	0.0024251	0.49903	UBFD1		
ENSG00000112237	6	99980256	100026849	171	22	44264	0.0020875	0.49917	CCNC		
ENSG00000160791	3	46401633	46427697	84	14	33222	0.0017581	0.4993	CCR5		
ENSG00000180914	3	8782094	8821314	187	47	43575	0.0016032	0.49936	OXTR		

ENSG00000170122	9	106237	128417	18	3	37871	0.0016092	0.49936	FOXD4		
ENSG00000137312	6	30685486	30720510	195	16	23983	0.0015179	0.49939	FLOT1		
ENSG00000116212	1	54401750	54443841	80	15	36717	0.0014439	0.49942	LRRC42		
ENSG00000198400	1	156775432	156861642	195	42	43680	0.001399	0.49944	NTRK1		
ENSG00000108443	17	57960447	58037925	152	18	42397	0.0013262	0.49947	RPS6KB1		
ENSG00000242180	11	5353744	5374809	150	18	40528	0.0012686	0.49949	OR51B5		
ENSG00000153485	14	93641296	93663434	64	18	49932	0.0012312	0.49951	TMEM251		
ENSG00000248801	8	69205703	69253726	95	20	41857	0.0011855	0.49953	RP11-664D7.4		
ENSG00000269494	6	82252307	82272537	51	10	55011	0.0010907	0.49956	AL359693.1		
ENSG00000160654	11	118205059	118235876	76	12	36446	0.0010842	0.49957	CD3G		
ENSG00000187554	1	223272748	223326624	202	17	36936	0.0009799	0.49961	TLR5		
ENSG00000197044	19	11867815	11904893	132	13	48311	0.00098796	0.49961	ZNF441		
ENSG00000124177	20	40020741	40257133	583	43	41395	0.00095359	0.49962	CHD6		
ENSG00000112146	6	52906789	52975671	112	18	39732	0.00088146	0.49965	FBXO9		
ENSG00000106565	7	150478373	150508448	135	34	49554	0.00087464	0.49965	TMEM176B		
ENSG00000127578	16	669239	694116	71	12	51893	0.00073047	0.49971	WFIKN1		
ENSG00000168137	3	9429299	9530924	218	28	45120	0.00070507	0.49972	SETD5		
ENSG00000168872	16	70370732	70417286	64	23	41207	0.00042304	0.49983	DDX19A		
ENSG00000163864	3	139269022	139406859	356	58	40696	0.00039323	0.49984	NMNAT3		
ENSG00000053702	12	2924514	2954710	78	9	25770	0.00019917	0.49992	NRIP2		
ENSG00000105501	19	52104781	52160151	187	46	44164	-0.0001999	0.50008	SIGLEC5		
ENSG00000266997	18	47312163	47373993	171	21	44091	-0.00042038	0.50017	RP11-886H22.1		
ENSG00000001084	6	53352139	53491768	491	86	46594	-0.00048387	0.50019	GCLC		
ENSG00000221829	9	35063832	35090013	38	10	41365	-0.00075841	0.5003	FANCG		
ENSG00000215397	20	632240	666823	93	22	44621	-0.00074859	0.5003	SCRT2		
ENSG00000108523	17	4833303	4858517	63	18	39829	-0.00077929	0.50031	RNF167		
ENSG00000214711	2	31385924	31466724	489	46	37532	-0.00081277	0.50032	CAPN14		
ENSG00000156970	15	40443224	40523337	151	17	38930	-0.00080553	0.50032	BUB1B		
ENSG00000115875	2	38960741	38988636	49	11	43294	-0.00083405	0.50033	SRSF7		
ENSG00000257008	17	72353546	72378761	54	18	48929	-0.0011248	0.50045	GPR142		
ENSG00000155034	7	5460966	5563429	457	65	50610	-0.0015775	0.50063	FBXL18		
ENSG00000184560	17	7318934	7340887	48	15	41842	-0.0016648	0.50066	C17orf74		
ENSG00000183784	9	203108	225893	142	20	53174	-0.0016922	0.50068	C9orf66		
ENSG00000170178	2	176954458	176976408	54	12	38552	-0.0017353	0.50069	HOXD12		
ENSG00000164299	5	79605444	79627661	110	16	37340	-0.0017528	0.5007	SPZ1		
ENSG00000167461	19	16212439	16255044	146	16	49006	-0.0022311	0.50089	RAB8A		

ENSG00000070526	17	74610843	74649920	168	21	40445	-0.0027503	0.5011	ST6GALNAC1		
ENSG00000267918	14	101285066	101305537	89	22	49800	-0.0028832	0.50115	AL117190.2		
ENSG00000087460	20	57404773	57496247	250	57	43302	-0.0030371	0.50121	GNAS		
ENSG00000167360	11	5433341	5454436	175	19	39262	-0.0036712	0.50146	OR51Q1		
ENSG00000197532	1	158506918	158527895	97	12	52505	-0.0036871	0.50147	OR6Y1		
ENSG00000135736	16	57536090	57580511	185	33	45520	-0.0038025	0.50152	CCDC102A		
ENSG00000120156	9	27099139	27240173	862	112	45396	-0.0039889	0.50159	TEK		
ENSG00000132507	17	7200318	7225774	81	16	50505	-0.0042181	0.50168	EIF5A		
ENSG00000188674	2	209020067	209064797	203	35	40199	-0.0049511	0.50198	C2orf80		
ENSG00000157540	21	38728092	38899753	505	41	54701	-0.0050044	0.502	DYRK1A		
ENSG00000138459	3	112270556	112314424	135	14	50417	-0.0050391	0.50201	SLC35A5		
ENSG00000125848	20	14293634	14328262	91	20	46521	-0.0051232	0.50204	FLRT3		
ENSG00000162643	1	85454830	85608821	529	61	48692	-0.0051476	0.50205	WDR63		
ENSG00000268427	22	50704103	50724350	98	24	48282	-0.0055573	0.50222	AL022328.1		
ENSG00000164794	8	110965874	110998076	68	13	35231	-0.0055997	0.50223	KCNV1		
ENSG00000124383	2	71347444	71387231	157	22	45461	-0.0056045	0.50224	MPHOSPH10		
ENSG00000100060	22	37855101	37892439	58	12	44635	-0.0058004	0.50231	MFNG		
ENSG00000125046	3	8651086	8796726	530	130	44430	-0.005806	0.50232	SSUH2		
ENSG00000168264	1	234730015	234755271	95	22	42457	-0.0058327	0.50233	IRF2BP2		
ENSG00000104714	8	554746	698106	851	82	45860	-0.0058845	0.50235	ERICH1		
ENSG00000122548	7	26562740	26588407	147	19	46806	-0.006109	0.50244	KIAA0087		
ENSG00000165669	10	120055401	120111840	99	28	48109	-0.0061414	0.50245	FAM204A		
ENSG00000104067	15	29981571	30271068	804	102	49386	-0.0062145	0.50248	TJP1		
ENSG00000183426	16	15006659	15055915	17	8	43332	-0.0064229	0.50256	NPIPA1		
ENSG00000258947	16	89977800	90015169	186	30	29588	-0.0064354	0.50257	TUBB3		
ENSG00000144015	2	96247766	96275526	21	13	44126	-0.0065	0.50259	TRIM43		
ENSG00000177301	1	111126202	111184096	148	28	33874	-0.0068642	0.50274	KCNA2		
ENSG00000131503	5	139771399	139939163	182	27	50142	-0.0068753	0.50274	ANKHD1		
ENSG00000254996	5	139771493	139939154	182	27	50142	-0.0068753	0.50274	ANKHD1-EIF4EBP3		
ENSG00000121690	11	33027410	33065128	191	11	53671	-0.0073508	0.50293	DEPDC7		
ENSG00000134249	1	120426156	120449118	46	12	32645	-0.0074048	0.50295	ADAM30		
ENSG00000167380	19	44659226	44692534	35	11	43107	-0.0074226	0.50296	ZNF226		
ENSG00000244362	21	31923194	31943633	66	7	54828	-0.0076076	0.50303	KRTAP19-7		
ENSG00000140740	16	21953981	22004981	51	14	36818	-0.0078062	0.50311	UQCRC2		
ENSG00000168502	18	8695659	8842776	539	101	45543	-0.0078324	0.50312	SOGA2		
ENSG00000117115	1	17383256	17455948	347	27	49573	-0.007863	0.50314	PADI2		

ENSG00000118518	6	127577755	127619712	83	13	48922	-0.0078902	0.50315	RNF146		
ENSG00000135749	1	233109181	233441459	1273	125	45776	-0.008112	0.50324	PCNXL2		
ENSG00000136694	2	113753038	113775621	46	10	39775	-0.0088664	0.50354	IL36A		
ENSG00000221978	1	1311091	1344708	76	10	33898	-0.00891	0.50355	CCNL2		
ENSG00000145349	4	114362188	114693083	906	99	43653	-0.0089259	0.50356	CAMK2D		
ENSG00000138075	2	44029611	44076004	181	24	37060	-0.0090108	0.50359	ABCG5		
ENSG00000226490	8	142514738	142538837	118	22	34707	-0.0090632	0.50362	AC138647.1		
ENSG00000253459	14	50054193	50075882	74	9	47618	-0.0090771	0.50362	AL139099.1		
ENSG00000103343	16	3441235	3469370	70	14	51170	-0.0091182	0.50364	ZNF174		
ENSG00000237247	19	7020589	7043022	6	3	38165	-0.0092244	0.50368	MBD3L5		
ENSG00000254995	20	57216490	57300466	261	37	43843	-0.0092931	0.50371	STX16-NPEPL1		
ENSG00000182600	2	233711980	233753418	152	20	49038	-0.0093415	0.50373	C2orf82		
ENSG00000161980	16	86407	113628	109	15	48648	-0.0093766	0.50374	POLR3K		
ENSG00000090989	4	56709782	56781200	208	31	50129	-0.0095376	0.5038	EXOC1		
ENSG00000157680	7	137055783	137541838	906	117	36922	-0.0095236	0.5038	DGKI		
ENSG00000112394	6	111398781	111562397	340	37	46659	-0.010053	0.50401	SLC16A10		
ENSG00000268550	19	14824747	14845121	84	17	50085	-0.010049	0.50401	AC090427.1		
ENSG00000159164	1	149864870	149899434	72	11	46744	-0.010119	0.50404	SV2A		
ENSG00000124839	2	238472965	238520257	311	42	35466	-0.010209	0.50407	RAB17		
ENSG00000124181	20	39755600	39821629	95	20	46857	-0.010252	0.50409	PLCG1		
ENSG00000166265	21	27828528	27955603	390	83	44253	-0.01033	0.50412	CYYR1		
ENSG00000144959	3	172338039	172439008	322	60	45943	-0.010398	0.50415	NCEH1		
ENSG00000134013	8	23144702	23292841	867	89	41877	-0.010474	0.50418	LOXL2		
ENSG00000173480	19	58401664	58437978	108	15	48001	-0.010476	0.50418	ZNF417		
ENSG00000182389	2	152679290	152965593	611	67	43693	-0.01089	0.50434	CACNB4		
ENSG00000176246	14	20518204	20539142	149	15	41225	-0.010896	0.50435	OR4L1		
ENSG00000121848	1	145601036	145706218	88	12	44259	-0.010925	0.50436	RNF115		
ENSG00000176904	11	4870886	4891794	62	11	43464	-0.011137	0.50444	OR51H1P		
ENSG00000184702	22	19691987	19722295	42	18	47133	-0.011172	0.50446	Sep-05		
ENSG00000100813	14	23517773	23574823	165	27	49243	-0.011462	0.50457	ACIN1		
ENSG00000261884	16	67953517	67979920	23	6	39503	-0.011566	0.50461	CTC-479C5.12		
ENSG00000152749	13	95244157	95296899	123	15	42093	-0.011662	0.50465	GPR180		
ENSG00000129277	17	34420983	34443014	108	12	46595	-0.011873	0.50474	CCL4		
ENSG00000197629	11	58965983	58990424	65	11	53135	-0.01262	0.50503	MPEG1		
ENSG00000125650	19	6365159	6389069	101	14	41654	-0.012626	0.50504	PSPN		
ENSG00000175471	5	94029446	94630279	1666	202	48924	-0.012677	0.50506	MCTP1		

ENSG00000141552	17	79838666	79868867	29	16	50628	-0.013197	0.50526	ANAPC11		
ENSG00000138483	3	107086188	107107481	56	14	34404	-0.013314	0.50531	CCDC54		
ENSG00000205336	16	57634564	57708944	340	82	44959	-0.013465	0.50537	GPR56		
ENSG00000130714	9	134368289	134409193	127	11	30129	-0.013733	0.50548	POMT1		
ENSG00000120733	5	137678285	137782717	267	28	44398	-0.013771	0.50549	KDM3B		
ENSG00000171608	1	9701790	9799172	178	39	36447	-0.013828	0.50552	PIK3CD		
ENSG00000089053	12	121736048	121847699	302	43	35759	-0.014125	0.50563	ANAPC5		
ENSG00000106683	7	73487263	73546855	126	18	40345	-0.014592	0.50582	LIMK1		
ENSG00000108557	17	17574787	17724767	227	39	38043	-0.014845	0.50592	RAI1		
ENSG00000161609	19	49881475	49931251	164	15	53390	-0.015092	0.50602	CCDC155		
ENSG00000133460	22	24188890	24238496	182	37	49209	-0.015082	0.50602	SLC2A11		
ENSG00000006638	19	3584504	3616838	138	26	41398	-0.015235	0.50608	TBXA2R		
ENSG00000135899	2	231022009	231100444	373	42	49253	-0.015263	0.50609	SP110		
ENSG00000268107	19	57989086	58026749	224	11	52387	-0.015274	0.50609	AC003005.4		
ENSG00000140557	15	92927058	93021958	293	52	41471	-0.015331	0.50612	ST8SIA2		
ENSG00000131634	16	1568689	1615581	180	21	40781	-0.015435	0.50616	TMEM204		
ENSG00000198019	1	120916979	120945937	10	4	43446	-0.015461	0.50617	FCGR1B		
ENSG00000096746	10	70080931	70112948	87	14	39463	-0.016222	0.50647	HNRNPH3		
ENSG00000262874	19	51881543	51903828	81	9	27677	-0.016221	0.50647	C19orf84		
ENSG00000165061	8	40378109	40765352	1339	137	44539	-0.01652	0.50659	ZMAT4		
ENSG00000116957	1	235520675	235622283	325	31	39189	-0.016542	0.5066	TBCE		
ENSG00000044012	1	42609092	42631495	55	13	45116	-0.016781	0.50669	GUCA2B		
ENSG00000163872	3	183405606	183540413	314	25	50833	-0.01685	0.50672	YEATS2		
ENSG00000147853	9	4701155	4752043	251	33	36865	-0.017012	0.50679	AK3		
ENSG00000267534	19	10324520	10351948	61	16	47263	-0.017074	0.50681	S1PR2		
ENSG00000125835	20	2432280	2461499	64	12	47287	-0.017379	0.50693	SNRPB		
ENSG00000135953	2	103322299	103363347	90	14	47791	-0.018155	0.50724	MFSD9		
ENSG00000169504	1	25061848	25180815	160	20	44403	-0.018377	0.50733	CLIC4		
ENSG00000027847	5	177017101	177047348	105	19	43340	-0.018397	0.50734	B4GALT7		
ENSG00000269067	19	23148270	23195978	158	8	29615	-0.019025	0.50759	ZNF728		
ENSG00000113719	5	172251278	172389688	445	91	46782	-0.019113	0.50762	ERGIC1		
ENSG00000251258	6	112658532	112682498	65	13	45172	-0.019182	0.50765	RFPL4B		
ENSG00000243943	2	27795897	27868041	160	21	48505	-0.019353	0.50772	ZNF512		
ENSG00000158458	5	139216364	139432884	410	59	42031	-0.019365	0.50773	NRG2		
ENSG00000107829	10	103360423	103465052	166	20	53620	-0.01944	0.50775	FBXW4		
ENSG00000103184	16	4998318	5079159	404	47	41254	-0.019561	0.5078	SEC14L5		

ENSG00000004139	17	26681378	26738065	112	13	35725	-0.020048	0.508	SARM1		
ENSG00000128563	7	101994319	102077123	212	22	54292	-0.020128	0.50803	PRKRIP1		
ENSG00000159263	21	38061433	38132218	192	62	47084	-0.020402	0.50814	SIM2		
ENSG00000167767	12	52552780	52595784	190	32	48654	-0.020501	0.50818	KRT80		
ENSG00000206384	3	130269178	130406999	255	42	38083	-0.020685	0.50825	COL6A6		
ENSG00000135424	12	56068352	56119827	98	16	30742	-0.020832	0.50831	ITGA7		
ENSG00000131471	17	40993201	41020147	20	13	53129	-0.020893	0.50833	AOC3		
ENSG00000164185	5	121455208	121525312	117	31	39196	-0.021514	0.50858	ZNF474		
ENSG00000142765	1	27658513	27690421	96	26	42248	-0.021554	0.5086	SYTL1		
ENSG00000147408	8	19251672	19625540	1649	167	50132	-0.02172	0.50866	CSGALNACT1		
ENSG00000140543	15	89044790	89099906	184	16	44793	-0.021741	0.50867	DET1		
ENSG00000184814	3	138727873	138749768	43	10	42423	-0.022123	0.50882	PRR23B		
ENSG00000122378	10	82157585	82202753	174	24	34704	-0.02212	0.50882	FAM213A		
ENSG00000136891	9	103054359	103125221	185	16	35756	-0.022338	0.50891	TEX10		
ENSG00000026652	6	161541011	161705093	537	90	44752	-0.022662	0.50904	AGPAT4		
ENSG00000168309	3	58539844	58623337	329	53	41019	-0.022675	0.50905	FAM107A		
ENSG00000140471	15	101089574	101153435	347	35	49331	-0.022816	0.5091	LINS		
ENSG00000136099	13	53408109	53432775	64	15	48977	-0.0229	0.50913	PCDH8		
ENSG00000206474	6	29397083	29418731	136	10	21712	-0.023059	0.5092	OR10C1		
ENSG00000135469	12	56650642	56674750	35	6	55115	-0.023059	0.5092	COQ10A		
ENSG00000267970	7	48877362	48901221	123	21	53046	-0.023185	0.50925	AC004899.1		
ENSG00000204564	6	30604816	30630987	51	13	29686	-0.023282	0.50929	C6orf136		
ENSG00000090266	7	140380577	140432590	99	14	33256	-0.023478	0.50937	NDUFB2		
ENSG00000139233	12	66506842	66534548	52	10	44705	-0.023502	0.50938	LLPH		
ENSG00000143921	2	44056103	44115605	398	24	46542	-0.023592	0.50941	ABCG8		
ENSG00000154265	17	67230452	67333385	259	32	50978	-0.023885	0.50953	ABCA5		
ENSG00000100359	22	40756595	40816293	100	16	48684	-0.024088	0.50961	SGSM3		
ENSG00000117280	1	205727114	205754588	103	16	32643	-0.024598	0.50981	RAB7L1		
ENSG00000108100	10	35525953	35870852	609	48	49295	-0.024597	0.50981	CCNY		
ENSG00000268412	2	26241074	26261481	51	13	52289	-0.024679	0.50984	AC013449.1		
ENSG00000068697	2	20222411	20261789	137	21	33027	-0.025114	0.51002	LAPTM4A		
ENSG00000143554	1	153736830	153762633	52	16	37871	-0.025594	0.51021	SLC27A3		
ENSG00000110848	12	9895082	9923497	151	18	49387	-0.025606	0.51021	CD69		
ENSG00000161677	19	50999255	51024610	73	18	41957	-0.025877	0.51032	JOSD2		
ENSG00000161573	17	34293529	34318532	110	21	43146	-0.025996	0.51037	CCL16		
ENSG00000161103	22	18824324	18858562	8	4	42823	-0.025992	0.51037	AC008132.13		

ENSG00000173041	7	63970262	64033484	254	16	51570	-0.026054	0.51039	ZNF680		
ENSG00000091844	6	153315594	153462384	525	40	40208	-0.026063	0.5104	RGS17		
ENSG00000188295	1	247253264	247277674	120	20	40205	-0.026435	0.51054	ZNF669		
ENSG00000140279	15	45374848	45416542	73	16	41013	-0.026472	0.51056	DUOX2		
ENSG00000065621	10	106018631	106074703	96	20	44822	-0.026526	0.51058	GSTO2		
ENSG00000169214	1	247865045	247886105	70	14	42310	-0.026635	0.51062	OR6F1		
ENSG00000105370	19	51873163	51901214	95	12	28420	-0.026631	0.51062	LIM2		
ENSG00000162736	1	160303062	160338742	93	21	33458	-0.026678	0.51064	NCSTN		
ENSG00000172137	16	71382616	71434341	173	25	45814	-0.026694	0.51065	CALB2		
ENSG00000158516	7	129896667	129939638	104	19	42365	-0.026735	0.51066	CPA2		
ENSG00000047410	1	186270784	186354825	218	21	54649	-0.026972	0.51076	TPR		
ENSG00000205707	12	25338150	25372579	122	14	46086	-0.027059	0.51079	LYRM5		
ENSG00000168385	2	242244515	242303442	177	25	51055	-0.027086	0.5108	Sep-02		
ENSG00000244045	17	26674604	26718716	88	10	33705	-0.027098	0.51081	TMEM199		
ENSG00000184524	11	777104	800123	54	14	45528	-0.027473	0.51096	CEND1		
ENSG00000141367	17	57687219	57783671	162	15	36630	-0.027905	0.51113	CLTC		
ENSG00000154118	16	87625441	87741762	597	100	48272	-0.027976	0.51116	JPH3		
ENSG00000117410	1	44430159	44453967	35	9	34560	-0.028019	0.51118	ATP6V0B		
ENSG00000267041	19	37195285	37273727	209	22	50660	-0.028103	0.51121	ZNF850		
ENSG00000120278	6	150910999	151174799	1121	121	47102	-0.028371	0.51132	PLEKHG1		
ENSG00000175213	11	46712368	46737462	39	10	40051	-0.028376	0.51132	ZNF408		
ENSG00000175866	17	78998948	79101232	490	85	48682	-0.028591	0.5114	BAIAP2		
ENSG00000142102	11	279135	306107	66	24	36197	-0.028611	0.51141	ATHL1		
ENSG00000111110	12	63027762	63338817	1076	144	42844	-0.029031	0.51158	PPM1H		
ENSG00000240720	7	91731473	91818845	166	12	49245	-0.029171	0.51164	LRRD1		
ENSG00000155755	2	202474907	202518293	94	19	46926	-0.029243	0.51166	TMEM237		
ENSG00000086061	9	33015209	33049905	173	14	51448	-0.029386	0.51172	DNAJA1		
ENSG00000130950	9	97067605	97100926	90	24	41849	-0.029493	0.51176	NUTM2F		
ENSG00000126091	1	44161495	44406831	605	45	38238	-0.029576	0.5118	ST3GAL3		
ENSG00000161326	17	35839937	35883603	124	20	48240	-0.029673	0.51184	DUSP14		
ENSG00000154727	21	27096881	27154771	123	18	42785	-0.029984	0.51196	GABPA		
ENSG00000118245	2	217714181	217734787	75	16	43989	-0.030139	0.51202	TNP1		
ENSG00000164823	8	90904087	90950116	101	16	38700	-0.030297	0.51209	OSGIN2		
ENSG00000188042	2	235391685	235415697	75	26	49690	-0.03037	0.51211	ARL4C		
ENSG00000204624	1	11529223	11607641	222	24	36817	-0.030457	0.51215	PTCHD2		
ENSG00000178209	8	144979321	145060902	219	20	38874	-0.030521	0.51217	PLEC		

ENSG00000128607	7	129700350	129785560	243	31	38266	-0.030747	0.51226	KLHDC10		
ENSG00000269746	16	70229303	70249683	31	14	43317	-0.030937	0.51234	AC009060.1		
ENSG00000145675	5	67501548	67607649	312	55	43628	-0.031197	0.51244	PIK3R1		
ENSG00000119139	9	71726209	71880124	662	59	51810	-0.031304	0.51249	TJP2		
ENSG00000177684	6	49917962	49941818	68	11	50832	-0.031333	0.5125	DEFB114		
ENSG00000145216	4	54233810	55171439	3028	225	43750	-0.031641	0.51262	FIP1L1		
ENSG00000007520	16	1389241	1411912	74	22	45632	-0.031628	0.51262	TSR3		
ENSG00000108528	17	4830425	4853546	60	17	39208	-0.031902	0.51273	SLC25A11		
ENSG00000100362	22	37186728	37225523	148	24	40723	-0.031945	0.51274	PVALB		
ENSG00000174996	11	66014765	66045331	59	14	55090	-0.032149	0.51282	KLC2		
ENSG00000221859	21	46047273	46068370	98	13	48308	-0.032252	0.51286	KRTAP10-10		
ENSG00000189241	6	116587741	116611066	77	10	31981	-0.032588	0.513	TSPYL1		
ENSG00000008394	12	16490076	16772193	603	89	45055	-0.032833	0.5131	MGST1		
ENSG00000049246	1	7834380	7915237	352	42	47933	-0.03335	0.5133	PER3		
ENSG00000167657	19	3948451	3981121	84	25	51040	-0.033474	0.51335	DAPK3		
ENSG00000196154	1	153506089	153532612	60	7	29775	-0.033548	0.51338	S100A4		
ENSG00000137968	1	75657816	76086801	1258	77	45728	-0.033562	0.51339	SLC44A5		
ENSG00000189127	5	79842574	79876307	110	25	42045	-0.033562	0.51339	ANKRD34B		
ENSG00000136167	13	46690055	46796006	318	55	37940	-0.033617	0.51341	LCP1		
ENSG00000103546	16	55679516	55750104	243	47	47027	-0.033758	0.51346	SLC6A2		
ENSG00000172183	15	89169384	89209714	165	30	38309	-0.033772	0.51347	ISG20		
ENSG00000064393	7	139236316	139487577	485	76	41783	-0.034138	0.51362	HIPK2		
ENSG00000162817	1	220853187	220882499	143	16	47273	-0.034414	0.51373	C1orf115		
ENSG00000138892	22	50443552	50505364	304	52	51674	-0.034441	0.51374	TTL8		
ENSG00000104129	15	41050067	41109675	134	20	40242	-0.034763	0.51387	DNAJC17		
ENSG00000078070	3	182723006	182843863	277	27	33169	-0.034886	0.51391	MCCC1		
ENSG00000152661	6	121746838	121780873	141	23	45158	-0.035073	0.51399	GJA1		
ENSG00000095587	10	98114363	98283675	548	84	50539	-0.035147	0.51402	TLL2		
ENSG00000149257	11	75263101	75293828	90	22	37332	-0.03514	0.51402	SERPINH1		
ENSG00000259112	11	77718017	77800911	344	33	50692	-0.035173	0.51403	NDUFC2-KCTD14		
ENSG00000119669	14	77480888	77505034	80	18	43084	-0.035258	0.51406	IRF2BPL		
ENSG00000115526	2	100998327	101044118	101	17	35465	-0.035323	0.51409	CHST10		
ENSG00000232774	14	62027258	62135414	283	49	40681	-0.03532	0.51409	RP11-47I22.3		
ENSG00000005981	7	95097756	95179544	267	46	46853	-0.035771	0.51427	ASB4		
ENSG00000228049	7	102267474	102322076	3	2	42576	-0.03583	0.51429	POLR2J2		
ENSG00000267645	7	102267496	102322088	3	2	42576	-0.03583	0.51429	POLR2J2		

ENSG00000173678	7	102280772	102311847	3	2	42576	-0.03583	0.51429	SPDYE2B		
ENSG00000270299	20	617270	666444	147	38	44285	-0.035959	0.51434	RP5-850E9.3		
ENSG00000069431	12	21940335	22104336	376	54	48254	-0.036093	0.5144	ABCC9		
ENSG00000123505	6	111185973	111226916	139	12	46760	-0.036449	0.51454	AMD1		
ENSG00000178538	8	61089906	61203971	460	49	43509	-0.036548	0.51458	CA8		
ENSG00000164309	5	78975700	79106063	389	66	41390	-0.036639	0.51461	CMYA5		
ENSG00000060762	6	166768407	166806486	51	9	38742	-0.03685	0.5147	MPC1		
ENSG00000148082	9	91618060	91803682	593	73	50369	-0.036896	0.51472	SHC3		
ENSG00000146233	6	46507541	46630523	346	36	39075	-0.036953	0.51474	CYP39A1		
ENSG00000094796	17	39539976	39563844	61	14	41231	-0.037238	0.51485	KRT31		
ENSG00000187185	16	57822098	57860850	127	24	45964	-0.037278	0.51487	CTD-2600O9.1		
ENSG00000116690	1	186255405	186293694	79	14	46678	-0.037512	0.51496	PRG4		
ENSG00000177570	8	119191698	119644234	1353	136	39015	-0.037544	0.51497	SAMD12		
ENSG00000140743	16	22347257	22458486	94	31	45452	-0.037534	0.51497	CDR2		
ENSG00000163512	3	28346494	28400618	92	14	39085	-0.037574	0.51499	AZI2		
ENSG00000188803	17	11134580	11477380	1225	162	46013	-0.037579	0.51499	SHISA6		
ENSG00000198771	1	167589330	167685486	384	78	49106	-0.037654	0.51502	RCSD1		
ENSG00000164746	7	48065108	48110901	159	20	40990	-0.0377	0.51504	C7orf57		
ENSG00000179455	15	23800454	23883064	220	35	45140	-0.037764	0.51506	MKRN3		
ENSG00000176879	11	4934531	4955637	113	26	50683	-0.037804	0.51508	OR51G1		
ENSG00000125703	1	63239806	63341184	247	18	52305	-0.037828	0.51509	ATG4C		
ENSG00000134760	18	28888052	28946992	297	22	37033	-0.038061	0.51518	DSG1		
ENSG00000080910	1	196778898	196938356	319	37	29854	-0.038087	0.51519	CFHR2		
ENSG00000151033	10	30890718	30928691	202	25	43323	-0.038309	0.51528	LYZL2		
ENSG00000154997	7	55851237	55940482	267	39	36111	-0.038355	0.5153	Sep-14		
ENSG00000119711	14	74513553	74561196	178	14	27726	-0.038489	0.51535	ALDH6A1		
ENSG00000139946	14	56574532	56778244	764	37	46383	-0.038716	0.51544	PELI2		
ENSG00000260092	16	75552430	75589326	114	13	48983	-0.038992	0.51555	RP11-77K12.7		
ENSG00000140319	15	40317940	40341389	54	13	43650	-0.039012	0.51556	SRP14		
ENSG00000144744	3	69093881	69139559	97	15	51964	-0.039073	0.51558	UBA3		
ENSG00000167110	9	131008108	131048274	77	13	41794	-0.039148	0.51561	GOLGA2		
ENSG00000196950	2	196430701	196612426	436	57	41882	-0.039174	0.51562	SLC39A10		
ENSG00000173535	8	22931868	22984950	173	35	41911	-0.039184	0.51563	TNFRSF10C		
ENSG00000213523	5	139906925	139947895	55	14	49736	-0.039226	0.51565	SRA1		
ENSG00000099942	22	21261714	21318037	155	17	46166	-0.039249	0.51565	CRKL		
ENSG00000167359	11	5451800	5472744	118	18	39951	-0.039704	0.51584	OR51I1		

ENSG00000159348	1	202920997	202946408	58	14	37248	-0.039792	0.51587	CYB5R1		
ENSG00000162706	1	159131399	159183103	121	30	41598	-0.040152	0.51601	CADM3		
ENSG00000224870	1	1324902	1347426	41	8	32182	-0.040169	0.51602	RP4-758J18.2		
ENSG00000140598	15	82412571	82565104	502	52	36637	-0.040445	0.51613	EFTUD1		
ENSG00000267114	19	45443301	45467264	110	9	50331	-0.040533	0.51617	CTB-129P6.11		
ENSG00000166938	15	66575555	66636236	190	35	53053	-0.040685	0.51623	DIS3L		
ENSG00000134243	1	109842192	109950573	182	17	44216	-0.040934	0.51633	SORT1		
ENSG00000155511	5	152859175	153203429	1340	114	44849	-0.041031	0.51636	GRIA1		
ENSG00000123144	19	12831454	12855589	20	12	52682	-0.041202	0.51643	C19orf43		
ENSG00000113083	5	121388890	121423980	83	17	50375	-0.041606	0.51659	LOX		
ENSG00000267261	17	40261692	40316934	119	13	32965	-0.041655	0.51661	CTD-2132N18.3		
ENSG00000107404	1	1260656	1294730	110	17	35459	-0.041763	0.51666	DVL1		
ENSG00000269630	18	60495640	60515948	37	8	43476	-0.041799	0.51667	AC015989.2		
ENSG00000196511	7	144139034	144543488	1159	86	33898	-0.041852	0.51669	TPK1		
ENSG00000159733	4	2261309	2430390	743	83	47914	-0.042032	0.51676	ZFYVE28		
ENSG00000164440	6	139551198	139623276	180	33	42776	-0.042074	0.51678	TXLNB		
ENSG00000232382	3	98178324	98199420	55	13	42812	-0.042178	0.51682	OR5K1		
ENSG0000025770	22	50936645	50971901	144	33	50383	-0.042377	0.5169	NCAPH2		
ENSG00000177990	12	63942693	64072719	674	57	41499	-0.042432	0.51692	DPY19L2		
ENSG00000104341	8	98777285	98875241	469	29	48228	-0.04272	0.51704	LAPTM4B		
ENSG00000170516	4	46726844	46921252	523	32	53711	-0.042739	0.51705	COX7B2		
ENSG00000121335	12	11534476	11663975	467	44	38119	-0.042935	0.51712	PRB2		
ENSG00000102871	16	67178083	67204201	17	10	43523	-0.042935	0.51712	TRADD		
ENSG00000124370	2	71326814	71367369	145	16	41064	-0.043193	0.51723	MCEE		
ENSG00000108759	17	39606063	39633681	199	14	56287	-0.043409	0.51731	KRT32		
ENSG00000105219	19	40718115	40742597	56	15	41640	-0.043554	0.51737	CNTD2		
ENSG00000158023	12	122345768	122451833	314	33	33829	-0.04358	0.51738	WDR66		
ENSG00000123815	19	41187434	41234112	148	25	52145	-0.043667	0.51742	ADCK4		
ENSG00000169860	3	152542736	152565841	41	7	31054	-0.043828	0.51748	P2RY1		
ENSG00000160208	21	45069429	45125958	129	11	44933	-0.043986	0.51754	RRP1B		
ENSG00000173809	19	33200659	33330483	406	34	46664	-0.044132	0.5176	TDRD12		
ENSG00000115339	2	166594101	166661192	119	23	42017	-0.044159	0.51761	GALNT3		
ENSG00000172421	17	60437579	60503837	108	24	41190	-0.044215	0.51763	EFCAB3		
ENSG00000183154	8	37582279	37604944	16	9	56555	-0.044535	0.51776	RP11-863K10.7		
ENSG00000181744	3	143680640	143777561	368	24	34672	-0.04461	0.51779	C3orf58		
ENSG00000269506	4	54917213	54937377	22	6	52853	-0.044603	0.51779	AC110792.1		

ENSG00000171501	9	125305391	125326493	175	18	38904	-0.04467	0.51781	OR1N2		
ENSG00000023734	12	16025325	16066412	38	17	49491	-0.045404	0.51811	STRAP		
ENSG00000225485	17	36574662	36678628	334	58	44230	-0.045405	0.51811	ARHGAP23		
ENSG00000143390	1	151303116	151329833	47	11	51911	-0.045636	0.5182	RFX5		
ENSG00000185130	6	27765257	27785709	55	12	37200	-0.045804	0.51827	HIST1H2BL		
ENSG00000139278	12	75864460	75907633	136	12	54835	-0.045832	0.51828	GLIPR1		
ENSG00000163295	2	233310833	233334742	87	17	48531	-0.045912	0.51831	ALPI		
ENSG00000183066	22	42384729	42464460	177	19	49065	-0.045927	0.51832	WBP2NL		
ENSG00000196578	3	97796017	97816946	134	13	42997	-0.045965	0.51833	OR5AC2		
ENSG00000114346	3	172458472	172549264	226	25	40868	-0.045956	0.51833	ECT2		
ENSG00000066557	1	70600488	70681303	129	16	46134	-0.045981	0.51834	LRRC40		
ENSG00000090863	16	74475856	74651012	612	45	49322	-0.046203	0.51843	GLG1		
ENSG00000165699	9	135756735	135830020	179	23	51225	-0.046241	0.51844	TSC1		
ENSG00000105894	7	136902088	137038611	387	69	44668	-0.046413	0.51851	PTN		
ENSG00000268130	13	113745563	113766608	77	15	45578	-0.046451	0.51852	AL137002.1		
ENSG00000214642	6	49926390	49947338	61	9	48318	-0.0466	0.51858	DEFB113		
ENSG00000187288	3	9898398	9931938	93	19	50906	-0.047019	0.51875	CIDEC		
ENSG00000105438	19	48875827	48904810	72	17	45138	-0.047273	0.51885	KDELR1		
ENSG00000064703	1	112287867	112320638	126	16	40584	-0.047509	0.51895	DDX20		
ENSG00000109684	4	10478019	10696489	879	84	44804	-0.047834	0.51908	CLNK		
ENSG00000078808	1	1142288	1177411	188	15	49125	-0.048399	0.5193	SDF4		
ENSG00000060237	12	851759	1030618	467	47	51051	-0.048537	0.51936	WNK1		
ENSG00000136931	9	127233516	127279709	64	12	42154	-0.048658	0.5194	NR5A1		
ENSG00000175336	12	56744353	56766607	22	5	52908	-0.048675	0.51941	APOF		
ENSG00000186007	1	205340506	205435082	296	38	48030	-0.048699	0.51942	LEMD1		
ENSG00000115840	2	172630880	172874766	632	52	42325	-0.04897	0.51953	SLC25A12		
ENSG00000115902	2	65205611	65260999	200	36	50092	-0.049384	0.51969	SLC1A4		
ENSG00000111676	12	7023626	7061484	62	21	43457	-0.049483	0.51973	ATN1		
ENSG00000154310	3	170769128	171188197	1205	146	48133	-0.049745	0.51984	TNIK		
ENSG00000171566	4	155446158	155481587	143	15	55392	-0.049861	0.51988	PLRG1		
ENSG00000243135	2	234627754	234691945	259	32	40208	-0.050298	0.52006	UGT1A3		
ENSG00000158055	1	24635812	24700972	168	38	43025	-0.050949	0.52032	GRHL3		
ENSG00000120662	13	41780505	41847742	218	19	52412	-0.051015	0.52034	MTRF1		
ENSG00000152193	13	79178426	79243314	172	16	46185	-0.051041	0.52035	RNF219		
ENSG00000159961	17	3313862	3334827	54	11	32316	-0.051143	0.52039	OR3A3		
ENSG00000159079	21	33954389	33995176	147	20	48140	-0.05124	0.52043	C21orf59		

ENSG00000130193	8	143798621	143828345	87	13	50843	-0.051352	0.52048	THEM6		
ENSG00000268182	19	57144513	57177134	118	21	47067	-0.051358	0.52048	SMIM17		
ENSG00000169627	16	30194255	30215627	8	5	32944	-0.05169	0.52061	BOLA2B		
ENSG00000144369	2	187548698	187640685	185	23	50135	-0.051885	0.52069	FAM171B		
ENSG00000196859	17	39104669	39133144	133	15	34069	-0.051991	0.52073	KRT39		
ENSG00000080608	9	2710469	2854241	457	81	45018	-0.05206	0.52076	KIAA0020		
ENSG00000135898	2	231762033	231835781	226	44	39183	-0.052298	0.52085	GPR55		
ENSG00000196747	6	27765899	27786429	57	12	37136	-0.052402	0.5209	HIST1H2AI		
ENSG00000100342	22	36639056	36673576	129	23	47321	-0.052506	0.52094	APOL1		
ENSG00000048828	9	96204004	96338397	431	40	49050	-0.052661	0.521	FAM120A		
ENSG00000132471	17	73831780	73862588	119	17	36034	-0.052807	0.52106	WBP2		
ENSG00000197429	1	46149996	46226322	186	9	54307	-0.052971	0.52112	IPP		
ENSG00000104313	8	72099668	72284467	467	83	44822	-0.052971	0.52112	EYA1		
ENSG00000163399	1	116905290	116962883	93	11	27639	-0.053177	0.5212	ATP1A1		
ENSG00000234906	19	45439243	45462822	96	8	49418	-0.053211	0.52122	APOC2		
ENSG00000155970	8	16874747	16990153	391	56	45148	-0.053484	0.52133	MICU3		
ENSG00000197136	11	65373244	65414910	63	19	44601	-0.053504	0.52133	PCNXL3		
ENSG00000123358	12	52406616	52463291	161	41	46891	-0.053714	0.52142	NR4A1		
ENSG00000213463	14	70828148	70893778	286	31	44099	-0.053828	0.52146	SYNJ2BP		
ENSG00000244274	20	44024697	44049250	58	9	43619	-0.053807	0.52146	DBNDD2		
ENSG00000105376	19	10390657	10417454	86	18	39918	-0.054266	0.52164	ICAM5		
ENSG00000237515	16	12985477	13344272	1551	181	46980	-0.054519	0.52174	SHISA9		
ENSG00000182240	21	42529728	42664445	434	88	45901	-0.054733	0.52182	BACE2		
ENSG00000155876	9	19039372	19061019	100	13	42424	-0.054799	0.52185	RRAGA		
ENSG00000099246	10	27783197	27841143	140	17	51082	-0.054942	0.52191	RAB18		
ENSG00000119227	3	196663214	196705931	153	31	35056	-0.055014	0.52194	PIGZ		
ENSG00000205659	14	74541499	74677936	487	28	28850	-0.055306	0.52205	LIN52		
ENSG00000102837	13	53592894	53636192	126	33	47625	-0.055449	0.52211	OLFM4		
ENSG00000198454	9	139853695	139876442	95	13	46148	-0.055605	0.52217	C9orf141		
ENSG00000131043	20	34814381	34868840	67	22	44901	-0.055717	0.52222	AAR2		
ENSG00000101752	18	19274918	19460918	316	36	40212	-0.055951	0.52231	MIB1		
ENSG00000242441	2	48834937	48970287	559	70	48309	-0.05603	0.52234	GTF2A1L		
ENSG00000143612	1	154169182	154203104	40	11	42367	-0.056257	0.52243	C1orf43		
ENSG00000140691	16	31459401	31488487	48	18	45748	-0.056429	0.5225	ARMC5		
ENSG00000110063	11	126163647	126225644	190	30	43165	-0.056487	0.52252	DCPS		
ENSG00000095951	6	11998995	12175232	569	72	47274	-0.056562	0.52255	HIVEP1		

ENSG00000211456	3	45720548	45796916	277	19	51541	-0.056569	0.52256	SACM1L		
ENSG00000267168	17	74719060	74744604	16	8	46017	-0.056676	0.5226	RP11-318A15.7		
ENSG00000215712	6	157700418	157754633	139	18	47517	-0.056759	0.52263	TMEM242		
ENSG00000197872	2	16720727	16857599	347	73	38569	-0.056847	0.52267	FAM49A		
ENSG00000177257	8	7262382	7284385	6	3	42871	-0.05696	0.52271	DEFB4B		
ENSG00000186572	8	7659242	7683238	2	1	42875	-0.057067	0.52275	DEFB107A		
ENSG00000189013	19	55226002	55335972	169	52	29365	-0.057564	0.52295	KIR2DL4		
ENSG00000173338	11	65350326	65373467	55	10	50704	-0.057767	0.52303	KCNK7		
ENSG00000173918	17	77008896	77055870	130	22	39856	-0.057833	0.52306	C1QTNF1		
ENSG00000004478	12	2894119	2924576	56	10	32806	-0.058168	0.52319	FKBP4		
ENSG00000110090	11	68512088	68621878	261	41	39710	-0.058263	0.52323	CPT1A		
ENSG00000205148	15	96821280	96841660	45	11	38373	-0.058338	0.52326	AC016251.1		
ENSG00000170417	2	103343367	103470352	283	29	53236	-0.05835	0.52327	TMEM182		
ENSG00000144451	2	214139113	215285225	3776	171	43043	-0.058444	0.5233	SPAG16		
ENSG00000159224	17	47025916	47055958	115	15	28940	-0.05846	0.52331	GIP		
ENSG00000164900	7	150835676	150881832	106	20	43992	-0.058656	0.52339	GBX1		
ENSG00000007129	19	42045886	42103197	115	19	40903	-0.058756	0.52343	CEACAM21		
ENSG00000258315	17	6907814	6930844	46	6	51627	-0.058881	0.52348	C17orf49		
ENSG00000125772	20	5515085	5601672	243	29	46277	-0.058892	0.52348	GPCPD1		
ENSG00000197694	9	131304866	131405941	147	17	29001	-0.059134	0.52358	SPTAN1		
ENSG00000152760	1	67208142	67254470	155	21	45047	-0.059173	0.52359	TCTEX1D1		
ENSG00000107831	10	103519899	103545854	29	12	51258	-0.059186	0.5236	FGF8		
ENSG00000164933	8	104400863	104437417	135	13	55453	-0.059238	0.52362	SLC25A32		
ENSG00000108591	17	17981200	18021285	90	11	29382	-0.059235	0.52362	DRG2		
ENSG00000157881	1	2429972	2468039	103	14	32115	-0.059447	0.5237	PANK4		
ENSG00000152464	10	15129179	15191817	284	39	40013	-0.059512	0.52373	RPP38		
ENSG00000145794	5	126616523	126811429	722	56	45095	-0.05955	0.52374	MEGF10		
ENSG00000165476	10	65271123	65394883	348	35	46508	-0.059656	0.52379	REEP3		
ENSG00000188015	1	153509805	153531848	53	6	27834	-0.059684	0.5238	S100A3		
ENSG00000135828	1	182532769	182568391	92	23	45941	-0.059798	0.52384	RNASEL		
ENSG00000125877	20	3179514	3214516	146	25	47605	-0.059817	0.52385	ITPA		
ENSG00000140829	16	72117461	72156811	139	14	38038	-0.060006	0.52392	DHX38		
ENSG00000178372	10	5530658	5551533	73	18	44004	-0.060039	0.52394	CALML5		
ENSG00000108474	17	16110505	16262115	358	29	44583	-0.060373	0.52407	PIGL		
ENSG00000100012	22	30833946	30878036	184	21	37360	-0.060881	0.52427	SEC14L3		
ENSG00000154370	1	228571374	228604541	61	12	45816	-0.061333	0.52445	TRIM11		

ENSG00000197619	19	52484585	52521483	152	16	30950	-0.061388	0.52447	ZNF615		
ENSG00000165934	14	92578281	92640755	241	17	38739	-0.061605	0.52456	CPSF2		
ENSG00000066044	19	8013463	8080543	174	21	52614	-0.06181	0.52464	ELAVL1		
ENSG00000104897	19	2226520	2258678	103	31	42412	-0.062067	0.52475	SF3A2		
ENSG00000110104	11	60599544	60628554	126	26	45387	-0.06223	0.52481	CCDC86		
ENSG00000119508	9	102574137	102639173	78	17	44657	-0.062322	0.52485	NR4A3		
ENSG00000205595	4	75470629	75500486	28	9	42539	-0.062345	0.52486	AREGB		
ENSG00000109956	11	134238398	134291812	226	32	51671	-0.062364	0.52486	B3GAT1		
ENSG00000136842	9	100253462	100374030	317	63	51220	-0.062469	0.52491	TMOD1		
ENSG00000132972	13	25328290	25464059	482	35	54844	-0.062586	0.52495	RNF17		
ENSG00000130818	19	9628667	9659303	145	5	23775	-0.062615	0.52496	ZNF426		
ENSG00000053328	6	110557131	110689475	400	47	37788	-0.062727	0.52501	METTL24		
ENSG00000155980	12	57933781	57990415	103	29	40442	-0.062996	0.52512	KIF5A		
ENSG00000180929	3	51979330	52001509	31	11	32693	-0.063025	0.52513	GPR62		
ENSG00000166263	17	53036088	53251646	629	37	51493	-0.063085	0.52515	STXBP4		
ENSG00000164134	4	140212609	140351187	358	30	50253	-0.063229	0.52521	NAA15		
ENSG00000129009	15	74456012	74479213	60	11	26701	-0.063409	0.52528	ISLR		
ENSG00000221955	3	124791480	125008021	803	130	46480	-0.063503	0.52532	SLC12A8		
ENSG00000165629	10	7820092	7859778	155	20	48816	-0.063757	0.52542	ATP5C1		
ENSG00000109390	4	140178034	140233705	152	19	51484	-0.06378	0.52543	NDUFC1		
ENSG00000086730	7	73603982	73654161	58	20	47110	-0.063821	0.52544	LAT2		
ENSG00000197697	6	26173958	26194454	76	9	48837	-0.063926	0.52549	HIST1H2BE		
ENSG00000177599	19	11898482	11930437	76	11	34046	-0.06397	0.5255	ZNF491		
ENSG00000110693	11	15977995	16771138	1592	104	46904	-0.06409	0.52555	SOX6		
ENSG00000107745	10	74117098	74395899	471	22	25183	-0.064101	0.52556	MICU1		
ENSG00000203546	14	31793518	31936647	272	29	41715	-0.06411	0.52556	RP11-176H8.1		
ENSG00000261667	8	144151874	144174418	70	10	27035	-0.064189	0.52559	RP11-520P18.5		
ENSG00000106819	9	95208487	95254788	116	12	36861	-0.064184	0.52559	ASPN		
ENSG00000108296	17	36946687	36991734	119	21	40494	-0.064206	0.5256	CWC25		
ENSG00000167580	12	50334524	50362664	72	20	32856	-0.064392	0.52567	AQP2		
ENSG00000115446	2	99215042	99244978	57	6	55869	-0.064772	0.52582	UNC50		
ENSG00000182154	9	140435651	140457007	49	19	45802	-0.064907	0.52588	MRPL41		
ENSG00000145016	3	197388264	197486598	212	19	44745	-0.065097	0.52595	KIAA0226		
ENSG00000184860	16	82021221	82055093	52	21	39358	-0.065442	0.52609	SDR42E1		
ENSG00000235942	1	152805344	152826459	22	13	47243	-0.065663	0.52618	LCE6A		
ENSG00000114573	3	113455866	113540903	129	8	52332	-0.0658	0.52623	ATP6V1A		

ENSG00000182747	6	137233402	137256777	74	10	49223	-0.065888	0.52627	SLC35D3		
ENSG00000239590	9	125271420	125292361	78	15	34634	-0.065943	0.52629	OR1J4		
ENSG00000111341	12	15024115	15048860	54	5	54399	-0.066246	0.52641	MGP		
ENSG00000234545	7	92180107	92229708	109	20	48955	-0.066422	0.52648	FAM133B		
ENSG00000203827	1	148729443	148768311	3	1	43194	-0.066448	0.52649	NBPF16		
ENSG00000134851	4	56252124	56329564	260	23	48335	-0.066712	0.52659	TMEM165		
ENSG00000215067	17	6769954	6925668	419	80	47532	-0.066947	0.52669	AC027763.2		
ENSG00000041802	3	194351517	194403206	280	24	46039	-0.067122	0.52676	LSG1		
ENSG00000182782	12	123175840	123197890	81	8	34821	-0.067246	0.52681	HCAR2		
ENSG00000186188	10	95316422	95374237	209	40	41452	-0.067332	0.52684	FFAR4		
ENSG00000170264	2	62041989	62091278	158	19	54881	-0.067406	0.52687	FAM161A		
ENSG00000213204	6	88107730	88231352	470	39	53358	-0.067537	0.52692	C6orf165		
ENSG00000164983	8	125314231	125394933	247	26	51575	-0.067672	0.52698	TMEM65		
ENSG00000004866	7	116583292	116880157	440	62	41792	-0.067711	0.52699	ST7		
ENSG00000175600	7	40164575	40910362	1504	135	45468	-0.067957	0.52709	SUGCT		
ENSG00000168894	2	85812848	85834736	46	12	38048	-0.068061	0.52713	RNF181		
ENSG00000187871	6	55182267	55277291	751	51	46209	-0.068249	0.52721	GFRAL		
ENSG00000012223	3	46467136	46536724	271	37	40312	-0.068311	0.52723	LTF		
ENSG00000196236	22	41243081	41373838	134	29	43992	-0.06849	0.5273	XPNPEP3		
ENSG00000184277	15	102151847	102202594	158	31	45723	-0.068512	0.52731	TM2D3		
ENSG00000107551	10	45444855	45501339	177	40	44958	-0.068611	0.52735	RASSF4		
ENSG00000138134	10	90629491	90744910	291	44	40639	-0.068896	0.52746	STAMBPL1		
ENSG00000073849	3	186638274	186806341	704	134	48432	-0.068986	0.5275	ST6GAL1		
ENSG00000180433	1	158714510	158735681	104	16	36202	-0.069241	0.5276	OR6K6		
ENSG00000124575	6	26224440	26245216	72	9	51490	-0.069644	0.52776	HIST1H1D		
ENSG00000100401	22	41631615	41692255	132	17	51862	-0.069773	0.52781	RANGAP1		
ENSG00000117620	1	100425345	100502535	279	22	45662	-0.070331	0.52803	SLC35A3		
ENSG00000136273	7	47725328	48029178	1441	117	47687	-0.070355	0.52804	HUS1		
ENSG00000178222	4	1040038	1117350	388	23	40232	-0.070427	0.52807	RNF212		
ENSG00000243749	1	35437136	35460954	26	9	31023	-0.070483	0.5281	ZMYM6NB		
ENSG00000171827	19	37948487	37986260	66	13	35528	-0.070539	0.52812	ZNF570		
ENSG00000137266	6	3259196	3467256	935	113	45000	-0.070814	0.52823	SLC22A23		
ENSG00000164853	7	1262543	1286954	54	14	37342	-0.070869	0.52825	UNCX		
ENSG00000063322	19	39871943	39901277	53	11	39266	-0.070878	0.52825	MED29		
ENSG00000112242	6	20392398	20503941	254	57	45020	-0.070899	0.52826	E2F3		
ENSG00000186086	1	108908421	109023624	80	13	40395	-0.070955	0.52828	NBPF6		

ENSG00000168393	2	242605157	242636406	184	16	46605	-0.071075	0.52833	DTYMK		
ENSG00000160404	9	130483803	130507604	64	11	48546	-0.071934	0.52867	TOR2A		
ENSG00000197279	6	28038753	28067341	104	13	51565	-0.072392	0.52885	ZNF165		
ENSG00000133740	8	86079460	86139387	106	13	50564	-0.072449	0.52888	E2F5		
ENSG00000167286	11	118199669	118223459	59	13	42724	-0.072661	0.52896	CD3D		
ENSG00000062038	16	68660092	68766519	354	34	48720	-0.07274	0.52899	CDH3		
ENSG00000257950	17	3556357	3609488	193	32	44786	-0.07281	0.52902	P2RX5-TAX1BP3		
ENSG00000105464	19	48888132	48958188	203	40	35834	-0.073096	0.52914	GRIN2D		
ENSG00000122335	6	158520536	158599312	217	21	50596	-0.073123	0.52915	SERAC1		
ENSG00000198862	21	30290466	30375270	213	29	45747	-0.073314	0.52922	LTN1		
ENSG00000060491	20	61426187	61455352	150	29	49136	-0.073354	0.52924	OGFR		
ENSG00000198826	15	32897345	32942150	100	27	48856	-0.073395	0.52925	ARHGAP11A		
ENSG00000168505	2	237063879	237087012	56	12	42003	-0.073867	0.52944	GBX2		
ENSG00000106028	7	141428121	141497722	186	8	52361	-0.07401	0.5295	SSBP1		
ENSG00000205413	7	92718829	92757336	142	25	40610	-0.074037	0.52951	SAMD9		
ENSG00000147533	8	41337915	41378499	165	25	50632	-0.074254	0.5296	GOLGA7		
ENSG00000267901	14	71673031	71693462	82	16	44511	-0.074313	0.52962	AC004817.1		
ENSG00000104320	8	90935564	91025456	226	19	41439	-0.074442	0.52967	NBN		
ENSG00000183248	19	7923605	7949326	68	15	45824	-0.074431	0.52967	CTD-3193O13.9		
ENSG00000165271	9	33451439	33483928	98	20	48440	-0.074655	0.52976	NOL6		
ENSG00000174721	10	93656346	93679240	70	17	49849	-0.074849	0.52983	FGFBP3		
ENSG00000129170	11	19193578	19242120	152	38	46733	-0.074946	0.52987	CSRP3		
ENSG00000108578	17	28565218	28629074	123	18	42541	-0.074948	0.52987	BLMH		
ENSG00000196466	19	12490830	12522085	57	13	30983	-0.074938	0.52987	ZNF799		
ENSG00000214046	19	16731562	16781253	134	25	41181	-0.074945	0.52987	SMIM7		
ENSG00000258472	17	26772770	26951215	291	45	49058	-0.075025	0.5299	RP11-192H23.4		
ENSG00000155875	9	18917656	19043251	725	58	40684	-0.075079	0.52992	FAM154A		
ENSG00000168828	9	35859375	35880461	59	14	45912	-0.075255	0.52999	OR13J1		
ENSG00000162624	1	75584119	75637218	111	20	39926	-0.075313	0.53002	LHX8		
ENSG00000131931	8	42681817	42708468	48	12	38008	-0.075422	0.53006	THAP1		
ENSG00000224420	19	50181921	50203832	49	14	39371	-0.075658	0.53015	ADM5		
ENSG00000141979	19	16579878	16749015	437	47	47868	-0.075837	0.53023	CTD-3222D19.2		
ENSG00000102763	13	42130973	42545256	1217	91	47180	-0.076325	0.53042	VWA8		
ENSG00000131737	17	39523902	39548655	47	15	43973	-0.076564	0.53051	KRT34		
ENSG00000117971	15	78906461	79030096	389	42	39920	-0.076571	0.53052	CHRNA4		
ENSG00000196812	6	28082338	28107860	83	10	48131	-0.076951	0.53067	ZSCAN16		

ENSG00000134539	12	10368657	10479850	301	34	38447	-0.076991	0.53068	KLRD1		
ENSG00000111752	12	9056492	9104063	150	18	41412	-0.077265	0.53079	PHC1		
ENSG00000142634	1	15726391	15766839	127	34	48250	-0.077846	0.53102	EFHD2		
ENSG00000104332	8	41109481	41177016	128	26	47730	-0.078015	0.53109	SFRP1		
ENSG00000183421	21	43149529	43197266	225	33	53904	-0.078217	0.53117	RIPK4		
ENSG00000137414	6	17590586	17621950	78	20	44296	-0.078985	0.53148	FAM8A1		
ENSG00000102898	16	67870635	67916470	68	15	44928	-0.079028	0.53149	NUTF2		
ENSG00000106524	7	16629401	16695442	215	32	49259	-0.079352	0.53162	ANKMY2		
ENSG00000070388	19	629879	653703	135	38	42454	-0.079435	0.53166	FGF22		
ENSG00000116014	19	907287	931015	72	20	44802	-0.079474	0.53167	KISS1R		
ENSG00000071051	2	106351354	106520730	643	59	48979	-0.079518	0.53169	NCK2		
ENSG00000152253	2	169680642	169779881	302	43	44381	-0.079841	0.53182	SPC25		
ENSG00000037757	19	13865346	13895096	126	16	26899	-0.079856	0.53182	MRI1		
ENSG00000225781	7	142739417	142760444	61	10	41036	-0.080234	0.53197	OR6V1		
ENSG00000083720	5	41720167	41880621	248	23	50078	-0.080286	0.532	OXCT1		
ENSG00000110315	11	10523225	10572777	207	28	40915	-0.080437	0.53206	RNF141		
ENSG00000177291	10	35884338	35907863	73	16	37219	-0.080524	0.53209	GJD4		
ENSG00000136193	7	29949719	30039905	266	31	55069	-0.080549	0.5321	SCRN1		
ENSG00000115648	2	238384071	238473961	473	49	42913	-0.08061	0.53212	MLPH		
ENSG00000150625	4	176544085	176933815	1315	149	45624	-0.080655	0.53214	GPM6A		
ENSG00000115649	2	220026619	220052828	53	7	31231	-0.080667	0.53215	CNPPD1		
ENSG00000174776	3	167186472	167381771	353	55	47012	-0.080804	0.5322	WDR49		
ENSG00000180739	19	10613623	10638607	90	24	50411	-0.080834	0.53221	S1PR5		
ENSG00000004948	7	93043799	93214042	471	55	40523	-0.080953	0.53226	CALCR		
ENSG00000196792	14	31353005	31505607	421	36	43017	-0.081651	0.53254	STRN3		
ENSG00000006007	16	19503015	19543467	162	13	34653	-0.081725	0.53257	GDE1		
ENSG00000267467	19	45435495	45462820	100	9	49282	-0.081756	0.53258	APOC4		
ENSG00000224916	19	45435495	45462822	100	9	49282	-0.081756	0.53258	APOC4-APOC2		
ENSG00000187098	3	69778586	70027488	553	39	37988	-0.081818	0.5326	MITF		
ENSG00000226887	4	53578785	53627807	95	8	56105	-0.081993	0.53267	ERVMER34-1		
ENSG00000204138	1	28686114	28836881	552	19	29343	-0.08202	0.53268	PHACTR4		
ENSG00000108219	10	82203922	82302879	291	37	44280	-0.082314	0.5328	TSPAN14		
ENSG00000119862	2	64671103	64698515	73	22	45236	-0.082445	0.53285	LGALS1		
ENSG00000150967	12	123395498	123476196	92	22	40890	-0.082545	0.53289	ABCB9		
ENSG00000113658	5	135458534	135534435	197	8	39474	-0.082569	0.5329	SMAD5		
ENSG00000035681	8	59486063	59582403	240	30	46340	-0.082568	0.5329	NSMAF		

ENSG00000269741	19	51489274	51522837	140	18	40233	-0.08281	0.533	KLK9		
ENSG00000132676	1	155647751	155718801	92	18	40330	-0.083127	0.53312	DAP3		
ENSG00000171786	1	160326857	160352638	66	16	40502	-0.08316	0.53314	NHLH1		
ENSG00000099617	19	1276153	1311430	66	21	41094	-0.083201	0.53315	EFNA2		
ENSG00000167716	17	1609817	1651893	138	19	53383	-0.083405	0.53324	WDR81		
ENSG00000186825	2	132542534	132569234	90	12	39637	-0.083434	0.53325	C2orf27B		
ENSG00000091986	3	112313407	112378377	172	36	40980	-0.083493	0.53327	CCDC80		
ENSG00000164520	6	150194511	150229238	127	10	42911	-0.083583	0.53331	RAET1E		
ENSG00000142182	21	45656222	45692099	124	31	38314	-0.083911	0.53344	DNMT3L		
ENSG00000168263	9	2707502	2740037	105	24	44959	-0.083983	0.53346	KCNV2		
ENSG00000108953	17	1237566	1313672	355	43	47403	-0.084018	0.53348	YWHAE		
ENSG00000171505	9	125278637	125299572	113	18	33384	-0.084369	0.53362	OR1N1		
ENSG00000144229	2	137513115	138445287	3746	228	39013	-0.084536	0.53368	THSD7B		
ENSG00000137731	11	117661559	117709413	161	34	47164	-0.08459	0.53371	FXD2		
ENSG00000164828	7	845528	946072	464	47	52149	-0.084648	0.53373	SUN1		
ENSG00000162998	2	183688002	183741890	165	27	43283	-0.085155	0.53393	FRZB		
ENSG00000213638	19	1895377	1923444	97	15	38438	-0.085257	0.53397	ADAT3		
ENSG00000171360	17	39582698	39607173	128	15	52531	-0.085349	0.53401	KRT38		
ENSG00000197702	11	12388732	12562348	572	92	41429	-0.085457	0.53405	PARVA		
ENSG00000083093	16	23604488	23662631	222	25	49328	-0.085724	0.53416	PALB2		
ENSG00000130640	10	135083135	135135841	165	23	42950	-0.08622	0.53435	TUBGCP2		
ENSG00000134200	1	115562415	115586941	102	11	49539	-0.086252	0.53437	TSHB		
ENSG00000105298	19	3600639	3636813	152	23	42651	-0.086295	0.53438	CACTIN		
ENSG00000141540	17	72199653	72268155	230	31	48254	-0.086301	0.53439	TTYH2		
ENSG00000104979	19	13874982	13899276	119	11	22484	-0.086363	0.53441	C19orf53		
ENSG00000171792	12	2975424	3008626	117	7	38649	-0.086405	0.53443	RHNO1		
ENSG00000070371	22	19156986	19289239	445	36	48806	-0.086573	0.53449	CLTCL1		
ENSG00000127054	1	1236965	1270071	70	17	35948	-0.086657	0.53453	CPSF3L		
ENSG00000073536	17	33445772	33479334	51	20	47461	-0.086661	0.53453	NLE1		
ENSG00000159516	1	153112058	153133345	49	6	48398	-0.086726	0.53456	SPRR2G		
ENSG00000100416	22	46716772	46763237	138	23	44506	-0.086799	0.53458	TRMU		
ENSG00000185418	15	102183801	102274807	217	29	31349	-0.086883	0.53462	TARSL2		
ENSG00000106018	7	158810866	158947649	585	63	43375	-0.086924	0.53463	VIPR2		
ENSG00000268965	17	76412409	76432834	135	5	53464	-0.087148	0.53472	AC061992.1		
ENSG00000268223	5	115377163	115405815	180	17	37958	-0.087156	0.53473	ARL14EPL		
ENSG00000174327	17	6929394	6953440	62	14	40950	-0.087591	0.5349	SLC16A13		

ENSG00000174903	11	66026004	66054963	51	11	54153	-0.087691	0.53494	<i>RAB1B</i>		
ENSG00000138083	2	45158902	45183216	85	22	40152	-0.088097	0.5351	<i>SIX3</i>		
ENSG00000055732	1	85473765	85524182	117	20	53532	-0.088182	0.53513	<i>MCOLN3</i>		
ENSG00000164379	6	1302675	1324992	101	20	51873	-0.088324	0.53519	<i>FOXQ1</i>		
ENSG00000146857	7	134906731	134953244	84	21	46480	-0.088608	0.5353	<i>STRA8</i>		
ENSG00000254726	1	156031804	156061789	41	13	36053	-0.088716	0.53535	<i>MEX3A</i>		
ENSG00000255439	16	31084760	31116277	40	7	21971	-0.088724	0.53535	<i>RP11-196G11.1</i>		
ENSG00000100029	22	30962612	31013070	207	38	49703	-0.088859	0.5354	<i>PES1</i>		
ENSG00000160767	1	155206996	155235274	57	6	28680	-0.088871	0.53541	<i>FAM189B</i>		
ENSG00000243811	22	39400368	39439281	111	24	43761	-0.088914	0.53542	<i>APOBEC3D</i>		
ENSG00000161649	17	41914516	41950997	76	13	41515	-0.088954	0.53544	<i>CD300LG</i>		
ENSG00000183246	22	21889646	21915750	3	2	43070	-0.089015	0.53546	<i>RIMBP3C</i>		
ENSG00000135605	4	48127800	48281881	603	62	42473	-0.089143	0.53552	<i>TEC</i>		
ENSG00000185513	20	42126320	42189590	193	30	52194	-0.089408	0.53562	<i>L3MBTL1</i>		
ENSG00000133731	8	82560196	82608928	160	26	47401	-0.089428	0.53563	<i>IMPA1</i>		
ENSG00000101544	18	77856915	77915406	200	20	43088	-0.089448	0.53564	<i>ADNP2</i>		
ENSG00000153802	4	68676594	68759750	138	36	50621	-0.089618	0.5357	<i>TMPRSS11D</i>		
ENSG00000188487	11	15123970	15278754	554	91	42609	-0.089607	0.5357	<i>INSC</i>		
ENSG00000180251	2	103079762	103160431	347	26	51240	-0.089632	0.53571	<i>SLC9A4</i>		
ENSG00000119013	2	201926156	201960473	80	15	46901	-0.089625	0.53571	<i>NDUFB3</i>		
ENSG00000164104	4	174242846	174266276	50	11	31695	-0.089677	0.53573	<i>HMGB2</i>		
ENSG00000162771	1	212787789	212810120	70	22	42389	-0.089763	0.53576	<i>FAM71A</i>		
ENSG00000257093	7	141346528	141411953	121	18	31673	-0.089807	0.53578	<i>KIAA1147</i>		
ENSG00000167618	19	54999100	55031897	191	43	40939	-0.089825	0.53579	<i>LAIR2</i>		
ENSG00000221932	11	124779146	124800573	83	26	44663	-0.08998	0.53585	<i>HEPN1</i>		
ENSG00000050344	7	26181860	26236745	140	23	48747	-0.090015	0.53586	<i>NFE2L3</i>		
ENSG00000137876	15	55463004	55499265	179	16	35630	-0.090246	0.53595	<i>RSL24D1</i>		
ENSG00000180776	13	21940263	22043509	276	26	34318	-0.090413	0.53602	<i>ZDHHC20</i>		
ENSG00000164916	7	4673388	4821074	502	81	45043	-0.090435	0.53603	<i>FOXK1</i>		
ENSG00000055163	5	156683089	156832606	496	42	40904	-0.090519	0.53606	<i>CYFIP2</i>		
ENSG00000109586	4	174079904	174255118	417	57	40035	-0.09053	0.53607	<i>GALNT7</i>		
ENSG00000198729	6	150454212	150581493	538	93	39294	-0.090601	0.5361	<i>PPP1R14C</i>		
ENSG00000101181	20	60748085	60788624	207	34	41711	-0.090839	0.53619	<i>MTG2</i>		
ENSG00000184908	1	16360272	16393803	272	34	43987	-0.090888	0.53621	<i>CLCNKB</i>		
ENSG00000111144	12	96384606	96447298	231	32	40612	-0.090903	0.53622	<i>LTA4H</i>		
ENSG00000127804	17	2298856	2425185	352	53	41738	-0.09092	0.53622	<i>METTL16</i>		

ENSG00000140534	15	90108713	90184287	218	19	44520	-0.091132	0.53631	<i>TICRR</i>		
ENSG00000178927	17	80390465	80418705	114	15	41016	-0.091566	0.53648	<i>C17orf62</i>		
ENSG00000186407	17	72596026	72629897	125	21	51632	-0.091897	0.53661	<i>CD300E</i>		
ENSG00000167081	9	128499624	128739656	373	33	41386	-0.091994	0.53665	<i>PBX3</i>		
ENSG00000214022	7	150055278	150081133	87	9	49514	-0.09211	0.53669	<i>REPIN1</i>		
ENSG00000257327	12	104225229	104248442	129	19	48941	-0.092549	0.53687	<i>RP11-650K20.3</i>		
ENSG00000177963	11	197511	225113	120	21	46619	-0.09276	0.53695	<i>RIC8A</i>		
ENSG00000233436	11	57500986	57529253	39	9	43467	-0.093272	0.53716	<i>BTBD18</i>		
ENSG00000165028	9	107516438	107549738	105	22	43711	-0.093391	0.5372	<i>NIPSNAP3B</i>		
ENSG00000182521	14	55870259	55933444	294	27	44451	-0.093374	0.5372	<i>TBPL2</i>		
ENSG00000111404	12	18223803	18483041	1011	76	51867	-0.093429	0.53722	<i>RERGL</i>		
ENSG00000196689	17	3458738	3510392	210	35	44128	-0.093468	0.53723	<i>TRPV1</i>		
ENSG00000261701	16	72078522	72121145	111	18	51258	-0.093502	0.53725	<i>HPR</i>		
ENSG00000147419	8	27580835	27640170	239	18	49121	-0.093709	0.53733	<i>CCDC25</i>		
ENSG00000260371	16	69358994	69400209	90	19	54389	-0.094044	0.53746	<i>RP11-343C2.9</i>		
ENSG00000198522	2	27841114	27884375	79	14	43062	-0.094117	0.53749	<i>GPN1</i>		
ENSG00000164125	4	159035626	159104470	192	18	35428	-0.09418	0.53752	<i>FAM198B</i>		
ENSG00000179912	12	57633392	57834788	282	22	44172	-0.094346	0.53758	<i>R3HDM2</i>		
ENSG00000256269	11	118945576	118974259	65	12	42929	-0.094614	0.53769	<i>HMBS</i>		
ENSG00000010292	12	6592522	6651121	229	20	41045	-0.094757	0.53775	<i>NCAPD2</i>		
ENSG00000203813	6	27767842	27788314	53	11	36425	-0.094963	0.53783	<i>HIST1H3H</i>		
ENSG00000175756	1	1299110	1320875	71	11	37302	-0.095254	0.53794	<i>AURKAIP1</i>		
ENSG00000106789	9	100873257	100964922	348	64	45514	-0.09527	0.53795	<i>CORO2A</i>		
ENSG00000132182	3	13347737	13471809	454	31	33331	-0.095364	0.53799	<i>NUP210</i>		
ENSG00000162437	1	65200778	65308915	247	32	43429	-0.095388	0.538	<i>RAVER2</i>		
ENSG00000169575	22	22589087	22609927	109	18	47293	-0.09551	0.53804	<i>VPREB1</i>		
ENSG00000237896	7	80794824	80838431	207	30	38259	-0.095813	0.53817	<i>AC005008.2</i>		
ENSG00000164897	7	150768167	150790633	55	12	41015	-0.095841	0.53818	<i>TMUB1</i>		
ENSG00000144476	2	237466430	237501001	88	18	37522	-0.095973	0.53823	<i>ACKR3</i>		
ENSG00000164124	4	159112756	159186563	125	35	43274	-0.096118	0.53829	<i>TMEM144</i>		
ENSG00000153391	18	33022194	33087955	147	25	53542	-0.096298	0.53836	<i>INO80C</i>		
ENSG00000124374	2	71399869	71464213	284	32	42599	-0.096338	0.53837	<i>PAIP2B</i>		
ENSG00000102978	16	57486299	57515922	97	22	52441	-0.096447	0.53842	<i>POLR2C</i>		
ENSG00000099974	22	24299089	24324721	23	9	43357	-0.096477	0.53843	<i>DDTL</i>		
ENSG00000151882	5	43366747	43422493	162	21	31495	-0.096965	0.53862	<i>CCL28</i>		
ENSG00000160695	11	118928403	118962688	105	11	47042	-0.096947	0.53862	<i>VPS11</i>		

ENSG00000108773	17	40255126	40283376	62	7	27410	-0.096962	0.53862	KAT2A		
ENSG00000163251	2	208617310	208644287	58	18	41470	-0.097084	0.53867	FZD5		
ENSG00000083842	19	58780317	58817254	134	21	43650	-0.097315	0.53876	ZNF8		
ENSG00000273439	19	58780318	58817254	134	21	43650	-0.097315	0.53876	ZNF8		
ENSG00000164128	4	164235113	164275984	138	28	39201	-0.097326	0.53877	NPY1R		
ENSG00000104921	19	7743644	7777032	266	25	41097	-0.09745	0.53882	FCER2		
ENSG00000163655	3	155578325	155671815	327	17	49419	-0.097513	0.53884	GMPS		
ENSG00000139910	14	26902299	27076960	271	28	48050	-0.097506	0.53884	NOVA1		
ENSG00000158615	1	204362515	204390919	61	20	37201	-0.097563	0.53886	PPP1R15B		
ENSG00000142875	1	84533745	84714181	300	32	44395	-0.097668	0.5389	PRKACB		
ENSG00000184384	11	95699762	96086344	1396	219	47543	-0.097875	0.53898	MAML2		
ENSG00000197790	11	4556421	4577374	206	15	55429	-0.097917	0.539	OR52M1		
ENSG00000259133	14	57105683	57207253	361	57	36262	-0.098055	0.53906	RP11-1085N6.3		
ENSG00000158869	1	161175024	161200489	65	18	50976	-0.098572	0.53926	FCER1G		
ENSG00000257482	7	63495821	63548927	235	14	38460	-0.09875	0.53933	ZNF727		
ENSG00000142002	19	4665236	4734685	199	38	41316	-0.098899	0.53939	DPP9		
ENSG00000198026	20	44567292	44610833	116	24	41558	-0.098905	0.53939	ZNF335		
ENSG00000178115	15	30834183	30864704	1	1	43450	-0.098922	0.5394	GOLGA8Q		
ENSG00000269866	16	70248261	70268641	21	10	43910	-0.099009	0.53943	FKSG63		
ENSG00000109016	17	21016677	21106578	175	26	48693	-0.098992	0.53943	DHRS7B		
ENSG00000126882	9	134123463	134161934	85	20	49888	-0.099072	0.53946	FAM78A		
ENSG00000116266	1	109279296	109362148	294	15	34358	-0.099192	0.53951	STXBP3		
ENSG00000111716	12	21778276	21920791	240	18	52721	-0.09974	0.53972	LDHB		
ENSG00000141434	18	29755032	29810367	166	27	46081	-0.10011	0.53987	MEP1B		
ENSG00000227151	13	57724766	57747787	7	4	35865	-0.10015	0.53989	PRR20D		
ENSG00000168818	4	4407469	4554073	421	38	43642	-0.10017	0.5399	STX18		
ENSG00000249853	6	114366750	114674209	706	106	53300	-0.10024	0.53992	HS3ST5		
ENSG00000261609	16	81338557	81434489	403	54	40449	-0.10025	0.53993	GAN		
ENSG00000154548	6	89795678	89837800	151	17	44091	-0.10047	0.54002	SRSF12		
ENSG00000136754	10	27025522	27160016	456	28	33121	-0.10052	0.54003	ABI1		
ENSG00000213022	19	51493806	51522890	123	17	40769	-0.10109	0.54026	KLK9		
ENSG00000035499	5	59882739	60006017	255	24	38981	-0.10115	0.54029	DEPDC1B		
ENSG00000149021	11	62162575	62200667	156	28	48595	-0.1012	0.5403	SCGB1A1		
ENSG00000184988	17	41353854	41382061	49	5	47368	-0.10118	0.5403	TMEM106A		
ENSG00000187535	16	1550428	1672111	438	39	40372	-0.10122	0.54031	IFT140		
ENSG00000142444	19	11029409	11054211	56	9	54644	-0.10166	0.54049	C19orf52		

ENSG00000154856	18	10444625	10499945	197	33	50172	-0.10174	0.54052	APCDD1		
ENSG00000004975	17	7118660	7147864	37	9	53156	-0.10188	0.54058	DVL2		
ENSG00000172239	5	43516369	43567860	150	16	36563	-0.10198	0.54061	PAIP1		
ENSG00000173699	2	231850836	231899770	257	32	45469	-0.10216	0.54068	SPATA3		
ENSG00000151881	5	43434354	43493995	189	18	32423	-0.10214	0.54068	C5orf28		
ENSG00000081913	18	60372672	60657666	541	51	49765	-0.1023	0.54074	PHLPP1		
ENSG00000186205	1	220950101	220997735	166	33	44998	-0.10252	0.54083	Mar-01		
ENSG00000118094	11	118518026	118560399	146	8	54857	-0.10264	0.54088	TREH		
ENSG00000140832	16	71650064	71686017	80	15	46777	-0.10282	0.54095	MARVELD3		
ENSG00000181418	12	49378932	49403092	37	14	49908	-0.10286	0.54096	DDN		
ENSG00000135040	9	88546061	88647213	136	36	46479	-0.10292	0.54099	NAA35		
ENSG00000092108	14	31081318	31215018	368	37	38126	-0.10316	0.54108	SCFD1		
ENSG00000184678	1	149846010	149868232	37	5	55079	-0.1032	0.5411	HIST2H2BE		
ENSG00000173114	7	110721062	110775510	96	17	35528	-0.10335	0.54116	LRRN3		
ENSG00000204300	11	123743633	123766349	79	15	55860	-0.1035	0.54122	TMEM225		
ENSG00000204356	6	31909864	31936887	84	22	41563	-0.10354	0.54123	NELFE		
ENSG00000214854	22	39646865	39667063	97	27	39666	-0.10362	0.54126	AL031590.1		
ENSG00000114520	3	125155495	125249041	307	29	39187	-0.1037	0.54129	SNX4		
ENSG00000120210	9	5121979	5195668	206	12	37019	-0.10377	0.54133	INSL6		
ENSG00000214919	3	155449933	155471515	68	15	39207	-0.10387	0.54137	AC104472.1		
ENSG00000129757	11	2894443	2917111	68	18	46633	-0.10427	0.54152	CDKN1C		
ENSG00000169180	16	28099300	28233241	111	16	53710	-0.10454	0.54163	XPO6		
ENSG00000188293	19	46723009	46744500	111	19	51659	-0.10476	0.54172	IGFL1		
ENSG00000107521	10	100165955	100216684	234	25	38630	-0.10496	0.54179	HPS1		
ENSG00000203630	20	1306228	1327555	64	11	34455	-0.10551	0.54201	AL136531.1		
ENSG00000226894	4	69044242	69093798	138	7	29388	-0.10557	0.54204	TMPRSS11BNL		
ENSG00000160446	9	131473148	131496406	25	12	44133	-0.10558	0.54204	ZDHC12		
ENSG00000120907	8	26595667	26734790	650	90	43152	-0.10593	0.54218	ADRA1A		
ENSG00000119457	9	115631200	115663193	120	19	49650	-0.10596	0.54219	SLC46A2		
ENSG00000170605	12	55513465	55534586	119	4	54400	-0.10609	0.54224	OR9K2		
ENSG00000105889	7	22449063	22682544	824	111	48011	-0.10636	0.54235	STEAP1B		
ENSG00000108465	17	46035176	46069140	111	17	47429	-0.10647	0.5424	CDK5RAP3		
ENSG00000146555	7	3331080	4318632	4280	201	43356	-0.10664	0.54246	SDK1		
ENSG00000147926	9	40690291	40716537	1	1	42379	-0.10673	0.5425	SPATA31A3		
ENSG00000162641	1	109348520	109516106	679	79	46423	-0.10679	0.54252	AKNAD1		
ENSG00000141232	17	48929584	48955339	58	13	43215	-0.10685	0.54255	TOB1		

ENSG00000005884	17	48123332	48177845	157	25	33596	-0.10713	0.54266	ITGA3		
ENSG00000027869	1	156766035	156796654	78	15	39783	-0.10718	0.54268	SH2D2A		
ENSG00000119899	6	74293102	74373878	483	20	42258	-0.10725	0.5427	SLC17A5		
ENSG00000085365	5	77646339	77786562	433	26	39678	-0.10728	0.54272	SCAMP1		
ENSG00000139645	12	56621591	56662175	49	6	49948	-0.10742	0.54277	ANKRD52		
ENSG00000172456	1	59752310	60243347	1295	122	42393	-0.10752	0.54281	FGGY		
ENSG00000100448	14	25032728	25055466	77	15	53807	-0.10766	0.54287	CTSG		
ENSG00000139508	13	29264201	29303107	83	15	49094	-0.10772	0.54289	SLC46A3		
ENSG00000273395	1	48216979	48237290	64	19	51855	-0.10776	0.54291	FLJ00388		
ENSG00000242485	1	1327288	1352693	55	7	28903	-0.10797	0.54299	MRPL20		
ENSG00000139180	12	4748261	4808454	188	33	38221	-0.10817	0.54307	NDUFA9		
ENSG00000057252	1	179252925	179337815	408	32	50629	-0.10836	0.54314	SOAT1		
ENSG00000183853	1	157953063	158080052	426	82	43628	-0.10855	0.54322	KIRREL		
ENSG00000157954	7	5219819	5283457	299	48	52102	-0.10864	0.54325	WIPI2		
ENSG00000261427	16	19115324	19194900	148	36	37677	-0.10885	0.54334	CTD-2349B8.1		
ENSG00000196844	11	125636008	125658714	85	13	54542	-0.10916	0.54346	PATE2		
ENSG00000130770	1	28552620	28583417	120	11	40166	-0.10921	0.54348	ATPIF1		
ENSG00000106331	7	127240346	127265982	60	10	34988	-0.10941	0.54356	PAX4		
ENSG00000124772	6	36698552	36817778	489	88	50330	-0.10967	0.54367	CPNE5		
ENSG00000175779	15	38978799	39002239	103	18	44062	-0.10986	0.54374	C15orf53		
ENSG00000115758	2	10570094	10598630	77	14	49893	-0.11002	0.54381	ODC1		
ENSG00000123689	1	209838765	209859733	43	11	45477	-0.11039	0.54395	G0S2		
ENSG00000269295	9	71859331	71879642	106	35	54241	-0.11055	0.54401	AL358113.1		
ENSG00000125731	19	6742171	6777599	100	17	49820	-0.11055	0.54401	SH2D3A		
ENSG00000166930	11	60187062	60232687	168	25	48860	-0.11083	0.54412	MS4A5		
ENSG00000143867	2	19541246	19568414	67	21	41745	-0.11085	0.54413	OSR1		
ENSG00000147509	8	54754368	54881863	123	25	40442	-0.11094	0.54417	RGS20		
ENSG00000243056	5	139917251	139939163	35	10	50435	-0.11103	0.54421	EIF4EBP3		
ENSG00000176937	11	4814663	4835847	155	13	30932	-0.1111	0.54423	OR52R1		
ENSG00000196184	1	159399512	159420600	86	19	40660	-0.11114	0.54425	OR10J1		
ENSG00000174840	3	57532003	57562571	80	14	41446	-0.11121	0.54427	PDE12		
ENSG00000159403	12	7177513	7255203	65	19	46815	-0.11152	0.5444	C1R		
ENSG00000125430	17	14194400	14262721	254	70	43934	-0.11173	0.54448	HS3ST3B1		
ENSG00000198788	11	1064875	1114419	259	44	38202	-0.11188	0.54454	MUC2		
ENSG00000130338	6	158723692	158942860	852	54	42365	-0.11198	0.54458	TULP4		
ENSG00000196323	11	130086572	130194581	342	25	30077	-0.11199	0.54459	ZBTB44		

ENSG00000134489	18	22030593	22069921	125	29	52787	-0.11201	0.54459	HRH4		
ENSG00000123307	12	55403729	55433798	64	12	38540	-0.11225	0.54469	NEUROD4		
ENSG00000257017	16	72078491	72104954	60	10	53222	-0.11253	0.5448	HP		
ENSG00000149582	11	118391756	118427995	85	8	28621	-0.1128	0.54491	TMEM25		
ENSG00000078747	20	32941041	33109198	271	16	53285	-0.11293	0.54496	ITCH		
ENSG00000150768	11	111885538	111945114	120	17	32814	-0.11301	0.54499	DLAT		
ENSG00000145839	5	135217935	135241516	74	15	54733	-0.11324	0.54508	IL9		
ENSG00000168748	16	66868282	66898056	45	7	42130	-0.11326	0.54509	CA7		
ENSG00000169635	22	21761693	21815752	23	9	32910	-0.11386	0.54533	HIC2		
ENSG00000206532	3	110597231	110622323	53	14	37172	-0.11399	0.54538	RP11-553A10.1		
ENSG00000160181	21	43756466	43781237	137	27	46113	-0.11399	0.54538	TFF2		
ENSG00000198342	19	12450185	12486719	37	15	41766	-0.11418	0.54545	ZNF442		
ENSG00000187866	9	71384964	71408609	83	17	27668	-0.11421	0.54546	FAM122A		
ENSG00000144791	3	45586886	45737830	608	60	51376	-0.11434	0.54551	LIMD1		
ENSG00000105499	19	48541100	48624074	423	66	41269	-0.11449	0.54558	PLA2G4C		
ENSG00000172575	15	38770304	38867776	259	33	50105	-0.11465	0.54564	RASGRP1		
ENSG00000130755	19	39808993	39843012	87	18	44784	-0.11479	0.54569	GMFG		
ENSG00000102981	16	67684849	67706681	24	10	45166	-0.11507	0.5458	PARD6A		
ENSG00000159339	1	17624690	17700499	487	48	52611	-0.11508	0.54581	PADI4		
ENSG00000165806	10	115428942	115500662	241	31	50356	-0.11509	0.54581	CASP7		
ENSG00000179242	20	59817482	60525673	3098	322	44537	-0.1151	0.54582	CDH4		
ENSG00000078898	20	31585406	31621515	127	33	46287	-0.11523	0.54587	BPIFB2		
ENSG00000091009	5	145573113	145728814	336	27	50221	-0.11526	0.54588	RBM27		
ENSG00000100393	22	41477790	41586081	214	25	46351	-0.1153	0.5459	EP300		
ENSG00000186827	1	1136706	1159518	107	13	50211	-0.11545	0.54595	TNFRSF4		
ENSG00000163818	3	45854808	45967534	230	34	38040	-0.11548	0.54597	LZTFL1		
ENSG00000174233	12	49149975	49192820	80	12	40504	-0.11552	0.54598	ADCY6		
ENSG00000103363	16	2811415	2837298	36	12	43232	-0.11552	0.54598	TCEB2		
ENSG00000268656	2	27988851	28019186	43	12	39228	-0.1156	0.54601	AC110084.1		
ENSG00000165782	14	20915878	20939771	70	14	52523	-0.1157	0.54605	TMEM55B		
ENSG00000113905	3	186368005	186406029	143	17	46171	-0.11584	0.54611	HRG		
ENSG00000140830	16	72068188	72138330	197	21	44141	-0.11584	0.54611	TXNL4B		
ENSG00000129355	19	10667138	10689735	99	16	40177	-0.11606	0.5462	CDKN2D		
ENSG00000161921	17	4626821	4653217	88	19	47001	-0.11612	0.54622	CXCL16		
ENSG00000100312	22	51166624	51193762	54	15	45745	-0.11649	0.54637	ACR		
ENSG00000104808	19	49426939	49458226	114	22	34889	-0.1166	0.54641	DHDH		

ENSG00000099341	19	38855176	38884464	100	19	45266	-0.11666	0.54644	PSMD8		
ENSG00000109323	4	103542660	103692151	348	29	46339	-0.11672	0.54646	MANBA		
ENSG00000167765	19	52085036	52107630	132	27	34720	-0.11676	0.54648	AC018755.1		
ENSG00000163737	4	74836794	74857841	59	10	30944	-0.11717	0.54664	PF4		
ENSG00000183049	10	12381481	12887545	2067	264	47182	-0.11723	0.54666	CAMK1D		
ENSG00000235863	6	33234917	33262609	95	17	32658	-0.11733	0.5467	B3GALT4		
ENSG00000165795	14	21474922	21549031	228	73	46331	-0.11761	0.54681	NDRG2		
ENSG00000153914	5	65425799	65489443	137	20	42272	-0.11768	0.54684	SREK1		
ENSG00000180818	12	54368849	54394063	59	17	43004	-0.11773	0.54686	HOXC10		
ENSG00000177943	9	139735395	139765249	43	10	51577	-0.11782	0.5469	MAMDC4		
ENSG00000262660	17	79660401	79697569	161	25	48302	-0.11813	0.54702	SLC25A10		
ENSG00000183048	17	79660404	79698042	161	25	48302	-0.11813	0.54702	SLC25A10		
ENSG00000124491	6	6134318	6331246	752	122	47565	-0.11862	0.54721	F13A1		
ENSG00000112249	6	100946070	101339248	1163	46	47015	-0.11867	0.54723	ASCC3		
ENSG00000154781	3	14683271	14724166	124	14	39270	-0.11881	0.54729	CCDC174		
ENSG00000144230	2	128393439	128420213	103	32	46834	-0.11885	0.5473	GPR17		
ENSG00000102760	13	42021695	42055018	104	17	42810	-0.11892	0.54733	RGCC		
ENSG00000188766	19	38869061	38896881	109	11	52327	-0.11931	0.54748	SPRED3		
ENSG00000108684	17	31330105	32511983	4103	395	46588	-0.11938	0.54751	ASIC2		
ENSG00000218672	7	155164771	155199051	207	37	45623	-0.11941	0.54753	AC008060.7		
ENSG00000057468	1	76252567	76388923	564	42	46803	-0.11955	0.54758	MSH4		
ENSG00000006327	16	3058446	3082384	54	14	51769	-0.11977	0.54767	TNFRSF12A		
ENSG00000176956	8	144229331	144252128	49	14	41046	-0.11991	0.54772	LY6H		
ENSG00000155761	1	118486484	118737846	515	36	31298	-0.12036	0.5479	SPAG17		
ENSG00000153066	16	11762936	11846734	273	30	43814	-0.12049	0.54795	TXNDC11		
ENSG00000170634	2	54187975	54542437	1179	79	49846	-0.1211	0.54819	ACYP2		
ENSG00000134900	13	103239353	103341521	436	23	46606	-0.12117	0.54822	TPP2		
ENSG00000204687	6	29444474	29465738	58	10	23043	-0.12133	0.54829	MAS1L		
ENSG00000182704	11	76483295	76519198	102	18	38488	-0.12144	0.54833	TSKU		
ENSG00000058085	1	183145373	183224035	308	31	41066	-0.12146	0.54834	LAMC2		
ENSG00000131187	5	176819141	176846577	33	14	41861	-0.12155	0.54837	F12		
ENSG00000013583	12	13117798	13163207	122	20	36126	-0.12155	0.54837	HEBP1		
ENSG00000105290	19	36348801	36380693	72	5	26660	-0.12192	0.54852	APLP1		
ENSG00000175393	11	7939180	7960209	114	12	52712	-0.12215	0.54861	OR10A6		
ENSG00000196235	19	39916796	39977310	195	16	44388	-0.12221	0.54863	SUPT5H		
ENSG00000105829	7	93582074	93643694	105	27	41516	-0.12247	0.54874	BET1		

ENSG00000255482	11	102327986	102379532	158	28	53011	-0.1225	0.54875	RP11-315O6.2		
ENSG00000273269	2	47283080	47413650	587	81	44395	-0.12274	0.54884	RP11-761B3.1		
ENSG00000143199	1	167768625	167893453	444	76	47802	-0.12276	0.54885	ADCY10		
ENSG00000148384	9	139313071	139344274	142	21	45302	-0.12278	0.54886	INPP5E		
ENSG00000137507	11	76358568	76391791	75	23	50299	-0.1228	0.54887	LRRC32		
ENSG00000249428	4	2441700	2474668	96	21	53302	-0.12315	0.54901	RP11-503N18.3		
ENSG00000090054	9	94784281	94887666	350	30	36546	-0.12317	0.54902	SPTLC1		
ENSG00000104147	15	41591466	41634819	117	14	41356	-0.12341	0.54911	OIP5		
ENSG00000215298	8	23420157	23442974	151	19	52503	-0.12358	0.54917	FP15737		
ENSG00000110427	11	33553618	33705648	436	67	48604	-0.12384	0.54928	KIAA1549L		
ENSG00000105085	19	16675718	16749873	152	22	51271	-0.12393	0.54932	MED26		
ENSG00000042832	8	133869203	134157147	1026	82	44014	-0.12399	0.54934	TG		
ENSG00000112195	6	41148015	41178932	132	27	43534	-0.12421	0.54942	TREML2		
ENSG00000137563	8	63917638	63961730	190	19	50560	-0.1243	0.54946	GGH		
ENSG00000171931	17	18637326	18692662	152	25	47388	-0.12469	0.54961	FBXW10		
ENSG00000183648	14	92572466	92598261	134	13	30086	-0.1251	0.54978	NDUFB1		
ENSG00000211455	12	27386901	27488892	344	43	47438	-0.12528	0.54985	STK38L		
ENSG00000181273	11	56746347	56767342	65	16	52980	-0.12545	0.54992	OR5AK2		
ENSG00000258083	7	141608617	141629709	62	10	45851	-0.12551	0.54994	OR9A4		
ENSG00000026025	10	17260258	17289592	52	16	37943	-0.12563	0.54999	VIM		
ENSG00000124191	20	42533504	42708256	554	91	44658	-0.12565	0.54999	TOX2		
ENSG00000267385	19	4518439	4550079	85	21	38565	-0.12566	0.55	CTB-50L17.14		
ENSG00000134001	14	67816714	67863233	111	25	43726	-0.12586	0.55008	EIF2S1		
ENSG00000026508	11	35150417	35263949	433	88	48237	-0.12594	0.55011	CD44		
ENSG00000140798	16	48106884	48199929	85	20	43028	-0.12624	0.55023	ABCC12		
ENSG00000196420	1	153499623	153524241	65	7	29381	-0.12651	0.55034	S100A5		
ENSG00000167780	12	53487302	53528322	150	15	27532	-0.12681	0.55045	SOAT2		
ENSG00000155313	21	17092344	17262377	361	25	43060	-0.12718	0.5506	USP25		
ENSG00000115935	2	175414300	175557644	239	39	50537	-0.12733	0.55066	WIPF1		
ENSG00000241598	11	1632188	1653368	176	23	54228	-0.12745	0.55071	KRTAP5-4		
ENSG00000103495	16	29807427	29833649	29	8	49314	-0.12751	0.55073	MAZ		
ENSG00000197301	12	66235120	66285947	85	22	44306	-0.12753	0.55074	RP11-366L20.2		
ENSG00000184992	12	125468246	125525777	286	36	43386	-0.12764	0.55078	BRI3BP		
ENSG00000178826	7	142967050	142995141	19	11	52048	-0.12778	0.55084	TMEM139		
ENSG00000113328	5	162854575	162883157	41	13	39866	-0.12782	0.55085	CCNG1		
ENSG00000107537	10	13309796	13354412	209	37	45304	-0.1278	0.55085	PHYH		

ENSG00000181472	6	151675252	151722683	124	22	34045	-0.12795	0.55091	ZBTB2		
ENSG00000153187	1	245004468	245037844	54	14	47772	-0.12798	0.55092	HNRNPU		
ENSG00000176253	14	20492003	20512919	132	14	45626	-0.12802	0.55094	OR4K13		
ENSG00000255104	17	15593006	15658092	181	30	42228	-0.12806	0.55095	ZNF286A		
ENSG00000182334	11	7836584	7857519	116	11	38952	-0.12823	0.55102	OR5P3		
ENSG00000169432	2	167041695	167242503	701	84	47545	-0.12831	0.55105	SCN9A		
ENSG00000162733	1	162591163	162767190	476	57	38840	-0.12839	0.55108	DDR2		
ENSG00000167925	17	40330817	40356531	19	11	50526	-0.12855	0.55114	GHDC		
ENSG00000074842	19	4631386	4680382	186	26	40267	-0.1286	0.55116	C19orf10		
ENSG00000125337	6	168386921	168455769	387	59	40526	-0.12887	0.55127	KIF25		
ENSG00000188312	9	95077766	95392815	866	45	41580	-0.12912	0.55137	CENPP		
ENSG00000253797	13	52588827	52617736	50	10	41039	-0.12915	0.55138	UTP14C		
ENSG00000070748	10	50807141	50911925	296	56	40860	-0.12927	0.55143	CHAT		
ENSG00000092094	14	20904570	20933264	118	17	50792	-0.1293	0.55144	OSGEP		
ENSG00000205018	16	88996197	89027932	100	21	44010	-0.12941	0.55148	RP11-830F9.6		
ENSG00000070404	19	666392	693385	166	29	49594	-0.12946	0.5515	FSTL3		
ENSG00000105835	7	105878731	105936772	163	21	45586	-0.12978	0.55163	NAMPT		
ENSG00000169258	5	176012803	176047134	71	15	40472	-0.13004	0.55173	GPRIN1		
ENSG00000203756	6	130142389	130192692	304	32	40034	-0.13022	0.5518	TMEM244		
ENSG00000184144	1	205002325	205057627	198	29	29442	-0.13035	0.55186	CNTN2		
ENSG00000214643	6	49903814	49927157	82	15	49412	-0.13043	0.55189	DEFB133		
ENSG00000183625	3	46195096	46318197	359	27	29261	-0.13057	0.55194	CCR3		
ENSG00000151475	4	128641533	128705448	95	14	41928	-0.13073	0.55201	SLC25A31		
ENSG00000170807	7	123285861	123314344	59	10	54819	-0.13082	0.55204	LMOD2		
ENSG00000143315	1	159987462	160011783	66	9	51005	-0.13092	0.55208	PIGM		
ENSG00000166750	17	33560055	33610674	206	32	43045	-0.13091	0.55208	SLFN5		
ENSG00000166603	18	58028564	58050001	65	15	44389	-0.13096	0.5521	MC4R		
ENSG00000259900	16	69359179	69395633	80	17	53991	-0.13105	0.55213	RP11-343C2.7		
ENSG00000138018	2	26521415	26628759	272	39	32227	-0.13109	0.55215	EPT1		
ENSG00000107282	9	72032446	72297222	721	64	45415	-0.13116	0.55218	APBA1		
ENSG00000148671	10	88717949	88753691	147	25	49161	-0.13135	0.55225	ADIRF		
ENSG00000165588	14	57257425	57287197	43	17	49849	-0.13139	0.55226	OTX2		
ENSG00000127580	16	724622	750444	52	11	34744	-0.13147	0.5523	WDR24		
ENSG00000136830	9	130257618	130351268	298	42	47363	-0.1316	0.55235	FAM129B		
ENSG00000100033	22	18890294	18934066	97	27	44075	-0.13164	0.55236	PRODH		
ENSG00000268181	7	62848414	62868860	1	1	42664	-0.13173	0.5524	AC073188.1		

ENSG00000171811	10	134611896	134766327	913	79	47679	-0.13189	0.55246	TTC40		
ENSG00000122085	2	242001584	242051747	171	19	36320	-0.13225	0.55261	MTERFD2		
ENSG00000106400	7	100850949	100877471	64	15	47096	-0.13228	0.55262	ZNHIT1		
ENSG00000127364	7	141468242	141489235	73	3	51950	-0.13243	0.55268	TAS2R4		
ENSG00000157429	16	71488453	71608992	237	34	38898	-0.13262	0.55275	ZNF19		
ENSG00000152439	19	58001283	58039772	249	8	54315	-0.13272	0.55279	ZNF773		
ENSG00000170615	7	102983177	103096624	315	46	41946	-0.13327	0.55301	SLC26A5		
ENSG00000240021	1	178472212	178527734	169	17	43426	-0.13408	0.55333	TEX35		
ENSG00000173327	11	65355226	65392853	74	16	47691	-0.13425	0.5534	MAP3K11		
ENSG00000136634	1	206930947	206955839	78	19	39564	-0.13429	0.55341	IL10		
ENSG00000197798	11	126071309	126142881	173	24	45570	-0.13461	0.55354	FAM118B		
ENSG00000196187	1	226023237	226080069	230	29	46586	-0.13463	0.55355	TMEM63A		
ENSG00000167397	16	31092163	31117301	30	6	18997	-0.13464	0.55355	VKORC1		
ENSG00000158710	1	159877897	159905522	76	22	38828	-0.13477	0.5536	TAGLN2		
ENSG00000013275	19	40466912	40497348	84	14	37373	-0.13508	0.55373	PSMC4		
ENSG00000116209	1	54487347	54529177	91	13	30441	-0.13519	0.55377	TMEM59		
ENSG00000272195	1	245122652	245144390	43	12	48194	-0.1352	0.55377	RP11-156E8.1		
ENSG00000268800	5	162856447	162883821	40	13	39440	-0.13536	0.55384	AC112205.1		
ENSG00000156030	14	74171825	74266988	282	51	39036	-0.13569	0.55397	ELMSAN1		
ENSG00000130340	6	158234296	158376109	510	29	48233	-0.13601	0.55409	SNX9		
ENSG00000128908	15	41261078	41418552	189	26	43292	-0.13608	0.55412	INO80		
ENSG00000203667	1	244988624	245018359	96	13	49651	-0.13631	0.55421	COX20		
ENSG00000106541	7	16821435	16883057	360	38	42616	-0.13639	0.55424	AGR2		
ENSG00000184923	10	88975205	89006665	30	8	35671	-0.13646	0.55427	NUTM2A		
ENSG00000061938	3	195580235	195648816	224	47	43150	-0.13674	0.55438	TNK2		
ENSG00000165478	11	124779089	124816308	139	33	41443	-0.13689	0.55444	HEPACAM		
ENSG00000187189	6	116561151	116585261	72	10	30766	-0.13697	0.55447	TSPYL4		
ENSG00000221963	22	36034442	36074456	161	20	36388	-0.13715	0.55454	APOL6		
ENSG00000040531	17	3529762	3574836	195	26	36932	-0.13736	0.55463	CTNS		
ENSG00000153093	2	111480150	111885799	1239	117	52195	-0.13758	0.55471	ACOXL		
ENSG00000205726	21	35004706	35282165	582	102	46035	-0.13784	0.55482	ITSN1		
ENSG00000118369	11	77889858	77935757	120	18	39179	-0.13802	0.55489	USP35		
ENSG00000145088	3	121544030	121615373	227	19	51458	-0.13811	0.55492	EAF2		
ENSG00000165970	11	20610946	20690831	340	53	50885	-0.13836	0.55502	SLC6A5		
ENSG00000154723	21	27078815	27117984	75	15	39494	-0.13873	0.55517	ATP5J		
ENSG00000196220	3	9012275	9414737	1320	207	47608	-0.13877	0.55518	SRGAP3		

ENSG00000255398	12	123189303	123211439	85	7	44956	-0.13875	0.55518	<i>HCAR3</i>		
ENSG00000197756	2	217352912	217453903	314	46	38910	-0.13878	0.55519	<i>RPL37A</i>		
ENSG00000268076	12	25371515	25400840	114	18	50612	-0.13878	0.55519	<i>AC087239.1</i>		
ENSG00000108417	17	39567005	39590775	88	13	53897	-0.13882	0.5552	<i>KRT37</i>		
ENSG00000168397	2	242566628	242623272	255	27	43959	-0.13884	0.55521	<i>ATG4B</i>		
ENSG00000137841	15	40560377	40610136	101	29	40940	-0.13894	0.55525	<i>PLCB2</i>		
ENSG00000088808	14	104190089	104323927	355	21	48859	-0.13935	0.55541	<i>PPP1R13B</i>		
ENSG00000184903	7	110293110	111212573	2075	141	37179	-0.13981	0.55559	<i>IMMP2L</i>		
ENSG00000154240	17	63621656	64198202	2364	82	33657	-0.13982	0.5556	<i>CEP112</i>		
ENSG00000214237	3	150578832	150622089	124	31	47858	-0.14008	0.5557	<i>FAM188B2</i>		
ENSG00000196166	8	38358352	38396180	120	20	33290	-0.1402	0.55575	<i>C8orf86</i>		
ENSG00000204392	6	31755173	31784761	84	27	36622	-0.14029	0.55578	<i>LSM2</i>		
ENSG00000259458	15	62919371	62947490	76	21	44341	-0.14058	0.5559	<i>RP11-625H11.1</i>		
ENSG00000107223	9	139746571	139770738	38	9	54099	-0.14064	0.55592	<i>EDF1</i>		
ENSG00000143184	1	168535711	168561315	99	15	37182	-0.14088	0.55602	<i>XCL1</i>		
ENSG00000120053	10	101146627	101200381	106	22	43017	-0.14093	0.55604	<i>GOT1</i>		
ENSG00000073756	1	186630923	186659559	111	15	44199	-0.14099	0.55606	<i>PTGS2</i>		
ENSG00000013364	16	29821715	29869355	63	6	49743	-0.14117	0.55613	<i>MVP</i>		
ENSG00000041880	3	51966361	51992883	42	16	38082	-0.1413	0.55618	<i>PARP3</i>		
ENSG00000091656	8	77583454	77789521	440	56	36888	-0.14128	0.55618	<i>ZFHX4</i>		
ENSG00000203815	1	149665978	149686609	1	1	55578	-0.14134	0.5562	<i>FAM231D</i>		
ENSG00000124532	6	24393153	24435810	287	24	45890	-0.14138	0.55622	<i>MRS2</i>		
ENSG00000133612	7	150772918	150851523	213	37	43772	-0.14147	0.55625	<i>AGAP3</i>		
ENSG00000183891	2	20086404	20111747	74	17	43946	-0.14155	0.55628	<i>TTC32</i>		
ENSG00000128791	18	9324765	9412418	326	28	47677	-0.14166	0.55633	<i>TWSG1</i>		
ENSG00000112984	5	137504408	137533404	49	14	52207	-0.14169	0.55634	<i>KIF20A</i>		
ENSG00000140948	16	87429852	87535651	432	29	42804	-0.14177	0.55637	<i>ZCCHC14</i>		
ENSG00000203661	1	248641885	248662898	4	2	49478	-0.14187	0.55641	<i>OR2T5</i>		
ENSG00000130368	6	160317974	160339108	58	15	43232	-0.14204	0.55648	<i>MAS1</i>		
ENSG00000166562	18	56796709	56836068	150	21	42088	-0.14212	0.55651	<i>SEC11C</i>		
ENSG00000235169	1	3679352	3702546	128	18	46432	-0.14214	0.55652	<i>SMIM1</i>		
ENSG00000170485	2	101426614	101623291	639	101	38624	-0.14214	0.55652	<i>NPAS2</i>		
ENSG00000137449	4	14994298	15081777	201	25	43157	-0.1423	0.55658	<i>CPEB2</i>		
ENSG00000189056	7	103102231	103639963	2377	191	44819	-0.14282	0.55678	<i>RELN</i>		
ENSG00000087301	14	52887308	53029240	407	37	47775	-0.14285	0.5568	<i>TXNDC16</i>		
ENSG00000061492	5	137409581	137438054	66	11	50839	-0.14294	0.55683	<i>WNT8A</i>		

ENSG00000187187	19	40480041	40533514	90	10	39147	-0.14296	0.55684	ZNF546		
ENSG00000173302	2	131476643	131497909	46	7	31127	-0.14299	0.55685	GPR148		
ENSG00000179044	16	67208269	67234107	41	9	33333	-0.14333	0.55698	EXOC3L1		
ENSG00000204889	17	39123968	39153387	237	18	28359	-0.14333	0.55699	KRT40		
ENSG00000212128	12	11050525	11072161	78	6	28775	-0.14336	0.557	TAS2R13		
ENSG00000163352	1	154956062	154976791	31	8	44464	-0.14353	0.55706	LENEP		
ENSG00000089234	12	112069950	112133790	42	18	54334	-0.14401	0.55726	BRAP		
ENSG00000138593	15	49270673	49348760	166	22	41767	-0.14417	0.55732	SECISBP2L		
ENSG00000217442	22	50979541	51011334	208	23	30394	-0.14431	0.55737	SYCE3		
ENSG00000100934	14	39491123	39588850	290	33	47496	-0.14449	0.55744	SEC23A		
ENSG00000118965	2	20100021	20199892	258	27	51076	-0.1446	0.55749	WDR35		
ENSG00000116574	1	228860824	228892416	113	15	41483	-0.14476	0.55755	RHOU		
ENSG00000100528	14	54883654	54918149	92	9	31844	-0.14486	0.55759	CNIH1		
ENSG00000144401	2	208435355	208500652	143	14	49898	-0.14509	0.55768	METTL21A		
ENSG00000106853	9	114302002	114372135	278	49	46587	-0.14512	0.55769	PTGR1		
ENSG00000108515	17	4841387	4870426	63	20	42319	-0.14523	0.55774	ENO3		
ENSG00000168959	11	88227744	88809113	1909	107	35127	-0.14542	0.55781	GRM5		
ENSG00000138039	2	48849428	48992880	603	79	47572	-0.14562	0.55789	LHCGR		
ENSG00000110375	11	118785873	118839269	165	33	48147	-0.1457	0.55792	UPK2		
ENSG00000182400	14	39607015	39649736	140	22	48882	-0.1459	0.558	TRAPPC6B		
ENSG00000143933	2	47377221	47413740	127	20	36949	-0.14593	0.55801	CALM2		
ENSG00000186318	11	117146402	117196975	122	31	48577	-0.14602	0.55805	BACE1		
ENSG00000250588	3	158670024	159625155	2296	196	44005	-0.14624	0.55814	IQCJ-SCHIP1		
ENSG00000143294	1	156710402	156780607	201	27	38948	-0.14655	0.55826	PRCC		
ENSG00000119661	14	74101578	74180435	271	26	30588	-0.14661	0.55828	DNAL1		
ENSG00000101189	20	61417805	61441945	102	22	47656	-0.14681	0.55836	MRGBP		
ENSG00000164587	5	149812753	149839319	93	8	52068	-0.14707	0.55846	RPS14		
ENSG00000253976	8	56037763	56064918	82	15	37349	-0.14749	0.55863	RP11-386G21.1		
ENSG00000180198	1	28822455	28875812	151	14	31781	-0.14761	0.55867	RCC1		
ENSG00000166295	10	73965787	74005618	82	13	32365	-0.14765	0.55869	ANAPC16		
ENSG00000136542	2	158104110	158180723	133	24	37360	-0.1477	0.55871	GALNT5		
ENSG00000266949	1	248892716	248913150	38	8	34528	-0.14774	0.55873	LYPD8		
ENSG00000197712	4	38859298	38957360	383	42	41918	-0.14815	0.55889	FAM114A1		
ENSG00000229415	14	36932493	36993034	116	30	40133	-0.1483	0.55895	SFTA3		
ENSG00000004059	7	127218399	127241759	65	14	39268	-0.14833	0.55896	ARF5		
ENSG00000249141	6	167261582	167379612	418	64	38367	-0.14842	0.55899	RP11-514O12.4		

ENSG00000135702	16	75552433	75579145	84	11	47889	-0.14856	0.55905	CHST5		
ENSG00000132016	19	13983161	14027265	96	6	27965	-0.14874	0.55912	C19orf57		
ENSG00000148357	9	133036882	133319510	555	115	43989	-0.14912	0.55927	HMCN2		
ENSG00000196419	22	42007123	42070044	126	19	34330	-0.14934	0.55936	XRCC6		
ENSG00000185940	11	1641033	1662160	177	27	53548	-0.14936	0.55937	KRTAP5-5		
ENSG00000164411	6	87982696	88048996	268	19	43373	-0.14939	0.55938	GJB7		
ENSG00000180044	3	159933423	159955999	55	17	33522	-0.14945	0.5594	C3orf80		
ENSG00000160224	21	45695721	45728531	174	31	44600	-0.14944	0.5594	AIRE		
ENSG00000157856	2	26614784	26689579	131	33	37014	-0.14951	0.55942	DRC1		
ENSG00000178904	19	32886449	32986801	257	34	42396	-0.14967	0.55949	DPY19L3		
ENSG00000168374	3	57547090	57593947	142	18	45095	-0.14976	0.55952	ARF4		
ENSG00000011028	17	60694762	60780958	148	29	41572	-0.14987	0.55957	MRC2		
ENSG00000088682	16	57471337	57505187	114	24	52595	-0.14993	0.55959	COQ9		
ENSG00000138386	2	191501472	191567492	183	23	46636	-0.15005	0.55964	NAB1		
ENSG00000165731	10	43562475	43635799	302	33	50497	-0.15011	0.55966	RET		
ENSG00000229474	15	44947930	45013514	55	24	43027	-0.15017	0.55969	PATL2		
ENSG00000161243	19	39471354	39533425	374	25	46586	-0.15022	0.55971	FBXO27		
ENSG00000104368	8	42022236	42075242	95	22	48163	-0.15036	0.55976	PLAT		
ENSG00000159708	16	67350701	67429106	106	18	44731	-0.15055	0.55983	LRRC36		
ENSG00000091592	17	5392747	5532744	674	48	46322	-0.15063	0.55987	NLRP1		
ENSG00000111252	12	111833752	111899427	55	13	48226	-0.15066	0.55988	SH2B3		
ENSG00000163492	2	179684484	179924813	777	96	42469	-0.15103	0.56002	CCDC141		
ENSG00000260415	12	52193789	52216636	55	12	35302	-0.15105	0.56003	AC068987.1		
ENSG00000273303	3	44597051	44645665	115	16	34160	-0.15111	0.56006	RP11-944L7.5		
ENSG00000130038	12	3705799	3883985	738	100	51147	-0.15166	0.56027	EFCAB4B		
ENSG00000105538	19	49213844	49253978	122	13	25633	-0.15228	0.56052	RASIP1		
ENSG00000129493	14	31750994	31899788	234	28	37231	-0.15235	0.56054	HEATR5A		
ENSG00000114115	3	139226276	139268671	143	21	33760	-0.15243	0.56058	RBP1		
ENSG00000135083	5	159668659	159782403	340	54	39853	-0.1525	0.5606	CCN1L		
ENSG00000153165	2	107011446	107094832	133	36	45751	-0.1526	0.56064	RGPD3		
ENSG00000134058	5	68520668	68583250	204	19	50759	-0.15261	0.56065	CDK7		
ENSG00000224051	1	1250136	1274277	67	16	38254	-0.15264	0.56066	GLTPD1		
ENSG00000177151	1	248791588	248812559	9	2	43523	-0.15264	0.56066	OR2T35		
ENSG00000138755	4	76912428	76938641	58	12	49732	-0.1528	0.56072	CXCL9		
ENSG00000162385	1	53682564	53714282	63	14	41186	-0.15281	0.56073	MAGOH		
ENSG00000142538	19	49915671	49936698	34	15	49972	-0.15313	0.56085	PTH2		

ENSG00000188984	1	12766118	12798726	117	16	47286	-0.15334	0.56094	AADACL3		
ENSG00000130477	19	17702137	17809401	427	90	41336	-0.15357	0.56103	UNC13A		
ENSG00000140553	15	91463410	91507323	142	22	39191	-0.15366	0.56106	UNC45A		
ENSG00000124523	6	13564816	13624790	109	17	50838	-0.15368	0.56107	SIRT5		
ENSG00000064102	12	27048114	27101259	150	28	53716	-0.15391	0.56116	ASUN		
ENSG00000127362	7	141453897	141474997	74	3	54512	-0.15415	0.56125	TAS2R3		
ENSG00000186501	1	27638651	27672891	74	17	49773	-0.15421	0.56128	TMEM222		
ENSG00000151388	5	33513640	33902297	1192	133	37510	-0.15461	0.56143	ADAMTS12		
ENSG00000070814	5	149727202	149789871	132	23	53965	-0.1546	0.56143	TCOF1		
ENSG00000120805	12	101776898	101811598	77	19	49000	-0.15481	0.56151	ARL1		
ENSG00000086544	19	41213008	41256765	135	19	52445	-0.1548	0.56151	ITPKC		
ENSG00000100596	14	77962340	78093116	590	69	47511	-0.15524	0.56168	SPTLC2		
ENSG00000140067	14	94375240	94405954	97	25	42629	-0.15528	0.5617	FAM181A		
ENSG00000167280	17	77061021	77094681	130	24	40335	-0.15552	0.56179	ENGASE		
ENSG00000177602	17	3617211	3640067	95	11	33447	-0.1556	0.56183	GSG2		
ENSG00000173769	3	44273378	44383590	252	16	44278	-0.15588	0.56194	TOPAZ1		
ENSG00000224940	7	127980379	128011739	63	20	45940	-0.15634	0.56212	PRRT4		
ENSG00000177989	22	50958139	50981009	95	20	48105	-0.15686	0.56232	ODF3B		
ENSG00000173917	17	46608256	46633441	66	14	45836	-0.15695	0.56236	HOXB2		
ENSG00000130764	1	3686784	3723068	202	27	45720	-0.15705	0.5624	LRRC47		
ENSG00000100442	14	45574803	45614522	57	9	31040	-0.15716	0.56244	FKBP3		
ENSG00000125903	20	197899	220527	88	13	42055	-0.15727	0.56248	DEFB129		
ENSG00000137815	15	41690606	41785761	229	25	41700	-0.15739	0.56253	RTF1		
ENSG00000139514	13	30073547	30179825	317	44	42118	-0.15743	0.56255	SLC7A1		
ENSG00000124578	6	26236886	26257259	58	10	46914	-0.1578	0.56269	HIST1H4G		
ENSG00000243147	2	27984584	28220954	402	29	28592	-0.15789	0.56273	MRPL33		
ENSG00000261130	16	15479611	15619205	316	48	43969	-0.15791	0.56273	RP11-1021N1.1		
ENSG00000168634	20	44320655	44347456	101	16	39265	-0.15799	0.56277	WFDC13		
ENSG00000189269	22	23940639	23984508	150	30	46506	-0.15811	0.56281	C22orf43		
ENSG00000107863	10	24862538	25022597	266	32	52545	-0.15869	0.56304	ARHGAP21		
ENSG00000168778	12	124145660	124202948	277	14	44408	-0.15868	0.56304	TCTN2		
ENSG00000181291	17	32897768	32976337	218	62	47773	-0.15905	0.56318	TMEM132E		
ENSG00000105072	19	16597122	16642163	143	21	43922	-0.15941	0.56333	C19orf44		
ENSG00000204842	12	111880018	112047480	129	20	46987	-0.15948	0.56336	ATXN2		
ENSG00000205496	11	4966002	4986943	87	13	51419	-0.15971	0.56344	OR51A2		
ENSG00000171862	10	89612870	89741687	196	41	54323	-0.1598	0.56348	PTEN		

ENSG00000128714	2	176947619	176970666	62	13	38969	-0.16004	0.56358	HOXD13		
ENSG00000165533	14	89280497	89354335	129	19	47161	-0.16008	0.56359	TTC8		
ENSG00000085872	19	16618700	16663341	105	22	45456	-0.1602	0.56364	CHERP		
ENSG00000077514	11	74194896	74390162	721	58	45754	-0.16024	0.56365	POLD3		
ENSG00000167107	17	48493519	48562206	172	25	42511	-0.16027	0.56367	ACSF2		
ENSG00000144120	2	120426743	120454083	127	12	44801	-0.16073	0.56385	TMEM177		
ENSG00000227729	14	104396763	104418645	118	9	52568	-0.1609	0.56391	RD3L		
ENSG00000072954	19	16761938	16810840	138	22	35548	-0.16098	0.56394	TMEM38A		
ENSG00000161594	17	39981937	40014636	114	8	52343	-0.161	0.56395	KLHL10		
ENSG00000130734	19	10644571	10674094	110	17	43228	-0.1613	0.56407	ATG4D		
ENSG00000137648	11	117937753	118002605	234	36	46657	-0.16139	0.56411	TMPRSS4		
ENSG00000128045	4	53718457	53743000	101	15	53513	-0.16147	0.56414	RASL11B		
ENSG00000205339	11	9396169	9479673	194	18	40794	-0.1617	0.56423	IPO7		
ENSG00000155158	9	15153620	15317358	616	87	44099	-0.16191	0.56431	TTC39B		
ENSG00000092148	14	31559318	31687010	166	23	45917	-0.16207	0.56437	HECTD1		
ENSG00000118513	6	135492453	135550311	119	23	46433	-0.16219	0.56442	MYB		
ENSG00000142583	1	9085166	9158537	309	39	48762	-0.16227	0.56445	SLC2A5		
ENSG00000189367	6	127751488	127790536	79	8	29657	-0.16226	0.56445	KIAA0408		
ENSG00000131652	16	3064028	3087756	66	12	54262	-0.16229	0.56446	THOC6		
ENSG00000139445	12	109705784	109757025	101	18	52699	-0.16235	0.56449	FOXN4		
ENSG00000205138	19	36476090	36497220	41	12	48641	-0.16245	0.56452	SDHAF1		
ENSG00000113721	5	149483400	149545435	210	44	45375	-0.16259	0.56458	PDGFRB		
ENSG00000144567	2	220030947	220060201	59	8	30643	-0.16295	0.56472	FAM134A		
ENSG00000143278	1	196998321	197046397	103	11	24543	-0.16311	0.56478	F13B		
ENSG00000269559	4	75013327	75034085	9	6	31203	-0.1631	0.56478	AC093677.1		
ENSG00000131370	3	15286360	15392875	298	58	43750	-0.16322	0.56483	SH3BP5		
ENSG00000112115	6	52041185	52065436	129	13	31980	-0.16347	0.56493	IL17A		
ENSG00000101342	20	35494524	35532638	103	23	41160	-0.16365	0.565	TLDC2		
ENSG00000269042	11	108120255	108146480	35	8	45187	-0.16376	0.56504	AP001925.1		
ENSG00000268040	21	47337679	47362477	85	13	33127	-0.1641	0.56517	PRED62		
ENSG00000161031	19	15569456	15619767	154	28	49660	-0.16415	0.56519	PGLYRP2		
ENSG00000227471	7	134223888	134274627	224	17	45064	-0.16427	0.56524	AKR1B15		
ENSG00000163914	3	129237483	129264012	52	12	38774	-0.16471	0.56541	RHO		
ENSG00000124357	2	71281474	71316935	148	20	49332	-0.1648	0.56545	NAGK		
ENSG00000187990	6	26206428	26226872	99	9	54114	-0.16494	0.5655	HIST1H2BG		
ENSG00000140538	15	88408230	88809999	936	125	45961	-0.16504	0.56554	NTRK3		

ENSG00000103489	16	17185626	17574738	1284	154	43340	-0.16516	0.56559	XYLT1		
ENSG00000131462	17	40751694	40777252	52	7	53673	-0.16535	0.56567	TUBG1		
ENSG00000205309	17	17196649	17260977	232	38	44415	-0.16555	0.56574	NT5M		
ENSG00000120306	5	139544227	139671637	289	18	53037	-0.16558	0.56576	CYSTM1		
ENSG00000139044	12	559530	682675	546	122	40657	-0.16565	0.56578	B4GALNT3		
ENSG00000139874	14	38667204	38692272	58	16	47748	-0.16566	0.56579	SSTR1		
ENSG00000236279	7	139198602	139239730	77	13	36916	-0.1659	0.56588	CLEC2L		
ENSG00000166961	11	60514426	60554205	91	41	45261	-0.16594	0.5659	MS4A15		
ENSG00000154229	17	64288754	64816861	1994	213	49434	-0.16597	0.56591	PRKCA		
ENSG00000137198	6	16228811	16305780	208	36	35729	-0.16599	0.56592	GMPR		
ENSG00000122591	7	22970878	23063749	309	25	54308	-0.16632	0.56605	FAM126A		
ENSG00000181804	3	142974064	143577373	2177	244	45781	-0.16727	0.56642	SLC9A9		
ENSG00000170837	3	71793201	71815647	65	17	42347	-0.1674	0.56647	GPR27		
ENSG00000075856	12	108906357	108965176	207	18	39356	-0.16763	0.56656	SART3		
ENSG00000125735	19	6653148	6680599	108	32	52238	-0.16763	0.56656	TNFSF14		
ENSG00000182985	11	115029938	115385675	714	103	37730	-0.16774	0.5666	CADM1		
ENSG00000125652	19	6362444	6385042	98	15	38317	-0.16774	0.56661	ALKBH7		
ENSG00000163902	3	128328817	128409918	276	23	54738	-0.16791	0.56667	RPN1		
ENSG00000178982	19	39099735	39137595	58	20	43047	-0.16795	0.56669	EIF3K		
ENSG00000065978	1	43138098	43178020	102	18	53692	-0.1681	0.56675	YBX1		
ENSG00000107816	10	102746375	102777593	76	13	35511	-0.16836	0.56685	LZTS2		
ENSG00000137090	9	831690	979090	869	109	37300	-0.1684	0.56687	DMRT1		
ENSG00000171174	2	27994231	28123965	230	19	27409	-0.16846	0.56689	RBKS		
ENSG00000148218	9	116138597	116173613	128	32	47490	-0.16852	0.56691	ALAD		
ENSG00000178055	3	46861032	46885585	66	11	32116	-0.16855	0.56692	PRSS42		
ENSG00000128340	22	37611301	37650488	207	25	49831	-0.16853	0.56692	RAC2		
ENSG00000109339	4	86926276	87525284	1904	106	40044	-0.1689	0.56706	MAPK10		
ENSG00000244509	22	39400088	39426357	82	21	45634	-0.16888	0.56706	APOBEC3C		
ENSG00000204188	6	33541515	33566803	111	19	40021	-0.16901	0.56711	GGNBP1		
ENSG00000213171	1	151762740	151788630	49	11	45905	-0.16958	0.56733	LINGO4		
ENSG00000119865	2	68501303	68557183	136	33	35111	-0.16976	0.5674	CNRIP1		
ENSG00000104081	15	40370091	40411093	78	24	44863	-0.16976	0.5674	BMF		
ENSG00000266714	17	73574139	73632929	289	45	44203	-0.16978	0.56741	MYO15B		
ENSG00000171603	1	9779084	9894584	178	32	38072	-0.1699	0.56746	CLSTN1		
ENSG00000100425	22	50156931	50231160	248	30	38661	-0.16995	0.56747	BRD1		
ENSG00000172775	16	57176378	57230028	115	21	45849	-0.17029	0.56761	FAM192A		

ENSG00000180287	1	242236288	242697998	2056	197	45759	-0.17039	0.56765	PLD5		
ENSG00000074855	19	17424032	17455638	126	17	45855	-0.17065	0.56775	ANO8		
ENSG00000197140	8	38954509	39152430	490	34	50176	-0.17076	0.56779	ADAM32		
ENSG00000104133	15	44844894	44965876	99	38	44739	-0.17103	0.5679	SPG11		
ENSG00000089775	14	64905824	64981931	223	21	54832	-0.17105	0.56791	ZBTB25		
ENSG00000198685	3	128280843	128304929	81	20	45869	-0.17119	0.56796	C3orf27		
ENSG00000170054	14	94919054	94956026	185	32	46707	-0.17122	0.56797	SERPINA9		
ENSG00000109079	17	26652628	26684035	39	10	47276	-0.17169	0.56816	TNFAIP1		
ENSG00000198546	10	135111979	135176033	212	27	33146	-0.17198	0.56827	ZNF511		
ENSG00000225899	10	135427399	135450299	69	12	27346	-0.17199	0.56828	FRG2B		
ENSG00000177706	7	182969	310711	397	75	41926	-0.17218	0.56835	FAM20C		
ENSG00000124508	6	26373324	26405102	167	20	40343	-0.17227	0.56839	BTN2A2		
ENSG00000070061	9	111619797	111706396	395	46	44612	-0.1724	0.56844	IKBKAP		
ENSG00000176422	12	56852301	56874763	40	11	44994	-0.17256	0.5685	SPRYD4		
ENSG00000180269	16	20032807	20095239	247	35	45640	-0.17258	0.56851	GPR139		
ENSG00000152207	13	49270951	49293498	57	17	44330	-0.17272	0.56856	CYSLTR2		
ENSG00000164902	5	125925960	125972944	168	22	30637	-0.17275	0.56858	PHAX		
ENSG00000147614	8	86989552	87176457	585	51	41570	-0.17293	0.56865	ATP6V0D2		
ENSG00000158077	11	7031677	7102539	307	24	49156	-0.1731	0.56871	NLRP14		
ENSG00000138735	4	120405550	120560146	532	29	55744	-0.17323	0.56877	PDE5A		
ENSG00000037042	17	40801323	40829024	54	7	54136	-0.17339	0.56883	TUBG2		
ENSG00000090402	3	164686686	164806283	304	20	46657	-0.17383	0.569	SI		
ENSG00000186976	22	43914624	44218217	1009	55	50927	-0.1739	0.56903	EFCAB6		
ENSG00000198894	14	77554440	77593630	91	17	49121	-0.17409	0.5691	CIPC		
ENSG00000139112	12	10355057	10385727	129	23	30526	-0.17434	0.5692	GABARAPL1		
ENSG00000254462	11	57470077	57569058	159	18	45524	-0.17488	0.56941	TMX2-CTNND1		
ENSG00000111247	12	4637950	4679214	88	18	45535	-0.17486	0.56941	RAD51AP1		
ENSG00000074803	15	48473861	48606275	167	20	32943	-0.17489	0.56942	SLC12A1		
ENSG00000255748	12	133777246	133797772	84	9	43933	-0.17498	0.56945	AC226150.4		
ENSG00000034510	2	85122749	85143795	68	10	38538	-0.17521	0.56954	TMSB10		
ENSG00000100097	22	38061615	38085813	72	17	51364	-0.17544	0.56963	LGALS1		
ENSG00000111886	6	89956927	90035018	306	66	43313	-0.17553	0.56967	GABRR2		
ENSG00000164308	5	96201643	96265420	358	22	52000	-0.17578	0.56977	ERAP2		
ENSG00000134551	12	11071835	11094940	78	11	47014	-0.17607	0.56988	PRH2		
ENSG00000215305	20	2811349	2857378	125	16	28215	-0.17616	0.56992	VPS16		
ENSG00000197081	6	160380131	160544539	445	65	43422	-0.17659	0.57009	IGF2R		

ENSG00000135636	2	71670852	71923898	893	160	44850	-0.17672	0.57014	DYSF		
ENSG00000130518	19	18357908	18395319	191	24	50115	-0.17672	0.57014	KIAA1683		
ENSG00000167553	12	49572519	49677114	220	40	40160	-0.17682	0.57017	TUBA1C		
ENSG00000269375	14	101349265	101370646	59	21	49748	-0.17694	0.57022	AL117190.3		
ENSG00000168447	16	23279552	23402620	327	68	42502	-0.1773	0.57036	SCNN1B		
ENSG00000179148	17	7989218	8032365	126	37	45304	-0.17735	0.57038	ALOXE3		
ENSG00000129455	19	51489263	51515967	103	14	38127	-0.17744	0.57042	KLK8		
ENSG00000184677	1	22768344	22867650	185	24	37006	-0.17768	0.57051	ZBTB40		
ENSG00000172159	9	85847905	86163461	1351	141	46833	-0.17776	0.57055	FRMD3		
ENSG00000176148	11	33050963	33137489	439	24	51861	-0.17819	0.57071	TCP11L1		
ENSG00000092208	14	39573427	39616177	151	23	45557	-0.17819	0.57071	GEMIN2		
ENSG00000162772	1	212728676	212804119	298	53	46245	-0.17834	0.57077	ATF3		
ENSG00000198315	6	28099688	28137250	135	12	47651	-0.17847	0.57082	ZKSCAN8		
ENSG00000171533	11	75287963	75390165	192	27	45956	-0.17861	0.57088	MAP6		
ENSG00000170454	12	52807854	52838309	119	16	47267	-0.17883	0.57096	KRT75		
ENSG00000184117	22	29940797	29987326	155	14	51441	-0.17881	0.57096	NIPSNAP1		
ENSG00000167414	19	47127333	47147942	78	16	51350	-0.17884	0.57097	GNG8		
ENSG00000105778	7	32525038	33088516	2194	84	46200	-0.17928	0.57114	AVL9		
ENSG00000180616	17	71151151	71177185	66	19	42126	-0.17952	0.57124	SSTR2		
ENSG00000169550	11	26570580	26603780	168	28	52494	-0.17967	0.57129	MUC15		
ENSG00000166569	18	56932388	56995881	223	31	48556	-0.17974	0.57132	CPLX4		
ENSG00000261221	19	56106771	56138635	72	22	52243	-0.17981	0.57135	ZNF865		
ENSG00000188001	3	188655003	189053093	820	117	38973	-0.18016	0.57149	TPRG1		
ENSG00000147526	8	38575704	38720546	329	40	52171	-0.18024	0.57152	TACC1		
ENSG00000186448	3	44616380	44699963	130	17	35721	-0.18027	0.57153	ZNF197		
ENSG00000182111	7	57499883	57543252	210	11	51706	-0.18043	0.57159	ZNF716		
ENSG00000260903	20	30545805	30601190	108	26	43936	-0.18088	0.57177	XKR7		
ENSG00000250486	4	165868100	165890273	62	12	44366	-0.18094	0.57179	FAM218A		
ENSG00000187122	10	98747795	98955677	608	97	39972	-0.181	0.57181	SLIT1		
ENSG00000141349	17	42138103	42163709	37	10	36079	-0.18097	0.57181	G6PC3		
ENSG00000170214	5	159333790	159409551	217	31	50758	-0.18154	0.57203	ADRA1B		
ENSG00000180660	13	36037926	36060832	47	16	48817	-0.18165	0.57207	MAB21L1		
ENSG00000158828	1	20949948	20988004	176	20	53640	-0.18173	0.5721	PINK1		
ENSG00000169087	3	122448846	122522671	280	30	47617	-0.18178	0.57212	HSPBAP1		
ENSG00000259024	17	15329338	15476875	362	40	45203	-0.18191	0.57217	TVP23C-CDRT4		
ENSG00000135049	9	88151455	88366944	688	37	47370	-0.182	0.57221	AGTPBP1		

ENSG00000152669	5	54516980	54539508	71	9	53318	-0.18207	0.57224	CCNO		
ENSG00000104886	19	2220002	2247703	88	22	40647	-0.18216	0.57227	PLEKHJ1		
ENSG00000115977	2	69678532	69911481	350	43	39655	-0.18218	0.57228	AAK1		
ENSG00000166363	11	6856883	6877936	148	8	52646	-0.18229	0.57232	OR10A5		
ENSG00000205464	5	81565281	81692796	259	31	41433	-0.1825	0.57241	ATP6AP1L		
ENSG00000163806	2	28995383	29083477	177	19	46766	-0.18255	0.57242	SPDYA		
ENSG00000131473	17	40013161	40096795	206	19	45962	-0.18256	0.57243	ACLY		
ENSG00000125170	16	57495863	57531239	109	25	52224	-0.18261	0.57245	DOK4		
ENSG00000143333	1	182557758	182583543	50	14	41892	-0.18293	0.57257	RGS16		
ENSG00000133858	12	71993252	72071505	130	14	45110	-0.18315	0.57266	ZFC3H1		
ENSG00000122483	1	93635476	93754287	317	27	40021	-0.18355	0.57282	CCDC18		
ENSG00000197329	2	64309786	64381588	203	25	44257	-0.1836	0.57284	PELI1		
ENSG00000141002	16	89930000	89987792	236	26	39645	-0.18361	0.57284	TCF25		
ENSG00000175518	11	5525623	5547935	77	17	43763	-0.18364	0.57285	UBQLNL		
ENSG00000103342	16	11951985	12019939	180	23	29829	-0.18364	0.57285	GSPT1		
ENSG00000214063	11	832808	877116	151	20	32190	-0.18365	0.57286	TSPAN4		
ENSG00000185198	19	675521	705460	196	33	46316	-0.18371	0.57288	PRSS57		
ENSG00000196476	20	241504	281390	203	37	43758	-0.18373	0.57289	C20orf96		
ENSG00000204365	10	29125337	29180827	231	27	33866	-0.18383	0.57293	C10orf126		
ENSG00000147485	8	52222138	52732005	2006	109	37839	-0.18406	0.57302	PXDNL		
ENSG00000166484	17	19271034	19296857	18	6	47429	-0.18408	0.57302	MAPK7		
ENSG00000100201	22	38869445	38913665	81	16	40164	-0.18406	0.57302	DDX17		
ENSG00000169857	15	34148428	34341377	728	82	37736	-0.18417	0.57306	AVEN		
ENSG00000103266	16	720224	742870	51	14	39591	-0.18418	0.57306	STUB1		
ENSG00000268891	7	74989908	75015425	2	1	34665	-0.18428	0.5731	AC006014.1		
ENSG00000155849	7	36883961	37498852	2127	220	44311	-0.18438	0.57314	ELMO1		
ENSG00000196209	20	1441386	1482233	130	22	32842	-0.18469	0.57326	SIRPB2		
ENSG00000148672	10	88800243	88864623	189	24	40157	-0.18484	0.57332	GLUD1		
ENSG00000174306	20	39797088	39956312	317	32	41685	-0.18491	0.57335	ZHX3		
ENSG00000004142	17	26663659	26694545	47	10	41456	-0.18513	0.57344	POLDIP2		
ENSG00000221888	1	247910676	247931982	70	13	39931	-0.18564	0.57364	OR1C1		
ENSG00000114646	3	47593729	47632282	51	11	33771	-0.18583	0.57371	CSPG5		
ENSG00000185345	6	161758452	163158803	5425	380	45537	-0.18589	0.57373	PARK2		
ENSG00000170412	17	72410990	72457792	164	25	31030	-0.18611	0.57382	GPRC5C		
ENSG00000143183	1	165686032	165806992	257	36	45456	-0.18617	0.57384	TMCO1		
ENSG00000180389	13	28509343	28529727	92	9	49971	-0.18616	0.57384	ATP5EP2		

ENSG00000089505	16	66590294	66623040	77	6	27499	-0.18621	0.57386	CMTM1		
ENSG00000167916	17	38844243	38870002	77	11	45783	-0.18635	0.57392	KRT24		
ENSG00000204634	2	101614079	101879328	710	84	52569	-0.18643	0.57395	TBC1D8		
ENSG00000166341	11	6632556	6687085	146	35	37607	-0.18653	0.57398	DCHS1		
ENSG00000185610	12	45398455	45454882	167	19	40914	-0.18661	0.57402	DBX2		
ENSG00000170819	3	133108839	133204066	361	69	44720	-0.18711	0.57421	BFSP2		
ENSG00000172292	2	169302372	169641644	1113	105	39176	-0.18729	0.57428	CERS6		
ENSG00000183011	17	7750003	7798556	132	25	37696	-0.18738	0.57432	LSMD1		
ENSG00000235568	22	42766416	42838401	273	41	43111	-0.18738	0.57432	NFAM1		
ENSG00000178184	18	77905115	78015429	330	32	39746	-0.18772	0.57445	PARD6G		
ENSG00000067900	18	18516867	18701812	145	26	38547	-0.18787	0.57451	ROCK1		
ENSG00000148942	11	26678566	26754974	301	52	47542	-0.18835	0.5747	SLC5A12		
ENSG00000167230	17	35722928	35759662	65	21	45990	-0.18852	0.57477	C17orf78		
ENSG00000214397	15	100245908	100268029	74	17	39505	-0.18876	0.57486	DKFZP779J2370		
ENSG00000183324	15	73725499	73862355	319	36	44647	-0.18907	0.57498	C15orf60		
ENSG00000134873	13	96075858	96242013	688	63	42928	-0.18934	0.57509	CLDN10		
ENSG00000134256	1	117534382	117589167	162	29	48949	-0.18982	0.57527	CD101		
ENSG00000124535	6	2755648	2797186	173	24	53253	-0.18983	0.57528	WRNIP1		
ENSG00000267270	18	77895807	77946315	181	23	41011	-0.18985	0.57529	AC139100.2		
ENSG00000215251	20	3117165	3150543	81	23	39314	-0.18989	0.5753	FASTKD5		
ENSG00000187773	18	72092963	72135179	124	34	47134	-0.19016	0.57541	FAM69C		
ENSG00000143196	1	168654697	168708502	259	38	44169	-0.19027	0.57545	DPT		
ENSG00000132698	1	156020951	156050295	38	17	41057	-0.19032	0.57547	RAB25		
ENSG00000152454	19	58442201	58469043	63	10	43095	-0.19039	0.5755	ZNF256		
ENSG00000165443	10	60926350	61017534	184	17	32935	-0.19081	0.57566	PHYHIPL		
ENSG00000171488	1	90088631	90245462	332	28	54038	-0.19101	0.57574	LRRC8C		
ENSG00000183801	11	7496619	7542608	214	30	51882	-0.19124	0.57583	OLFML1		
ENSG00000180638	17	19571601	19632292	201	29	50305	-0.1915	0.57593	SLC47A2		
ENSG00000111328	12	123735528	123766881	126	16	43718	-0.1916	0.57597	CDK2AP1		
ENSG00000159346	1	202899951	202937700	101	18	41693	-0.19172	0.57602	ADIPOR1		
ENSG00000130758	19	40687651	40731482	79	19	41665	-0.19182	0.57606	MAP3K10		
ENSG00000178307	17	21090593	21127937	90	20	47367	-0.19221	0.57621	TMEM11		
ENSG00000153902	19	35605417	35643355	108	15	53741	-0.19232	0.57625	LGI4		
ENSG00000163975	3	196705492	196766687	175	41	40792	-0.19269	0.5764	MFI2		
ENSG00000136870	9	104151155	104182942	118	17	50514	-0.19294	0.5765	ZNF189		
ENSG00000168065	11	64313098	64350347	51	11	35242	-0.19304	0.57653	SLC22A11		

ENSG00000135387	11	34063230	34132703	242	11	54263	-0.19305	0.57654	CAPRIN1		
ENSG00000042429	11	93507393	93557861	112	13	34762	-0.19328	0.57663	MED17		
ENSG00000197971	18	74680783	74855639	843	174	44539	-0.1933	0.57664	MBP		
ENSG00000213973	19	22929007	22976909	251	14	40645	-0.19386	0.57686	ZNF99		
ENSG00000164929	8	104142938	104252533	406	60	53769	-0.19395	0.57689	BAALC		
ENSG00000166351	21	14972498	15023906	3	2	32746	-0.194	0.57691	POTED		
ENSG00000116141	1	220691568	220847803	342	31	48603	-0.19404	0.57693	MARK1		
ENSG00000023228	2	206969541	207034327	216	18	38268	-0.19408	0.57694	NDUFS1		
ENSG00000100053	22	25585817	25613330	125	25	45864	-0.19411	0.57696	CRYBB3		
ENSG00000185306	12	64650217	64794972	415	34	39789	-0.1944	0.57707	C12orf56		
ENSG00000161914	19	11584242	11626738	136	19	36752	-0.19477	0.57721	ZNF653		
ENSG00000185149	4	156119781	156148230	102	20	38326	-0.19483	0.57724	NPY2R		
ENSG00000143185	1	168500003	168523235	97	16	39305	-0.19492	0.57727	XCL2		
ENSG00000080189	20	44968167	45003043	60	15	41271	-0.19493	0.57728	SLC35C2		
ENSG00000003436	2	188318957	188440487	353	47	51457	-0.19506	0.57733	TFPI		
ENSG00000175906	17	41466327	41488505	62	11	29238	-0.19521	0.57738	ARL4D		
ENSG00000268991	1	17050447	17070956	1	1	43638	-0.19525	0.5774	FAM231C		
ENSG00000212899	17	39139686	39160385	171	14	35292	-0.1953	0.57742	KRTAP3-3		
ENSG00000178171	2	131503008	131535707	52	14	34643	-0.19553	0.57751	AMER3		
ENSG00000186951	22	46536424	46649653	279	50	40201	-0.19587	0.57765	PPARA		
ENSG00000165204	9	125552370	125573395	52	12	38719	-0.1961	0.57773	OR1K1		
ENSG00000216921	2	242826136	242854702	109	16	29867	-0.19622	0.57778	AC131097.4		
ENSG00000162913	1	228381207	228411365	76	11	50646	-0.19657	0.57792	C1orf145		
ENSG00000189120	17	45912279	45943240	95	20	41730	-0.19669	0.57797	SP6		
ENSG00000032742	13	21130585	21275503	463	32	43497	-0.19677	0.57799	IFT88		
ENSG00000066248	2	233733396	233887982	669	93	45503	-0.19693	0.57806	NGEF		
ENSG00000154920	17	48440581	48468844	101	12	48058	-0.19694	0.57806	EME1		
ENSG00000136546	2	167250083	167360757	330	36	53655	-0.19701	0.57809	SCN7A		
ENSG00000137807	15	69696585	69750764	54	15	33442	-0.19707	0.57811	KIF23		
ENSG00000163288	4	46985740	47438461	1268	124	49988	-0.19719	0.57816	GABRB1		
ENSG00000103145	16	3062621	3084287	56	11	54528	-0.19755	0.5783	HCFC1R1		
ENSG00000043514	1	40296723	40359183	174	22	48449	-0.19774	0.57838	TRIT1		
ENSG00000196979	9	132892889	132916498	116	21	38615	-0.19783	0.57841	AL360004.1		
ENSG00000249860	10	57348750	57370488	68	8	46429	-0.19803	0.57849	MTRNR2L5		
ENSG00000187109	12	76428670	76488813	89	17	41662	-0.19817	0.57855	NAP1L1		
ENSG00000137745	11	102803724	102836463	103	19	51792	-0.19883	0.5788	MMP13		

ENSG00000182118	1	231144704	231185992	200	41	44310	-0.19886	0.57881	FAM89A		
ENSG00000268482	9	35351056	35371262	28	8	47926	-0.19915	0.57893	AL160274.1		
ENSG00000175106	17	15331205	15476909	360	39	45136	-0.19918	0.57894	TVP23C		
ENSG00000181786	19	8797751	8819172	71	12	37816	-0.1993	0.57899	ACTL9		
ENSG00000169752	15	76218310	76362136	334	19	40777	-0.1996	0.5791	NRG4		
ENSG00000188542	2	241489471	241513431	70	18	52257	-0.19979	0.57918	DUSP28		
ENSG00000141425	18	33554350	33657539	240	24	52979	-0.1998	0.57918	RPRD1A		
ENSG00000233816	9	21357371	21378075	89	12	52153	-0.20048	0.57945	IFNA13		
ENSG00000204178	1	25747388	25836700	153	10	25092	-0.20067	0.57952	TMEM57		
ENSG00000128709	2	176977088	176999853	48	15	42418	-0.20068	0.57952	HOXD9		
ENSG00000197535	15	52589480	52831247	703	27	45994	-0.20067	0.57952	MYO5A		
ENSG00000268790	19	16678453	16780926	241	39	45939	-0.20074	0.57955	CTC-429P9.4		
ENSG00000135439	12	58108980	58145940	56	17	43681	-0.20076	0.57956	AGAP2		
ENSG00000261739	15	23589895	23622378	11	7	40285	-0.20095	0.57963	GOLGA8S		
ENSG00000176302	11	118832417	118862001	102	13	54180	-0.20178	0.57995	FOXR1		
ENSG00000110799	12	6048040	6243936	785	102	40417	-0.20204	0.58006	VWF		
ENSG00000152229	18	43553502	43662238	363	31	34662	-0.20221	0.58012	PSTPIP2		
ENSG00000186038	3	183804852	183834783	85	13	44256	-0.20245	0.58022	HTR3E		
ENSG00000140043	14	74308547	74363530	221	15	44335	-0.20244	0.58022	PTGR2		
ENSG00000125398	17	70107161	70132561	54	12	31877	-0.20245	0.58022	SOX9		
ENSG00000119844	2	64741465	64830139	181	16	40748	-0.2025	0.58024	AFTPH		
ENSG00000268470	17	76484911	76509138	156	32	51912	-0.20261	0.58028	DNAH17-AS1		
ENSG00000154143	11	124471386	124500252	31	16	48714	-0.20279	0.58035	PANX3		
ENSG00000138675	4	81177753	81267834	263	44	35824	-0.20306	0.58046	FGF5		
ENSG00000136717	2	127795603	127874931	378	53	52779	-0.20327	0.58054	BIN1		
ENSG00000248727	5	55743622	55787773	246	36	42413	-0.20339	0.58058	CTC-236F12.4		
ENSG00000175538	11	74155886	74188774	92	20	51233	-0.20341	0.58059	KCNE3		
ENSG00000198719	6	170581294	170609561	80	23	41481	-0.20355	0.58065	DLL1		
ENSG00000107021	9	131539483	131582711	142	17	41483	-0.20365	0.58069	TBC1D13		
ENSG00000181894	19	58627619	58676477	203	21	38114	-0.20386	0.58077	ZNF329		
ENSG00000157557	21	40167231	40206879	142	14	36989	-0.20389	0.58078	ETS2		
ENSG00000148481	10	15810169	15912519	132	25	36396	-0.204	0.58082	FAM188A		
ENSG00000146281	6	89845769	89885284	136	15	42459	-0.20426	0.58093	PM20D2		
ENSG00000165887	10	99322198	99353641	77	17	41308	-0.20429	0.58094	ANKRD2		
ENSG00000174469	7	145803453	148128090	9186	404	44336	-0.20462	0.58106	CNTNAP2		
ENSG00000143702	1	243277730	243428650	258	28	42477	-0.20492	0.58118	CEP170		

ENSG00000180479	19	38035684	38095673	145	16	34490	-0.20531	0.58133	ZNF571		
ENSG00000204385	6	31820969	31856823	122	28	34165	-0.20594	0.58158	SLC44A4		
ENSG00000167741	17	4450222	4474113	88	26	49355	-0.20606	0.58163	GGT6		
ENSG00000182931	20	44303292	44343658	135	17	42262	-0.20633	0.58173	WFDC10B		
ENSG00000165943	14	93638541	93661273	71	19	47561	-0.20684	0.58193	MOAP1		
ENSG00000181036	1	159760301	159796041	122	18	42908	-0.20704	0.58201	FCRL6		
ENSG00000140749	16	21642609	21673981	50	18	37348	-0.20721	0.58208	IGSF6		
ENSG00000249693	4	57386775	57479673	338	53	41810	-0.20728	0.5821	THEGL		
ENSG00000130244	19	38883775	38909728	113	15	50268	-0.20735	0.58213	FAM98C		
ENSG00000081148	3	100931390	101049404	247	21	46525	-0.2075	0.58219	IMPG2		
ENSG00000164180	5	87475450	87575293	180	27	44610	-0.20753	0.5822	TMEM161B		
ENSG00000104221	8	37690786	37717422	40	12	52564	-0.20791	0.58235	BRF2		
ENSG00000121879	3	178855902	178967881	343	31	40261	-0.208	0.58238	PIK3CA		
ENSG00000168333	8	49956870	49998649	95	14	43326	-0.20831	0.58251	C8orf22		
ENSG00000179038	11	66953391	66974638	19	9	38634	-0.20843	0.58255	AP001885.1		
ENSG00000133195	17	70632088	71098851	1742	213	42045	-0.2085	0.58258	SLC39A11		
ENSG00000162591	1	3396484	3538059	579	117	42455	-0.2088	0.5827	MEGF6		
ENSG00000224712	16	14792801	14830195	1	1	44444	-0.20881	0.5827	NPIPA3		
ENSG00000204532	19	56703670	56730821	183	28	41707	-0.20894	0.58275	ZSCAN5C		
ENSG00000002746	7	43142198	43615600	1574	178	46234	-0.20897	0.58276	HECW1		
ENSG00000255359	11	22858477	22891972	114	14	45257	-0.2093	0.58289	CCDC179		
ENSG00000150773	11	111924734	111954998	46	11	34352	-0.2096	0.58301	PIH1D2		
ENSG00000138378	2	191884302	192026322	305	48	46110	-0.20979	0.58308	STAT4		
ENSG00000176566	8	88872973	88896296	37	13	45449	-0.20981	0.58309	DCAF4L2		
ENSG00000258653	14	74308674	74408981	402	23	41417	-0.20994	0.58314	RP5-1021I20.4		
ENSG00000182379	12	57600578	57630232	46	13	41408	-0.21	0.58317	NXPH4		
ENSG00000197168	13	52601093	52713214	286	25	38687	-0.21006	0.58319	NEK5		
ENSG00000168005	11	63570860	63605190	73	16	33462	-0.21045	0.58334	C11orf84		
ENSG00000086065	9	33254940	33291977	43	9	48847	-0.21077	0.58347	CHMP5		
ENSG00000183671	2	207030040	207092771	189	29	50127	-0.21087	0.58351	GPR1		
ENSG00000186272	19	57912531	57943307	66	13	47619	-0.21095	0.58354	ZNF17		
ENSG00000185974	13	114311470	114450708	125	20	41461	-0.21135	0.58369	GRK1		
ENSG00000065526	1	16164359	16276955	222	27	50302	-0.21169	0.58383	SPEN		
ENSG00000132406	4	4227269	4259950	199	14	51778	-0.21196	0.58393	TMEM128		
ENSG00000104408	8	109203445	109457562	894	52	41208	-0.21215	0.584	EIF3E		
ENSG00000166153	12	100587447	100670857	199	34	45443	-0.21214	0.584	DEPDC4		

ENSG00000172742	11	59272386	59293330	34	6	55471	-0.21218	0.58402	OR4D9		
ENSG00000017797	18	9465007	9548114	326	39	47436	-0.21234	0.58408	RALBP1		
ENSG00000114487	3	108667086	108846989	641	35	47389	-0.21238	0.58409	MORC1		
ENSG00000136933	9	127952821	128006437	142	19	50139	-0.21239	0.5841	RABEPK		
ENSG00000171236	19	4526421	4550486	68	17	37574	-0.21262	0.58419	LRG1		
ENSG00000165973	11	20681117	21607227	3472	320	44453	-0.21297	0.58432	NELL1		
ENSG00000103876	15	80434832	80489288	207	31	52904	-0.21303	0.58435	FAH		
ENSG00000131127	4	321603	388653	275	21	42499	-0.21316	0.5844	ZNF141		
ENSG00000213199	7	150735379	150759843	54	15	54839	-0.21335	0.58447	ASIC3		
ENSG00000176387	16	67454555	67481456	32	13	45514	-0.21354	0.58455	HSD11B2		
ENSG00000127884	10	135165984	135197193	129	16	28951	-0.21364	0.58459	ECCHS1		
ENSG00000124571	6	43480072	43553812	129	17	41184	-0.21369	0.58461	XPO5		
ENSG00000158486	16	20934433	21180762	736	76	52438	-0.21376	0.58463	DNAH3		
ENSG00000121579	3	113425307	113475147	75	8	50046	-0.2138	0.58465	NAA50		
ENSG00000186642	11	72277185	72395635	358	47	45592	-0.2138	0.58465	PDE2A		
ENSG00000154645	21	19263580	19649690	1216	139	40551	-0.21435	0.58486	CHODL		
ENSG00000176142	3	119138347	119197677	196	21	54083	-0.21445	0.5849	TMEM39A		
ENSG00000198390	21	31758392	31779136	47	9	52855	-0.21463	0.58497	KRTAP13-1		
ENSG00000183155	1	202838085	202868263	80	12	48744	-0.2148	0.58504	RABIF		
ENSG00000179097	3	88029846	88052919	61	9	48385	-0.21487	0.58506	HTR1F		
ENSG00000152380	5	79773788	79848382	191	31	43083	-0.21493	0.58509	FAM151B		
ENSG00000182473	17	74067087	74127657	152	19	40873	-0.21509	0.58515	EXOC7		
ENSG00000182132	5	169770491	170173636	1387	218	45618	-0.21515	0.58518	KCNIP1		
ENSG00000173409	1	231104727	231146341	171	18	45116	-0.21523	0.5852	ARV1		
ENSG00000113302	5	158731791	158767895	78	13	52721	-0.21541	0.58528	IL12B		
ENSG00000173546	15	75956663	76015189	112	19	42754	-0.21563	0.58536	CSPG4		
ENSG00000157456	15	59387277	59427244	81	12	48106	-0.21577	0.58542	CCNB2		
ENSG00000187581	14	93803537	93824702	105	10	32993	-0.21589	0.58546	COX8C		
ENSG00000090857	16	70137529	70205203	66	11	40717	-0.21593	0.58548	PDPR		
ENSG00000179168	19	38864905	38888722	75	10	50318	-0.21652	0.58571	GGN		
ENSG00000204682	10	21771587	21796191	28	9	47629	-0.21654	0.58572	CASC10		
ENSG00000234776	11	45918085	45938833	23	8	54640	-0.21664	0.58576	C11orf94		
ENSG00000189152	17	19020782	19072489	6	3	43590	-0.21685	0.58584	GRAPL		
ENSG00000262180	1	186359704	186380587	51	14	53512	-0.21689	0.58585	OCLM		
ENSG00000148584	10	52549169	52655435	184	32	42409	-0.21709	0.58593	A1CF		
ENSG00000172673	6	128019217	128249776	515	59	45565	-0.21731	0.58602	THEMIS		

ENSG00000168765	1	110188703	110218118	87	17	48797	-0.21736	0.58603	GSTM4		
ENSG00000164362	5	1243262	1305184	156	55	45333	-0.21734	0.58603	TERT		
ENSG00000110887	12	109242708	109304819	182	35	33854	-0.21741	0.58606	DAO		
ENSG00000186442	12	53173469	53199901	93	23	38754	-0.21765	0.58615	KRT3		
ENSG00000128250	22	29824572	29848444	83	13	51171	-0.21783	0.58622	RFPL1		
ENSG00000143466	1	206633791	206680223	164	37	44467	-0.21795	0.58627	IKBKE		
ENSG00000154478	10	125415871	125464123	177	36	49348	-0.218	0.58628	GPR26		
ENSG00000214960	7	16120817	16470947	1226	91	43187	-0.21808	0.58632	ISPD		
ENSG00000081181	14	68076515	68128437	121	18	36319	-0.21809	0.58632	ARG2		
ENSG00000172845	2	174761187	174840430	281	30	52044	-0.21884	0.58661	SP3		
ENSG00000166783	16	15678243	15747023	150	35	43167	-0.21885	0.58662	KIAA0430		
ENSG00000123405	12	54675895	54704905	36	14	37896	-0.21889	0.58663	NFE2		
ENSG00000187624	17	250118	283510	123	27	41573	-0.21891	0.58664	C17orf97		
ENSG00000100292	22	35766354	35800207	114	19	43873	-0.21916	0.58674	HMOX1		
ENSG00000254019	8	142254664	142276916	71	13	52165	-0.21925	0.58677	RP11-10J21.3		
ENSG00000204700	6	29131311	29152351	127	14	33381	-0.21973	0.58696	OR2J2		
ENSG00000076108	12	56979380	57040600	80	23	44161	-0.21973	0.58696	BAZ2A		
ENSG00000224383	17	62065711	62091664	37	15	48901	-0.21979	0.58698	C17orf72		
ENSG00000187258	7	34687851	34927944	971	95	47437	-0.22013	0.58711	NPSR1		
ENSG00000120896	8	22392499	22443301	95	28	47148	-0.22014	0.58712	SORBS3		
ENSG00000176974	17	18221187	18276856	181	18	51485	-0.22024	0.58716	SHMT1		
ENSG00000101052	20	42209571	42285936	234	16	53617	-0.22096	0.58744	IFT52		
ENSG00000006453	7	97910963	98040380	377	20	29158	-0.22117	0.58752	BAIAP2L1		
ENSG00000163660	3	156854297	156888549	111	12	50297	-0.22124	0.58755	CCNL1		
ENSG00000145996	6	20524688	21242635	2503	178	49772	-0.22131	0.58757	CDKAL1		
ENSG00000073861	17	45800610	45833485	100	17	55013	-0.22133	0.58758	TBX21		
ENSG00000234829	9	21217242	21238221	127	10	44062	-0.22146	0.58763	IFNA17		
ENSG00000186918	8	28193102	28270218	124	24	40333	-0.2216	0.58769	ZNF395		
ENSG00000121594	3	119233140	119288449	242	31	38765	-0.22164	0.5877	CD80		
ENSG00000075407	10	38373264	38424472	207	12	54596	-0.22181	0.58777	ZNF37A		
ENSG00000269476	19	58378133	58437959	170	24	45434	-0.22205	0.58786	CTD-2583A14.9		
ENSG00000163689	3	58693092	59045810	584	41	35052	-0.22218	0.58791	C3orf67		
ENSG00000140391	15	77326359	77386326	80	16	42283	-0.22218	0.58791	TSPAN3		
ENSG00000272410	3	10281056	10337480	165	26	35682	-0.22235	0.58798	RP11-438J1.1		
ENSG00000143319	1	156681683	156708591	58	18	41539	-0.22247	0.58803	ISG20L2		
ENSG00000116785	1	196733925	196773203	13	8	40026	-0.22313	0.58828	CFHR3		

ENSG00000158428	2	219211579	219242822	102	20	45978	-0.22323	0.58832	<i>C2orf62</i>		
ENSG00000168092	11	117004983	117057610	181	25	40741	-0.22352	0.58843	<i>PAFAH1B2</i>		
ENSG00000196646	19	12263879	12310064	89	16	38616	-0.22367	0.58849	<i>ZNF136</i>		
ENSG00000182851	8	144285068	144309044	109	18	49129	-0.22378	0.58854	<i>GPIHBP1</i>		
ENSG00000166200	15	49388268	49457858	199	26	39663	-0.22391	0.58859	<i>COPS2</i>		
ENSG00000164109	4	120966763	120998229	102	18	52548	-0.224	0.58862	<i>MAD2L1</i>		
ENSG00000168274	6	26207165	26227711	98	9	54085	-0.22403	0.58863	<i>HIST1H2AE</i>		
ENSG00000136940	9	125550668	125600910	99	23	42335	-0.22432	0.58875	<i>PDCL</i>		
ENSG00000151422	5	108073523	108542542	1996	104	52532	-0.22436	0.58876	<i>FER</i>		
ENSG00000179833	2	64848755	64988139	295	37	48283	-0.22439	0.58877	<i>SERTAD2</i>		
ENSG00000258987	14	94395901	94420475	85	13	39411	-0.22439	0.58877	<i>RP11-131H24.4</i>		
ENSG00000159445	1	151836060	151892284	144	15	45031	-0.22454	0.58883	<i>THEM4</i>		
ENSG00000141497	17	4633319	4659411	93	25	47957	-0.22469	0.58889	<i>ZMYND15</i>		
ENSG00000171700	20	62694534	62721323	73	17	48980	-0.22468	0.58889	<i>RGS19</i>		
ENSG00000255062	11	126154193	126184213	102	19	40607	-0.22473	0.58891	<i>RP11-712L6.5</i>		
ENSG00000173465	11	65327901	65351413	42	10	47440	-0.22487	0.58896	<i>SSSCA1</i>		
ENSG00000115484	2	62085224	62125939	139	18	53786	-0.22514	0.58906	<i>CCT4</i>		
ENSG00000139194	12	7266280	7291538	67	16	47170	-0.2253	0.58913	<i>RBP5</i>		
ENSG00000105366	19	51944101	51971710	61	15	43049	-0.22575	0.5893	<i>SIGLEC8</i>		
ENSG00000213648	16	29457127	29486300	1	1	43583	-0.226	0.5894	<i>SULT1A4</i>		
ENSG00000258150	16	29466288	29489154	1	1	43583	-0.226	0.5894	<i>RP11-345J4.3</i>		
ENSG00000166634	18	61213393	61244244	89	10	27721	-0.22603	0.58941	<i>SERPINB12</i>		
ENSG00000130675	7	156776745	156813345	150	34	42023	-0.22609	0.58944	<i>MNX1</i>		
ENSG00000135506	12	58077738	58125340	97	13	39464	-0.22621	0.58948	<i>OS9</i>		
ENSG00000088854	20	3219951	3398272	733	34	54967	-0.22635	0.58953	<i>C20orf194</i>		
ENSG00000136783	9	107499969	107532403	110	21	45670	-0.2265	0.58959	<i>NIPSNAP3A</i>		
ENSG00000156968	16	15479611	15517125	125	25	47164	-0.22654	0.58961	<i>MPV17L</i>		
ENSG00000158747	1	19957048	19994945	142	32	47988	-0.22656	0.58962	<i>NBL1</i>		
ENSG00000144504	2	241408839	241518626	408	63	50062	-0.2266	0.58963	<i>ANKMY1</i>		
ENSG00000148346	9	130901350	130925734	46	13	33912	-0.22676	0.58969	<i>LCN2</i>		
ENSG00000100564	14	68038672	68077004	145	26	41431	-0.22687	0.58974	<i>PIGH</i>		
ENSG00000198792	22	38605298	38679040	191	34	44680	-0.22701	0.58979	<i>TMEM184B</i>		
ENSG00000160882	8	143943772	143971262	122	12	30366	-0.22725	0.58989	<i>CYP11B1</i>		
ENSG00000165185	9	115239127	115441677	515	49	51458	-0.22779	0.5901	<i>KIAA1958</i>		
ENSG00000115266	19	1436300	1483243	110	34	41328	-0.2283	0.59029	<i>APC2</i>		
ENSG00000166118	11	133700526	133725433	95	8	51167	-0.22856	0.59039	<i>SPATA19</i>		

ENSG00000229314	9	117075336	117098755	53	20	47696	-0.22861	0.59041	ORM1		
ENSG00000180448	19	1055922	1096627	189	37	44440	-0.22865	0.59043	HMHA1		
ENSG00000105186	19	33077913	33177503	522	45	38915	-0.22942	0.59073	ANKRD27		
ENSG0000010310	19	46161502	46196982	136	19	51881	-0.22957	0.59079	GIPR		
ENSG00000188710	9	133758815	133779225	89	22	39215	-0.2296	0.5908	QRFP		
ENSG00000166847	16	23642713	23691195	162	14	36266	-0.23003	0.59096	DCTN5		
ENSG00000167840	17	4998836	5036411	109	24	41596	-0.23003	0.59097	ZNF232		
ENSG00000142546	19	50048968	50103519	140	22	38701	-0.2301	0.59099	NOSIP		
ENSG00000141568	17	80467589	80612538	666	84	47847	-0.23026	0.59105	FOXK2		
ENSG00000171103	2	29062687	29103167	87	14	50595	-0.23055	0.59117	TRMT61B		
ENSG00000139540	12	56613833	56641630	31	8	45964	-0.23058	0.59118	SLC39A5		
ENSG00000075089	12	100582900	100645643	171	28	43760	-0.23075	0.59125	ACTR6		
ENSG00000086666	15	80341910	80440735	234	28	47806	-0.23079	0.59126	ZFAND6		
ENSG00000163032	2	17710393	17848285	509	35	44311	-0.23137	0.59149	VSNL1		
ENSG00000163083	2	121093719	121119384	60	15	31760	-0.23138	0.59149	INHBB		
ENSG00000231068	21	32080843	32101095	67	5	44517	-0.23152	0.59155	KRTAP21-3		
ENSG00000100726	16	1533345	1570458	202	39	39770	-0.23163	0.59159	TELO2		
ENSG00000154646	21	19631433	19868197	840	124	42863	-0.23171	0.59162	TMPRSS15		
ENSG00000070269	14	56945072	57127324	698	96	41909	-0.23178	0.59164	TMEM260		
ENSG00000177707	3	110778918	111004410	511	65	46222	-0.23185	0.59167	PVRL3		
ENSG00000162493	1	13899960	13954452	175	43	41252	-0.23201	0.59174	PDPN		
ENSG00000254535	4	135107488	135132903	51	12	34616	-0.23203	0.59174	PABPC4L		
ENSG00000198286	7	2935775	3093579	698	139	45870	-0.23206	0.59176	CARD11		
ENSG00000077616	11	89854683	89936062	401	26	41659	-0.23214	0.59179	NAALAD2		
ENSG00000159398	16	55870066	55999943	387	61	42777	-0.23244	0.5919	CES5A		
ENSG00000104899	19	2239308	2262072	79	28	41274	-0.23242	0.5919	AMH		
ENSG00000185361	19	4629530	4665580	136	25	43119	-0.23252	0.59193	TNFAIP8L1		
ENSG00000154529	9	43674902	43934049	21	8	42656	-0.23264	0.59198	CNTNAP3B		
ENSG00000185686	22	22880123	22911768	143	17	35349	-0.23292	0.59209	PRAME		
ENSG00000128536	7	105507242	105686877	681	128	47973	-0.23315	0.59218	CDHR3		
ENSG00000168589	16	80564631	80594657	128	15	33923	-0.23322	0.5922	DYNLRB2		
ENSG00000118816	4	77958311	78007158	105	23	41283	-0.23345	0.59229	CCNI		
ENSG00000171476	4	57504155	57558065	225	39	40703	-0.23372	0.5924	HOPX		
ENSG00000148826	10	134588297	134609556	59	19	50484	-0.23416	0.59257	NKX6-2		
ENSG00000117625	1	211421719	211499727	285	35	46935	-0.23425	0.59261	RCOR3		
ENSG00000197385	3	32013263	32043120	103	13	25298	-0.23451	0.5927	ZNF860		

ENSG00000228474	2	27283340	27304641	35	9	41514	-0.23462	0.59275	OST4		
ENSG00000179562	7	127210672	127243665	81	17	38520	-0.23484	0.59284	GCC1		
ENSG00000197635	2	162838751	162941052	257	43	40967	-0.23511	0.59294	DPP4		
ENSG00000131059	20	31795116	31825564	48	9	45225	-0.23527	0.593	BPIFA3		
ENSG00000197599	16	1474384	1504557	168	27	44735	-0.23537	0.59304	CCDC154		
ENSG00000147586	8	80820952	80952524	201	32	47548	-0.23559	0.59312	MRPS28		
ENSG00000176922	11	4859427	4880514	82	12	49368	-0.23586	0.59323	OR51S1		
ENSG00000066455	14	93250576	93316308	280	18	50057	-0.23598	0.59328	GOLGA5		
ENSG00000158402	5	137610954	137684044	176	22	47203	-0.2362	0.59336	CDC25C		
ENSG00000154783	3	14850469	14985895	625	57	49414	-0.23662	0.59353	FGD5		
ENSG00000099785	19	8468154	8513901	165	33	41969	-0.23725	0.59377	Mar-02		
ENSG00000127366	7	141480017	141501166	54	4	51021	-0.2376	0.5939	TAS2R5		
ENSG00000074356	17	3704460	3759545	156	30	40678	-0.2379	0.59402	C17orf85		
ENSG00000167232	19	23477793	23588362	387	25	45510	-0.2379	0.59402	ZNF91		
ENSG00000162365	1	47593107	47625413	120	12	36992	-0.23795	0.59404	CYP4A22		
ENSG00000134852	4	56284070	56423305	576	25	50015	-0.23794	0.59404	CLOCK		
ENSG00000116745	1	68884505	68925642	135	24	40047	-0.23798	0.59405	RPE65		
ENSG00000196345	3	44586685	44634975	129	15	31691	-0.23801	0.59406	ZKSCAN7		
ENSG00000164742	7	45603739	45772715	542	79	47139	-0.23804	0.59407	ADCY1		
ENSG00000122641	7	41714712	41752706	50	14	53237	-0.23808	0.59409	INHBA		
ENSG00000142513	19	51283672	51308481	128	19	47880	-0.23869	0.59433	ACPT		
ENSG00000119725	14	74343320	74409214	257	19	37779	-0.23892	0.59442	ZNF410		
ENSG00000116194	1	178808840	178850187	88	16	39840	-0.23907	0.59447	ANGPTL1		
ENSG00000116649	1	11104641	11130081	62	8	27359	-0.23926	0.59455	SRM		
ENSG00000091157	18	54308574	54708828	1128	92	45020	-0.23932	0.59457	WDR7		
ENSG00000130396	6	168217602	168382703	509	39	44944	-0.23966	0.5947	MLLT4		
ENSG00000144320	2	176778620	176877567	296	32	49079	-0.23979	0.59475	KIAA1715		
ENSG00000018869	19	56877413	56914914	121	33	44835	-0.23977	0.59475	ZNF582		
ENSG00000160888	19	13251229	13275722	56	13	38084	-0.23992	0.5948	IER2		
ENSG00000053524	3	182885831	183156566	851	100	40229	-0.23996	0.59482	MCF2L2		
ENSG00000165233	9	95848500	95885565	128	21	34462	-0.24002	0.59484	C9orf89		
ENSG00000127720	12	82742276	82883015	378	20	41298	-0.24014	0.59489	METTL25		
ENSG00000076826	19	7650788	7693190	117	24	48376	-0.24068	0.5951	CAMSAP3		
ENSG00000269305	9	4849120	4869260	96	16	48695	-0.24077	0.59514	AL158147.2		
ENSG00000089006	20	17912241	17959623	179	15	54589	-0.24078	0.59514	SNX5		
ENSG00000173868	17	47290724	47318128	80	19	45669	-0.24102	0.59523	PHOSPHO1		

ENSG00000006555	1	55235385	55276940	138	29	51246	-0.24113	0.59527	TTC22		
ENSG00000161652	19	50645805	50676452	83	18	50128	-0.24116	0.59528	IZUMO2		
ENSG00000102781	13	30766767	30891621	459	68	53912	-0.24172	0.5955	KATNAL1		
ENSG00000163104	4	95118762	95222443	260	17	51594	-0.24174	0.59551	SMARCAD1		
ENSG00000119185	2	9533604	9573676	109	18	35385	-0.24202	0.59562	ITGB1BP1		
ENSG00000120337	1	172999100	173030103	64	13	36065	-0.24208	0.59564	TNFSF18		
ENSG00000084072	1	40147854	40239586	297	59	48379	-0.24255	0.59582	PPIE		
ENSG00000109193	4	70666498	70735870	209	31	40712	-0.24274	0.5959	SULT1E1		
ENSG00000140326	15	43005757	43039324	65	8	24586	-0.24336	0.59614	CDAN1		
ENSG00000254827	11	2899010	2934970	119	30	47688	-0.24344	0.59617	SLC22A18AS		
ENSG00000164934	8	104416942	104465681	149	12	54611	-0.24349	0.59619	DCAF13		
ENSG00000197299	15	91250558	91368859	390	31	45639	-0.24356	0.59621	BLM		
ENSG00000187559	9	70907276	70930000	1	1	55924	-0.24456	0.5966	FOXD4L3		
ENSG00000108786	17	40691232	40717231	71	12	51245	-0.24458	0.59661	HSD17B1		
ENSG00000187569	12	7854050	7880155	141	28	49994	-0.24463	0.59663	DPPA3		
ENSG00000151532	10	114196756	114588503	903	161	42291	-0.24494	0.59675	VTI1A		
ENSG00000145826	5	135247968	135300723	263	25	38289	-0.24563	0.59702	LECT2		
ENSG00000186566	17	42462652	42590798	235	18	46646	-0.24599	0.59715	GPATCH8		
ENSG00000153406	16	4501681	4555764	178	15	32254	-0.24611	0.5972	NMRAL1		
ENSG00000112539	6	165683153	165733096	170	27	45807	-0.24629	0.59727	C6orf118		
ENSG00000101438	20	37343105	37368015	89	16	52257	-0.24634	0.59729	SLC32A1		
ENSG00000182208	11	1480687	1532477	205	18	54289	-0.24651	0.59736	MOB2		
ENSG00000268012	5	78513714	78533911	44	8	32211	-0.24679	0.59747	AC016559.1		
ENSG00000185112	3	194396622	194419762	116	20	45071	-0.24696	0.59753	FAM43A		
ENSG00000171017	19	7943390	7976901	124	26	44966	-0.24739	0.5977	LRRRC8E		
ENSG00000172671	10	46101043	46178228	258	17	53911	-0.24743	0.59771	ZFAND4		
ENSG00000074590	12	106447118	106543811	282	59	43213	-0.2479	0.59789	NUAK1		
ENSG00000185479	12	52830435	52855910	101	11	47845	-0.24831	0.59805	KRT6B		
ENSG00000145850	5	156336293	156400266	181	30	50190	-0.24832	0.59806	TIMD4		
ENSG00000166887	15	42440899	42510514	137	18	31326	-0.2484	0.59809	VPS39		
ENSG00000087157	17	76364721	76431195	336	29	50037	-0.24851	0.59813	PGS1		
ENSG00000146426	6	155143831	155588857	1644	234	46923	-0.24887	0.59827	TIAM2		
ENSG00000182575	17	47643220	47671189	52	21	45016	-0.249	0.59832	NXPH3		
ENSG00000168754	2	97531620	97694175	290	37	31552	-0.24903	0.59833	FAM178B		
ENSG00000196337	19	49547531	49572117	94	26	45592	-0.24929	0.59843	CGB7		
ENSG00000163827	3	46546913	46631589	348	32	44110	-0.24936	0.59846	LRRRC2		

ENSG00000166596	17	9469944	9556776	139	33	44066	-0.24969	0.59859	WDR16		
ENSG00000142751	1	27192624	27226788	61	10	53976	-0.24992	0.59867	GPN2		
ENSG00000176407	2	85188216	85296595	221	27	40305	-0.25006	0.59873	KCMF1		
ENSG00000005238	9	35094109	35126338	74	18	40026	-0.25009	0.59874	FAM214B		
ENSG00000116521	1	155215770	155242221	52	5	28756	-0.25011	0.59875	SCAMP3		
ENSG00000141448	18	19739404	19792491	64	22	48621	-0.25034	0.59884	GATA6		
ENSG00000164342	4	186980306	187019223	165	32	45783	-0.25046	0.59888	TLR3		
ENSG00000174780	4	57323081	57379839	219	21	40463	-0.2505	0.5989	SRP72		
ENSG00000228144	12	66507697	66573765	161	22	38143	-0.25049	0.5989	TMBIM4		
ENSG00000155957	12	66507709	66573852	161	22	38143	-0.25049	0.5989	TMBIM4		
ENSG00000124920	11	61510114	61565990	106	26	34966	-0.25074	0.59899	MYRF		
ENSG00000221953	1	247263462	247285719	95	19	42434	-0.25078	0.59901	C1orf229		
ENSG00000147488	8	53013399	53383519	905	113	41545	-0.25079	0.59901	ST18		
ENSG00000170430	10	131255448	131576271	1469	101	46429	-0.25095	0.59907	MGMT		
ENSG00000184945	2	241621262	241647900	71	15	43199	-0.25105	0.59911	AQP12A		
ENSG00000104983	19	46488339	46534576	188	29	48405	-0.2511	0.59913	CCDC61		
ENSG00000188761	1	114410790	114440169	60	10	34751	-0.2515	0.59929	BCL2L15		
ENSG00000171621	1	9342939	9439591	441	90	48189	-0.25189	0.59944	SPSB1		
ENSG00000205846	12	8598522	8640926	189	6	47498	-0.25204	0.5995	CLEC6A		
ENSG00000244752	22	25605489	25637836	143	37	42545	-0.25211	0.59952	CRYBB2		
ENSG00000019102	11	124607368	124632134	50	13	41663	-0.25228	0.59959	VSIG2		
ENSG00000150712	5	32217100	32323115	336	31	52724	-0.25276	0.59977	MTMR12		
ENSG00000137941	1	84320711	84474833	500	28	44344	-0.25283	0.5998	TTLL7		
ENSG00000062716	17	57774553	57929616	279	27	32285	-0.25297	0.59985	VMP1		
ENSG00000239900	22	40732507	40796467	110	12	54197	-0.25304	0.59988	ADSL		
ENSG00000185038	2	234674370	234752069	310	70	41766	-0.25316	0.59993	MROH2A		
ENSG00000145919	5	173024517	173053663	97	12	34595	-0.2532	0.59994	BOD1		
ENSG00000214860	17	18270976	18302961	78	8	42575	-0.25329	0.59998	EVPLL		
ENSG00000166394	11	7676331	7708453	207	27	38330	-0.25338	0.60001	CYB5R2		
ENSG00000139263	12	59255931	59324303	236	35	41151	-0.2537	0.60014	LRIG3		
ENSG00000092529	15	42630301	42714516	249	17	32322	-0.25382	0.60018	CAPN3		
ENSG00000184774	1	202779394	202806353	56	11	52968	-0.25397	0.60024	RP11-480/12.4		
ENSG00000127533	19	16989671	17013417	66	17	46824	-0.25443	0.60042	F2RL3		
ENSG00000197360	19	22563821	22725287	602	66	45183	-0.25455	0.60047	ZNF98		
ENSG00000148229	9	116159515	116182952	61	10	56220	-0.25461	0.60049	POLE3		
ENSG00000135925	2	219735085	219774303	39	11	36731	-0.25467	0.60051	WNT10A		

ENSG00000180828	8	65482814	65506181	41	11	44308	-0.25465	0.60051	BHLHE22		
ENSG00000145936	5	169791675	169826681	150	32	44307	-0.25468	0.60052	KCNMB1		
ENSG00000179387	4	141435312	141484924	103	13	44222	-0.25479	0.60056	ELMOD2		
ENSG00000106591	7	42961799	42998557	119	13	53843	-0.25485	0.60058	MRPL32		
ENSG00000160951	19	14573278	14596174	117	25	38862	-0.25488	0.60059	PTGER1		
ENSG00000130723	9	134259480	134385584	274	26	38135	-0.2549	0.6006	PRRC2B		
ENSG00000087502	12	29480285	29544122	159	21	45134	-0.25521	0.60072	ERGIC2		
ENSG00000121741	13	20522810	20675968	318	24	34069	-0.25581	0.60095	ZMYM2		
ENSG00000256043	4	156835270	156885069	216	39	44023	-0.25584	0.60096	CTSO		
ENSG00000156050	14	74388204	74427117	152	17	39575	-0.25594	0.601	FAM161B		
ENSG00000044524	3	89146674	89541284	842	64	39809	-0.25628	0.60113	EPHA3		
ENSG00000204866	19	46636363	46674556	93	13	46154	-0.25638	0.60117	IGFL2		
ENSG00000179919	12	55604809	55625759	47	8	49936	-0.25642	0.60119	OR10A7		
ENSG00000173093	12	111274573	111355339	279	38	45980	-0.25654	0.60123	CCDC63		
ENSG00000159840	7	143068173	143098204	83	29	43996	-0.25658	0.60125	ZYX		
ENSG00000104823	19	39296062	39332645	103	20	40055	-0.25666	0.60128	ECH1		
ENSG00000267127	18	77784346	77864968	365	30	40405	-0.25711	0.60145	RP11-795F19.5		
ENSG00000197208	5	131620136	131689899	213	18	35726	-0.25738	0.60156	SLC22A4		
ENSG00000119636	14	74476056	74559566	327	24	29286	-0.25744	0.60158	CCDC176		
ENSG00000177791	10	75381412	75411515	58	12	38836	-0.25755	0.60162	MYOZ1		
ENSG00000171310	12	104839073	105165792	1179	155	46691	-0.25779	0.60172	CHST11		
ENSG00000039068	16	68761128	68879451	422	45	41852	-0.25794	0.60177	CDH1		
ENSG00000183647	19	58101253	58134090	78	14	52147	-0.25797	0.60179	ZNF530		
ENSG00000185155	1	226401319	226424755	53	10	53757	-0.25811	0.60184	MIXL1		
ENSG00000173226	3	121478610	121563926	334	18	54553	-0.25817	0.60186	IQCB1		
ENSG00000124279	5	7849272	7879150	97	23	43490	-0.25819	0.60187	FASTKD3		
ENSG00000109084	17	26636121	26665707	40	12	43462	-0.25826	0.6019	TMEM97		
ENSG00000152291	2	85535147	85565548	102	15	41248	-0.25834	0.60193	TGOLN2		
ENSG00000104879	19	45799672	45836235	136	29	40102	-0.25842	0.60196	CKM		
ENSG00000121410	19	58846544	58874865	59	9	25881	-0.25856	0.60201	A1BG		
ENSG00000269781	7	6512922	6534873	71	13	42310	-0.25857	0.60202	FLJ20306		
ENSG00000145242	4	66175281	66546213	1566	143	48784	-0.25871	0.60207	EPHA5		
ENSG00000197016	19	57068880	57110279	171	21	46591	-0.25917	0.60225	ZNF470		
ENSG00000099139	9	78495560	78987255	2005	257	48379	-0.25932	0.60231	PCSK5		
ENSG00000100368	22	37299670	37346491	207	39	41556	-0.25934	0.60231	CSF2RB		
ENSG00000086548	19	42244885	42286113	84	21	49694	-0.25958	0.60241	CEACAM6		

ENSG00000091483	1	241650903	241693061	87	16	45582	-0.25989	0.60252	<i>FH</i>		
ENSG00000164687	8	82182598	82207012	17	6	47006	-0.25986	0.60252	<i>FABP5</i>		
ENSG00000156414	14	104384799	104529004	561	35	47891	-0.25994	0.60254	<i>TDRD9</i>		
ENSG00000158560	7	95391866	95749634	1013	128	46226	-0.26009	0.6026	<i>DYNC1I1</i>		
ENSG00000149311	11	108083211	108249829	289	19	50769	-0.26058	0.60279	<i>ATM</i>		
ENSG00000116171	1	53382901	53527375	457	25	27467	-0.26071	0.60284	<i>SCP2</i>		
ENSG00000254788	16	66576490	66623038	117	8	25598	-0.26074	0.60285	<i>CKLF-CMTM1</i>		
ENSG00000155749	2	202142994	202232121	261	28	40870	-0.26104	0.60297	<i>ALS2CR12</i>		
ENSG00000104518	8	144625377	144655232	151	24	52420	-0.26121	0.60303	<i>GSDMD</i>		
ENSG00000214872	11	57298979	57328108	78	10	55702	-0.26163	0.6032	<i>SMTNL1</i>		
ENSG00000169122	8	58897068	59126838	668	91	40764	-0.26167	0.60321	<i>FAM110B</i>		
ENSG00000138311	10	64123951	64441771	1077	112	45899	-0.2619	0.6033	<i>ZNF365</i>		
ENSG00000256087	19	52524632	52608991	317	26	39385	-0.26229	0.60345	<i>ZNF432</i>		
ENSG00000106328	7	127221463	127252198	85	14	37294	-0.26262	0.60358	<i>FSCN3</i>		
ENSG00000131873	15	101705928	101802137	389	40	35974	-0.26278	0.60364	<i>CHSY1</i>		
ENSG00000189129	10	81881438	81915115	210	34	41557	-0.263	0.60372	<i>PLAC9</i>		
ENSG00000149300	11	111778756	111807596	49	11	34614	-0.26305	0.60374	<i>C11orf52</i>		
ENSG00000107796	10	90684831	90761147	247	38	42041	-0.26344	0.60389	<i>ACTA2</i>		
ENSG00000109132	4	41736099	41760987	96	15	38157	-0.26349	0.60391	<i>PHOX2B</i>		
ENSG00000138207	10	95341444	95371501	152	27	43581	-0.26354	0.60393	<i>RBP4</i>		
ENSG00000069943	15	55601158	55657846	209	27	35680	-0.26395	0.60409	<i>PIGB</i>		
ENSG00000172766	13	41875341	41961166	237	16	50417	-0.26398	0.6041	<i>NAA16</i>		
ENSG00000128185	22	20291799	20317603	35	8	47985	-0.26421	0.60419	<i>DGCR6L</i>		
ENSG00000176198	14	20700898	20721979	86	22	36307	-0.26437	0.60425	<i>OR11H4</i>		
ENSG00000055211	6	149877430	149922884	60	11	32201	-0.26452	0.60431	<i>GINM1</i>		
ENSG00000214819	17	20473037	20494224	18	11	42134	-0.26461	0.60434	<i>CDRT15L2</i>		
ENSG00000136918	9	127605755	127630160	54	8	51010	-0.26481	0.60442	<i>WDR38</i>		
ENSG00000179299	4	40741914	40822002	221	28	51098	-0.26482	0.60443	<i>NSUN7</i>		
ENSG00000197134	19	22225254	22284282	336	19	39712	-0.26494	0.60447	<i>ZNF257</i>		
ENSG00000117751	1	28147289	28188187	31	13	39102	-0.26495	0.60448	<i>PPP1R8</i>		
ENSG00000086102	9	33280509	33381155	137	28	53620	-0.26536	0.60463	<i>NFX1</i>		
ENSG00000260970	9	122247653	122296403	201	28	45898	-0.26568	0.60476	<i>RP11-295D22.1</i>		
ENSG00000116586	1	156014543	156038301	31	15	42115	-0.26605	0.6049	<i>LAMTOR2</i>		
ENSG00000184557	17	76342864	76366158	59	17	40807	-0.26605	0.6049	<i>SOC3</i>		
ENSG00000197183	20	31020862	31182876	295	40	32979	-0.26619	0.60495	<i>C20orf112</i>		
ENSG00000239282	22	30671106	30695616	61	20	42985	-0.26626	0.60498	<i>GATSL3</i>		

ENSG00000268863	16	30986808	31007533	31	7	30147	-0.26635	0.60502	AC135048.1		
ENSG00000106648	7	151643464	151727019	300	47	45191	-0.2664	0.60503	GALNTL5		
ENSG00000257065	6	144118229	144175754	164	24	54464	-0.26642	0.60504	RP3-468K18.5		
ENSG00000204246	9	107288030	107309137	61	11	37109	-0.26675	0.60517	OR13C3		
ENSG00000136379	15	80962025	81057962	344	51	41844	-0.26693	0.60524	ABHD17C		
ENSG00000212952	9	44390717	44412427	1	1	42798	-0.26709	0.6053	BX088651.1		
ENSG00000117009	1	241685434	241768944	278	54	41535	-0.26754	0.60547	KMO		
ENSG00000140090	14	92778925	92972596	873	121	45539	-0.26755	0.60548	SLC24A4		
ENSG00000134398	16	23691647	23734821	125	26	37015	-0.26762	0.6055	ERN2		
ENSG00000131504	5	140884583	141008622	250	36	51506	-0.26784	0.60559	DIAPH1		
ENSG00000141404	18	11678955	11895684	768	73	37384	-0.26855	0.60586	GNAL		
ENSG00000167723	17	3403796	3471289	293	55	40052	-0.26858	0.60588	TRPV3		
ENSG00000161640	19	50442242	50474429	101	21	43385	-0.2687	0.60592	SIGLEC11		
ENSG00000151006	16	31084746	31110949	37	7	22694	-0.26877	0.60595	PRSS53		
ENSG00000156384	10	105871816	105896143	59	5	25078	-0.26887	0.60598	SFR1		
ENSG00000172794	17	72656717	72753474	188	53	43958	-0.26897	0.60602	RAB37		
ENSG00000233701	3	138750944	138773734	57	8	28389	-0.26916	0.6061	PRR23C		
ENSG00000134538	12	21274136	21402180	572	50	36203	-0.26942	0.6062	SLCO1B1		
ENSG00000130165	19	11651962	11680051	65	16	37454	-0.26957	0.60626	ELOF1		
ENSG00000171509	4	159226463	159584524	1133	32	32526	-0.26964	0.60628	RXFP1		
ENSG00000134830	19	47825404	47856606	157	15	49433	-0.26992	0.60639	C5AR2		
ENSG00000172530	16	87972850	88120924	766	49	30896	-0.26994	0.6064	BANP		
ENSG00000165698	9	135743414	135775588	82	19	44289	-0.27007	0.60645	C9orf9		
ENSG00000170525	10	6176881	6287495	515	136	45091	-0.27007	0.60645	PFKFB3		
ENSG00000236637	9	21176617	21197598	133	6	53752	-0.27013	0.60647	IFNA4		
ENSG00000112293	6	24414793	24505433	721	67	44358	-0.27022	0.6065	GPLD1		
ENSG00000197057	4	36273244	36357378	328	56	44718	-0.27035	0.60655	DTHD1		
ENSG00000186063	1	222831355	222896552	128	22	44085	-0.27046	0.6066	AIDA		
ENSG00000222047	10	75659727	75692535	67	10	33274	-0.27057	0.60664	C10orf55		
ENSG00000125409	17	15197128	15254958	198	23	44612	-0.27085	0.60675	TEKT3		
ENSG00000260537	16	70323097	70410163	102	35	44670	-0.27103	0.60682	RP11-529K1.3		
ENSG00000163923	3	186828736	186908696	223	43	44435	-0.27106	0.60683	RPL39L		
ENSG00000267216	19	58780332	58836563	178	30	39538	-0.27127	0.60691	AC010642.1		
ENSG00000133104	13	36865775	36954317	294	20	51631	-0.27135	0.60694	SPG20		
ENSG00000158714	1	159786540	159817039	86	22	41948	-0.27148	0.60699	SLAMF8		
ENSG00000135414	12	56127064	56160911	29	10	40438	-0.27172	0.60708	GDF11		

ENSG00000165684	9	139260029	139303249	200	23	55075	-0.27176	0.6071	SNAPC4		
ENSG00000197241	1	9053359	9096404	177	36	48712	-0.27214	0.60724	SLC2A7		
ENSG00000139835	13	113968505	114028446	218	34	45479	-0.27231	0.60731	GRTP1		
ENSG00000188992	21	15471134	15593166	569	47	46546	-0.27257	0.60741	LIP1		
ENSG00000167371	16	29813177	29837201	32	6	47399	-0.27269	0.60745	PRRT2		
ENSG00000267508	19	44876459	44915774	146	30	34325	-0.27295	0.60755	ZNF285		
ENSG00000142319	5	1382909	1455545	240	42	41991	-0.27298	0.60757	SLC6A3		
ENSG00000136010	12	105403568	105488355	383	44	43051	-0.27324	0.60767	ALDH1L2		
ENSG00000100348	22	36853083	36888077	172	25	33183	-0.27326	0.60767	TXN2		
ENSG00000158481	1	158249576	158273420	30	10	38198	-0.27349	0.60776	CD1C		
ENSG00000247596	3	52252626	52283276	54	14	52035	-0.27361	0.60781	TWF2		
ENSG00000205269	6	11527938	11593757	253	27	50629	-0.27363	0.60782	TMEM170B		
ENSG00000100104	22	26869843	26900624	111	22	43063	-0.27365	0.60782	SRRD		
ENSG00000030110	6	33530329	33558019	109	21	39843	-0.27368	0.60783	BAK1		
ENSG00000174326	17	6934949	6957242	62	16	35348	-0.27383	0.60789	SLC16A11		
ENSG00000019582	5	149771200	149802492	91	30	49602	-0.27399	0.60795	CD74		
ENSG00000109794	4	187015573	187103821	396	55	46334	-0.27415	0.60801	FAM149A		
ENSG00000173267	10	88708375	88733017	99	17	49761	-0.27421	0.60804	SNCG		
ENSG00000165637	10	76959912	77001206	112	22	39031	-0.27424	0.60805	VDAC2		
ENSG00000161249	19	35978122	36014560	133	34	46142	-0.27474	0.60824	DMKN		
ENSG00000101405	20	3042266	3063163	47	14	39838	-0.27494	0.60832	OXT		
ENSG00000130558	9	137957268	138023025	365	65	44670	-0.27511	0.60838	OLFM1		
ENSG00000148136	9	107278534	107299490	82	13	39973	-0.27525	0.60844	OR13C4		
ENSG00000204403	11	104746445	104779397	42	5	32944	-0.27529	0.60845	CASP12		
ENSG00000185652	12	5531278	5640702	322	68	51086	-0.27549	0.60853	NTF3		
ENSG00000239605	2	47262677	47392517	609	90	45178	-0.27664	0.60897	C2orf61		
ENSG00000139182	12	7272294	7321541	129	22	44474	-0.27665	0.60898	CLSTN3		
ENSG00000185043	15	90763207	90787279	87	15	42193	-0.27672	0.609	CIB1		
ENSG00000110107	11	60648202	60684060	73	12	43090	-0.27687	0.60906	PRPF19		
ENSG00000121753	1	32182718	32240494	58	15	44278	-0.27703	0.60912	BAI2		
ENSG00000100297	22	35786056	35831423	127	26	42859	-0.27745	0.60928	MCM5		
ENSG00000123485	2	234732062	234773212	213	21	45238	-0.27766	0.60936	HJURP		
ENSG00000179593	17	7932335	7962452	133	28	43106	-0.27776	0.6094	ALOX15B		
ENSG00000164619	7	33934523	34205484	669	96	48671	-0.27778	0.60941	BMPER		
ENSG00000112773	6	82191156	82472491	906	84	50791	-0.27779	0.60945	FAM46A		
ENSG00000023839	10	101532489	101621949	270	29	52779	-0.27806	0.60952	ABCC2		

ENSG00000168938	5	122348945	122382436	135	25	39082	-0.27848	0.60968	PPIC		
ENSG00000116996	1	238035705	238064094	115	21	47784	-0.27864	0.60974	ZP4		
ENSG00000166377	18	76819285	77148283	1183	60	42592	-0.27866	0.60975	ATP9B		
ENSG00000164535	7	6438757	6533821	360	49	39852	-0.27911	0.60992	DAGLB		
ENSG00000019144	11	118467155	118538741	128	22	50800	-0.27925	0.60997	PHLDB1		
ENSG00000111796	12	9737147	9770482	164	23	44687	-0.27945	0.61005	KLRB1		
ENSG00000148840	10	103882787	103920082	66	15	41200	-0.27948	0.61006	PPRC1		
ENSG00000181374	17	32673471	32695629	84	18	50860	-0.27949	0.61007	CCL13		
ENSG00000103356	16	23523335	23579052	207	18	43056	-0.27963	0.61012	EARS2		
ENSG00000198965	1	158439668	158460675	93	10	47758	-0.28005	0.61028	OR10R2		
ENSG00000263588	18	19658021	19688741	121	22	41720	-0.2801	0.6103	RP11-595B24.2		
ENSG00000021300	11	73347223	73383864	140	26	40543	-0.28018	0.61033	PLEKHB1		
ENSG00000108518	17	4838947	4862356	50	16	39931	-0.28087	0.6106	PFN1		
ENSG00000214900	14	50438430	50484238	213	31	46515	-0.28116	0.6107	C14orf182		
ENSG00000105122	19	15552435	15585382	57	17	53267	-0.28116	0.61071	RASAL3		
ENSG00000168907	15	42423332	42458839	86	28	34756	-0.28132	0.61077	PLA2G4F		
ENSG00000108848	17	48786905	48843574	135	26	50941	-0.28135	0.61078	LUC7L3		
ENSG00000136932	9	100656771	100694852	106	11	37063	-0.28141	0.6108	C9orf156		
ENSG00000167395	16	31075743	31105517	47	7	22524	-0.28143	0.61081	ZNF646		
ENSG00000115425	2	216851052	216957678	354	55	40906	-0.28217	0.61109	PECR		
ENSG00000273171	17	26681310	26705033	50	7	32540	-0.28275	0.61132	CTB-96E2.2		
ENSG00000171970	19	2890896	2928474	249	23	29878	-0.28294	0.61139	ZNF57		
ENSG00000184956	11	1002821	1046706	124	24	43331	-0.28312	0.61146	MUC6		
ENSG00000111364	12	124076624	124115488	149	16	41545	-0.28326	0.61151	DDX55		
ENSG00000117215	1	20428432	20456050	79	30	46609	-0.28339	0.61156	PLA2G2D		
ENSG00000177596	13	74977094	75003252	136	24	37915	-0.28355	0.61162	AL355390.1		
ENSG00000001631	7	91818283	91885480	78	17	41687	-0.28368	0.61167	KRIT1		
ENSG00000204571	11	71282901	71324399	228	26	38900	-0.2837	0.61168	KRTAP5-11		
ENSG00000159714	16	67418322	67460736	55	15	43040	-0.28371	0.61168	ZDHHC1		
ENSG00000173065	17	27072996	27192250	226	13	47123	-0.28372	0.61169	FAM222B		
ENSG00000142405	19	54286857	54337648	245	46	48163	-0.28388	0.61175	NLRP12		
ENSG00000138382	2	170656591	170691441	128	22	46897	-0.28482	0.61211	METTL5		
ENSG00000173567	2	26521041	26579685	157	33	34467	-0.28514	0.61223	GPR113		
ENSG00000175130	1	32789433	32811980	11	8	56229	-0.28519	0.61225	MARCKSL1		
ENSG00000148429	10	11485945	11663753	510	45	46725	-0.28528	0.61229	USP6NL		
ENSG00000152942	5	68655120	68720628	133	14	41464	-0.2855	0.61237	RAD17		

ENSG00000006282	17	48610419	48643213	108	18	31912	-0.28589	0.61252	SPATA20		
ENSG00000099308	19	18198603	18272502	293	35	52227	-0.28591	0.61252	MAST3		
ENSG00000076248	12	109525379	109558797	92	23	47432	-0.28655	0.61277	UNG		
ENSG00000249961	16	66778879	66845523	145	12	33635	-0.28675	0.61285	CCDC79		
ENSG00000185662	5	171202876	171231602	94	19	47590	-0.28682	0.61288	SMIM23		
ENSG00000107104	9	460291	756105	1577	98	41120	-0.28686	0.61289	KANK1		
ENSG00000112282	6	131885106	131959369	111	25	38825	-0.28709	0.61298	MED23		
ENSG00000187037	7	37713399	37883390	565	66	45638	-0.28709	0.61298	GPR141		
ENSG00000067191	17	37319709	37363956	93	30	46336	-0.28712	0.61299	CACNB1		
ENSG00000231171	4	178639911	178921904	1034	109	42458	-0.28725	0.61304	LINC01098		
ENSG00000163424	3	118854997	118888889	175	24	52108	-0.28732	0.61306	C3orf30		
ENSG00000179886	8	144670074	144692485	91	13	35932	-0.28746	0.61312	TIGD5		
ENSG00000119720	14	90732580	90808481	209	25	48788	-0.28753	0.61315	NRDE2		
ENSG00000131196	18	77145856	77299325	741	85	42007	-0.2878	0.61325	NFATC1		
ENSG00000187479	11	43936892	43975888	149	37	47168	-0.28791	0.61329	C11orf96		
ENSG00000251139	4	185724773	185752443	104	20	46944	-0.28796	0.61331	RP11-701P16.2		
ENSG00000132207	16	30195208	30218882	6	4	32203	-0.28805	0.61335	SLX1A		
ENSG00000120318	5	141022968	141071788	178	47	51148	-0.28834	0.61346	ARAP3		
ENSG00000132958	13	19987017	20120903	327	28	35804	-0.28841	0.61348	TPTE2		
ENSG00000118307	12	25251354	25358096	403	34	43582	-0.28857	0.61355	CASC1		
ENSG00000164007	1	43188764	43215925	72	15	55108	-0.28868	0.61359	CLDN19		
ENSG00000168118	1	229396822	229451641	130	16	56288	-0.28877	0.61362	RAB4A		
ENSG00000130176	19	11639532	11671138	72	16	41369	-0.28876	0.61362	CNN1		
ENSG00000185633	12	57618686	57644498	30	12	42911	-0.28885	0.61365	NDUFA4L2		
ENSG00000160392	19	40815443	40864434	135	19	38015	-0.28899	0.61371	C19orf47		
ENSG00000104859	19	45532298	45584214	94	21	50627	-0.28906	0.61373	CLASRP		
ENSG00000142156	21	47391651	47434964	192	30	44877	-0.28935	0.61384	COL6A1		
ENSG00000206104	21	32005183	32025455	41	8	51988	-0.28953	0.61391	KRTAP20-3		
ENSG00000176208	17	29148988	29232887	214	9	28088	-0.28964	0.61396	ATAD5		
ENSG00000071073	2	99225569	99357589	302	39	40602	-0.28976	0.614	MGAT4A		
ENSG00000163697	4	40802044	41228731	1721	145	44639	-0.28998	0.61408	APBB2		
ENSG00000166368	11	6902721	6923830	75	16	43230	-0.29021	0.61417	OR2D2		
ENSG00000137976	1	84854215	84890701	160	19	55824	-0.29026	0.61419	DNASE2B		
ENSG00000169740	10	44129307	44154304	83	11	41561	-0.29118	0.61454	ZNF32		
ENSG00000132768	1	44425672	44449041	37	8	28633	-0.29132	0.6146	DPH2		
ENSG00000179841	14	64922217	64951221	76	11	55757	-0.29133	0.6146	AKAP5		

ENSG00000220256	2	240674554	240734577	350	44	51528	-0.2914	0.61463	AC093802.1		
ENSG00000143162	1	167488914	167533004	228	32	50977	-0.29145	0.61465	CREG1		
ENSG00000231396	4	9202383	9223975	3	2	42709	-0.29163	0.61472	USP17L10		
ENSG00000232399	4	9202383	9238214	3	2	42709	-0.29163	0.61472	USP17L13		
ENSG00000233136	4	9207131	9228723	3	2	42709	-0.29163	0.61472	USP17L11		
ENSG00000227551	4	9211878	9233470	3	2	42709	-0.29163	0.61472	USP17L12		
ENSG00000132514	17	6967856	6993626	109	27	34564	-0.29163	0.61472	CLEC10A		
ENSG00000132432	7	54809943	54837667	136	15	43623	-0.29169	0.61474	SEC61G		
ENSG00000176399	9	22436840	22465739	99	15	50768	-0.29177	0.61477	DMRTA1		
ENSG00000198513	14	50989227	51109786	263	30	47629	-0.29204	0.61487	ATL1		
ENSG00000108349	17	38286571	38338436	96	14	39523	-0.2922	0.61493	CASC3		
ENSG00000100226	22	39091728	39144304	118	16	42993	-0.29225	0.61495	GTPBP1		
ENSG00000155530	7	133802052	133959343	506	24	42906	-0.29267	0.61511	LRGUK		
ENSG00000174529	1	205042258	205063645	68	13	27276	-0.29279	0.61516	TMEM81		
ENSG00000100380	22	41210539	41263026	93	20	42629	-0.29295	0.61522	ST13		
ENSG00000244038	1	20968270	20998000	127	18	54626	-0.29297	0.61523	DDOST		
ENSG00000140395	15	78560177	78602136	131	23	54683	-0.29342	0.6154	WDR61		
ENSG00000002933	7	150487491	150512208	116	23	45045	-0.29375	0.61552	TMEM176A		
ENSG00000136925	9	100352362	100405962	80	20	48141	-0.29403	0.61563	TSTD2		
ENSG00000134901	13	103426631	103461357	96	13	44505	-0.29413	0.61567	KDELC1		
ENSG00000176194	18	12244318	12287594	158	37	46429	-0.29442	0.61578	CIDEA		
ENSG00000167703	17	1462561	1542180	271	67	47635	-0.29458	0.61584	SLC43A2		
ENSG00000133103	13	40219764	40375802	526	31	55860	-0.29473	0.6159	COG6		
ENSG00000213918	16	3651729	3740144	253	26	47899	-0.29482	0.61594	DNASE1		
ENSG00000118620	19	21193426	21252856	164	15	35635	-0.29501	0.61601	ZNF430		
ENSG00000185928	16	29817285	29851948	49	6	47241	-0.29534	0.61613	PAGR1		
ENSG00000151023	10	25260908	25315089	148	20	36535	-0.29548	0.61619	ENKUR		
ENSG00000180720	11	46396640	46418107	17	9	45340	-0.29585	0.61633	CHRM4		
ENSG00000183160	12	108973622	109002096	83	19	44281	-0.29616	0.61645	TMEM119		
ENSG00000090612	12	133697570	133793698	324	19	46736	-0.29628	0.61649	ZNF268		
ENSG00000148110	9	97126833	97233324	399	28	48377	-0.29629	0.6165	HIATL1		
ENSG00000125084	12	49362398	49385459	27	10	49932	-0.29636	0.61652	WNT1		
ENSG00000125826	20	378142	421610	142	34	43803	-0.29657	0.6166	RBCK1		
ENSG00000143125	1	110983822	111009976	90	25	45628	-0.29667	0.61664	PROK1		
ENSG00000171817	19	38032308	38114998	186	20	35723	-0.29676	0.61668	ZNF540		
ENSG00000119487	9	128189672	128479513	587	55	43839	-0.29695	0.61675	MAPKAP1		

ENSG00000006695	17	13962813	14121994	521	66	51336	-0.29741	0.61692	COX10		
ENSG00000113384	5	32114810	32184456	190	27	45111	-0.29753	0.61697	GOLPH3		
ENSG00000196550	1	206126916	206165151	17	8	50320	-0.29779	0.61707	FAM72A		
ENSG00000141458	18	21076148	21176862	207	23	39948	-0.29779	0.61707	NPC1		
ENSG00000268519	12	77939297	77960568	161	13	52971	-0.29785	0.61709	AC073528.1		
ENSG00000163624	4	85494132	85582491	165	23	48083	-0.29795	0.61713	CDS1		
ENSG00000239665	10	13642047	13720299	322	33	47945	-0.29816	0.61721	RP11-295P9.3		
ENSG00000135108	12	117571146	117638336	267	16	48106	-0.29864	0.61739	FBXO21		
ENSG00000077312	19	41246542	41281294	112	21	47801	-0.29864	0.61739	SNRPA		
ENSG00000204479	1	13706092	13729089	8	6	21926	-0.29867	0.6174	PRAMEF17		
ENSG00000134193	1	120326641	120364283	123	9	52723	-0.2987	0.61741	REG4		
ENSG00000105928	7	24727972	24819244	374	40	45081	-0.29873	0.61743	DFNA5		
ENSG00000222007	2	236672499	236702031	144	5	53216	-0.29919	0.6176	AC064874.1		
ENSG00000133597	7	140362953	140406061	94	11	28201	-0.29927	0.61763	ADCK2		
ENSG00000163644	4	89168772	89215921	102	21	40293	-0.29961	0.61776	PPM1K		
ENSG00000118997	2	196592427	196943536	806	65	44026	-0.29977	0.61782	DNAH7		
ENSG00000169862	5	10961952	11914155	2809	306	46525	-0.29986	0.61786	CTNND2		
ENSG00000103415	16	4514691	4570348	183	15	31012	-0.29998	0.6179	HMOX2		
ENSG00000235608	4	1386720	1410119	72	15	40223	-0.30005	0.61793	NKX1-1		
ENSG00000165895	11	100548384	100872668	1552	109	50273	-0.30004	0.61793	ARHGAP42		
ENSG00000204174	10	47073534	47098320	13	4	43227	-0.3006	0.61814	NPY4R		
ENSG00000108826	17	48435218	48460575	78	10	45832	-0.30067	0.61817	MRPL27		
ENSG00000120451	11	130735331	130796404	326	22	50844	-0.30102	0.6183	SNX19		
ENSG00000112763	6	26448150	26486849	130	20	39491	-0.30119	0.61836	BTN2A1		
ENSG00000125691	17	36994118	37020096	94	20	45362	-0.30163	0.61853	RPL23		
ENSG00000134815	19	47842538	47895961	228	23	43978	-0.30208	0.6187	DHX34		
ENSG00000233822	6	27796323	27833487	68	15	36006	-0.30208	0.61871	HIST1H2BN		
ENSG00000073282	3	189339205	189625068	1162	178	49769	-0.3023	0.61879	TP63		
ENSG00000176171	10	133771578	133805435	148	14	53577	-0.30245	0.61885	BNIP3		
ENSG00000164258	5	52846463	52989168	503	38	46812	-0.30292	0.61902	NDUFS4		
ENSG00000067182	12	6427923	6461280	70	19	39994	-0.30295	0.61904	TNFRSF1A		
ENSG00000141542	17	80602849	80666604	280	56	47319	-0.30298	0.61905	RAB40B		
ENSG00000100644	14	62152231	62224976	171	25	32320	-0.30305	0.61908	HIF1A		
ENSG00000188352	9	20648308	21005954	1123	70	54108	-0.30354	0.61926	FOCAD		
ENSG00000167195	15	75540940	75572540	7	5	47121	-0.30358	0.61928	GOLGA6C		
ENSG00000170667	7	102112892	102168228	34	10	38510	-0.30368	0.61931	RASA4B		

ENSG00000182903	4	409604	502945	329	30	45794	-0.30396	0.61942	ZNF721		
ENSG00000184162	19	19302225	19324233	42	13	49308	-0.30399	0.61943	NR2C2AP		
ENSG00000256825	12	133697570	133788955	303	18	47316	-0.30414	0.61949	CTD-2140B24.4		
ENSG00000165072	9	72648497	72851886	719	39	49449	-0.30421	0.61952	MAMDC2		
ENSG00000144130	2	113469063	113510456	110	18	40387	-0.30429	0.61955	NT5DC4		
ENSG00000224474	10	99169228	99195831	70	18	46613	-0.30429	0.61955	AL355490.1		
ENSG00000163110	4	95363037	95599377	650	63	35385	-0.30445	0.61961	PDLIM5		
ENSG00000130725	19	59057079	59080327	57	14	36415	-0.30445	0.61961	UBE2M		
ENSG00000227057	6	33236885	33267304	98	18	32505	-0.30448	0.61962	WDR46		
ENSG00000267477	19	11567055	11626513	200	26	33319	-0.30476	0.61972	CTC-398G3.6		
ENSG00000115138	2	25373722	25401772	61	16	36799	-0.30492	0.61979	POMC		
ENSG00000040731	5	24477209	24655087	734	62	42443	-0.30512	0.61986	CDH10		
ENSG00000176239	11	5362738	5383676	254	14	46164	-0.30554	0.62002	OR51B6		
ENSG00000153006	5	64003971	64074512	123	17	37383	-0.30566	0.62007	SREK1IP1		
ENSG00000129596	5	115130430	115162651	56	20	49479	-0.30591	0.62016	CDO1		
ENSG00000125872	20	6011424	6044695	103	18	50950	-0.30609	0.62023	LRRN4		
ENSG00000091409	2	173282082	173381181	393	48	46312	-0.30626	0.6203	ITGA6		
ENSG00000131148	16	85795364	85843214	118	18	34013	-0.30644	0.62037	EMC8		
ENSG00000145642	5	63976135	64023917	75	12	36930	-0.30653	0.6204	FAM159B		
ENSG00000137261	6	24534332	24656383	476	65	44739	-0.30655	0.62041	KIAA0319		
ENSG00000118363	11	74650292	74700076	107	18	46131	-0.30656	0.62041	SPCS2		
ENSG00000174429	8	107761711	107792473	90	19	48690	-0.30672	0.62047	ABRA		
ENSG00000011114	14	93693896	93809438	378	32	38142	-0.30699	0.62057	BTBD7		
ENSG00000117758	1	28089694	28160963	45	18	38766	-0.30702	0.62059	STX12		
ENSG00000163661	3	157144578	157171417	72	12	40843	-0.30711	0.62062	PTX3		
ENSG00000239732	3	52245096	52283183	58	15	52373	-0.30753	0.62078	TLR9		
ENSG00000136560	2	161983419	162102732	169	24	50319	-0.30805	0.62098	TANK		
ENSG00000197826	4	81246874	81894910	1669	90	33958	-0.30838	0.62111	C4orf22		
ENSG00000157181	1	186334890	186400510	150	25	54352	-0.30851	0.62115	C1orf27		
ENSG00000166582	17	16235848	16266970	80	11	41186	-0.30854	0.62116	CENPV		
ENSG00000181852	12	56588285	56625717	27	12	44205	-0.30855	0.62117	RNF41		
ENSG00000120049	10	103575731	103613677	68	16	53541	-0.30878	0.62125	KCNIP2		
ENSG00000221972	3	133636992	133658656	51	16	50775	-0.30883	0.62127	C3orf36		
ENSG00000146399	6	132956123	132977142	124	16	54188	-0.30895	0.62132	TAAR1		
ENSG00000001629	7	91865548	92040698	217	25	44489	-0.30942	0.6215	ANKIB1		
ENSG00000111432	12	130637004	130660285	97	27	51649	-0.30959	0.62157	FZD10		

ENSG00000182584	20	32244304	32266331	28	10	47802	-0.30982	0.62165	ACTL10		
ENSG00000130313	19	17612438	17642097	96	22	40657	-0.31002	0.62173	PGLS		
ENSG00000119614	14	74696175	74739441	180	24	24925	-0.31012	0.62176	VSX2		
ENSG00000166352	11	36606051	36704823	403	21	43011	-0.31085	0.62204	C11orf74		
ENSG00000135837	1	179913873	180094015	511	33	43762	-0.31132	0.62222	CEP350		
ENSG00000104915	19	13244872	13271197	56	12	40295	-0.3115	0.62229	STX10		
ENSG00000124557	6	26491449	26520650	73	12	49919	-0.31167	0.62235	BTN1A1		
ENSG00000249481	6	44300397	44354904	147	23	44308	-0.31186	0.62243	SPATS1		
ENSG00000177606	1	59236465	59259785	46	12	42852	-0.31194	0.62246	JUN		
ENSG00000170340	2	62413248	62461866	105	17	41777	-0.31194	0.62246	B3GNT2		
ENSG00000196230	6	30677978	30703203	143	17	27858	-0.31199	0.62248	TUBB		
ENSG00000109738	4	157987209	158103242	487	49	43743	-0.31207	0.62251	GLRB		
ENSG00000132680	1	155872834	155914191	67	9	29615	-0.3121	0.62252	KIAA0907		
ENSG00000142327	2	241495221	241530789	115	23	51872	-0.31215	0.62254	RNPEPL1		
ENSG00000121898	10	125455723	125709783	1189	155	44848	-0.31224	0.62257	CPXM2		
ENSG00000112679	6	281630	361355	41	16	43410	-0.31227	0.62258	DUSP22		
ENSG00000115368	2	190296159	190350291	262	12	49790	-0.31276	0.62277	WDR75		
ENSG00000144485	2	239136908	239159303	115	10	49484	-0.31279	0.62278	HES6		
ENSG00000154845	18	9536789	9625238	349	41	44801	-0.31283	0.62279	PPP4R1		
ENSG00000162398	1	55261736	55317925	274	22	48694	-0.31285	0.6228	C1orf177		
ENSG00000138758	4	77860856	77971537	331	33	52054	-0.31313	0.62291	Sep-11		
ENSG00000188342	13	45684650	45868237	384	28	40995	-0.31313	0.62291	GTF2F2		
ENSG00000115419	2	191735553	191840278	188	25	43486	-0.31357	0.62307	GLS		
ENSG00000078795	5	137213657	137288436	139	20	49282	-0.31354	0.62307	PKD2L2		
ENSG00000131355	19	14719929	14810839	376	51	47563	-0.3136	0.62309	EMR3		
ENSG00000215218	5	6438736	6505022	235	44	37443	-0.31384	0.62318	UBE2QL1		
ENSG00000150394	16	61671146	62080939	1031	92	46474	-0.31403	0.62325	CDH8		
ENSG00000076924	19	7674411	7704451	94	13	52464	-0.31453	0.62344	XAB2		
ENSG00000054282	1	243409320	243673394	535	67	47064	-0.31457	0.62346	SDCCAG8		
ENSG00000196700	20	62578055	62690113	289	33	48770	-0.31471	0.62351	ZNF512B		
ENSG00000085741	11	75887369	75931780	133	27	48533	-0.31475	0.62352	WNT11		
ENSG00000171872	1	44574522	44610812	127	28	47121	-0.31517	0.62368	KLF17		
ENSG00000002016	12	1011243	1109219	332	54	47657	-0.31519	0.62369	RAD52		
ENSG00000172086	2	88316724	88365248	105	18	48389	-0.31522	0.6237	KRCC1		
ENSG00000126464	19	50084900	50139696	183	18	41249	-0.31523	0.62371	PRR12		
ENSG00000254943	11	124751200	124772022	85	17	41596	-0.31537	0.62376	RP11-664I21.6		

ENSG00000157637	17	79208800	79279347	269	45	41156	-0.31541	0.62377	SLC38A10		
ENSG00000179134	19	39823036	39886350	154	24	44942	-0.3154	0.62377	SAMD4B		
ENSG00000068305	15	100007370	100266671	722	83	38727	-0.31546	0.62379	MEF2A		
ENSG00000136197	7	42938325	42961904	77	6	53541	-0.3157	0.62388	C7orf25		
ENSG00000173285	1	158425272	158446344	90	14	41538	-0.31627	0.6241	OR10K1		
ENSG00000243927	21	35435524	35525334	142	26	48448	-0.31634	0.62413	MRPS6		
ENSG00000260272	16	2536033	2580219	37	23	47377	-0.31636	0.62414	RP11-20I23.1		
ENSG00000112303	6	133055009	133094598	185	30	45115	-0.31657	0.62421	VNN2		
ENSG00000229833	19	7684623	7706842	72	10	53476	-0.31661	0.62423	PET100		
ENSG00000169903	3	149181761	149231068	257	27	40141	-0.31678	0.6243	TM4SF4		
ENSG00000168653	1	39481990	39510308	76	15	44998	-0.3169	0.62434	NDUFS5		
ENSG00000136866	9	115790660	115829039	100	20	35512	-0.31694	0.62435	ZFP37		
ENSG00000100504	14	51314609	51421454	417	60	47876	-0.31724	0.62447	PYGL		
ENSG00000162396	1	55212571	55240187	99	17	48554	-0.31749	0.62456	PARS2		
ENSG00000271079	7	143258894	143281480	8	5	43112	-0.31747	0.62456	CTAGE15		
ENSG00000174501	2	96504587	96667541	248	29	46876	-0.31768	0.62464	ANKRD36C		
ENSG00000188508	19	35968226	35996460	102	21	47788	-0.31775	0.62466	KRTDAP		
ENSG00000135211	7	77413045	77437897	67	15	42548	-0.31791	0.62472	TMEM60		
ENSG00000172748	8	172137	207342	144	24	49834	-0.31805	0.62478	ZNF596		
ENSG00000091138	7	107395912	107453670	177	33	44820	-0.31834	0.62488	SLC26A3		
ENSG00000160013	19	47113725	47138375	101	16	43826	-0.31841	0.62491	PTGIR		
ENSG00000184459	22	32799834	32870471	307	69	42661	-0.3184	0.62491	BPIFC		
ENSG00000100147	22	42186683	42232303	117	17	45049	-0.31841	0.62491	CCDC134		
ENSG00000164972	9	34369017	34407830	91	20	44434	-0.31879	0.62506	C9orf24		
ENSG00000159063	11	77801982	77860706	319	13	35196	-0.31884	0.62507	ALG8		
ENSG00000162630	1	193138175	193165784	70	11	54729	-0.3193	0.62525	B3GALT2		
ENSG00000180190	8	429803	505781	383	48	48435	-0.31954	0.62534	TDRP		
ENSG00000171962	17	17866127	17930203	82	16	37884	-0.31969	0.6254	LRRC48		
ENSG00000178053	3	158278952	158335041	225	19	51791	-0.31979	0.62544	MLF1		
ENSG00000171195	4	71286209	71358714	350	34	47965	-0.32019	0.62559	MUC7		
ENSG00000166317	10	75394639	75433561	54	10	36265	-0.32022	0.6256	SYNPO2L		
ENSG00000158555	11	75135685	75246948	295	40	41866	-0.32024	0.62561	GDPD5		
ENSG00000141569	17	73866416	73903084	106	15	38471	-0.32055	0.62573	TRIM65		
ENSG00000176798	11	5010213	5031160	93	12	53467	-0.32085	0.62584	OR51L1		
ENSG00000072080	2	234949323	234995778	241	29	41369	-0.32096	0.62588	SPP2		
ENSG00000002745	7	120955421	120991158	132	20	32441	-0.32109	0.62593	WNT16		

ENSG00000122417	1	86804344	86872023	200	19	55813	-0.32113	0.62594	ODF2L		
ENSG00000141753	17	38589702	38623983	86	20	48813	-0.32121	0.62597	IGFBP4		
ENSG00000268744	19	12480003	12522088	74	16	34439	-0.32123	0.62598	CTD-3105H18.14		
ENSG00000165131	7	142626440	142647955	57	11	29918	-0.32146	0.62607	C7orf34		
ENSG00000089558	17	40298909	40343296	65	16	43577	-0.32171	0.62617	KCNH4		
ENSG00000130699	20	60518525	60650866	396	37	40870	-0.32199	0.62627	TAF4		
ENSG00000131966	14	58656798	58711750	102	17	47821	-0.32236	0.62641	ACTR10		
ENSG00000139144	12	18390548	18811348	1405	114	49111	-0.32243	0.62644	PIK3C2G		
ENSG00000100290	22	43496754	43535718	134	31	46891	-0.32267	0.62653	BIK		
ENSG00000170734	6	43533887	43596701	110	18	42506	-0.32304	0.62667	POLH		
ENSG00000149474	20	18108762	18179031	294	45	43871	-0.32314	0.62671	CSRP2BP		
ENSG00000269620	1	159869884	159890159	46	17	41033	-0.32319	0.62672	AL590560.1		
ENSG00000263136	16	29817832	29841438	35	6	45725	-0.32322	0.62674	PAGR1		
ENSG00000171159	9	130912539	130936207	44	9	33794	-0.32332	0.62677	C9orf16		
ENSG00000131435	5	131583364	131619147	111	16	29451	-0.32334	0.62678	PDLIM4		
ENSG00000204695	6	29264403	29285519	92	16	47166	-0.32335	0.62678	OR14J1		
ENSG00000109674	4	178220990	178294097	246	51	44164	-0.32361	0.62688	NEIL3		
ENSG00000136636	1	215730735	215805149	54	23	41295	-0.32363	0.62689	KCTD3		
ENSG00000272617	16	69352547	69378774	73	14	54189	-0.32372	0.62693	RP11-343C2.12		
ENSG00000130803	19	9241056	9284100	194	25	44868	-0.32373	0.62693	ZNF317		
ENSG00000197769	1	242148792	242172375	120	20	40117	-0.32424	0.62712	MAP1LC3C		
ENSG00000166813	15	90142020	90208682	164	19	45773	-0.32432	0.62715	KIF7		
ENSG00000204677	5	177423406	177492560	148	32	43097	-0.32442	0.62719	FAM153C		
ENSG00000168495	8	22092617	22122113	89	12	48865	-0.32452	0.62723	POLR3D		
ENSG00000136696	2	113769668	113820444	181	23	37761	-0.32475	0.62732	IL36B		
ENSG00000111305	12	13226494	13266619	61	18	44528	-0.32482	0.62734	GSG1		
ENSG00000162852	1	246719746	246841886	423	55	39676	-0.325	0.62741	CNST		
ENSG00000085231	5	68636811	68675840	70	12	37818	-0.32518	0.62748	TAF9		
ENSG00000152939	5	68700939	68750157	106	10	40222	-0.32525	0.6275	MARVELD2		
ENSG00000175287	9	131673174	131714320	75	10	46443	-0.32524	0.6275	PHYHD1		
ENSG00000151746	12	32249769	32546567	1431	118	49066	-0.32535	0.62754	BICD1		
ENSG00000229972	3	51841620	51874876	40	6	24588	-0.32577	0.6277	IQCF3		
ENSG00000095981	6	39272474	39300744	147	29	50887	-0.32577	0.6277	KCNK16		
ENSG00000187735	8	54869112	54945089	85	17	35393	-0.3258	0.62771	TCEA1		
ENSG00000122223	1	160789950	160842692	181	17	30623	-0.32606	0.62781	CD244		
ENSG00000134291	12	48347352	48372661	84	18	50584	-0.32607	0.62781	TMEM106C		

ENSG00000186970	21	31802597	31823070	67	4	56052	-0.32611	0.62783	KRTAP15-1		
ENSG00000204052	6	43464707	43488424	44	9	45751	-0.32628	0.62789	LRRC73		
ENSG00000104833	19	6484330	6512859	53	25	48517	-0.32632	0.62791	TUBB4A		
ENSG00000155287	10	101360282	101390366	111	13	55884	-0.32639	0.62793	SLC25A28		
ENSG00000163376	3	67038727	67071634	56	12	50943	-0.3265	0.62798	KBTBD8		
ENSG00000054598	6	1600681	1624127	54	20	42409	-0.3266	0.62801	FOXC1		
ENSG00000212725	17	39192793	39213568	83	11	37952	-0.32662	0.62802	KRTAP2-1		
ENSG00000167600	19	41688954	41723444	127	21	40805	-0.32674	0.62807	CYP2S1		
ENSG00000101400	20	31985761	32041698	71	12	51425	-0.32676	0.62808	SNTA1		
ENSG00000248099	19	17917321	17942383	61	26	46843	-0.32687	0.62812	INSL3		
ENSG00000169131	5	178128593	178167703	175	14	50937	-0.32694	0.62814	ZNF354A		
ENSG00000105198	19	40083164	40108116	58	12	55622	-0.32695	0.62815	LGALS13		
ENSG00000161634	12	55028375	55052277	73	18	50772	-0.327	0.62816	DCD		
ENSG00000018189	4	71559921	71683032	386	29	28330	-0.327	0.62817	RUFY3		
ENSG00000134748	1	52860236	52896511	38	11	39140	-0.32723	0.62825	PRPF38A		
ENSG00000163464	2	219017568	219041718	54	11	40684	-0.32802	0.62855	CXCR1		
ENSG00000148356	9	130203765	130275780	210	17	53479	-0.32829	0.62865	LRSAM1		
ENSG00000060749	11	32904724	33024862	268	23	48528	-0.32831	0.62866	QSER1		
ENSG00000064313	8	120733015	120855103	360	27	36331	-0.3284	0.6287	TAF2		
ENSG00000165525	14	50239997	50329921	98	18	52202	-0.32841	0.6287	NEMF		
ENSG00000187775	17	76409778	76583476	997	146	50665	-0.32845	0.62872	DNAH17		
ENSG00000109099	17	15123095	15178643	133	24	48713	-0.32871	0.62881	PMP22		
ENSG00000181218	1	228635065	228655560	25	9	52651	-0.3289	0.62888	HIST3H2A		
ENSG00000196890	1	228635808	228656259	25	9	52651	-0.3289	0.62888	HIST3H2BB		
ENSG00000144306	2	175250458	175304303	176	13	47713	-0.3289	0.62888	SCRN3		
ENSG00000049860	5	73925848	74028472	375	63	48380	-0.32928	0.62903	HEXB		
ENSG00000006530	7	141240989	141365044	220	25	34803	-0.32927	0.62903	AGK		
ENSG00000133962	14	92037040	92257051	824	97	51214	-0.32942	0.62908	CATSPERB		
ENSG00000143473	1	210846555	211317457	1711	163	48011	-0.33009	0.62933	KCNH1		
ENSG00000100982	20	44553267	44586662	74	19	43733	-0.3301	0.62934	PCIF1		
ENSG00000214029	12	133684740	133717059	107	13	49648	-0.33041	0.62946	ZNF891		
ENSG00000132297	8	133063733	133133406	336	48	46091	-0.33063	0.62954	HHLA1		
ENSG00000135720	16	66744796	66795701	114	9	33112	-0.33063	0.62954	DYNC1L12		
ENSG00000150760	10	128583978	129260781	2158	215	47293	-0.33066	0.62955	DOCK1		
ENSG00000187742	9	91923421	91984557	183	30	50383	-0.33079	0.6296	SECISBP2		
ENSG00000100151	22	38442318	38481708	99	19	48980	-0.331	0.62968	PICK1		

ENSG00000106588	7	42946460	42981822	119	9	53377	-0.33112	0.62972	PSMA2		
ENSG00000254531	4	102258937	102280040	30	10	41930	-0.33113	0.62973	AP001816.1		
ENSG00000101152	20	62516518	62577384	193	26	34681	-0.33118	0.62975	DNAJC5		
ENSG00000145901	5	150399506	150483138	312	55	39377	-0.33121	0.62976	TNIP1		
ENSG00000156097	1	110072494	110101028	41	15	49056	-0.33167	0.62993	GPR61		
ENSG00000177710	8	11178397	11199717	86	9	47709	-0.33189	0.63001	SLC35G5		
ENSG00000124614	6	34375231	34403902	52	11	29239	-0.332	0.63005	RPS10		
ENSG00000182700	5	139495521	139518391	19	7	50352	-0.33215	0.63011	IGIP		
ENSG00000118705	20	35796813	35880022	278	20	50246	-0.33219	0.63013	RPN2		
ENSG00000075303	7	87452883	87515672	143	17	48881	-0.3328	0.63036	SLC25A40		
ENSG00000165630	10	13618927	13682868	196	23	50157	-0.33288	0.63039	PRPF18		
ENSG00000143493	1	212103741	212218884	485	37	52294	-0.33317	0.6305	INTS7		
ENSG00000107140	9	35595367	35620038	58	12	54412	-0.33378	0.63073	TESK1		
ENSG00000125967	20	32234893	32272269	39	12	48991	-0.33388	0.63077	NECAB3		
ENSG00000161999	16	721671	744529	48	13	39651	-0.33403	0.63082	JMJD8		
ENSG00000162623	1	75188836	75242362	184	22	49075	-0.33405	0.63083	TYW3		
ENSG00000100883	14	35441163	35508773	311	21	49749	-0.33509	0.63122	SRP54		
ENSG00000116095	2	179335195	179391189	119	22	33571	-0.33541	0.63134	PLEKHA3		
ENSG00000249679	4	186382670	186403417	59	16	29137	-0.33548	0.63137	RP11-279O9.4		
ENSG00000141965	19	4781728	4805571	110	23	47872	-0.33564	0.63143	FEM1A		
ENSG00000059377	7	139466850	139730125	670	127	42931	-0.33568	0.63145	TBXAS1		
ENSG00000042317	14	88841268	88946694	172	28	41563	-0.33569	0.63145	SPATA7		
ENSG00000171865	2	3582383	3616206	165	24	50305	-0.33572	0.63146	RNASEH1		
ENSG00000186889	2	62717356	62749029	162	29	50466	-0.33595	0.63155	TMEM17		
ENSG00000114450	3	179106990	179179378	169	28	51251	-0.3363	0.63168	GNB4		
ENSG00000079691	6	25269306	25630758	1680	154	49951	-0.33674	0.63184	LRRC16A		
ENSG00000196366	9	139367947	139390518	82	15	42868	-0.33681	0.63187	C9orf163		
ENSG00000007516	16	1373602	1409439	148	27	45886	-0.33697	0.63193	BAIAP3		
ENSG00000243772	19	55239980	55305776	56	28	33793	-0.33699	0.63194	KIR2DL3		
ENSG00000213390	10	98968996	99062413	326	26	46416	-0.33734	0.63207	ARHGAP19		
ENSG00000116147	1	175274330	175722906	1400	165	47743	-0.33751	0.63213	TNR		
ENSG00000163126	2	97480263	97533671	59	11	37556	-0.33776	0.63223	ANKRD23		
ENSG00000177888	1	197112810	197179672	118	15	27080	-0.33817	0.63238	ZBTB41		
ENSG00000102904	16	67830668	67876051	72	21	39971	-0.33832	0.63244	TSNAXIP1		
ENSG00000197766	19	849453	873453	97	28	41102	-0.33845	0.63249	CFD		
ENSG00000198948	4	170897748	170964182	170	27	47182	-0.3385	0.63251	MFAP3L		

ENSG00000142892	1	77544675	77695115	428	33	36040	-0.33873	0.63259	PIGK		
ENSG00000205740	10	1007097	1044281	123	18	49301	-0.33903	0.63271	AL359878.1		
ENSG00000267260	19	37254055	37277980	61	12	48906	-0.33908	0.63273	CTD-2162K18.4		
ENSG00000117174	1	86105106	86184116	260	31	49710	-0.33916	0.63275	ZNHIT6		
ENSG00000169946	8	106320920	106826760	1275	141	44313	-0.33941	0.63285	ZFPM2		
ENSG00000124422	17	20892910	20957073	281	21	51028	-0.33952	0.63289	USP22		
ENSG00000119919	10	101282690	101306278	92	10	53850	-0.33965	0.63294	NKX2-3		
ENSG00000155330	16	46820519	46875323	44	9	31071	-0.33975	0.63298	C16orf87		
ENSG00000172023	2	79302156	79325145	93	15	52212	-0.34001	0.63307	REG1B		
ENSG00000169241	1	155097820	155121329	40	13	44258	-0.34003	0.63308	SLC50A1		
ENSG00000121769	1	31828472	31859697	91	12	31254	-0.34042	0.63323	FABP3		
ENSG00000011347	11	61272785	61358620	133	28	39472	-0.34076	0.63336	SYT7		
ENSG00000138308	10	74684928	74724536	31	15	38232	-0.3409	0.63341	PLA2G12B		
ENSG00000181495	5	32778945	32801819	50	10	46657	-0.34103	0.63346	AC026703.1		
ENSG00000168301	3	58467841	58498087	66	16	48279	-0.34135	0.63358	KCTD6		
ENSG00000077420	10	26717132	26866732	542	49	51697	-0.34135	0.63358	APBB1IP		
ENSG00000109220	4	54865956	54940857	113	13	53411	-0.34196	0.63381	CHIC2		
ENSG00000070669	7	97471430	97511854	170	24	43873	-0.34199	0.63382	ASNS		
ENSG00000164885	7	150740899	150765617	63	17	55439	-0.34201	0.63383	CDK5		
ENSG00000150893	13	39251266	39470074	610	74	42634	-0.34208	0.63386	FREM2		
ENSG00000270898	2	53887430	54097297	725	59	45411	-0.34213	0.63387	ASB3		
ENSG00000129347	19	10653761	10686713	124	21	43325	-0.34268	0.63408	KRI1		
ENSG00000138032	2	44385108	44481523	242	28	49983	-0.34273	0.6341	PPM1B		
ENSG00000102901	16	67852060	67891714	65	15	42833	-0.34283	0.63414	CENPT		
ENSG00000135960	2	109500927	109615828	364	43	44697	-0.34316	0.63426	EDAR		
ENSG00000167555	19	52891102	52931665	155	29	30145	-0.34325	0.63429	ZNF528		
ENSG00000171714	11	22204722	22314903	220	25	40176	-0.34362	0.63443	ANO5		
ENSG00000128512	7	111356166	111856466	1271	184	42228	-0.34363	0.63444	DOCK4		
ENSG00000163518	1	157533539	157577870	160	17	42544	-0.34376	0.63449	FCRL4		
ENSG00000105708	19	19811280	19853906	138	20	43642	-0.34407	0.6346	ZNF14		
ENSG00000197969	9	79782269	80046457	880	57	55177	-0.34454	0.63478	VPS13A		
ENSG00000137462	4	154612652	154636851	50	14	44641	-0.34542	0.63511	TLR2		
ENSG00000164542	7	36353830	36439734	261	35	50025	-0.34565	0.6352	KIAA0895		
ENSG00000258231	12	58927907	59216842	829	101	45891	-0.34595	0.63531	RP11-362K2.2		
ENSG00000167768	12	53058520	53084191	101	16	55277	-0.34602	0.63534	KRT1		
ENSG00000171049	19	52245279	52283779	165	32	43518	-0.3462	0.6354	FPR2		

ENSG00000204381	11	111401005	111442264	77	14	43936	-0.34648	0.63551	LAYN		
ENSG00000181072	7	136543416	136715002	556	56	38430	-0.34666	0.63558	CHRM2		
ENSG00000213337	2	97492348	97533832	46	9	37764	-0.34679	0.63563	ANKRD39		
ENSG00000269182	15	22446895	22470351	3	2	42731	-0.3468	0.63563	AC010760.1		
ENSG00000027644	1	156799855	156838810	82	24	41940	-0.34693	0.63568	INSRR		
ENSG00000196358	9	135027334	135129921	255	49	40476	-0.3471	0.63574	NTNG2		
ENSG00000171794	10	135033778	135055062	104	22	44631	-0.34709	0.63574	UTF1		
ENSG00000143416	1	151326778	151355209	74	20	45263	-0.34715	0.63576	SELENBP1		
ENSG00000269165	10	52084298	52105876	57	13	47540	-0.34718	0.63577	AC069547.1		
ENSG00000105556	19	295575	354798	280	28	32482	-0.34727	0.63581	MIER2		
ENSG00000127081	9	95597874	95650304	176	25	47242	-0.34733	0.63583	ZNF484		
ENSG00000118194	1	201318136	201356890	154	25	38232	-0.34739	0.63585	TNNT2		
ENSG00000187223	1	152625872	152647135	34	7	27585	-0.34741	0.63586	LCE2D		
ENSG00000156860	16	30659752	30692135	25	10	31418	-0.34753	0.6359	FBRS		
ENSG00000261949	19	49917006	49942075	38	16	49252	-0.34781	0.63601	GFY		
ENSG00000126775	14	55823110	55888576	233	22	47596	-0.34822	0.63616	ATG14		
ENSG00000120837	12	104500855	104542067	113	21	51706	-0.34829	0.63619	NFYB		
ENSG00000143344	1	183595220	183907665	1047	79	39687	-0.34849	0.63626	RGL1		
ENSG00000075218	22	46682638	46736707	195	19	36287	-0.34848	0.63626	GTSE1		
ENSG000000052126	12	19272648	19539334	593	67	42140	-0.34877	0.63637	PLEKHA5		
ENSG00000212900	17	39145447	39166138	178	14	39422	-0.34917	0.63652	KRTAP3-2		
ENSG00000108639	17	76154639	76179608	116	26	35453	-0.35037	0.63697	SYNGR2		
ENSG00000256463	18	76730275	76772677	118	27	50325	-0.35097	0.63719	SALL3		
ENSG00000120709	5	137657624	137695416	98	17	47643	-0.35127	0.63731	FAM53C		
ENSG00000116833	1	199986730	200156552	638	96	44466	-0.35129	0.63732	NR5A2		
ENSG00000169031	2	228019281	228189508	928	113	45640	-0.35135	0.63734	COL4A3		
ENSG00000144671	3	38313785	38370066	246	16	49147	-0.35183	0.63752	SLC22A14		
ENSG00000120697	13	37513912	37584398	138	20	41588	-0.352	0.63758	ALG5		
ENSG00000205129	4	186337394	186380980	166	25	32425	-0.35219	0.63765	C4orf47		
ENSG00000125726	19	6573194	6614114	192	36	46978	-0.35227	0.63768	CD70		
ENSG00000166710	15	44993675	45021075	60	16	43154	-0.35235	0.63771	B2M		
ENSG00000057663	6	106622351	106783666	492	38	52917	-0.35237	0.63772	ATG5		
ENSG00000131037	19	55573388	55609291	143	25	52125	-0.35276	0.63786	EPS8L1		
ENSG00000230891	3	25890024	25925191	85	10	31813	-0.35277	0.63787	LINC00692		
ENSG00000111291	12	13083709	13115081	98	25	40170	-0.35279	0.63788	GPRC5D		
ENSG00000109452	4	142934313	143778585	2646	175	42713	-0.353	0.63796	INPP4B		

ENSG00000116396	1	110743965	110835722	312	39	45833	-0.35319	0.63803	KCNC4		
ENSG00000134755	18	28635940	28692378	112	28	47097	-0.35321	0.63804	DSC2		
ENSG00000180999	1	172379828	172447971	221	33	50179	-0.35344	0.63812	C1orf105		
ENSG00000091732	7	129648126	129701291	172	20	46202	-0.35355	0.63816	ZC3HC1		
ENSG00000253710	13	52576534	52613800	77	12	38564	-0.35364	0.63819	ALG11		
ENSG00000140382	15	77702754	77787949	148	16	47506	-0.35437	0.63847	HMG20A		
ENSG00000111254	12	4714674	4768213	221	27	38900	-0.35441	0.63848	AKAP3		
ENSG00000159267	21	38113189	38372536	917	93	47452	-0.35441	0.63848	HLCS		
ENSG00000171161	1	249122409	249153716	37	12	34511	-0.35449	0.63851	ZNF672		
ENSG00000157349	16	70313566	70379186	69	31	48411	-0.35457	0.63854	DDX19B		
ENSG00000067955	16	67053019	67144961	123	19	46448	-0.35472	0.6386	CBFB		
ENSG00000133835	5	118778138	118982894	684	63	46709	-0.35506	0.63873	HSD17B4		
ENSG00000139163	12	22768009	22853599	186	19	39594	-0.35541	0.63886	ETNK1		
ENSG00000149182	11	47175848	47208676	69	14	47173	-0.35547	0.63888	ARFGAP2		
ENSG00000163209	1	152964223	152986332	161	5	52779	-0.35554	0.63891	SPRR3		
ENSG00000188488	14	95017779	95069457	311	42	46769	-0.35568	0.63896	SERPINA5		
ENSG00000116857	1	201093900	201150702	237	46	46285	-0.35605	0.6391	TMEM9		
ENSG00000162241	11	65132663	65161172	46	17	38076	-0.35625	0.63917	SLC25A45		
ENSG00000197217	8	23233296	23325208	363	41	46341	-0.35668	0.63933	ENTPD4		
ENSG00000105865	7	107193929	107228906	63	11	53644	-0.35673	0.63935	DUS4L		
ENSG00000160588	11	118087409	118133065	172	15	39760	-0.35674	0.63936	MPZL3		
ENSG00000173141	13	21740784	21763223	101	16	45104	-0.35693	0.63943	MRP63		
ENSG00000188340	1	158736472	158757425	94	24	44526	-0.35723	0.63954	OR6N2		
ENSG00000172171	17	29214354	29243838	84	7	25632	-0.35724	0.63955	TEFM		
ENSG00000182944	22	29653998	29706515	94	23	51268	-0.35725	0.63955	EWSR1		
ENSG00000182901	1	240921554	241530530	2263	222	45555	-0.35734	0.63958	RGS7		
ENSG00000101109	20	43585115	43718600	282	21	54414	-0.35771	0.63972	STK4		
ENSG00000166478	11	9471866	9560071	204	25	48821	-0.35787	0.63978	ZNF143		
ENSG00000151466	4	129776076	130024764	619	47	47102	-0.35801	0.63983	SCLT1		
ENSG00000180909	11	6163006	6183818	72	16	34076	-0.35799	0.63983	OR52B1P		
ENSG00000215431	18	60481423	60502724	36	8	43516	-0.35799	0.63983	AC015989.1		
ENSG00000100314	22	30106073	30137828	106	18	43927	-0.35809	0.63986	CABP7		
ENSG00000160223	21	45632874	45670849	152	31	43777	-0.35824	0.63992	ICOSLG		
ENSG00000124251	20	43992526	44046529	138	13	39538	-0.35827	0.63993	TP53TG5		
ENSG00000268628	20	19728296	19748679	75	20	43379	-0.35841	0.63998	AL121761.2		
ENSG00000185875	10	25295587	25325593	115	14	40269	-0.35857	0.64004	THNSL1		

ENSG00000185761	19	1495017	1523603	94	22	40900	-0.35877	0.64012	ADAMTSL5		
ENSG00000110047	11	64609114	64665768	117	20	36641	-0.35884	0.64014	EHD1		
ENSG00000159579	16	57210049	57284387	161	22	40471	-0.35885	0.64015	RSPRY1		
ENSG00000213029	1	229430129	229451248	47	8	55653	-0.3593	0.64032	SPHAR		
ENSG00000057608	10	5797186	5894095	323	48	50317	-0.3595	0.64039	GDI2		
ENSG00000156508	6	74215473	74243520	87	13	42583	-0.35967	0.64045	EEF1A1		
ENSG00000176390	17	29086406	29161794	303	8	46358	-0.35967	0.64045	CRLF3		
ENSG00000124882	4	75220860	75264468	206	20	43704	-0.35977	0.64049	EREG		
ENSG00000079332	10	71897045	71940279	184	24	44198	-0.35998	0.64057	SAR1A		
ENSG00000031691	6	49421091	49470820	122	17	51488	-0.36021	0.64066	CENPQ		
ENSG00000100266	22	43221418	43421151	627	38	47731	-0.36034	0.6407	PACSIN2		
ENSG00000161939	17	6905954	6930839	57	8	51261	-0.36064	0.64082	RNASEK-C17orf49		
ENSG00000130487	22	50976462	50999451	158	16	28296	-0.36082	0.64088	KLHDC7B		
ENSG00000136153	13	76184570	76444004	834	96	44538	-0.36094	0.64093	LMO7		
ENSG00000054392	1	210491596	210859638	1539	186	50764	-0.36109	0.64098	HHAT		
ENSG00000172765	3	129356635	129622419	323	34	48312	-0.36144	0.64111	TMCC1		
ENSG00000121680	11	45921220	45950363	38	12	52004	-0.36181	0.64125	PEX16		
ENSG00000268302	20	25197122	25217370	41	9	28924	-0.36182	0.64126	AL035252.1		
ENSG00000189325	6	36273534	36314662	101	29	41972	-0.36187	0.64127	C6orf222		
ENSG00000258555	22	24656866	24848324	537	47	41855	-0.36201	0.64133	SPECC1L-ADORA2A		
ENSG00000168538	4	184570420	184644745	294	38	48464	-0.36205	0.64134	TRAPPC11		
ENSG00000183111	5	148921510	149024531	328	37	41027	-0.36216	0.64138	ARHGEF37		
ENSG00000168028	3	39438180	39464033	180	8	54051	-0.36222	0.64141	RPSA		
ENSG00000173706	3	124674554	124784802	363	47	46525	-0.36282	0.64163	HEG1		
ENSG00000122861	10	75658935	75687255	54	9	32772	-0.36298	0.64169	PLAU		
ENSG00000171051	19	52238425	52317363	383	72	48679	-0.363	0.6417	FPR1		
ENSG00000174279	2	176932200	176958641	64	16	43601	-0.36304	0.64171	EVX2		
ENSG00000152192	13	79162497	79187673	61	12	49334	-0.36321	0.64177	POU4F1		
ENSG00000169403	1	28463677	28530447	101	20	44660	-0.36346	0.64187	PTAFR		
ENSG00000196503	4	57361509	57400614	138	21	40077	-0.36349	0.64188	ARL9		
ENSG00000082512	1	211489957	211558288	189	32	42823	-0.36363	0.64193	TRAF5		
ENSG00000116205	1	54509260	54588192	170	19	29926	-0.36367	0.64195	TCEANC2		
ENSG00000198060	10	94040920	94123721	136	19	34217	-0.36387	0.64202	Mar-05		
ENSG00000126215	14	104153946	104191841	89	18	47527	-0.36394	0.64205	XRCC3		
ENSG00000237136	4	146591356	146702184	380	49	42738	-0.36396	0.64206	C4orf51		
ENSG00000152766	10	90571889	90621575	136	26	45802	-0.36409	0.64211	ANKRD22		

ENSG00000109072	17	26681290	26710110	60	7	30758	-0.36419	0.64214	VTN		
ENSG00000223510	17	14128990	14150179	44	9	46630	-0.36427	0.64217	CDRT15		
ENSG00000126698	1	28515967	28569536	177	15	41860	-0.36476	0.64235	DNAJC8		
ENSG00000136098	13	52696775	52743996	142	19	41929	-0.36489	0.6424	NEK3		
ENSG00000204928	5	145229296	145262531	93	26	36086	-0.36501	0.64245	GRXCR2		
ENSG00000100565	14	77282715	77346645	235	48	51432	-0.36508	0.64247	C14orf166B		
ENSG00000100154	22	28364004	29085853	1511	82	51426	-0.36507	0.64247	TTC28		
ENSG00000167046	20	61262071	61284656	46	12	38938	-0.36514	0.6425	RP11-93B14.6		
ENSG00000164715	7	97726197	97848945	285	42	43777	-0.36517	0.64251	LMTK2		
ENSG00000040199	16	71661738	71768604	249	23	41602	-0.36517	0.64251	PHLPP2		
ENSG00000181924	11	73573712	73598033	74	12	49547	-0.36519	0.64252	COA4		
ENSG00000198791	8	17076737	17114387	96	18	40427	-0.36536	0.64258	CNOT7		
ENSG00000116199	1	178984939	179055697	256	26	51626	-0.36538	0.64259	FAM20B		
ENSG00000253457	8	30486117	30513581	78	15	57016	-0.36542	0.6426	SMIM18		
ENSG00000212993	8	128416535	128442311	111	16	50293	-0.36559	0.64267	POU5F1B		
ENSG00000142528	19	50518971	50566671	107	17	40240	-0.3656	0.64267	ZNF473		
ENSG00000160716	1	154530257	154562502	65	18	49782	-0.36578	0.64273	CHRNA2		
ENSG00000137210	6	10737992	10862986	283	55	49520	-0.36585	0.64276	TMEM14B		
ENSG00000156639	6	37777275	38132400	1114	49	45484	-0.36589	0.64278	ZFAND3		
ENSG00000115942	2	201763696	201838403	110	16	47391	-0.36595	0.6428	ORC2		
ENSG00000137804	15	41614892	41683248	169	19	41777	-0.36623	0.6429	NUSAP1		
ENSG00000160877	19	13218917	13261955	86	18	47536	-0.36626	0.64291	NACC1		
ENSG00000183706	15	22372382	22393507	5	3	43426	-0.36627	0.64292	OR4N4		
ENSG00000093072	22	17650194	17712879	315	53	48672	-0.3665	0.643	CECR1		
ENSG00000186925	21	31903854	31924183	46	5	57064	-0.36668	0.64307	KRTAP19-6		
ENSG00000206047	8	6825171	6847602	37	12	49597	-0.36708	0.64322	DEFA1		
ENSG00000107036	9	5619025	5786557	532	44	48406	-0.36746	0.64336	KIAA1432		
ENSG00000169688	16	56675811	56697116	135	20	46440	-0.36784	0.64351	MT1B		
ENSG00000115271	2	163165350	163238105	65	21	37179	-0.36801	0.64357	GCA		
ENSG00000198643	3	58609673	58662575	234	34	43625	-0.36829	0.64367	FAM3D		
ENSG00000183019	19	7731514	7754712	128	21	47650	-0.36855	0.64377	C19orf59		
ENSG00000164850	7	1111844	1143451	165	29	46246	-0.36893	0.64391	GPB1		
ENSG00000259649	15	81178532	81212118	51	21	46149	-0.36904	0.64395	RP11-351M8.1		
ENSG00000187180	1	152637771	152659050	44	7	28195	-0.36915	0.64399	LCE2C		
ENSG00000197403	1	158725466	158746492	120	18	35241	-0.36926	0.64403	OR6N1		
ENSG00000204495	1	13437414	13462656	2	1	42816	-0.37051	0.6445	PRAMEF13		

ENSG00000177752	4	44614086	44690573	316	24	41299	-0.37063	0.64454	YIPF7		
ENSG00000133317	11	63263556	63294246	43	14	38204	-0.37073	0.64458	LGALS12		
ENSG00000137869	15	51490254	51640807	445	52	37808	-0.37124	0.64477	CYP19A1		
ENSG00000101200	20	3053202	3075370	40	10	37496	-0.3713	0.64479	AVP		
ENSG00000121446	1	182409256	182539734	447	31	45260	-0.37132	0.6448	RGSL1		
ENSG00000067082	10	3808188	3837473	129	21	46788	-0.37146	0.64485	KLF6		
ENSG00000146574	7	6823765	6876401	42	17	44538	-0.37164	0.64492	CCZ1B		
ENSG00000090097	3	51981470	52012426	41	14	32715	-0.37166	0.64493	PCBP4		
ENSG00000123364	12	54322535	54350328	65	12	32407	-0.37172	0.64495	HOXC13		
ENSG00000146386	6	139339819	139374439	118	22	37643	-0.3718	0.64498	ABRACL		
ENSG00000138119	10	95056186	95252074	798	92	39465	-0.37217	0.64512	MYOF		
ENSG00000104231	8	82603569	82655138	202	20	38606	-0.37245	0.64522	ZFAND1		
ENSG00000092929	17	73813306	73850798	117	19	34039	-0.37255	0.64526	UNC13D		
ENSG00000234631	10	115664530	115686949	31	14	49062	-0.37268	0.64531	AL162407.1		
ENSG00000112893	5	109015067	109215326	793	53	41768	-0.37314	0.64548	MAN2A1		
ENSG00000222012	7	157396715	157421457	68	16	40478	-0.3736	0.64565	AC005481.5		
ENSG00000160584	11	116704118	116979153	1056	48	36861	-0.37366	0.64567	SIK3		
ENSG00000100109	22	26877191	26918471	153	32	46002	-0.37379	0.64572	TFIP11		
ENSG00000070190	4	100727990	100801311	265	35	43228	-0.3738	0.64573	DAPP1		
ENSG00000069345	16	46979299	47017699	48	9	34519	-0.37388	0.64575	DNAJA2		
ENSG00000143207	1	175903967	176186629	865	62	42570	-0.37398	0.64579	RFWD2		
ENSG00000230453	9	33514392	33583007	232	37	48051	-0.37421	0.64588	ANKRD18B		
ENSG00000178163	4	10431498	10469034	111	26	44752	-0.37428	0.6459	ZNF518B		
ENSG00000082212	18	48395419	48484691	212	21	47065	-0.37426	0.6459	ME2		
ENSG00000165966	12	41572250	41978392	1539	93	44010	-0.37432	0.64592	PDZRN4		
ENSG00000162761	1	165161104	165335952	613	96	48937	-0.37435	0.64593	LMX1A		
ENSG00000164675	7	123082454	123185131	197	22	55954	-0.3744	0.64595	IQUB		
ENSG00000177243	8	7276410	7297870	2	1	42795	-0.37444	0.64596	DEFB103B		
ENSG00000106128	7	30968284	31042869	280	48	37354	-0.37446	0.64597	GHRHR		
ENSG00000185873	4	69082371	69121438	82	7	33394	-0.37449	0.64598	TMPRSS11B		
ENSG00000236609	7	6645248	6673921	106	22	44129	-0.37485	0.64612	ZNF853		
ENSG00000090932	19	39979535	40009121	86	13	47291	-0.37514	0.64622	DLL3		
ENSG00000144792	3	44609715	44651186	92	14	35255	-0.37527	0.64627	ZNF660		
ENSG00000172346	22	41946767	41983745	69	9	49262	-0.37551	0.64636	CSDC2		
ENSG00000176973	11	65329820	65351669	39	10	47798	-0.37564	0.64641	FAM89B		
ENSG00000188493	19	41236761	41267458	89	16	53371	-0.37573	0.64644	C19orf54		

ENSG00000101665	18	46436223	46487081	160	44	41269	-0.37585	0.64649	SMAD7		
ENSG00000137699	11	119971983	120066237	260	40	38345	-0.37589	0.6465	TRIM29		
ENSG00000151748	14	51088776	51145049	168	19	44703	-0.37594	0.64652	SAV1		
ENSG00000130816	19	10234021	10351962	283	39	45756	-0.37602	0.64655	DNMT1		
ENSG00000188037	7	143003219	143059176	136	30	50733	-0.3761	0.64658	CLCN1		
ENSG00000015520	7	44542134	44590914	104	20	52413	-0.37612	0.64659	NPC1L1		
ENSG00000073067	7	1012835	1039276	111	24	46220	-0.37628	0.64664	CYP2W1		
ENSG00000170385	1	211734910	211762084	75	14	47406	-0.37639	0.64669	SLC30A1		
ENSG00000180138	13	37667398	37689803	98	8	45846	-0.37647	0.64672	CSNK1A1L		
ENSG00000256223	12	133697161	133746051	139	14	49528	-0.37656	0.64675	ZNF10		
ENSG00000141699	17	40721531	40772641	107	13	52961	-0.37664	0.64678	FAM134C		
ENSG00000112309	6	71556382	71676741	367	51	48836	-0.37689	0.64687	B3GAT2		
ENSG00000153294	6	47643600	47699757	252	11	52386	-0.37705	0.64693	GPR115		
ENSG00000143633	1	231349509	231386933	116	23	50121	-0.37718	0.64698	C1orf131		
ENSG00000188177	2	113023171	113107640	204	17	34864	-0.37727	0.64701	ZC3H6		
ENSG00000188452	2	182391403	182555392	490	42	38115	-0.37739	0.64706	CERKL		
ENSG00000071246	14	77218532	77259354	130	38	49560	-0.37757	0.64713	VASH1		
ENSG00000065427	16	75651622	75692541	117	19	34435	-0.37762	0.64714	KARS		
ENSG00000166233	15	72756667	72889692	154	26	52261	-0.37813	0.64733	ARIH1		
ENSG00000100505	14	51431980	51572779	615	83	42693	-0.3782	0.64736	TRIM9		
ENSG00000138867	22	24926406	24961903	118	17	33386	-0.37822	0.64737	GUCD1		
ENSG00000263417	18	68287755	68327980	152	24	45485	-0.37838	0.64742	GTSCR1		
ENSG00000125775	20	1280619	1319883	149	37	44829	-0.37855	0.64749	SDCBP2		
ENSG00000171606	19	58684396	58734928	157	26	46437	-0.37931	0.64777	ZNF274		
ENSG00000170270	14	93659239	93683439	73	14	50396	-0.37936	0.64779	C14orf142		
ENSG00000182810	16	68045179	68067770	31	9	49527	-0.37948	0.64783	DDX28		
ENSG00000063046	12	53389942	53445993	145	11	25282	-0.3795	0.64784	EIF4B		
ENSG00000085831	1	51742930	51820788	165	35	51330	-0.37963	0.64789	TTC39A		
ENSG00000177575	12	7613409	7666489	124	26	41274	-0.37965	0.6479	CD163		
ENSG00000166851	16	23678977	23711688	107	12	38106	-0.37975	0.64794	PLK1		
ENSG00000169717	1	2928046	2949465	62	9	48604	-0.37984	0.64797	ACTRT2		
ENSG00000108829	17	48442420	48484914	144	17	48748	-0.37992	0.648	LRRC59		
ENSG00000100084	22	19308221	19445224	304	36	36928	-0.37992	0.648	HIRA		
ENSG00000146263	6	97580037	97741093	360	26	36694	-0.38025	0.64812	MMS22L		
ENSG00000062725	17	58510520	58613580	74	37	46657	-0.38042	0.64818	APPBP2		
ENSG00000108823	17	48231575	48263292	79	19	42240	-0.38062	0.64826	SGCA		

ENSG00000213741	14	50033390	50075408	108	11	44532	-0.38073	0.6483	RPS29		
ENSG00000260869	16	30535548	30579600	52	19	35110	-0.38101	0.6484	AC002310.13		
ENSG00000180758	1	9150364	9199229	143	24	50494	-0.38109	0.64843	GPR157		
ENSG00000173404	20	20338765	20361590	38	14	41923	-0.38114	0.64845	INSM1		
ENSG00000169679	2	111385275	111445691	68	16	37096	-0.38122	0.64848	BUB1		
ENSG00000180483	20	29954967	29988406	98	18	43262	-0.38125	0.64849	DEFB119		
ENSG00000177125	9	129612944	129658157	91	24	43138	-0.38126	0.6485	ZBTB34		
ENSG00000183077	17	76173398	76213782	215	46	39536	-0.3814	0.64855	AFMID		
ENSG00000127083	9	95166527	95196743	86	13	46490	-0.38164	0.64864	OMD		
ENSG00000268351	11	69577254	69597718	80	22	42692	-0.38219	0.64884	AP001888.1		
ENSG00000259066	14	93641318	93694932	174	30	50844	-0.38223	0.64885	RP11-371E8.4		
ENSG00000205334	2	27918653	27948599	21	8	44798	-0.38232	0.64889	AC074091.13		
ENSG00000119737	2	54070050	54097126	85	15	39859	-0.38265	0.64901	GPR75		
ENSG00000162616	1	78434859	78493648	172	28	43943	-0.38267	0.64902	DNAJB4		
ENSG00000117222	1	205045270	205101143	172	21	26805	-0.38274	0.64904	RBBP5		
ENSG00000197933	19	11822080	11859824	90	16	36154	-0.38284	0.64908	ZNF823		
ENSG00000059145	16	1403206	1474752	199	29	50954	-0.38319	0.64921	UNKL		
ENSG00000272921	12	4704110	4781809	293	37	38447	-0.38327	0.64924	RP11-500M8.7		
ENSG00000213639	2	28964506	29035806	161	15	44887	-0.38332	0.64926	PPP1CB		
ENSG00000188263	22	50422942	50461088	145	23	52441	-0.38348	0.64932	IL17REL		
ENSG00000177182	8	61959717	62424204	1416	118	37417	-0.38377	0.64942	CLVS1		
ENSG00000181467	3	152870029	152896265	31	15	46722	-0.38377	0.64943	RAP2B		
ENSG00000205678	4	65130975	65285186	598	36	35200	-0.38392	0.64948	TECRL		
ENSG00000135824	1	182605239	182663711	155	23	41102	-0.38416	0.64957	RGS8		
ENSG00000152465	10	15134583	15220692	340	49	39554	-0.38415	0.64957	NMT2		
ENSG00000151779	2	15297032	15711454	1043	50	28835	-0.38422	0.64959	NBAS		
ENSG00000269891	10	98747795	99062413	974	123	41783	-0.38432	0.64963	ARHGAP19-SLIT1		
ENSG00000106477	7	130023612	130092274	168	34	52984	-0.38434	0.64964	CEP41		
ENSG00000163249	2	208566264	208636563	190	12	29775	-0.38448	0.64969	CCNYL1		
ENSG00000197008	7	64244766	64304054	261	22	45881	-0.3845	0.6497	ZNF138		
ENSG00000154153	5	16463147	16627167	512	80	50400	-0.38469	0.64977	FAM134B		
ENSG00000039123	5	54593588	54731409	354	14	36163	-0.38473	0.64978	SKIV2L2		
ENSG00000109083	17	26645352	26672515	38	10	45467	-0.38476	0.64979	IFT20		
ENSG00000168785	4	99381518	99589780	626	96	43649	-0.38477	0.6498	TSPAN5		
ENSG00000155744	2	201828441	201946394	232	26	45347	-0.38489	0.64984	FAM126B		
ENSG00000136448	17	43118978	43196384	266	28	52386	-0.38488	0.64984	NMT1		

ENSG00000105323	19	41758401	41823503	116	15	54134	-0.38525	0.64997	<i>HNRNPUL1</i>		
ENSG00000184731	2	28814	56870	72	13	28239	-0.38526	0.64998	<i>FAM110C</i>		
ENSG00000167394	16	31062164	31095641	61	9	21755	-0.38526	0.64998	<i>ZNF668</i>		
ENSG00000197102	14	102420865	102527129	273	30	35702	-0.38541	0.65003	<i>DYNC1H1</i>		
ENSG00000122012	5	75368997	75659764	1026	115	45597	-0.38575	0.65016	<i>SV2C</i>		
ENSG00000121864	3	179030779	179063323	81	16	52312	-0.38616	0.65031	<i>ZNF639</i>		
ENSG00000151883	5	49951733	50152356	415	34	45231	-0.38641	0.6504	<i>PARP8</i>		
ENSG00000173575	15	93416526	93581237	515	58	41190	-0.38641	0.6504	<i>CHD2</i>		
ENSG00000107625	10	70651034	70716603	216	28	48964	-0.38687	0.65057	<i>DDX50</i>		
ENSG00000004846	7	20644830	20826658	650	75	47242	-0.38697	0.65061	<i>ABCB5</i>		
ENSG00000171860	12	8200898	8229067	58	18	44330	-0.38698	0.65061	<i>C3AR1</i>		
ENSG00000128000	19	40524167	40572116	107	9	45572	-0.38704	0.65064	<i>ZNF780B</i>		
ENSG00000175911	17	78967135	78988932	117	18	38868	-0.38736	0.65076	<i>AC127496.1</i>		
ENSG00000258986	14	104931015	105081984	527	62	32702	-0.38748	0.6508	<i>TMEM179</i>		
ENSG00000111729	12	8266228	8301203	56	14	36004	-0.38762	0.65085	<i>CLEC4A</i>		
ENSG00000126804	14	64960430	65010408	160	15	56755	-0.38762	0.65085	<i>ZBTB1</i>		
ENSG00000081052	2	227857427	228038829	612	63	45707	-0.38777	0.65091	<i>COL4A4</i>		
ENSG00000141956	21	43208385	43309591	553	74	47290	-0.38805	0.65101	<i>PRDM15</i>		
ENSG00000140262	15	57200821	57601479	1144	44	36739	-0.38808	0.65102	<i>TCF12</i>		
ENSG00000100568	14	68103792	68151548	115	17	37303	-0.3881	0.65103	<i>VTI1B</i>		
ENSG00000184544	17	9664751	9704614	186	32	48238	-0.38819	0.65106	<i>DHRS7C</i>		
ENSG00000110169	11	6442279	6473847	60	10	53085	-0.38831	0.65111	<i>HPX</i>		
ENSG00000167183	17	46019333	46045244	84	17	49915	-0.38845	0.65116	<i>PRR15L</i>		
ENSG00000108669	17	76660130	76788379	322	30	38368	-0.38858	0.65121	<i>CYTH1</i>		
ENSG00000269018	11	65348665	65369947	53	10	52101	-0.38931	0.65148	<i>AP001362.1</i>		
ENSG00000168890	2	85815671	85840319	45	12	37984	-0.38947	0.65154	<i>TMEM150A</i>		
ENSG00000217555	16	66576466	66610154	82	7	22267	-0.38971	0.65162	<i>CKLF</i>		
ENSG00000236398	7	142870512	142891528	35	8	29442	-0.3898	0.65166	<i>TAS2R39</i>		
ENSG00000163161	2	128004866	128061752	152	26	51929	-0.38985	0.65168	<i>ERCC3</i>		
ENSG00000198833	6	90026344	90072567	117	30	46381	-0.39008	0.65176	<i>UBE2J1</i>		
ENSG00000125107	16	58543855	58673790	444	27	38400	-0.39027	0.65183	<i>CNOT1</i>		
ENSG00000187033	3	169619360	169666963	155	23	52340	-0.39052	0.65192	<i>SAMD7</i>		
ENSG00000175787	9	97011593	97073736	257	32	44354	-0.39066	0.65198	<i>ZNF169</i>		
ENSG00000070031	11	616431	637143	85	17	45106	-0.39075	0.65201	<i>SCT</i>		
ENSG00000188921	9	20985306	21041635	201	23	53313	-0.39086	0.65205	<i>PTPLAD2</i>		
ENSG00000119723	14	74406629	74440373	132	17	38823	-0.391	0.6521	<i>COQ6</i>		

ENSG00000089737	14	94507266	94557591	166	17	43087	-0.39129	0.65221	DDX24		
ENSG00000168062	11	64745415	64774517	64	15	42217	-0.39146	0.65227	BATF2		
ENSG00000198722	9	35151999	35415335	427	43	49510	-0.39194	0.65245	UNC13B		
ENSG00000155893	3	140937568	141023748	314	42	33348	-0.39199	0.65247	ACPL2		
ENSG00000223547	19	12165514	12202380	96	11	28958	-0.39199	0.65247	ZNF844		
ENSG00000268083	19	39298111	39340818	114	20	40159	-0.39203	0.65248	AC104534.3		
ENSG00000119321	9	115913286	115993641	371	37	51541	-0.3922	0.65254	FKBP15		
ENSG00000070808	5	149589054	149679854	232	46	41270	-0.39255	0.65267	CAMK2A		
ENSG00000130304	19	17569578	17626977	167	30	43691	-0.39265	0.65271	SLC27A1		
ENSG00000109265	4	57026361	57204791	629	117	45678	-0.39269	0.65273	KIAA1211		
ENSG00000251695	12	69176125	69197743	58	20	39388	-0.39284	0.65278	AC124890.1		
ENSG00000121542	3	122910774	123002977	358	11	52977	-0.39307	0.65287	SEC22A		
ENSG00000223874	2	217725495	217746362	69	14	39716	-0.39318	0.65291	AC007557.1		
ENSG00000100426	22	50237490	50293726	220	15	27851	-0.39322	0.65292	ZBED4		
ENSG00000176381	6	166709168	166731936	108	14	47683	-0.39337	0.65298	PRR18		
ENSG00000181616	11	5555719	5576779	124	6	22586	-0.39346	0.65301	OR52H1		
ENSG00000143742	1	225955531	225988168	140	24	48597	-0.39461	0.65343	SRP9		
ENSG00000006606	7	75388851	75429214	169	23	49429	-0.39461	0.65343	CCL26		
ENSG00000164938	8	95928200	95971639	152	17	48258	-0.39461	0.65344	TP53INP1		
ENSG00000105939	7	138718266	138804465	289	38	42269	-0.39467	0.65346	ZC3HAV1		
ENSG00000075388	11	69577797	69600171	94	23	42521	-0.39514	0.65363	FGF4		
ENSG00000126337	17	39632388	39658798	94	17	54595	-0.39531	0.65369	KRT36		
ENSG00000187556	19	13962877	14001571	88	16	37969	-0.39532	0.6537	NANOS3		
ENSG00000174007	3	196423148	196449164	111	17	47496	-0.39536	0.65371	CEP19		
ENSG00000205922	19	1742372	1790987	137	39	45633	-0.39535	0.65371	ONECUT3		
ENSG00000121766	1	31759842	31847783	245	19	32375	-0.39561	0.65381	ZCCHC17		
ENSG00000182330	1	13376646	13400765	4	2	35118	-0.39587	0.6539	PRAMEF8		
ENSG00000114279	3	191847184	192495553	1937	222	41549	-0.3963	0.65406	FGF12		
ENSG00000144488	2	238998798	239051928	273	40	43557	-0.39636	0.65408	ESPNL		
ENSG00000127324	12	71508865	71845678	1088	85	48531	-0.39655	0.65415	TSPAN8		
ENSG00000181284	17	7328762	7350998	42	13	42409	-0.39691	0.65428	TMEM102		
ENSG00000236669	7	157308477	157330019	89	13	47442	-0.39693	0.65429	AC006372.1		
ENSG00000090554	19	49967464	49999488	100	15	31426	-0.39696	0.6543	FLT3LG		
ENSG00000134438	18	56924267	56951318	124	15	50077	-0.39711	0.65436	RAX		
ENSG00000078900	1	3559084	3662765	352	77	41291	-0.3972	0.65439	TP73		
ENSG00000149534	11	59845734	59873444	95	15	36297	-0.39722	0.6544	MS4A2		

ENSG00000127129	1	41934446	41960344	100	23	51664	-0.39731	0.65443	EDN2		
ENSG00000068024	2	239959864	240333348	1347	160	45576	-0.39737	0.65445	HDAC4		
ENSG00000157613	11	46289212	46352972	122	25	43237	-0.39743	0.65448	CREB3L1		
ENSG00000196188	1	206307459	206342104	12	6	37665	-0.39754	0.65451	CTSE		
ENSG00000114491	3	124439213	124474040	178	18	53752	-0.39771	0.65458	UMPS		
ENSG00000126803	14	64992623	65019955	99	15	56436	-0.39782	0.65462	HSPA2		
ENSG00000104356	8	99119525	99182062	282	36	50453	-0.39789	0.65465	POP1		
ENSG00000177688	6	149711495	149732177	74	12	40532	-0.39803	0.6547	SUMO4		
ENSG00000187607	17	15592891	15650874	159	27	42565	-0.39806	0.65471	ZNF286A		
ENSG00000236320	17	33865144	33895117	143	25	45505	-0.39819	0.65476	SLFN14		
ENSG00000138109	10	96688415	96759147	291	23	55875	-0.39828	0.65479	CYP2C9		
ENSG00000134962	4	39398473	39463156	254	42	48382	-0.39841	0.65484	KLB		
ENSG00000187175	21	46091491	46112078	186	15	56239	-0.39845	0.65485	KRTAP12-1		
ENSG00000196152	9	130176661	130217651	98	8	54538	-0.39864	0.65492	ZNF79		
ENSG00000163319	4	84367085	84400888	84	10	35458	-0.39866	0.65493	MRPS18C		
ENSG00000171102	9	136070664	136094630	100	15	38260	-0.39886	0.655	OBP2B		
ENSG00000162390	1	54997930	55114865	471	76	42552	-0.39913	0.6551	ACOT11		
ENSG00000140854	16	57759642	57801162	129	29	44278	-0.39938	0.65519	KATNB1		
ENSG00000104529	8	144651867	144691711	169	20	38992	-0.39961	0.65528	EEF1D		
ENSG00000100307	22	39506172	39558679	197	26	43725	-0.39972	0.65532	CBX7		
ENSG00000164190	5	36866861	37076515	313	40	47111	-0.39983	0.65536	NIPBL		
ENSG00000145681	5	82923624	83027432	302	53	45978	-0.3999	0.65539	HAPLN1		
ENSG00000096006	6	49685097	49722150	112	17	48260	-0.40053	0.65562	CRISP3		
ENSG00000070423	19	637526	673277	161	41	45587	-0.40055	0.65563	RNF126		
ENSG00000144810	3	99347319	99528070	484	56	53259	-0.4006	0.65564	COL8A1		
ENSG00000149124	11	58397899	58509447	429	45	44172	-0.40062	0.65565	GLYAT		
ENSG00000164674	6	159061046	159195908	497	70	43031	-0.40099	0.65579	SYTL3		
ENSG00000112562	6	168831831	169083984	1048	119	41561	-0.40109	0.65582	SMOC2		
ENSG00000137818	15	69735123	69758255	27	8	26140	-0.40111	0.65583	RPLP1		
ENSG00000165025	9	93554069	93670831	585	84	49552	-0.40156	0.656	SYK		
ENSG00000178295	2	17925125	17976632	143	21	40892	-0.40172	0.65606	GEN1		
ENSG00000130544	19	7059455	7097979	128	26	45629	-0.402	0.65616	ZNF557		
ENSG00000198818	6	166723216	166766079	119	13	51407	-0.40212	0.6562	SFT2D1		
ENSG00000198892	1	201847808	201871434	44	13	52156	-0.40219	0.65623	SHISA4		
ENSG00000176903	14	74168494	74191128	84	18	34432	-0.40222	0.65624	PNMA1		
ENSG00000089177	20	16242749	16564078	1312	116	48723	-0.40245	0.65632	KIF16B		

ENSG00000204566	10	23482745	23538745	80	19	45347	-0.40255	0.65636	<i>C10orf115</i>		
ENSG00000101445	20	37424348	37561667	377	61	54809	-0.40271	0.65642	<i>PPP1R16B</i>		
ENSG00000151353	2	657335	687439	104	19	44932	-0.40293	0.6565	<i>TMEM18</i>		
ENSG00000151092	3	25750435	25841530	103	18	43247	-0.40325	0.65662	<i>NGLY1</i>		
ENSG00000197410	4	155143399	155422930	880	103	42986	-0.40359	0.65674	<i>DCHS2</i>		
ENSG00000185272	21	15578451	15610693	229	21	53166	-0.40367	0.65677	<i>RBM11</i>		
ENSG00000196381	19	38148652	38193223	111	20	36491	-0.4037	0.65678	<i>ZNF781</i>		
ENSG00000269515	10	44863687	44888739	120	20	53878	-0.40387	0.65685	<i>AL137026.1</i>		
ENSG00000179774	10	69980386	70001871	83	18	40983	-0.40389	0.65685	<i>ATOX7</i>		
ENSG00000151229	12	40138823	40509891	1085	102	49808	-0.4039	0.65686	<i>SLC2A13</i>		
ENSG00000215595	20	1174098	1198918	106	16	46880	-0.40392	0.65686	<i>C20orf202</i>		
ENSG00000172458	13	21266266	21307237	116	17	32856	-0.40415	0.65695	<i>IL17D</i>		
ENSG00000185730	8	144361846	144390231	125	10	29711	-0.40447	0.65707	<i>ZNF696</i>		
ENSG00000054277	1	241743404	241850678	372	83	48969	-0.40451	0.65708	<i>OPN3</i>		
ENSG00000149090	11	35443370	35561848	447	65	47141	-0.40454	0.65709	<i>PAMR1</i>		
ENSG00000180801	4	114811440	114910883	247	27	48144	-0.40484	0.6572	<i>ARSL</i>		
ENSG00000117519	1	95352507	95402834	185	39	51907	-0.40489	0.65722	<i>CNN3</i>		
ENSG00000268553	5	172026245	172046436	70	23	42191	-0.40548	0.65744	<i>AC027309.1</i>		
ENSG00000150051	10	27951804	28044989	223	30	46247	-0.40572	0.65753	<i>MKX</i>		
ENSG00000007168	17	2486504	2598909	275	27	44300	-0.40576	0.65754	<i>PAFAH1B1</i>		
ENSG00000126003	20	30770306	30805594	28	5	29754	-0.40595	0.65761	<i>PLAGL2</i>		
ENSG00000168899	2	85801531	85830535	84	14	44027	-0.40608	0.65766	<i>VAMP5</i>		
ENSG00000182315	19	7046220	7068651	19	11	48879	-0.40607	0.65766	<i>MBD3L3</i>		
ENSG00000175264	11	45660427	45697172	115	19	41927	-0.40621	0.65771	<i>CHST1</i>		
ENSG00000085982	2	234374166	234485428	238	18	50016	-0.40659	0.65785	<i>USP40</i>		
ENSG00000215182	11	1141580	1232364	172	21	42403	-0.40667	0.65787	<i>MUC5AC</i>		
ENSG00000206531	3	112524556	112575703	250	31	44980	-0.40699	0.65799	<i>CD200R1L</i>		
ENSG00000256646	7	42938872	42981773	144	10	53788	-0.40716	0.65805	<i>PSMA2</i>		
ENSG00000254206	16	29382675	29425350	47	18	38682	-0.40728	0.6581	<i>NP1PB11</i>		
ENSG00000167257	11	117093341	117167161	213	33	43241	-0.4074	0.65814	<i>RNF214</i>		
ENSG00000183010	17	79880260	79910288	63	12	44703	-0.40751	0.65818	<i>PYCR1</i>		
ENSG00000138629	15	74728318	74763523	92	9	27721	-0.40787	0.65832	<i>UBL7</i>		
ENSG00000073150	22	50599160	50628723	116	29	49900	-0.40805	0.65838	<i>PANX2</i>		
ENSG00000004864	7	95739532	95961459	317	25	46667	-0.4081	0.6584	<i>SLC25A13</i>		
ENSG00000149573	11	118114118	118145251	142	17	45491	-0.40826	0.65846	<i>MPZL2</i>		
ENSG00000160710	1	154544538	154610475	148	16	49901	-0.40845	0.65853	<i>ADAR</i>		

ENSG00000157985	2	236392733	237050444	1699	158	43861	-0.4086	0.65858	AGAP1		
ENSG00000180998	14	53009866	53114431	277	37	47034	-0.40898	0.65872	GPR137C		
ENSG00000109756	4	160015330	160291321	599	61	43131	-0.40929	0.65884	RAPGEF2		
ENSG00000162510	1	31174124	31206434	141	13	38442	-0.40943	0.65889	MATN1		
ENSG00000066135	1	44105829	44181186	146	20	36243	-0.40956	0.65893	KDM4A		
ENSG00000188010	2	39093103	39166213	156	21	40238	-0.40973	0.659	MORN2		
ENSG00000135778	1	233076351	233129628	151	14	54541	-0.41015	0.65915	NTPCR		
ENSG00000222014	2	130727235	130750311	35	6	22864	-0.41034	0.65922	RAB6C		
ENSG00000178502	17	39999797	40031684	103	9	52882	-0.41044	0.65926	KLHL11		
ENSG00000176723	16	31435569	31464346	47	14	45399	-0.41067	0.65934	ZNF843		
ENSG00000148377	10	1054847	1081799	119	23	49830	-0.41105	0.65948	IDI2		
ENSG00000173559	2	192532794	192571385	82	18	52832	-0.41152	0.65965	NABP1		
ENSG00000111319	12	6446009	6496896	127	46	38486	-0.41155	0.65966	SCNN1A		
ENSG00000165621	13	97627973	97656984	82	20	41777	-0.4116	0.65968	OXGR1		
ENSG00000145375	4	123834229	124250605	1563	68	33106	-0.41172	0.65973	SPATA5		
ENSG00000233539	7	46703383	46809449	433	59	49990	-0.41182	0.65977	AC011294.3		
ENSG00000167077	22	42085503	42205460	299	21	41715	-0.41185	0.65978	MEI1		
ENSG00000109436	4	141531919	141687274	414	61	43468	-0.41206	0.65985	TBC1D9		
ENSG00000184845	5	174857042	174881211	79	20	46816	-0.41219	0.6599	DRD1		
ENSG00000012048	17	41186312	41287500	239	10	48613	-0.41228	0.65993	BRCA1		
ENSG00000164073	4	128828960	128897150	64	24	43583	-0.41263	0.66006	MFSD8		
ENSG00000267848	20	62575007	62595495	51	17	44806	-0.41279	0.66012	AL118506.1		
ENSG00000186150	1	110645062	110666569	64	11	33427	-0.41286	0.66014	UBL4B		
ENSG00000164822	8	6772215	6793598	130	31	48834	-0.41312	0.66024	DEFA6		
ENSG00000173372	1	22952999	22976101	87	13	34891	-0.41317	0.66026	C1QA		
ENSG00000148200	9	127269554	127543589	207	30	46691	-0.4133	0.66031	NR6A1		
ENSG00000078081	3	182830001	182891627	282	33	44903	-0.41358	0.66041	LAMP3		
ENSG00000164363	5	1215470	1256304	179	36	43458	-0.41364	0.66043	SLC6A18		
ENSG00000125971	20	33094214	33138762	57	12	51702	-0.41388	0.66052	DYNLRB1		
ENSG00000070614	5	149855381	149947773	233	29	40957	-0.41439	0.66071	NDST1		
ENSG00000186723	19	15907817	15928936	105	15	46833	-0.41453	0.66076	OR10H1		
ENSG00000134986	5	110988318	111343161	1021	98	37909	-0.41468	0.66081	NREP		
ENSG00000170961	8	122614356	122663630	137	23	39762	-0.41472	0.66083	HAS2		
ENSG00000186480	7	155079486	155111945	182	23	43580	-0.41484	0.66087	INSIG1		
ENSG00000161682	17	42420583	42451243	47	17	47448	-0.41495	0.66091	FAM171A2		
ENSG00000105255	19	4294597	4333840	150	32	51175	-0.41512	0.66097	FSD1		

ENSG00000183576	14	99854083	99957216	164	15	49328	-0.41516	0.66099	SETD3		
ENSG00000166987	12	57904493	57933931	35	5	48257	-0.41566	0.66117	MBD6		
ENSG00000173068	9	16399501	16880841	1495	142	33981	-0.41579	0.66122	BNC2		
ENSG00000138796	4	108900870	108966331	182	11	30291	-0.41585	0.66124	HADH		
ENSG00000109501	4	6261576	6314992	259	20	51640	-0.41627	0.66139	WFS1		
ENSG00000189090	10	47167204	47191681	1	1	42685	-0.41629	0.6614	FAM25B		
ENSG00000163116	4	98095244	99074391	2945	86	49162	-0.41644	0.66146	STPG2		
ENSG00000113319	5	80246491	80535975	991	154	50627	-0.41665	0.66153	RASGRF2		
ENSG00000113492	5	34988206	35058198	265	40	45154	-0.41672	0.66156	AGXT2		
ENSG00000219200	17	6905736	6927851	55	8	51848	-0.41682	0.6616	RNASEK		
ENSG00000269871	17	6905928	6927755	55	8	51848	-0.41682	0.6616	AC040977.1		
ENSG00000266967	17	41092543	41126515	32	10	34383	-0.41694	0.66164	AARSD1		
ENSG00000134216	1	111823484	111873188	357	37	54181	-0.41702	0.66167	CHIA		
ENSG00000108106	19	55902652	55929145	129	25	36849	-0.41712	0.6617	UBE2S		
ENSG00000174574	1	39446895	39481731	131	16	36314	-0.41748	0.66184	AKIRIN1		
ENSG00000154007	1	76374558	76408116	139	20	49073	-0.41767	0.6619	ASB17		
ENSG00000132275	11	6606305	6634850	80	19	48379	-0.41764	0.6619	RRP8		
ENSG00000169629	2	113117669	113202065	57	16	49096	-0.41777	0.66194	RGPD8		
ENSG00000071205	4	148643214	149003931	683	92	34540	-0.41785	0.66197	ARHGAP10		
ENSG00000187811	11	71282956	71328487	257	28	37517	-0.41789	0.66198	AP000867.1		
ENSG00000187902	19	55930107	55964230	91	25	44613	-0.41793	0.662	SHISA7		
ENSG00000140403	15	78546428	78584538	136	23	53493	-0.41807	0.66205	DNAJA4		
ENSG00000197646	9	5500545	5581282	232	41	44583	-0.41831	0.66214	PDCD1LG2		
ENSG00000156026	10	74441889	74657452	234	26	33534	-0.4185	0.66221	MCU		
ENSG00000138623	15	74691630	74736808	130	21	29089	-0.4185	0.66221	SEMA7A		
ENSG00000185344	12	124186865	124256302	257	21	45792	-0.41855	0.66223	ATP6V0A2		
ENSG00000156853	16	30603879	30645333	43	7	25637	-0.41903	0.6624	ZNF689		
ENSG00000016391	3	53836362	53890417	189	41	36247	-0.41905	0.66241	CHDH		
ENSG00000154146	11	124599742	124627106	55	14	42296	-0.41907	0.66242	NRGN		
ENSG00000101251	20	13819893	13987089	556	76	53465	-0.41919	0.66246	SEL1L2		
ENSG00000119326	9	111694851	111785809	303	33	50347	-0.41927	0.66249	CTNNAL1		
ENSG00000170848	19	43396231	43433715	101	11	24564	-0.41948	0.66257	PSG6		
ENSG00000150787	11	112087088	112150678	221	11	51538	-0.41973	0.66266	PTS		
ENSG00000142512	19	51903275	51931057	121	14	45766	-0.41978	0.66268	SIGLEC10		
ENSG00000205307	7	100159855	100181270	47	11	51770	-0.41994	0.66273	SAP25		
ENSG00000204152	10	51361390	51397768	4	2	27830	-0.42004	0.66277	TIMM23B		

ENSG00000175691	19	2923216	2954969	107	33	43948	-0.42031	0.66287	ZNF77		
ENSG00000137473	4	147617790	147877034	703	50	48265	-0.42034	0.66288	TTC29		
ENSG00000065717	19	2987636	3057633	269	66	41871	-0.42045	0.66292	TLE2		
ENSG00000205718	19	7027759	7050190	8	5	39290	-0.42049	0.66294	MBD3L4		
ENSG00000169515	19	46903629	46926841	138	26	46227	-0.4205	0.66294	CCDC8		
ENSG00000196312	9	99650348	99785862	134	27	38210	-0.42071	0.66302	HIATL2		
ENSG00000100196	22	38854067	38889452	73	24	44288	-0.42074	0.66303	KDELR3		
ENSG00000113269	5	179328651	179509118	512	59	43174	-0.42124	0.66321	RNF130		
ENSG00000164808	8	48163167	48658868	469	59	39763	-0.42144	0.66328	SPIDR		
ENSG00000140939	16	67194057	67219643	26	9	39878	-0.42152	0.66331	NOL3		
ENSG00000188529	1	24281294	24317417	22	5	27811	-0.4218	0.66342	SRSF10		
ENSG00000111802	6	24640205	24677261	155	25	47981	-0.42202	0.66349	TDP2		
ENSG00000163848	3	124934405	125104198	366	18	49125	-0.4221	0.66352	ZNF148		
ENSG00000178096	1	149849440	149882351	68	10	49373	-0.42216	0.66355	BOLA1		
ENSG00000099260	1	100101499	100170097	207	31	38584	-0.42242	0.66364	PALMD		
ENSG00000159593	16	66826778	66917159	170	18	41577	-0.42251	0.66367	NAE1		
ENSG00000166845	18	51874287	51921588	216	13	50961	-0.42263	0.66372	C18orf54		
ENSG00000172738	6	37169956	37235931	134	22	51904	-0.42274	0.66376	TMEM217		
ENSG00000146090	5	179517795	179646153	598	118	47169	-0.42295	0.66384	RASGEF1C		
ENSG00000244025	21	31853782	31874275	43	5	53807	-0.42298	0.66385	KRTAP19-3		
ENSG00000163746	3	146099208	146223778	405	24	54419	-0.42308	0.66388	PLSCR2		
ENSG00000184178	4	53729149	54242242	1421	120	45379	-0.4231	0.66389	SCFD2		
ENSG00000153933	17	54901460	54956036	147	13	53252	-0.42328	0.66396	DGKE		
ENSG00000151364	11	77716761	77767237	200	26	48670	-0.4234	0.664	KCTD14		
ENSG00000160803	1	155995092	156033585	67	21	40478	-0.42348	0.66403	UBQLN4		
ENSG00000187068	3	184785838	184880802	341	41	51091	-0.42352	0.66404	C3orf70		
ENSG00000197150	7	150715510	150754869	109	26	54066	-0.42357	0.66406	ABCB8		
ENSG00000083535	13	73346197	73600591	698	51	49606	-0.42371	0.66411	PIBF1		
ENSG00000213213	9	139680802	139712193	90	14	53518	-0.42375	0.66413	CCDC183		
ENSG00000108352	17	38323263	38361908	88	17	40109	-0.42384	0.66416	RAPGEFL1		
ENSG00000171574	19	58902871	58939694	143	13	49156	-0.42392	0.66419	ZNF584		
ENSG00000134899	13	103487194	103538345	126	20	46445	-0.42412	0.66426	ERCC5		
ENSG00000170004	17	7778124	7826078	114	26	45166	-0.42411	0.66426	CHD3		
ENSG00000160179	21	43609799	43727354	482	89	48614	-0.42418	0.66428	ABCG1		
ENSG00000134765	18	28699199	28752819	237	21	42284	-0.42442	0.66437	DSC1		
ENSG00000198133	14	67903801	68010456	420	73	44691	-0.42462	0.66444	TMEM229B		

ENSG00000213886	6	29513292	29537702	85	19	37388	-0.42463	0.66445	UBD		
ENSG00000188107	6	64419876	66427118	7023	254	48708	-0.4251	0.66462	EYS		
ENSG00000105185	19	33061974	33088358	79	12	46268	-0.4251	0.66462	PDCD5		
ENSG00000205236	7	102212970	102293316	4	2	43033	-0.42513	0.66463	RP11-514P8.6		
ENSG00000113068	5	139614624	139692706	153	14	50348	-0.42554	0.66478	PFDN1		
ENSG00000185482	12	57627236	57654976	25	9	45963	-0.42553	0.66478	STAC3		
ENSG00000121871	3	164894508	164924897	74	13	47910	-0.42566	0.66482	SLITRK3		
ENSG00000135932	2	231567560	231695790	270	28	40008	-0.42618	0.66501	CAB39		
ENSG00000164488	6	168683510	168730434	216	41	40159	-0.42628	0.66505	DACT2		
ENSG00000187792	22	24073769	24103279	90	19	44892	-0.42659	0.66516	ZNF70		
ENSG00000268421	10	131298884	131319525	155	12	32726	-0.42681	0.66524	AL355531.2		
ENSG00000122694	9	36126732	36173910	194	35	50215	-0.42719	0.66538	GLIPR2		
ENSG00000147613	8	87050602	87110850	169	21	41258	-0.42785	0.66562	PSKH2		
ENSG00000132141	17	33244878	33318097	101	22	49658	-0.428	0.66567	CCT6B		
ENSG00000141295	17	45905058	45928699	74	15	33402	-0.42818	0.66574	SCRN2		
ENSG00000184500	3	93581881	93702910	119	25	42555	-0.42829	0.66578	PROS1		
ENSG00000188725	5	60443536	60468301	58	11	53253	-0.42867	0.66592	SMIM15		
ENSG00000172954	2	30660092	30877091	881	48	46134	-0.42877	0.66596	LCLAT1		
ENSG00000111816	6	116242312	116391921	373	38	40924	-0.42909	0.66607	FRK		
ENSG00000159082	21	33991069	34110359	223	30	52487	-0.42943	0.66619	SYNJ1		
ENSG00000175984	1	115115469	115223043	279	33	51843	-0.4296	0.66626	DENND2C		
ENSG00000118271	18	29161689	29188974	54	11	46398	-0.42963	0.66627	TTR		
ENSG00000159086	21	34096210	34154169	114	23	55362	-0.42972	0.6663	PAXBP1		
ENSG00000083223	9	88892648	88979369	177	16	38938	-0.42974	0.66631	ZCCHC6		
ENSG00000128310	22	38209389	38231502	43	10	44244	-0.42992	0.66637	GALR3		
ENSG00000167945	16	845443	873861	137	43	34659	-0.42995	0.66638	PRR25		
ENSG00000160072	1	1397143	1443228	80	23	40730	-0.43011	0.66644	ATAD3B		
ENSG00000270136	1	19913473	19994549	259	43	47474	-0.43027	0.6665	MINOS1-NBL1		
ENSG00000164692	7	94013873	94070544	156	34	51963	-0.43042	0.66655	COL1A2		
ENSG00000164129	4	164255091	164283086	110	20	43743	-0.43065	0.66664	NPY5R		
ENSG00000269093	19	32885915	32906466	54	12	37908	-0.43074	0.66667	AC007773.3		
ENSG00000070495	17	74698919	74732866	80	12	45564	-0.43076	0.66668	JMJD6		
ENSG00000221864	21	46076106	46096844	159	12	55479	-0.4313	0.66687	KRTAP12-2		
ENSG00000206579	8	56004949	56464613	1402	116	41471	-0.43136	0.6669	XKR4		
ENSG00000125508	20	62162163	62188857	72	22	38677	-0.43145	0.66693	SRMS		
ENSG00000136874	9	102658915	102742618	170	16	40759	-0.43151	0.66695	STX17		

ENSG00000164951	8	94860035	94948294	255	27	47969	-0.43153	0.66696	<i>PDP1</i>		
ENSG00000104894	19	49828428	49856592	65	12	53280	-0.43155	0.66697	<i>CD37</i>		
ENSG00000152952	3	145777227	145891440	390	23	53918	-0.43167	0.66701	<i>PLOD2</i>		
ENSG00000123143	19	14533865	14592679	192	42	38400	-0.43168	0.66701	<i>PKN1</i>		
ENSG00000102738	13	41293432	41355309	77	12	31287	-0.43184	0.66707	<i>MRPS31</i>		
ENSG00000205929	21	34152985	34196053	116	11	49807	-0.43247	0.6673	<i>C21orf62</i>		
ENSG00000272268	2	6101712	6124374	57	11	44754	-0.4325	0.66731	<i>DKFZP761K2322</i>		
ENSG00000159166	1	201332372	201378736	173	33	41245	-0.43254	0.66733	<i>LAD1</i>		
ENSG00000271793	6	86257696	86334952	135	24	38006	-0.43257	0.66734	<i>RP11-321N4.5</i>		
ENSG00000163263	1	154161848	154188809	31	12	42349	-0.43266	0.66737	<i>C1orf189</i>		
ENSG00000150337	1	149744227	149774074	19	5	30340	-0.43281	0.66742	<i>FCGR1A</i>		
ENSG00000203326	19	53858946	53905470	215	40	41232	-0.43291	0.66746	<i>ZNF525</i>		
ENSG00000100221	22	39071548	39107561	105	12	46540	-0.43293	0.66747	<i>JOSD1</i>		
ENSG00000143106	1	109931653	109979062	80	11	45621	-0.43308	0.66752	<i>PSMA5</i>		
ENSG00000126602	16	3691640	3777598	254	45	45917	-0.43306	0.66752	<i>TRAP1</i>		
ENSG00000148737	10	114700009	114937437	542	99	42137	-0.43309	0.66753	<i>TCF7L2</i>		
ENSG00000124743	6	53502699	53540506	220	19	53523	-0.43366	0.66773	<i>KLHL31</i>		
ENSG00000171720	5	140990443	141026437	92	22	54231	-0.43368	0.66774	<i>HDAC3</i>		
ENSG00000198597	19	30709197	31214445	1275	192	42314	-0.43395	0.66784	<i>ZNF536</i>		
ENSG00000153495	13	111958531	112006596	245	43	47238	-0.4343	0.66796	<i>TEX29</i>		
ENSG00000104884	19	45843095	45884176	131	19	36872	-0.43462	0.66808	<i>ERCC2</i>		
ENSG00000120440	6	167728574	167782991	233	35	49583	-0.43463	0.66809	<i>TTLL2</i>		
ENSG00000113648	5	134659590	134745604	148	24	39019	-0.43466	0.6681	<i>H2AFY</i>		
ENSG00000163714	3	142673339	142789567	287	29	46363	-0.43477	0.66814	<i>U2SURP</i>		
ENSG00000138080	2	27291435	27319271	33	6	43510	-0.43481	0.66815	<i>EMILIN1</i>		
ENSG00000181609	11	5499915	5520979	100	16	48883	-0.43482	0.66815	<i>OR52D1</i>		
ENSG00000099821	19	607223	643597	191	42	40947	-0.4349	0.66818	<i>POLRMT</i>		
ENSG00000068976	11	64503861	64537769	47	11	36245	-0.43492	0.66819	<i>PYGM</i>		
ENSG00000255330	6	127749551	127850146	243	34	37715	-0.43498	0.66821	<i>SOGA3</i>		
ENSG00000165959	14	95638277	95796243	549	66	41307	-0.43526	0.66831	<i>CLMN</i>		
ENSG00000111962	6	149058464	149408126	1122	158	48320	-0.43547	0.66839	<i>UST</i>		
ENSG00000163219	2	68896733	69063965	760	90	45695	-0.4355	0.6684	<i>ARHGAP25</i>		
ENSG00000144711	3	12928719	13124617	638	111	46709	-0.43561	0.66844	<i>IQSEC1</i>		
ENSG00000148215	9	125541150	125562237	59	8	29377	-0.43569	0.66847	<i>OR5C1</i>		
ENSG00000152382	1	166815747	166855564	113	13	54588	-0.43571	0.66848	<i>TADA1</i>		
ENSG00000112378	6	138399642	138438648	146	30	48643	-0.43577	0.6685	<i>PERP</i>		

ENSG00000073910	13	32595437	32880794	908	135	46926	-0.43602	0.66859	FRY		
ENSG00000023516	13	42836289	42907396	198	22	47515	-0.43603	0.66859	AKAP11		
ENSG00000183785	22	18583097	18639321	208	47	44583	-0.43619	0.66865	TUBA8		
ENSG00000144645	3	31689382	32129072	1423	161	39404	-0.43665	0.66882	OSBPL10		
ENSG00000185220	1	249190395	249224145	49	21	41969	-0.43673	0.66885	PGBD2		
ENSG00000165688	9	139295110	139328213	195	25	48501	-0.4371	0.66898	PMPCA		
ENSG00000074219	19	49833852	49875714	112	12	50223	-0.43748	0.66912	TEAD2		
ENSG00000172878	2	172854490	172957158	268	41	42862	-0.43782	0.66924	METAP1D		
ENSG00000092607	1	119415669	119542179	368	43	50427	-0.43829	0.66941	TBX15		
ENSG00000165487	13	22056836	22188353	404	34	37180	-0.43839	0.66945	MICU2		
ENSG00000139613	12	56546767	56593351	42	14	44525	-0.43858	0.66952	SMARCC2		
ENSG00000174600	12	108671821	108743118	235	51	49456	-0.43902	0.66968	CMKLR1		
ENSG00000135821	1	182340839	182371341	116	13	42347	-0.43906	0.66969	GLUL		
ENSG00000123416	12	49511565	49535180	42	4	28194	-0.43907	0.66969	TUBA1B		
ENSG00000108264	17	35756965	35849835	273	25	49278	-0.43911	0.66971	TADA2A		
ENSG00000175595	16	14004014	14056202	148	17	50559	-0.43923	0.66975	ERCC4		
ENSG00000101577	18	2906992	3023313	392	51	36898	-0.43926	0.66976	LPIN2		
ENSG00000176533	19	2501217	2712707	939	153	43065	-0.43937	0.6698	GNG7		
ENSG00000153498	13	113020633	113099003	354	40	38452	-0.43983	0.66997	SPACA7		
ENSG00000132881	1	16548195	16573657	58	10	45243	-0.43998	0.67002	RSG1		
ENSG00000064989	2	188197856	188323187	328	31	53329	-0.44065	0.67027	CALCRL		
ENSG00000111530	12	67653061	67723731	253	22	42117	-0.44086	0.67034	CAND1		
ENSG00000168792	17	27877565	27904155	42	18	48878	-0.44099	0.67039	ABHD15		
ENSG00000186166	11	118858852	118896501	147	15	54893	-0.44126	0.67049	CCDC84		
ENSG00000141959	21	45709934	45757259	177	25	46835	-0.44129	0.6705	PFKL		
ENSG00000258945	14	85984943	86005730	66	14	45974	-0.44133	0.67051	RP11-497E19.2		
ENSG00000122435	1	100588706	100626053	96	21	34969	-0.44177	0.67067	TRMT13		
ENSG00000165471	10	54515140	54541460	134	20	41993	-0.44202	0.67076	MBL2		
ENSG00000229676	19	22807126	22860472	361	12	32073	-0.44214	0.6708	ZNF492		
ENSG00000186329	3	171551139	171666505	364	48	50930	-0.44228	0.67086	TMEM212		
ENSG00000081237	1	198597801	198736545	444	49	47176	-0.44233	0.67087	PTPRC		
ENSG00000170035	2	181821975	181951312	500	22	32936	-0.44258	0.67097	UBE2E3		
ENSG00000128656	2	175654091	175880097	366	32	38877	-0.44274	0.67102	CHN1		
ENSG00000113763	5	176227478	176317897	180	53	39804	-0.44289	0.67108	UNC5A		
ENSG00000196214	19	52762824	52805977	237	28	43196	-0.44333	0.67124	ZNF766		
ENSG00000075975	3	12588513	12635212	132	17	32241	-0.44385	0.67142	MKRN2		

ENSG00000090061	14	99937506	100011381	130	25	44688	-0.44397	0.67147	CCNK		
ENSG00000240764	5	140858808	140902546	119	25	46537	-0.44407	0.6715	PCDHGC5		
ENSG00000102967	16	72032487	72068954	120	17	50304	-0.44434	0.6716	DHODH		
ENSG00000156103	8	89034237	89350254	814	107	46233	-0.44441	0.67163	MMP16		
ENSG00000166348	10	75247296	75395711	276	16	42929	-0.44464	0.67171	USP54		
ENSG00000249471	19	58952971	58979200	57	12	44180	-0.44463	0.67171	ZNF324B		
ENSG00000169918	15	31765329	32172992	1218	57	39867	-0.44475	0.67175	OTUD7A		
ENSG00000090581	16	1391924	1423352	99	24	46201	-0.44476	0.67175	GNPTG		
ENSG00000133454	22	26128111	26437007	1185	153	41956	-0.44476	0.67175	MYO18B		
ENSG00000012963	14	93663401	93705561	138	24	49246	-0.44484	0.67178	UBR7		
ENSG00000073598	17	33438598	33467751	36	15	42089	-0.44509	0.67187	FNDC8		
ENSG00000180871	2	218980012	219011976	68	8	39649	-0.44522	0.67192	CXCR2		
ENSG00000140992	16	2577965	2663189	47	28	46497	-0.44525	0.67193	PDPK1		
ENSG00000183665	8	125453048	125484391	92	15	48160	-0.44534	0.67196	TRMT12		
ENSG00000157423	16	70831281	71274625	526	66	42815	-0.44539	0.67198	HYDIN		
ENSG00000115415	2	191819084	191895686	195	40	44546	-0.44543	0.672	STAT1		
ENSG00000184650	17	8233182	8259364	149	11	40213	-0.44544	0.672	ODF4		
ENSG00000119929	10	101452315	101525891	135	20	54572	-0.44552	0.67203	CUTC		
ENSG00000157869	4	13352978	13495989	527	31	36559	-0.44555	0.67204	RAB28		
ENSG00000171199	4	71253599	71285911	155	24	47418	-0.4456	0.67206	PROL1		
ENSG00000165689	9	139286377	139315061	136	22	52954	-0.44566	0.67208	SDCCAG3		
ENSG00000120685	13	39574003	39622252	117	14	40032	-0.4457	0.67209	PROSER1		
ENSG00000055483	17	76773463	76847523	165	26	41478	-0.44586	0.67215	USP36		
ENSG00000166881	12	57439426	57491846	116	17	48581	-0.44609	0.67223	TMEM194A		
ENSG00000008853	8	22834930	22887712	150	33	46146	-0.44628	0.6723	RHOBTB2		
ENSG00000204386	6	31815436	31840683	103	24	35017	-0.44629	0.67231	NEU1		
ENSG00000159199	17	46960127	46983233	71	9	32238	-0.44665	0.67244	ATP5G1		
ENSG00000137575	8	59455483	59505419	143	12	51254	-0.44674	0.67247	SDCBP		
ENSG00000127412	7	142595267	142640905	120	18	28179	-0.44681	0.67249	TRPV5		
ENSG00000100422	22	47070308	47144158	354	54	43279	-0.44708	0.67259	CERK		
ENSG00000189144	19	38216734	38317940	229	32	40222	-0.44714	0.67261	ZNF573		
ENSG00000269533	19	57891252	57941362	115	18	47029	-0.44723	0.67265	AC003002.6		
ENSG00000156467	8	97228148	97257862	70	14	51284	-0.44737	0.6727	UQCRB		
ENSG00000234769	16	54043	79452	4	2	42654	-0.44748	0.67273	WASH4P		
ENSG00000204449	11	89754274	89816558	14	8	43496	-0.44754	0.67276	TRIM49C		
ENSG00000116809	1	16258364	16312627	108	19	52145	-0.44759	0.67278	ZBTB17		

ENSG00000175697	3	119873492	120013941	434	42	45934	-0.44761	0.67278	GPR156		
ENSG00000253548	3	191168952	191189245	143	9	48612	-0.44802	0.67293	PYDC2		
ENSG00000151490	12	15465331	15760333	723	90	45877	-0.44821	0.673	PTPRO		
ENSG00000118729	1	116232628	116321402	427	34	44817	-0.44824	0.67301	CASQ2		
ENSG00000125820	20	21481648	21504664	39	13	52915	-0.44838	0.67306	NKX2-2		
ENSG00000102974	16	67586310	67683086	153	29	47006	-0.4484	0.67307	CTCF		
ENSG00000129993	16	88931266	89053612	580	79	42044	-0.44847	0.67309	CBFA2T3		
ENSG00000170920	19	9226688	9247626	91	6	26678	-0.44861	0.67314	OR7G3		
ENSG00000114529	3	111795182	111859851	229	28	40583	-0.44871	0.67318	C3orf52		
ENSG00000074276	5	175959512	176032975	250	31	40644	-0.44874	0.67319	CDHR2		
ENSG00000186907	11	57218022	57255007	42	14	53389	-0.44875	0.67319	RTN4RL2		
ENSG00000135597	6	139214630	139319398	396	26	31073	-0.44878	0.6732	REPS1		
ENSG00000112294	6	24485080	24547435	332	42	43027	-0.44889	0.67325	ALDH5A1		
ENSG00000234444	7	63757837	63825238	352	34	46593	-0.44907	0.67331	ZNF736		
ENSG00000156587	11	57309129	57345757	99	13	53631	-0.44924	0.67337	UBE2L6		
ENSG00000261247	15	30417352	30447770	5	3	33386	-0.44935	0.67341	GOLGA8T		
ENSG00000169402	7	6783740	6848996	24	8	43059	-0.44957	0.67349	RSPH10B2		
ENSG00000125815	20	23461738	23486655	79	12	40088	-0.44956	0.67349	CST8		
ENSG00000105401	19	10491810	10540797	118	18	52084	-0.44961	0.6735	CDC37		
ENSG00000112245	6	64221666	64303492	165	22	47967	-0.44965	0.67352	PTP4A1		
ENSG00000103187	16	84589200	84661683	350	68	45025	-0.44981	0.67358	COTL1		
ENSG00000198276	20	62561186	62597769	93	26	45580	-0.4503	0.67375	UCKL1		
ENSG00000165702	9	135810932	135877083	265	61	46791	-0.45052	0.67383	GFI1B		
ENSG00000172602	12	49240928	49269681	60	19	47253	-0.45062	0.67387	RND1		
ENSG00000169379	3	93688983	93784512	89	20	44479	-0.4508	0.67393	ARL13B		
ENSG00000182083	2	240958841	240979906	74	24	47970	-0.45119	0.67407	OR6B2		
ENSG00000072274	3	195744054	195819060	331	45	49099	-0.45118	0.67407	TFRC		
ENSG00000133980	14	74759772	74836711	191	39	40103	-0.45122	0.67409	VRTN		
ENSG00000128463	15	34507200	34532357	108	16	50074	-0.45136	0.67413	EMC4		
ENSG00000117594	1	209849510	209918295	129	17	41250	-0.45156	0.67421	HSD11B1		
ENSG00000145365	4	113185698	113217059	65	7	29712	-0.45167	0.67425	TIFA		
ENSG00000184260	1	149848525	149868961	38	6	53972	-0.45184	0.67431	HIST2H2AC		
ENSG00000260362	16	9750742	9780700	188	19	45927	-0.45196	0.67435	RP11-297M9.1		
ENSG00000204882	8	142356600	142387367	94	19	32355	-0.452	0.67437	GPR20		
ENSG00000107937	10	1024338	1075876	181	24	49138	-0.45201	0.67437	GTPBP4		
ENSG00000168906	2	85756288	85782403	90	12	48947	-0.45235	0.67449	MAT2A		

ENSG00000165899	12	80593233	80782870	475	53	42526	-0.45258	0.67457	OTOGL		
ENSG00000165434	11	74031363	74119518	291	28	43518	-0.45265	0.6746	PGM2L1		
ENSG00000168528	1	31872412	31917525	172	15	29524	-0.45268	0.67461	SERINC2		
ENSG00000141506	17	8772233	8879029	297	53	44666	-0.45274	0.67463	PIK3R5		
ENSG00000196367	7	98465556	98620866	294	30	48371	-0.45295	0.67471	TRRAP		
ENSG00000240344	2	201725630	201764026	70	16	48020	-0.45307	0.67475	PPIL3		
ENSG00000177414	1	64659310	64743051	255	29	49370	-0.45316	0.67478	UBE2U		
ENSG00000130159	19	11606731	11649989	109	17	38442	-0.45315	0.67478	ECSIT		
ENSG00000181826	4	37582422	37697998	452	81	40139	-0.45337	0.67486	RELL1		
ENSG00000140009	14	64540950	64814830	773	92	40559	-0.45383	0.67502	ESR2		
ENSG00000215788	1	6511211	6536255	56	13	34845	-0.45393	0.67506	TNFRSF25		
ENSG00000258869	14	98205601	98240326	115	18	47904	-0.45425	0.67518	RP11-204N11.1		
ENSG00000257591	19	12241032	12277546	76	12	44402	-0.45426	0.67518	ZNF625		
ENSG00000175768	9	37572643	37602639	77	12	49245	-0.45496	0.67543	TOMM5		
ENSG00000269468	1	17645507	17686070	278	25	54139	-0.45502	0.67545	AC004824.2		
ENSG00000090273	1	27216729	27283353	114	19	53386	-0.45523	0.67553	NUDC		
ENSG00000163673	3	36743913	36791352	112	27	39312	-0.45549	0.67562	DCLK3		
ENSG00000150455	11	126142960	126178740	114	21	42421	-0.45589	0.67576	TIRAP		
ENSG00000184009	17	79466997	79500873	187	25	32481	-0.45602	0.67581	ACTG1		
ENSG00000167642	19	38724675	38793254	231	32	52069	-0.45601	0.67581	SPINT2		
ENSG00000162613	1	78399740	78454794	149	23	42878	-0.45605	0.67582	FUBP1		
ENSG00000152213	13	50192435	50218008	96	22	31753	-0.45632	0.67592	ARL11		
ENSG00000173366	3	52245097	52275206	44	13	54061	-0.45637	0.67594	TLR9		
ENSG00000154305	1	222781428	222851354	182	21	40922	-0.45655	0.676	MIA3		
ENSG00000198963	9	77102281	77318093	553	66	48478	-0.4568	0.67609	RORB		
ENSG00000124490	6	49650073	49691274	140	20	44368	-0.45683	0.6761	CRISP2		
ENSG00000198829	3	151581431	151612405	105	23	47959	-0.45723	0.67625	SUCNR1		
ENSG00000198417	16	56681606	56704610	151	26	46958	-0.4575	0.67634	MT1F		
ENSG00000186973	1	43600824	43632067	148	22	30379	-0.45804	0.67654	FAM183A		
ENSG00000177692	21	34850497	34874027	69	13	52422	-0.45823	0.67661	DNAJC28		
ENSG00000205930	21	34134411	34276043	368	36	52870	-0.45844	0.67668	C21orf49		
ENSG00000214338	6	127749551	127850500	245	34	37821	-0.45889	0.67684	SOGA3		
ENSG00000163558	3	169930153	170033769	392	28	45238	-0.45892	0.67685	PRKCI		
ENSG00000159753	16	67668822	67701472	48	16	44562	-0.4594	0.67703	RLTPR		
ENSG00000140961	16	83971887	84009937	236	38	40836	-0.45995	0.67722	OSGIN1		
ENSG00000169213	1	52363628	52466436	256	32	38932	-0.46018	0.6773	RAB3B		

ENSG00000120784	19	38094650	38193238	224	29	38313	-0.46018	0.67731	ZFP30		
ENSG00000138744	4	76821809	76872204	212	24	36705	-0.4604	0.67739	NAAA		
ENSG00000072682	5	131517531	131641008	326	40	32380	-0.46083	0.67754	P4HA2		
ENSG00000138722	4	90790683	90885780	269	33	39671	-0.46085	0.67755	MMRN1		
ENSG00000164920	8	99946631	99974332	34	14	51916	-0.46093	0.67757	OSR2		
ENSG00000109519	4	7050633	7079924	137	19	43871	-0.46101	0.67761	GRPEL1		
ENSG00000164070	4	128692976	128771888	70	19	47233	-0.46127	0.6777	HSPA4L		
ENSG00000189195	1	92535862	92623393	182	18	46457	-0.4617	0.67785	BTBD8		
ENSG00000129437	19	51570752	51597502	90	27	46438	-0.46198	0.67795	KLK14		
ENSG00000140297	15	59877074	59942438	186	37	41132	-0.46234	0.67808	GCNT3		
ENSG00000172379	15	80686692	80900278	602	110	46061	-0.46245	0.67812	ARNT2		
ENSG00000154803	17	17105526	17150502	156	22	49297	-0.4626	0.67817	FLCN		
ENSG00000130305	7	72706514	72732864	32	16	43088	-0.46275	0.67823	NSUN5		
ENSG00000180921	8	144796103	144825971	97	17	35715	-0.46296	0.6783	FAM83H		
ENSG00000173442	11	65333509	65370121	82	17	49450	-0.46294	0.6783	EHBP1L1		
ENSG00000172519	19	15894761	15915892	80	13	53620	-0.46305	0.67833	OR10H5		
ENSG00000160994	19	15111556	15144081	231	37	45684	-0.46306	0.67834	CCDC105		
ENSG00000184032	21	31997555	32017938	40	8	50755	-0.46333	0.67844	KRTAP20-2		
ENSG00000078114	10	21058902	21473116	1093	113	43259	-0.4639	0.67864	NEBL		
ENSG00000106263	7	2383721	2430380	157	20	39335	-0.46398	0.67867	EIF3B		
ENSG00000269027	5	35041012	35061198	59	16	36484	-0.46451	0.67886	AC010368.2		
ENSG00000130414	2	240821867	240974819	740	85	49942	-0.46479	0.67896	NDUFA10		
ENSG00000099960	22	21373007	21397129	81	18	45346	-0.46486	0.67898	SLC7A4		
ENSG00000182013	19	46959748	46984820	142	20	51339	-0.46493	0.67901	PNMAL1		
ENSG00000137441	4	15951866	15980932	108	25	46787	-0.46497	0.67902	FGFBP2		
ENSG00000196787	6	27090832	27113070	41	17	45969	-0.46514	0.67909	HIST1H2AG		
ENSG00000100138	22	42059934	42096508	83	10	40117	-0.46573	0.6793	NHP2L1		
ENSG00000151164	12	110929460	110979891	132	16	31503	-0.4663	0.6795	RAD9B		
ENSG00000167487	19	18737775	18791309	193	31	47355	-0.4663	0.6795	KLHL26		
ENSG00000198408	10	103534200	103588696	80	16	52726	-0.46632	0.67951	MGEA5		
ENSG00000134917	11	130264820	130308888	129	34	43483	-0.46644	0.67955	ADAMTS8		
ENSG00000113966	3	97473365	97529953	119	17	41433	-0.46663	0.67962	ARL6		
ENSG00000066279	1	197043258	197125824	160	13	23421	-0.46666	0.67963	ASPM		
ENSG00000269383	2	100976705	100997007	40	7	40827	-0.46698	0.67974	AC012493.2		
ENSG00000165716	9	139597022	139628502	125	22	48824	-0.46697	0.67974	FAM69B		
ENSG00000138764	4	78068304	78364542	1829	47	47009	-0.46716	0.67981	CCNG2		

ENSG00000026103	10	90740414	90785542	231	23	44488	-0.4672	0.67982	FAS		
ENSG00000187630	14	24429148	24485617	213	33	23809	-0.46723	0.67983	DHRS4L2		
ENSG00000135297	6	74161301	74228959	223	27	49908	-0.46724	0.67984	MT01		
ENSG00000099377	16	30986519	31010473	34	9	31210	-0.46738	0.67989	HSD3B7		
ENSG00000067248	5	54542073	54613550	148	17	36584	-0.46751	0.67993	DHX29		
ENSG00000198018	10	101409263	101475997	146	14	55272	-0.46762	0.67997	ENTPD7		
ENSG00000176406	8	104502976	105278322	2825	80	46032	-0.46789	0.68007	RIMS2		
ENSG00000268662	1	186354123	186375908	51	14	52630	-0.46812	0.68015	AL596220.1		
ENSG00000186136	12	11328599	11349543	103	10	33778	-0.46813	0.68015	TAS2R42		
ENSG00000178202	11	108332832	108379159	96	20	47710	-0.46854	0.6803	KDELC2		
ENSG00000010278	12	6298881	6357425	99	23	41660	-0.4687	0.68036	CD9		
ENSG00000108064	10	60134782	60168981	111	24	37097	-0.46913	0.68051	TFAM		
ENSG00000145715	5	86553705	86697748	230	26	49567	-0.46935	0.68059	RASA1		
ENSG00000186795	10	118947000	118979810	117	12	49736	-0.46957	0.68067	KCNK18		
ENSG00000248487	3	51995442	52025212	33	13	34233	-0.46964	0.6807	ABHD14A		
ENSG00000197006	16	21598539	21678794	106	28	38419	-0.47009	0.68086	METTL9		
ENSG00000165512	10	45485923	45510774	62	15	45196	-0.47032	0.68094	ZNF22		
ENSG00000127780	17	3326164	3347135	56	9	30394	-0.47049	0.681	OR1E2		
ENSG00000169583	9	139879087	139901255	62	8	54242	-0.47067	0.68106	CLIC3		
ENSG00000099889	22	19947419	20014331	285	41	43418	-0.47092	0.68115	ARVCF		
ENSG00000147873	9	21294613	21315312	60	9	53930	-0.47114	0.68123	IFNA5		
ENSG00000065675	10	6459105	6632263	557	93	42600	-0.47118	0.68124	PRKCQ		
ENSG00000086696	16	82058609	82142139	170	33	36049	-0.47138	0.68132	HSD17B2		
ENSG00000129195	17	6337735	6364789	142	29	40565	-0.47166	0.68141	FAM64A		
ENSG00000163002	2	183972241	184036408	431	35	52209	-0.47225	0.68163	NUP35		
ENSG00000149679	20	60953688	60992341	188	24	45055	-0.47245	0.6817	CABLES2		
ENSG00000104427	8	79568282	79642000	198	17	52502	-0.47256	0.68174	ZC2HC1A		
ENSG00000189058	3	195285573	195321076	173	34	43585	-0.47267	0.68178	APOD		
ENSG00000122390	16	3483611	3546963	300	34	45685	-0.47281	0.68183	NAA60		
ENSG00000105270	19	36495562	36534245	88	23	45244	-0.47283	0.68183	CLIP3		
ENSG00000124635	6	27083676	27110541	53	18	46079	-0.47291	0.68186	HIST1H2BJ		
ENSG00000131475	17	40915454	40941617	16	11	46155	-0.47291	0.68186	VPS25		
ENSG00000065485	3	122775909	122954074	583	62	48310	-0.47303	0.6819	PDIA5		
ENSG00000166435	11	74508784	74670245	320	39	44177	-0.47331	0.682	XRR1		
ENSG00000122643	7	33043742	33112409	281	17	50103	-0.47359	0.6821	NT5C3A		
ENSG00000187912	19	14683896	14731969	181	32	48407	-0.47377	0.68217	CLEC17A		

ENSG00000171855	9	21067104	21087943	74	16	56850	-0.47385	0.6822	<i>IFNB1</i>		
ENSG00000104964	19	3042908	3073105	81	30	44895	-0.47386	0.6822	<i>AES</i>		
ENSG00000182585	4	75164190	75191024	38	5	27087	-0.47396	0.68223	<i>EPGN</i>		
ENSG00000249437	5	70254310	70330941	9	5	34632	-0.47482	0.68254	<i>NAIP</i>		
ENSG00000213822	19	51969838	52004206	216	28	55423	-0.47492	0.68258	<i>CEACAM18</i>		
ENSG00000119509	9	102851538	103073282	546	27	25860	-0.47496	0.68259	<i>INVS</i>		
ENSG00000141499	17	7579389	7616820	100	19	30010	-0.47504	0.68262	<i>WRAP53</i>		
ENSG00000268046	18	8326437	8347038	104	19	40970	-0.47509	0.68264	<i>AP001094.1</i>		
ENSG00000134759	18	33699407	33767909	200	21	51144	-0.47528	0.68271	<i>ELP2</i>		
ENSG00000105771	19	44225301	44269142	101	14	49263	-0.47537	0.68274	<i>SMG9</i>		
ENSG00000144481	2	234816043	234938166	458	79	42561	-0.47544	0.68276	<i>TRPM8</i>		
ENSG00000167261	16	68011297	68044489	52	13	43619	-0.47549	0.68278	<i>DPEP2</i>		
ENSG00000165995	10	18419606	18840798	1844	209	48702	-0.47565	0.68284	<i>CACNB2</i>		
ENSG00000267958	2	74408517	74428627	45	12	33287	-0.47567	0.68285	<i>CATX-2</i>		
ENSG00000156875	1	100493653	100558933	217	25	43792	-0.47581	0.6829	<i>HIAT1</i>		
ENSG00000259658	15	102267302	102295913	60	13	36144	-0.47597	0.68295	<i>RP11-89K11.1</i>		
ENSG00000239886	17	39372900	39393904	60	13	50660	-0.47614	0.68301	<i>KRTAP9-2</i>		
ENSG00000197414	15	22726246	22756002	19	5	44960	-0.47624	0.68305	<i>GOLGA6L1</i>		
ENSG00000237521	19	9351606	9372820	70	10	41056	-0.47648	0.68313	<i>OR7E24</i>		
ENSG00000153303	6	168446425	168492237	222	38	48630	-0.47652	0.68315	<i>FRMD1</i>		
ENSG00000155304	21	15733436	15765805	136	21	49607	-0.47655	0.68316	<i>HSPA13</i>		
ENSG00000148444	10	22594903	22619235	15	9	42363	-0.47674	0.68323	<i>COMMD3</i>		
ENSG00000140157	15	22994684	23044427	139	18	45863	-0.47681	0.68325	<i>NIPA2</i>		
ENSG00000115718	2	128166003	128196822	102	15	52898	-0.47707	0.68335	<i>PROC</i>		
ENSG00000179914	1	160836329	160864960	116	7	32698	-0.47724	0.6834	<i>ITLN1</i>		
ENSG00000171097	9	131585221	131654773	167	18	43090	-0.47726	0.68341	<i>CCBL1</i>		
ENSG00000106052	7	27768950	27894183	374	45	51110	-0.47728	0.68342	<i>TAX1BP1</i>		
ENSG00000138600	15	50989506	51068005	321	27	45600	-0.47744	0.68348	<i>SPPL2A</i>		
ENSG00000177842	3	40537483	40570227	42	9	36841	-0.47767	0.68356	<i>ZNF620</i>		
ENSG00000103034	16	58486750	58557532	200	51	43320	-0.4777	0.68357	<i>NDRG4</i>		
ENSG00000047457	3	148870197	148949842	267	50	48478	-0.47792	0.68365	<i>CP</i>		
ENSG00000158042	11	6692013	6714632	90	13	36939	-0.47842	0.68382	<i>MRPL17</i>		
ENSG00000123329	12	57856038	57892597	80	16	37837	-0.4784	0.68382	<i>ARHGAP9</i>		
ENSG00000156689	11	58591542	58681688	445	27	27759	-0.47842	0.68383	<i>GLYATL2</i>		
ENSG00000188677	22	44385091	44578829	744	161	46918	-0.47852	0.68386	<i>PARVB</i>		
ENSG00000155636	2	178967151	179013738	128	26	48844	-0.47854	0.68387	<i>RBM45</i>		

ENSG00000160613	11	117065053	117113241	170	31	38731	-0.47857	0.68388	PCSK7		
ENSG00000021574	2	32278680	32392706	356	26	49382	-0.47885	0.68398	SPAST		
ENSG00000164729	17	33509539	33531412	72	15	33124	-0.47906	0.68405	SLC35G3		
ENSG00000158089	2	31123333	31388068	980	122	46266	-0.47965	0.68426	GALNT14		
ENSG00000141446	18	19099242	19190845	117	17	36534	-0.47986	0.68434	ESCO1		
ENSG00000197213	19	56690939	56719289	164	28	43225	-0.47988	0.68434	ZSCAN5B		
ENSG00000163623	4	85403140	85429603	48	13	42154	-0.47993	0.68436	NKX6-1		
ENSG00000172172	8	121383000	121467642	159	17	34614	-0.47992	0.68436	MRPL13		
ENSG00000253148	1	192276122	192346415	201	21	52144	-0.48002	0.68439	RGS21		
ENSG00000253320	8	103866528	104000104	409	51	47833	-0.48002	0.68439	KB-1507C5.2		
ENSG00000116874	1	119563839	119693294	387	35	48975	-0.48016	0.68444	WARS2		
ENSG00000254806	20	43981840	44049250	173	15	40703	-0.48055	0.68458	SYS1-DBNDD2		
ENSG00000172578	3	183195319	183283477	232	43	41432	-0.48059	0.6846	KLHL6		
ENSG00000137491	11	74801608	74927594	413	38	37057	-0.48064	0.68461	SLCO2B1		
ENSG00000237353	11	125693211	125719964	104	12	52817	-0.48071	0.68464	PATE4		
ENSG00000197157	7	127282234	127742661	843	72	40697	-0.48094	0.68472	SND1		
ENSG00000084628	1	31642592	31722401	301	29	28593	-0.48106	0.68476	NKAIN1		
ENSG00000145495	5	10343815	10450500	87	35	42306	-0.48112	0.68478	Mar-06		
ENSG00000258847	14	66414015	66481241	235	39	39920	-0.48112	0.68479	CTD-2014B16.3		
ENSG00000152492	3	191036866	191126459	399	32	36608	-0.48128	0.68484	CCDC50		
ENSG00000263002	19	44635710	44673156	61	11	41741	-0.48138	0.68488	ZNF234		
ENSG00000163517	3	13511224	13557916	130	37	48516	-0.48214	0.68515	HDAC11		
ENSG00000205670	21	35737779	35790164	149	21	43218	-0.48227	0.68519	SMIM11		
ENSG00000183087	13	114513522	114577046	290	38	32968	-0.48242	0.68525	GAS6		
ENSG00000114786	3	51999066	52033199	44	19	39959	-0.48251	0.68528	ABHD14A-ACY1		
ENSG00000243989	3	51999066	52033213	44	19	39959	-0.48251	0.68528	ACY1		
ENSG00000145861	5	159764758	159807648	127	23	48247	-0.48255	0.68529	C1QTNF2		
ENSG00000173276	21	43396940	43440496	167	30	47616	-0.48254	0.68529	ZBTB21		
ENSG00000170899	6	52832751	52870176	175	18	46272	-0.48256	0.6853	GSTA4		
ENSG00000102924	16	49301828	49325742	72	19	45434	-0.48287	0.6854	CBLN1		
ENSG00000078098	2	163017194	163111661	157	12	27550	-0.48292	0.68542	FAP		
ENSG00000135390	12	54016510	54081192	214	18	39139	-0.48297	0.68544	ATP5G2		
ENSG00000095015	5	56101401	56201979	294	26	40833	-0.48339	0.68559	MAP3K1		
ENSG00000166856	12	57378230	57400468	36	8	51856	-0.48369	0.6857	GPR182		
ENSG00000053372	1	19568033	19596622	154	21	48825	-0.48376	0.68572	MRT04		
ENSG00000122728	9	32619452	32645667	32	9	52918	-0.48393	0.68578	TAF1L		

ENSG00000078246	12	2976389	3060306	318	12	45854	-0.4843	0.68591	TULP3		
ENSG00000268657	14	92028788	92051383	128	10	50927	-0.48463	0.68603	AL133373.1		
ENSG00000120332	1	175026994	175127202	432	49	47270	-0.48508	0.68619	TNN		
ENSG00000160808	3	46889362	46933659	87	21	38989	-0.48538	0.6863	MYL3		
ENSG00000237330	1	996346	1019687	59	10	45425	-0.4859	0.68648	RNF223		
ENSG00000163214	2	39014871	39113075	216	20	40853	-0.48608	0.68654	DHX57		
ENSG00000065491	6	37215548	37310746	204	20	52288	-0.48613	0.68656	TBC1D22B		
ENSG00000255150	12	104687517	104708980	64	12	55277	-0.48615	0.68657	EID3		
ENSG00000258875	14	91699103	91727426	93	13	41952	-0.48629	0.68662	CTD-2547L24.3		
ENSG00000118160	19	47921274	47985425	146	30	40714	-0.48628	0.68662	SLC8A2		
ENSG00000156475	5	145957936	146474347	1283	120	39471	-0.48647	0.68668	PPP2R2B		
ENSG00000127954	7	87895744	87946206	99	11	48632	-0.48656	0.68671	STEAP4		
ENSG00000198740	17	47356568	47449835	256	23	54164	-0.48675	0.68678	ZNF652		
ENSG00000156521	10	71887737	71916432	125	24	43821	-0.48681	0.6868	TYSND1		
ENSG00000132463	4	71671499	71715662	134	17	32873	-0.48687	0.68682	GRSF1		
ENSG00000139597	13	32964861	33012315	104	23	37099	-0.48694	0.68685	N4BP2L1		
ENSG00000197746	10	73566055	73621126	207	33	48818	-0.48709	0.6869	PSAP		
ENSG00000101391	20	31936645	31999367	94	13	54198	-0.48708	0.6869	CDK5RAP1		
ENSG00000142082	11	205458	246931	229	20	49365	-0.4872	0.68694	SIRT3		
ENSG00000242259	22	19328891	19445755	244	32	36528	-0.48756	0.68707	C22orf39		
ENSG00000160999	7	101918405	101972178	149	37	49993	-0.48767	0.68711	SH2B2		
ENSG00000008277	7	87553458	87842204	577	50	37527	-0.48787	0.68718	ADAM22		
ENSG00000248751	22	30671227	30705471	83	24	45401	-0.48789	0.68719	RP1-130H16.18		
ENSG00000204060	1	41817594	41859262	134	34	48023	-0.48806	0.68725	FOXO6		
ENSG00000075239	11	107982243	108028503	105	19	44516	-0.48849	0.6874	ACAT1		
ENSG00000149968	11	102696532	102724534	93	14	50651	-0.48859	0.68744	MMP3		
ENSG00000115687	2	242035514	242099679	249	32	36048	-0.48869	0.68747	PASK		
ENSG00000269920	10	97723786	97802432	230	40	49209	-0.48876	0.68749	RP11-690P14.4		
ENSG00000188649	10	97723786	97802441	230	40	49209	-0.48876	0.68749	CC2D2B		
ENSG00000166415	15	53795938	54065075	1212	85	42448	-0.48893	0.68755	WDR72		
ENSG00000079156	2	179049208	179274160	680	84	43707	-0.48902	0.68759	OSBPL6		
ENSG00000099326	19	59063298	59094942	90	19	37402	-0.48915	0.68763	MZF1		
ENSG00000136942	9	127610159	127634260	52	10	51020	-0.48925	0.68767	RPL35		
ENSG00000188152	9	99680592	99712535	31	13	40653	-0.48938	0.68771	NUTM2G		
ENSG00000198339	6	27097076	27118418	37	14	43577	-0.48939	0.68772	HIST1H4I		
ENSG00000127241	3	186925942	187019810	328	58	44939	-0.48958	0.68779	MASP1		

ENSG00000104325	8	91003633	91074320	183	20	32453	-0.48966	0.68781	DECR1		
ENSG00000164896	7	150763711	150787953	69	18	42998	-0.48993	0.68791	FASTK		
ENSG00000111087	12	57843918	57876045	77	18	37609	-0.48999	0.68793	GLI1		
ENSG00000153046	6	4696393	4965785	795	120	46046	-0.49003	0.68795	CDYL		
ENSG00000182318	19	58828385	58863698	88	6	22863	-0.49009	0.68796	ZSCAN22		
ENSG00000182854	15	102348366	102369350	60	12	42919	-0.49017	0.68799	OR4F15		
ENSG00000187513	1	35248599	35271348	91	15	40775	-0.49043	0.68809	GJA4		
ENSG00000111490	12	65164589	65284812	187	40	44773	-0.49083	0.68823	TBC1D30		
ENSG00000188931	1	161324521	161347664	133	5	22091	-0.49111	0.68833	C1orf192		
ENSG00000198633	19	52922440	52965568	140	21	32109	-0.49131	0.6884	ZNF534		
ENSG00000113889	3	186425065	186471743	303	33	52384	-0.49149	0.68846	KNG1		
ENSG00000106144	7	142975308	143014789	36	16	48015	-0.49164	0.68851	CASP2		
ENSG00000067596	17	41551233	41631831	167	10	53783	-0.49168	0.68853	DHX8		
ENSG00000164904	5	125867533	125941110	233	42	42659	-0.49178	0.68856	ALDH7A1		
ENSG00000167483	19	17624110	17674648	140	38	45032	-0.49176	0.68856	FAM129C		
ENSG00000100281	22	35643445	35701800	161	8	27894	-0.49215	0.68869	HMGXB4		
ENSG00000148834	10	105985114	106037217	130	28	47011	-0.49226	0.68873	GSTO1		
ENSG00000269449	7	95161457	95183854	114	11	45403	-0.49228	0.68874	AC002451.1		
ENSG00000112936	5	40899354	40993041	388	45	43647	-0.49247	0.6888	C7		
ENSG00000047617	12	5631035	6065398	1570	157	48259	-0.49323	0.68908	ANO2		
ENSG00000113231	5	76496274	76735632	768	101	42528	-0.49339	0.68913	PDE8B		
ENSG00000196371	11	94267017	94293063	70	15	42888	-0.49415	0.6894	FUT4		
ENSG00000139154	12	19546979	19883735	1829	142	43679	-0.49458	0.68955	AEBP2		
ENSG00000167863	17	73024958	73053080	92	23	37768	-0.49482	0.68964	ATP5H		
ENSG00000177383	3	184418156	184439836	51	14	42774	-0.49498	0.68969	MAGEF1		
ENSG00000148362	9	139876870	139898436	59	8	54121	-0.49544	0.68986	C9orf142		
ENSG00000122136	9	138427985	138451815	99	21	37777	-0.49551	0.68988	OBP2A		
ENSG00000123066	12	116385711	116725143	652	56	52215	-0.49552	0.68988	MED13L		
ENSG00000180817	10	71952586	72003667	211	30	33362	-0.49564	0.68993	PPA1		
ENSG00000206561	3	15481640	15573258	310	31	43945	-0.49571	0.68995	COLQ		
ENSG00000131469	17	41140290	41164976	46	9	49097	-0.49577	0.68997	RPL27		
ENSG00000267873	12	52699128	52719790	146	13	54114	-0.49612	0.69009	AC121757.1		
ENSG00000171408	6	136162834	136526712	714	103	43359	-0.49639	0.69019	PDE7B		
ENSG00000204779	9	70165707	70188815	4	2	42743	-0.49669	0.6903	FOXD4L5		
ENSG00000198799	1	113605831	113684882	157	29	43488	-0.49687	0.69036	LRIG2		
ENSG00000182134	1	151732583	151773892	114	13	45212	-0.49689	0.69037	TDRKH		

ENSG00000269738	9	125138344	125158928	69	10	34419	-0.49691	0.69037	AL162424.1		
ENSG00000251380	5	134769905	134793038	93	17	35855	-0.49705	0.69042	C5orf20		
ENSG00000226742	18	77714561	77740822	98	19	48046	-0.4971	0.69044	HSBP1L1		
ENSG00000198612	2	237983955	238019109	89	18	38046	-0.49718	0.69047	COPS8		
ENSG00000116747	1	193018552	193070907	98	13	52350	-0.49734	0.69052	TROVE2		
ENSG00000182103	11	82433053	82454906	62	13	31575	-0.49752	0.69059	FAM181B		
ENSG00000174788	19	7686497	7708634	69	9	53734	-0.49752	0.69059	PCP2		
ENSG00000171121	3	178947530	178994790	190	31	39365	-0.49786	0.69071	KCNMB3		
ENSG00000129116	4	169408217	169859608	1510	179	46126	-0.49789	0.69072	PALLD		
ENSG00000128016	19	39887453	39910052	45	9	42486	-0.49801	0.69076	ZFP36		
ENSG00000067334	1	94323373	94355474	151	17	42972	-0.49849	0.69093	DNTTIP2		
ENSG00000104783	19	44260685	44295409	140	23	49860	-0.49855	0.69095	KCNN4		
ENSG00000232748	16	31062813	31083451	43	8	21244	-0.49915	0.69116	ZNF668		
ENSG00000141086	16	67951543	67976317	21	5	39992	-0.4992	0.69118	CTRL		
ENSG00000196417	19	53883046	53940574	394	61	43051	-0.49933	0.69123	ZNF765		
ENSG00000214248	19	7953689	7978427	90	18	44676	-0.49973	0.69137	AC010336.1		
ENSG00000100650	14	70183617	70248722	163	25	46535	-0.50032	0.69158	SRSF5		
ENSG00000147571	8	67078620	67100960	57	9	35358	-0.50107	0.69184	CRH		
ENSG00000171060	8	10520147	10568103	116	25	36094	-0.50123	0.6919	C8orf74		
ENSG00000189134	6	28217098	28238736	49	11	45294	-0.50137	0.69194	NKAPL		
ENSG00000120820	12	104372762	104467961	322	55	48062	-0.50143	0.69196	GLT8D2		
ENSG00000163825	3	46528981	46552439	72	10	40598	-0.50156	0.69201	RTP3		
ENSG00000019186	20	52759988	52800512	221	35	43723	-0.50222	0.69224	CYP24A1		
ENSG00000166086	11	133928820	134031896	369	29	48497	-0.50292	0.69249	JAM3		
ENSG00000181754	1	110036797	110062360	69	13	45106	-0.50302	0.69253	AMIGO1		
ENSG00000198900	20	39647458	39763127	187	33	49025	-0.50309	0.69255	TOP1		
ENSG00000161920	17	4624723	4646905	86	18	47009	-0.50315	0.69257	MED11		
ENSG00000171202	11	85349011	85377591	53	9	46066	-0.50367	0.69275	TMEM126A		
ENSG00000137747	11	117761358	117810174	191	34	53601	-0.50388	0.69283	TMPRSS13		
ENSG00000103154	16	83992237	84046381	413	46	34106	-0.50394	0.69285	NECAB2		
ENSG00000126870	7	158639269	158759438	437	46	47655	-0.50416	0.69293	WDR60		
ENSG00000204220	6	33247079	33276178	85	20	30533	-0.50434	0.69299	PFDN6		
ENSG00000188486	11	118954564	118976177	53	11	33164	-0.50455	0.69306	H2AFX		
ENSG00000136367	14	23980066	24035401	100	36	42674	-0.50482	0.69316	ZFHX2		
ENSG00000176463	15	92386925	92725665	1227	148	46242	-0.50485	0.69317	SLCO3A1		
ENSG00000189377	19	42922440	42957200	36	7	38412	-0.50487	0.69317	CXCL17		

ENSG00000159210	17	46996678	47032479	133	11	28476	-0.50496	0.69321	SNF8		
ENSG00000135413	12	55014595	55038679	50	13	48346	-0.50525	0.69331	LACRT		
ENSG00000075429	17	64821235	64891603	296	72	51590	-0.50525	0.69331	CACNG5		
ENSG00000161277	19	36515887	36555664	107	21	52108	-0.50562	0.69344	THAP8		
ENSG00000165511	10	45483146	45506336	52	15	45284	-0.50609	0.6936	C10orf25		
ENSG00000142330	2	241516133	241567122	227	28	50534	-0.50619	0.69364	CAPN10		
ENSG00000204049	10	79616633	79639368	75	10	53651	-0.50648	0.69374	AL391421.1		
ENSG00000182199	12	57613110	57638718	38	13	42712	-0.50661	0.69379	SHMT2		
ENSG00000069020	5	65882176	66475423	1721	174	41739	-0.50677	0.69384	MAST4		
ENSG00000184348	6	27795658	27816117	45	12	37227	-0.50685	0.69387	HIST1H2AK		
ENSG00000114942	2	207014309	207037652	70	8	33142	-0.50742	0.69407	EEF1B2		
ENSG00000165685	12	10313141	10354400	181	35	36590	-0.5076	0.69413	TMEM52B		
ENSG00000051108	16	56955960	56987798	102	15	50149	-0.50775	0.69419	HERPUD1		
ENSG00000150672	11	83156055	85348966	6845	374	47158	-0.50788	0.69423	DLG2		
ENSG00000257138	7	141662431	141683573	16	8	50630	-0.50798	0.69427	TAS2R38		
ENSG00000170542	6	2877500	2913514	134	26	51147	-0.50805	0.69429	SERPINB9		
ENSG00000163528	3	14143580	14176370	70	17	44955	-0.50836	0.6944	CHCHD4		
ENSG00000216490	19	18273972	18298927	68	13	52976	-0.50865	0.6945	IFI30		
ENSG00000022355	5	161264197	161336975	206	24	43766	-0.50866	0.69451	GABRA1		
ENSG00000198015	12	93851264	93907545	206	17	49251	-0.50875	0.69454	MRPL42		
ENSG00000083544	13	60960591	61158012	518	40	55386	-0.50884	0.69457	TDRD3		
ENSG00000108788	17	40709086	40735257	58	11	54192	-0.50924	0.69471	MLX		
ENSG00000268716	12	52912915	52932980	77	13	33123	-0.50926	0.69472	AC055736.1		
ENSG00000204920	19	44462014	44512477	198	27	35953	-0.50929	0.69473	ZNF155		
ENSG00000175793	1	27179633	27200947	43	7	50128	-0.50953	0.69481	SFN		
ENSG00000085377	6	105715440	105860959	454	61	37857	-0.50978	0.6949	PREP		
ENSG00000174606	1	213155524	213199168	64	13	43761	-0.50986	0.69493	ANGEL2		
ENSG00000134077	3	9394526	9438475	131	21	40192	-0.5099	0.69494	THUMPD3		
ENSG00000262621	16	3405099	3546960	570	54	47871	-0.51016	0.69503	NAA60		
ENSG00000106772	9	79216292	79531003	1077	119	43960	-0.51032	0.69509	PRUNE2		
ENSG00000152409	5	78522012	78633038	262	24	32073	-0.51051	0.69515	JMY		
ENSG00000164889	7	150744297	150783614	91	22	50009	-0.51069	0.69522	SLC4A2		
ENSG00000169660	17	80366194	80410521	153	29	44283	-0.51136	0.69545	HEXDC		
ENSG00000198356	19	12837953	12869137	25	17	48160	-0.51143	0.69548	ASNA1		
ENSG00000129654	17	74122414	74147380	48	14	44776	-0.51166	0.69556	FOXJ1		
ENSG00000237763	1	104187912	104217173	5	3	43505	-0.51189	0.69563	AMY1A		

ENSG00000101096	20	49993494	50189370	605	128	44487	-0.51231	0.69578	NFATC2		
ENSG00000164855	7	1571871	1610457	145	22	52419	-0.51254	0.69586	TMEM184A		
ENSG00000214788	11	59695928	59722807	28	14	51879	-0.51278	0.69595	OOSP1		
ENSG00000186965	21	31849362	31869755	36	4	53450	-0.5134	0.69616	KRTAP19-2		
ENSG00000183401	19	11445360	11475620	67	14	37025	-0.51354	0.69621	CCDC159		
ENSG00000205221	2	36913833	37051935	560	95	44175	-0.51381	0.69631	VIT		
ENSG00000153575	15	22823395	22883892	93	26	45749	-0.51403	0.69638	TUBGCP5		
ENSG00000189266	1	24275599	24299952	13	4	29125	-0.51413	0.69642	PNRC2		
ENSG00000164332	5	158680089	158723044	93	17	50751	-0.51423	0.69645	UBLCP1		
ENSG00000104164	15	45869321	45918197	87	14	48472	-0.51425	0.69646	BLOC1S6		
ENSG00000198746	1	27206979	27236957	49	11	54595	-0.51439	0.69651	GPATCH3		
ENSG00000106692	9	108310411	108413399	251	37	41350	-0.51446	0.69653	FKTN		
ENSG00000081818	5	140491581	140515201	48	7	49606	-0.51463	0.69659	PCDHB4		
ENSG00000101608	18	3237479	3266234	127	18	36665	-0.51486	0.69667	MYL12A		
ENSG00000187699	2	190734335	191078210	857	113	40987	-0.51491	0.69669	C2orf88		
ENSG00000000938	1	27928575	27971788	65	25	42586	-0.5156	0.69693	FGR		
ENSG00000171428	8	18017986	18091198	418	54	42332	-0.51574	0.69698	NAT1		
ENSG00000197555	14	71777166	72217946	719	58	50568	-0.51575	0.69698	SIPA1L1		
ENSG00000077009	19	3923101	3952414	73	30	40013	-0.51578	0.697	NMRK2		
ENSG00000124006	2	220405451	220446581	130	26	46616	-0.51614	0.69712	OBSL1		
ENSG00000135447	12	54959171	54992443	72	21	43745	-0.51614	0.69712	PPP1R1A		
ENSG00000166979	21	33774314	33897707	436	52	45228	-0.51613	0.69712	EVA1C		
ENSG00000144847	3	118609404	118874915	831	85	44717	-0.51621	0.69715	IGSF11		
ENSG00000251537	17	15464805	15564967	290	41	38406	-0.5164	0.69721	RP11-385D13.1		
ENSG00000198160	1	67380578	67464302	221	19	48677	-0.51648	0.69724	MIER1		
ENSG00000162614	1	78344198	78419580	170	26	42151	-0.51673	0.69733	NEXN		
ENSG00000064195	17	48057369	48082588	84	20	39669	-0.51719	0.69749	DLX3		
ENSG00000103544	16	19556562	19728115	580	66	40332	-0.51783	0.69771	C16orf62		
ENSG00000116017	19	915781	985939	289	54	39425	-0.51781	0.69771	ARID3A		
ENSG00000182858	22	50283877	50322106	228	15	30902	-0.51799	0.69777	ALG12		
ENSG00000105792	7	89864488	89950377	219	26	43511	-0.51809	0.6978	C7orf63		
ENSG00000214556	17	36981341	37007708	101	18	41772	-0.51813	0.69782	C17orf98		
ENSG00000100014	22	24656786	24823708	474	41	42257	-0.51851	0.69795	SPECC1L		
ENSG00000100418	22	41984032	42027100	75	12	34579	-0.5186	0.69798	DESL1		
ENSG00000163377	3	68770917	68991761	740	55	43739	-0.51874	0.69803	FAM19A4		
ENSG00000242419	5	140854741	140902546	127	26	45832	-0.51877	0.69804	PCDHGC4		

ENSG00000175018	10	127255091	127381713	286	51	32427	-0.51889	0.69808	TEX36		
ENSG00000204038	10	81999466	82023395	170	12	52597	-0.5191	0.69816	AL359195.1		
ENSG00000135569	6	132899731	132920877	106	18	42648	-0.51922	0.6982	TAAR5		
ENSG00000121931	1	111479807	111516701	86	13	55201	-0.51934	0.69824	LRIF1		
ENSG00000101680	18	6931743	7127813	675	122	40913	-0.51938	0.69825	LAMA1		
ENSG00000137337	6	30657584	30695666	225	21	35511	-0.51944	0.69827	MDC1		
ENSG00000164236	5	10554442	10660308	391	43	46343	-0.51957	0.69832	ANKRD33B		
ENSG00000105808	7	102210093	102267204	3	2	43106	-0.51987	0.69842	RASA4		
ENSG00000213626	2	30444397	30556596	413	61	47312	-0.52012	0.69851	LBH		
ENSG00000143494	1	213113862	213175379	168	33	42113	-0.52027	0.69856	VASH2		
ENSG00000175707	1	27266053	27296897	40	8	54925	-0.52061	0.69868	C1orf172		
ENSG00000170465	12	52852300	52877569	190	11	37792	-0.52062	0.69869	KRT6C		
ENSG00000131969	14	51328878	51381688	171	30	48874	-0.52113	0.69886	ABHD12B		
ENSG00000206535	3	100110037	100185163	119	27	42848	-0.5212	0.69889	LNP1		
ENSG00000154175	3	100458000	100722359	827	87	40913	-0.52143	0.69897	ABI3BP		
ENSG00000116754	1	70661365	70728735	100	13	52410	-0.52187	0.69912	SRSF11		
ENSG00000156256	21	30386950	30436809	90	20	44811	-0.52197	0.69915	USP16		
ENSG00000203730	1	182357252	182379751	86	12	46221	-0.5221	0.6992	TEDDM1		
ENSG00000151136	12	107702190	108063419	1071	130	49126	-0.52275	0.69943	BTBD11		
ENSG00000135070	9	88869461	88907676	82	10	41055	-0.52284	0.69946	ISCA1		
ENSG00000175054	3	142158077	142307668	387	26	52072	-0.52295	0.6995	ATR		
ENSG00000173812	17	39835137	39858920	50	9	36703	-0.52305	0.69953	EIF1		
ENSG00000132704	1	157705523	157756922	112	24	49353	-0.52339	0.69965	FCRL2		
ENSG00000187097	14	74414713	74496102	348	33	33891	-0.52367	0.69974	ENTPD5		
ENSG00000180785	11	4654650	4686718	216	28	44338	-0.52377	0.69978	OR51E1		
ENSG00000104827	19	49516126	49537590	91	14	49849	-0.52385	0.69981	CGB		
ENSG00000165066	8	41492697	41518855	103	17	55343	-0.52402	0.69987	NKX6-3		
ENSG00000099365	16	30990577	31031949	56	11	27208	-0.52417	0.69992	STX1B		
ENSG00000183778	21	40918369	41055064	496	62	48990	-0.52438	0.69999	B3GALT5		
ENSG00000178950	4	833064	936161	446	55	54134	-0.52443	0.70001	GAK		
ENSG00000155827	9	104286133	104335622	130	23	54133	-0.52451	0.70004	RNF20		
ENSG00000086827	11	113593909	113654533	194	25	51131	-0.52462	0.70008	ZW10		
ENSG00000125871	20	17939556	17981765	170	15	54247	-0.5251	0.70024	MGME1		
ENSG00000058866	3	185813457	186090026	674	127	43508	-0.52553	0.70039	DGKG		
ENSG00000184113	22	19500547	19525068	84	24	45806	-0.52568	0.70044	CLDN5		
ENSG00000125910	19	3162344	3190329	107	31	48007	-0.5257	0.70045	S1PR4		

ENSG00000176108	17	78955398	78993317	186	29	42216	-0.52587	0.70051	CHMP6		
ENSG00000184611	2	163217917	163705240	1024	87	37769	-0.52591	0.70052	KCNH7		
ENSG00000178804	3	129252057	129280310	67	13	37241	-0.52626	0.70065	H1FOO		
ENSG00000143569	1	154182655	154253986	129	18	45948	-0.52677	0.70082	UBAP2L		
ENSG00000138356	2	201440591	201551787	360	48	48600	-0.52697	0.70089	AOX1		
ENSG00000170881	8	125476979	125510155	83	17	48272	-0.52708	0.70093	RNF139		
ENSG00000112462	6	29331200	29353068	114	17	36775	-0.52717	0.70096	OR12D3		
ENSG00000114541	3	69209141	69601734	1398	138	44902	-0.52729	0.701	FRMD4B		
ENSG00000163792	2	27361872	27386378	52	10	43711	-0.52735	0.70103	TCF23		
ENSG00000134627	11	94267006	94364587	303	44	40661	-0.52778	0.70117	PIWIL4		
ENSG00000109917	11	116638436	116668766	94	23	48817	-0.52776	0.70117	ZNF259		
ENSG00000075240	22	46961909	47085688	648	66	40304	-0.52819	0.70131	GRAMD4		
ENSG00000006712	19	39866492	39891835	51	14	43201	-0.52832	0.70136	PAF1		
ENSG00000185811	7	50333720	50482799	348	60	49741	-0.52845	0.70141	IKZF1		
ENSG00000198648	2	168800530	169114651	1031	82	36177	-0.52878	0.70152	STK39		
ENSG00000110400	11	119484120	119609794	316	52	43710	-0.52892	0.70157	PVRL1		
ENSG00000117054	1	76180036	76263260	346	30	39996	-0.52895	0.70158	ACADM		
ENSG00000163328	2	175286966	175361822	190	25	41739	-0.52966	0.70183	GPR155		
ENSG00000130638	22	46057678	46251187	537	53	52335	-0.52967	0.70183	ATXN10		
ENSG00000196422	9	138360925	138390739	100	27	38788	-0.5299	0.70191	PPP1R26		
ENSG00000184984	15	34250921	34367291	322	34	26231	-0.5299	0.70191	CHRM5		
ENSG00000011478	19	46185741	46217247	82	18	50257	-0.53001	0.70195	QPCTL		
ENSG00000125850	20	17927623	18049832	489	52	50952	-0.53007	0.70197	OVOL2		
ENSG00000183748	10	17841362	17963178	38	12	23162	-0.53028	0.70204	MRC1L1		
ENSG00000150281	16	30897928	30924881	31	11	35687	-0.53042	0.70209	CTF1		
ENSG00000258466	14	68116537	68167084	124	18	37698	-0.53067	0.70218	RP11-1012A1.4		
ENSG00000182077	10	27677116	27713297	178	19	28079	-0.53075	0.7022	PTCHD3		
ENSG00000167315	18	47299869	47350330	142	20	45288	-0.53079	0.70222	ACAA2		
ENSG00000133433	22	24289601	24313373	48	9	43665	-0.53103	0.7023	GSTT2B		
ENSG00000132849	1	62198149	62639592	1494	171	46812	-0.53113	0.70233	INADL		
ENSG00000205277	7	100602904	100672230	183	28	46704	-0.53115	0.70234	MUC12		
ENSG00000014919	10	101461601	101501857	73	12	54779	-0.53123	0.70237	COX15		
ENSG00000115414	2	216215163	216310895	349	41	39432	-0.53128	0.70239	FN1		
ENSG00000170954	19	53601132	53646330	203	27	45383	-0.53159	0.7025	ZNF415		
ENSG00000064270	16	84392133	84507793	859	131	47772	-0.53181	0.70257	ATP2C2		
ENSG00000163866	1	35168338	35335417	629	99	47997	-0.53186	0.70259	SMIM12		

ENSG00000198642	9	21319670	21345379	68	12	55330	-0.53194	0.70262	KLHL9		
ENSG00000184164	22	50301815	50331188	209	17	35320	-0.53205	0.70265	CRELD2		
ENSG00000184351	21	31842018	31862663	41	5	53924	-0.5321	0.70267	KRTAP19-1		
ENSG00000172785	9	111041	198979	154	21	45108	-0.53253	0.70282	CBWD1		
ENSG00000184507	15	34625516	34659938	136	19	50081	-0.53336	0.70311	NUTM1		
ENSG00000174175	1	169548087	169609431	190	34	42202	-0.53352	0.70316	SELP		
ENSG00000149531	20	29601857	29644010	125	20	46480	-0.53359	0.70319	FRG1B		
ENSG00000171435	12	117880817	118416788	1927	256	42312	-0.53379	0.70326	KSR2		
ENSG00000128917	15	41211538	41241237	46	13	31972	-0.53393	0.70331	DLL4		
ENSG00000148335	9	132361163	132408209	160	27	46182	-0.53398	0.70332	NTMT1		
ENSG00000124469	19	43074393	43109207	40	12	45577	-0.53466	0.70356	CEACAM8		
ENSG00000137693	11	101971192	102114154	358	33	45375	-0.53474	0.70359	YAP1		
ENSG00000143942	2	53984929	54012333	90	18	44204	-0.53526	0.70376	CHAC2		
ENSG00000197110	19	39724246	39745646	76	14	41621	-0.53531	0.70378	IFNL3		
ENSG00000182307	8	146267764	146291416	66	7	47246	-0.5359	0.70399	C8orf33		
ENSG00000136869	9	120456610	120489149	90	21	48160	-0.53601	0.70402	TLR4		
ENSG00000157131	1	57310479	57393894	361	42	35998	-0.53637	0.70415	C8A		
ENSG00000171824	1	11116675	11169938	155	11	22602	-0.53666	0.70425	EXOSC10		
ENSG00000164736	8	55360495	55383448	59	12	39269	-0.53688	0.70432	SOX17		
ENSG00000163527	3	31564130	31689112	275	31	44268	-0.53756	0.70456	STT3B		
ENSG00000270106	1	231654399	231964990	787	118	45903	-0.53762	0.70458	TSNAX-DISC1		
ENSG00000111361	12	124094953	124128313	124	16	33436	-0.53833	0.70483	EIF2B1		
ENSG00000184371	1	110442864	110483614	108	24	39715	-0.53843	0.70486	CSF1		
ENSG00000166340	11	6624000	6650692	79	15	47913	-0.53857	0.70491	TPP1		
ENSG00000186281	2	96677694	96715199	33	7	46291	-0.53871	0.70496	GPAT2		
ENSG00000173269	10	88685297	88739238	192	33	49133	-0.53885	0.705	MMRN2		
ENSG00000155545	5	56205429	56277502	273	29	43204	-0.53893	0.70503	MIER3		
ENSG00000134853	4	55085264	55174414	228	19	47214	-0.53931	0.70516	PDGFRA		
ENSG00000196739	9	116907840	117084791	680	143	46362	-0.53986	0.70535	COL27A1		
ENSG00000141391	18	12397895	12442237	174	36	43928	-0.53986	0.70535	SLMO1		
ENSG00000087903	19	5983175	6209583	693	68	36868	-0.53987	0.70536	RFX2		
ENSG00000179915	2	50135643	51269674	3902	249	48680	-0.54003	0.70541	NRXN1		
ENSG00000184321	11	5413827	5434777	214	14	31814	-0.54014	0.70545	OR51J1		
ENSG00000104643	8	11131925	11195646	226	19	42521	-0.54038	0.70553	MTMR9		
ENSG00000159202	17	46975731	47016418	138	11	30498	-0.54094	0.70572	UBE2Z		
ENSG00000167664	19	4282229	4312428	115	26	50979	-0.54097	0.70573	TMIGD2		

ENSG00000070729	16	57907503	58015020	387	84	43327	-0.54145	0.7059	CNGB1		
ENSG00000106384	7	100828288	100854302	69	18	41092	-0.54158	0.70595	MOGAT3		
ENSG00000136068	3	57984127	58167982	415	59	35193	-0.54177	0.70601	FLNB		
ENSG00000135679	12	69191956	69249214	162	30	43984	-0.54226	0.70618	MDM2		
ENSG00000152266	11	13503602	13527728	75	10	38476	-0.54251	0.70627	PTH		
ENSG00000183130	1	248779420	248800491	7	3	43628	-0.54355	0.70663	OR2T11		
ENSG00000144362	2	170540975	170568218	96	11	56617	-0.54385	0.70673	PHOSPHO2		
ENSG00000185627	11	226546	262983	196	23	47732	-0.54394	0.70676	PSMD13		
ENSG00000161681	19	51155084	51232707	197	58	45542	-0.54408	0.70681	SHANK1		
ENSG00000013441	2	201707732	201739422	76	22	48453	-0.54414	0.70683	CLK1		
ENSG00000187021	10	118339897	118378687	129	25	52479	-0.54417	0.70684	PNLIPRP1		
ENSG00000099783	19	8499651	8563998	183	26	28985	-0.54458	0.70698	HNRNPM		
ENSG00000258989	14	61985846	62134682	408	74	38981	-0.5448	0.70705	RP11-47I22.4		
ENSG00000146109	6	26587180	26610278	78	14	48913	-0.54488	0.70708	ABT1		
ENSG00000157500	3	57251765	57317496	119	17	41507	-0.54501	0.70713	APPL1		
ENSG00000138413	2	209090951	209140798	132	28	40289	-0.54517	0.70718	IDH1		
ENSG00000027075	14	61644277	62027694	1164	147	38170	-0.54521	0.7072	PRKCH		
ENSG00000102595	13	96443834	96715736	644	43	47910	-0.54526	0.70721	UGGT2		
ENSG00000104447	8	116410724	116831899	613	51	41868	-0.54544	0.70727	TRPS1		
ENSG00000165572	13	41691705	41716882	22	7	42492	-0.54549	0.70729	KBTD6		
ENSG00000166860	12	57382618	57410230	48	9	55127	-0.5457	0.70737	ZBTB39		
ENSG00000152689	2	33651391	33799817	545	110	46402	-0.54577	0.70739	RASGRP3		
ENSG00000131591	1	1007198	1061741	211	22	35915	-0.5458	0.7074	C1orf159		
ENSG00000135951	2	99603724	99781427	571	30	36989	-0.54608	0.70749	TSGA10		
ENSG00000179133	10	23546124	23643774	170	22	39759	-0.5461	0.7075	C10orf67		
ENSG00000198700	1	201788269	201863422	143	23	51629	-0.54641	0.70761	IPO9		
ENSG00000174130	4	38815336	38868438	178	19	28573	-0.54643	0.70761	TLR6		
ENSG00000228607	11	113640469	113661222	72	11	51106	-0.54641	0.70761	CLDN25		
ENSG00000144857	3	112919850	113016303	355	62	43914	-0.54653	0.70765	BOC		
ENSG00000166974	18	32546892	32733434	506	64	40792	-0.54663	0.70768	MAPRE2		
ENSG00000187855	12	108158162	108180421	70	15	39281	-0.54671	0.70771	ASCL4		
ENSG00000134333	11	18405935	18439972	151	15	42531	-0.54701	0.70781	LDHA		
ENSG00000132294	8	132906335	133035889	440	42	50110	-0.54726	0.7079	EFR3A		
ENSG00000268714	5	115348088	115404625	326	44	39810	-0.5473	0.70791	CTD-2287016.3		
ENSG00000173011	4	7033626	7069679	125	22	46641	-0.54747	0.70797	TADA2B		
ENSG00000140941	16	87407601	87448385	145	31	42470	-0.54753	0.70799	MAP1LC3B		

ENSG00000115592	2	219677106	219706809	24	11	51649	-0.54763	0.70803	PRKAG3		
ENSG00000090376	12	66572659	66658402	189	39	40383	-0.54764	0.70803	IRAK3		
ENSG00000119715	14	76766957	76978178	882	138	44979	-0.54783	0.7081	ESRRB		
ENSG00000237172	16	67172008	67195117	17	10	44303	-0.54793	0.70813	B3GNT9		
ENSG00000172497	5	80615824	80699998	310	52	47445	-0.54836	0.70828	ACOT12		
ENSG00000117385	1	43202006	43242755	99	19	53922	-0.54847	0.70831	LEPRE1		
ENSG00000171840	12	663462	782945	576	71	48334	-0.54857	0.70835	NINJ2		
ENSG00000105641	19	17972782	18015983	127	20	41961	-0.54872	0.7084	SLC5A5		
ENSG00000104413	8	95643302	95729694	331	22	33581	-0.54894	0.70848	ESRP1		
ENSG00000268403	11	9471747	9492010	53	9	47305	-0.54894	0.70848	AC132192.1		
ENSG00000111647	12	100412233	100546626	393	42	42372	-0.54912	0.70854	UHRF1BP1L		
ENSG00000177889	12	93789449	93846038	113	30	50239	-0.54914	0.70855	UBE2N		
ENSG00000111875	6	119205384	119240332	106	18	37631	-0.54954	0.70868	ASF1A		
ENSG00000234972	17	34570902	34767050	7	4	42972	-0.5496	0.7087	TBC1D3C		
ENSG00000116668	1	185116212	185270897	219	24	39413	-0.54974	0.70875	SWT1		
ENSG00000055208	6	149529777	149742749	804	77	41885	-0.54981	0.70877	TAB2		
ENSG00000123384	12	57512276	57617134	166	29	45369	-0.55005	0.70886	LRP1		
ENSG00000060642	1	27103963	27134889	39	11	53476	-0.55016	0.7089	PIGV		
ENSG00000136250	7	36542456	36774154	769	108	47264	-0.55025	0.70892	AOAH		
ENSG00000166224	10	72565717	72650930	292	37	54846	-0.5504	0.70898	SGPL1		
ENSG00000137558	8	75726772	75777264	156	20	54023	-0.55042	0.70899	PI15		
ENSG00000189350	2	29169477	29294239	545	70	43560	-0.55077	0.7091	FAM179A		
ENSG00000197614	12	8779942	8825484	129	13	49111	-0.55096	0.70917	MFAP5		
ENSG00000165801	14	21528429	21568399	107	24	49330	-0.55113	0.70923	ARHGEF40		
ENSG00000006116	16	24256874	24384122	439	88	51587	-0.55141	0.70932	CACNG3		
ENSG00000176842	16	54954774	54978397	66	12	44221	-0.5515	0.70935	IRX5		
ENSG00000105135	19	15215795	15246596	107	18	51821	-0.55226	0.70962	ILVBL		
ENSG00000118217	1	161726084	161943860	739	40	30952	-0.55267	0.70976	ATF6		
ENSG00000116329	1	29128654	29200208	230	32	37993	-0.55282	0.70981	OPRD1		
ENSG00000118855	3	158439987	158557508	357	37	54355	-0.55296	0.70985	MFSD1		
ENSG00000006744	17	12885708	12931504	261	17	52267	-0.55305	0.70988	ELAC2		
ENSG00000100211	22	39042641	39079859	176	10	48784	-0.55304	0.70988	CBY1		
ENSG00000116741	1	192768169	192791403	49	10	47841	-0.55307	0.70989	RGS2		
ENSG00000176049	5	146957990	147172338	538	55	33978	-0.55313	0.70991	JAKMIP2		
ENSG00000244617	2	70177226	70199397	34	5	17723	-0.55336	0.70999	ASPRV1		
ENSG00000161551	19	52349055	52404203	283	20	29647	-0.55335	0.70999	ZNF577		

ENSG00000212916	1	232930643	232956092	67	17	46560	-0.55343	0.71002	MAP10		
ENSG00000170379	7	143308043	143437502	35	10	45743	-0.55368	0.7101	FAM115C		
ENSG00000005961	17	42439548	42476873	48	10	51138	-0.55403	0.71022	ITGA2B		
ENSG00000006831	12	1787740	1907844	384	37	50361	-0.5541	0.71024	ADIPOR2		
ENSG00000163331	2	159641829	159729293	395	42	37737	-0.5541	0.71025	DAPL1		
ENSG00000177627	12	48866286	48900295	131	17	31865	-0.55438	0.71034	C12orf54		
ENSG00000178445	9	6522464	6655650	587	91	41854	-0.55476	0.71047	GLDC		
ENSG00000149218	11	94812974	94875809	245	46	49123	-0.55534	0.71067	ENDOD1		
ENSG00000080546	6	109297640	109426022	306	14	49549	-0.55541	0.71069	SESNI		
ENSG00000173013	4	7032579	7054728	73	16	51888	-0.5555	0.71072	CCDC96		
ENSG00000136021	12	100650918	100745502	186	26	51855	-0.55613	0.71094	SCYL2		
ENSG00000230510	19	46974053	47114457	591	99	49306	-0.55616	0.71095	PPP5D1		
ENSG00000169499	8	38748753	38841428	249	54	51689	-0.55631	0.711	PLEKHA2		
ENSG00000143119	1	111405775	111452550	179	23	45097	-0.55667	0.71112	CD53		
ENSG00000075035	12	108513248	108654314	408	59	49353	-0.5567	0.71113	WSCD2		
ENSG00000078053	7	38413305	38681167	1262	126	45975	-0.55676	0.71115	AMPH		
ENSG00000141437	18	29329525	29350843	76	15	44351	-0.55745	0.71139	SLC25A52		
ENSG00000103313	16	3282028	3316627	102	17	43187	-0.55787	0.71153	MEFV		
ENSG00000165548	14	77572911	77735838	688	89	44784	-0.55794	0.71156	TMEM63C		
ENSG00000058804	1	54221133	54314533	181	23	44815	-0.55813	0.71162	NDC1		
ENSG00000176435	14	38713308	38735574	37	9	46662	-0.55846	0.71173	CLEC14A		
ENSG00000082641	17	46115691	46148849	107	17	49337	-0.55861	0.71178	NFE2L1		
ENSG00000140563	15	94764767	95033632	893	148	48378	-0.55871	0.71182	MCTP2		
ENSG00000183569	22	42939623	42980388	100	21	32549	-0.55913	0.71196	SERHL2		
ENSG00000171204	11	85329629	85357580	53	10	47169	-0.55938	0.71205	TMEM126B		
ENSG00000228570	10	81591114	81620632	43	11	37519	-0.55946	0.71208	NUTM2E		
ENSG00000106733	9	77665489	77713133	217	30	55102	-0.56012	0.7123	NMRK1		
ENSG00000166157	21	10896201	11039719	11	3	40108	-0.56014	0.71231	TPTE		
ENSG00000173762	17	80262744	80285478	79	16	49446	-0.56046	0.71242	CD7		
ENSG00000265690	16	67187288	67209718	16	8	48328	-0.56061	0.71247	RP11-5A19.5		
ENSG00000103351	16	3540924	3599048	159	23	42775	-0.56068	0.71249	CLUAP1		
ENSG00000185736	10	1218073	1789670	2595	278	44576	-0.56083	0.71254	ADARB2		
ENSG00000185518	15	91633180	91854539	730	80	40632	-0.56134	0.71272	SV2B		
ENSG00000164818	7	756338	839190	355	28	49653	-0.5616	0.71281	HEATR2		
ENSG00000205791	12	12498342	12520001	75	19	47271	-0.56166	0.71283	LOH12CR2		
ENSG00000173157	12	43737669	43955724	807	56	44616	-0.56171	0.71284	ADAMTS20		

ENSG00000164182	5	60230956	60458853	624	38	51419	-0.56174	0.71285	NDUFAF2		
ENSG00000181523	17	78170515	78204722	154	24	38690	-0.56202	0.71295	SGSH		
ENSG00000176401	19	40011630	40033494	75	14	55725	-0.5621	0.71298	EID2B		
ENSG00000232013	3	145772358	145794156	64	11	55217	-0.56216	0.713	AC107021.1		
ENSG00000124249	20	43364421	43389675	68	13	51348	-0.56223	0.71302	KCNK15		
ENSG00000254667	11	123291058	123316427	60	17	43958	-0.56231	0.71305	AP000783.1		
ENSG00000255251	8	7387150	7409972	3	2	42926	-0.5627	0.71318	PRR23D1		
ENSG00000165863	10	118413207	118439775	66	20	51485	-0.56306	0.7133	C10orf82		
ENSG00000160352	19	21254965	21318073	286	20	35440	-0.56321	0.71335	ZNF714		
ENSG00000178217	10	82287658	82416316	525	68	41804	-0.56326	0.71337	SH2D4B		
ENSG00000177732	20	296207	320865	99	12	39861	-0.56335	0.7134	SOX12		
ENSG00000135972	2	105644441	105726418	301	13	53343	-0.56392	0.7136	MRPS9		
ENSG00000142556	19	52506018	52543493	120	16	36880	-0.56412	0.71366	ZNF614		
ENSG00000100558	14	67843700	67888917	109	26	42300	-0.56416	0.71368	PLEK2		
ENSG00000100146	22	38356693	38393429	47	10	44310	-0.56448	0.71379	SOX10		
ENSG00000154134	11	124725282	124761366	116	28	44169	-0.56452	0.7138	ROBO3		
ENSG00000177542	11	780475	808316	75	15	43589	-0.56468	0.71385	SLC25A22		
ENSG00000167098	20	31561579	31602239	173	17	46505	-0.56496	0.71395	SUN5		
ENSG00000138650	4	134060470	134139356	196	36	49787	-0.565	0.71396	PCDH10		
ENSG00000185245	17	4825592	4848325	64	15	35697	-0.56509	0.714	GP1BA		
ENSG00000175785	14	94174644	94264827	243	63	40805	-0.56536	0.71409	PRIMA1		
ENSG00000130812	19	10193014	10223472	58	24	49607	-0.56538	0.71409	ANGPTL6		
ENSG00000188581	17	39186811	39207713	95	13	37521	-0.56588	0.71426	KRTAP1-1		
ENSG00000011451	19	15522319	15570762	58	21	49839	-0.56672	0.71455	WIZ		
ENSG00000164944	8	95489921	95575757	376	28	42077	-0.5669	0.71461	KIAA1429		
ENSG00000048545	6	42113144	42157794	184	29	44164	-0.56745	0.7148	GUCA1A		
ENSG00000103037	16	58539383	58564431	84	12	37684	-0.56764	0.71486	SETD6		
ENSG00000166439	11	74449913	74563458	245	26	39965	-0.56768	0.71487	RNF169		
ENSG00000108784	17	40678190	40706467	77	17	46282	-0.56777	0.71491	NAGLU		
ENSG00000163394	4	26473022	26502084	126	21	40019	-0.56784	0.71493	CCKAR		
ENSG00000256206	11	14505329	14551890	90	13	54015	-0.56795	0.71496	PSMA1		
ENSG00000149577	11	117039449	117078160	134	20	35634	-0.56818	0.71504	SIDT2		
ENSG00000139549	12	49473204	49498602	39	13	46854	-0.56843	0.71513	DHH		
ENSG00000094975	1	172491489	172590971	179	25	52849	-0.56872	0.71523	SUCO		
ENSG00000162402	1	55522032	55690786	352	34	46204	-0.56907	0.71535	USP24		
ENSG00000100276	22	29698922	29725668	52	15	49314	-0.56912	0.71536	RASL10A		

ENSG00000178974	14	55728021	55838636	336	21	49190	-0.56958	0.71552	FBXO34		
ENSG00000162391	1	55064855	55099229	140	27	48220	-0.5696	0.71553	FAM151A		
ENSG00000057019	3	98504785	98630533	375	29	50948	-0.56994	0.71564	DCBLD2		
ENSG00000123473	1	47705811	47789819	237	18	34687	-0.57032	0.71577	STIL		
ENSG00000138400	2	207592487	207640271	169	18	27867	-0.57034	0.71578	MDH1B		
ENSG00000173163	2	62105859	62384382	558	60	42979	-0.57039	0.71579	COMMD1		
ENSG00000162702	1	200364068	200389184	49	11	51269	-0.57069	0.7159	ZNF281		
ENSG00000197170	17	65324032	65372743	122	23	52168	-0.57094	0.71598	PSMD12		
ENSG00000166220	10	72520995	72555157	206	35	51013	-0.57118	0.71606	TBATA		
ENSG00000101323	20	7853628	7931121	224	38	34363	-0.57132	0.71611	HAO1		
ENSG00000184221	21	34432450	34454726	41	17	46027	-0.57138	0.71613	OLIG1		
ENSG00000269883	14	77597026	77619339	78	19	45603	-0.57155	0.71619	AC007375.1		
ENSG00000165695	9	135590965	135764164	497	58	45900	-0.57173	0.71625	AK8		
ENSG00000160321	19	22105760	22203751	424	28	46508	-0.57199	0.71634	ZNF208		
ENSG00000123684	1	211906799	212014114	406	38	46199	-0.5721	0.71637	LPGAT1		
ENSG00000142700	1	50873222	50899172	59	13	48643	-0.57237	0.71646	DMRTA2		
ENSG00000175183	12	77242495	77282840	154	22	53070	-0.57256	0.71653	CSRP2		
ENSG00000146416	6	143371633	143671441	583	89	38802	-0.5726	0.71654	AIG1		
ENSG00000100225	22	32860663	32904818	189	19	45397	-0.57266	0.71656	FBXO7		
ENSG00000180116	12	40009969	40312102	876	69	43686	-0.57303	0.71669	C12orf40		
ENSG00000145217	4	962861	997228	130	29	50074	-0.57318	0.71674	SLC26A1		
ENSG00000184809	21	40959074	40994748	109	24	52183	-0.5732	0.71674	C21orf88		
ENSG00000175203	12	57913885	57951114	57	11	45900	-0.57324	0.71676	DCTN2		
ENSG00000197562	16	629357	689272	225	16	54390	-0.5733	0.71678	RAB40C		
ENSG00000128285	22	41064754	41088818	52	11	43627	-0.57402	0.71702	MCHR1		
ENSG00000166448	7	98434111	98478394	100	20	44287	-0.57405	0.71703	TMEM130		
ENSG00000118961	2	20873788	21032882	402	56	44456	-0.57419	0.71708	C2orf43		
ENSG00000068079	17	41148742	41176473	47	9	48916	-0.57447	0.71717	IFI35		
ENSG00000219481	1	16878814	16950057	19	9	42817	-0.57458	0.71721	NBPF1		
ENSG00000139579	12	56605799	56633638	26	11	45433	-0.57473	0.71726	NABP2		
ENSG00000164821	8	6783344	6805860	124	28	47460	-0.5749	0.71732	DEFA4		
ENSG00000206127	15	32727307	32757835	3	2	42760	-0.57518	0.71742	GOLGA8O		
ENSG00000106459	7	129241555	129406922	503	49	46637	-0.57531	0.71746	NRF1		
ENSG00000174004	3	196356557	196398875	179	54	51871	-0.57546	0.71751	NRROS		
ENSG00000104856	19	45494688	45551452	153	41	44378	-0.57551	0.71753	RELB		
ENSG00000120885	8	27444434	27482548	103	25	38168	-0.57554	0.71754	CLU		

ENSG00000197576	7	27158126	27180418	57	10	38836	-0.57563	0.71757	HOXA4		
ENSG00000108602	17	19631297	19662256	69	15	36289	-0.57573	0.7176	ALDH3A1		
ENSG00000101282	20	929095	992907	289	53	39900	-0.57573	0.7176	RSPO4		
ENSG00000101161	20	62602488	62674453	173	17	50956	-0.57594	0.71767	PRPF6		
ENSG00000188996	6	645939	666963	56	17	36716	-0.57624	0.71778	HUS1B		
ENSG00000155189	8	6555878	6627184	286	36	44326	-0.57667	0.71792	AGPAT5		
ENSG00000204856	12	110896169	110938190	117	15	33917	-0.57705	0.71805	FAM216A		
ENSG00000198440	19	56899335	56957404	141	20	47842	-0.57729	0.71813	ZNF583		
ENSG00000148803	10	135158658	135181529	95	9	25606	-0.57773	0.71828	FUOM		
ENSG00000158246	1	27321511	27349327	27	10	44148	-0.57821	0.71844	FAM46B		
ENSG00000132703	1	159547615	159568655	97	16	42194	-0.57824	0.71845	APCS		
ENSG00000133818	11	14289472	14396052	156	26	55070	-0.57852	0.71854	RRAS2		
ENSG00000121577	3	119345304	119394171	213	24	52292	-0.57867	0.71859	POPDC2		
ENSG00000005801	11	3350491	3410448	192	18	47040	-0.57875	0.71862	ZNF195		
ENSG00000141655	18	59982520	60068516	371	66	46091	-0.57875	0.71862	TNFRSF11A		
ENSG00000114988	2	97361666	97415801	78	10	42750	-0.57881	0.71864	LMAN2L		
ENSG00000135842	1	184749858	184953682	481	57	44029	-0.57896	0.71869	FAM129A		
ENSG00000143748	1	224405036	224528089	281	32	42241	-0.57895	0.71869	NVL		
ENSG00000173369	1	22969255	22998031	106	16	34270	-0.57918	0.71876	C1QB		
ENSG00000160445	9	131482065	131544693	82	20	39597	-0.57972	0.71895	ZER1		
ENSG00000182170	11	3229174	3250043	73	24	48013	-0.5798	0.71898	MRGPRG		
ENSG00000205426	12	52669697	52695318	114	15	55205	-0.57983	0.71899	KRT81		
ENSG00000126467	19	50233010	50276587	106	34	45050	-0.5799	0.71901	TSKS		
ENSG00000158220	3	138143428	138210528	115	24	48777	-0.57995	0.71903	ESYT3		
ENSG00000257599	12	29532227	29650421	494	47	44312	-0.58002	0.71905	OVCH1-AS1		
ENSG00000203392	15	75960672	75983093	53	10	40850	-0.5801	0.71908	AC105020.1		
ENSG00000100099	22	26829389	26889803	213	28	41821	-0.58038	0.71917	HPS4		
ENSG00000141252	17	401908	634957	863	77	45848	-0.58049	0.71921	VPS53		
ENSG00000112164	6	39006574	39065519	239	39	43780	-0.58067	0.71927	GLP1R		
ENSG00000186930	21	31960909	31981219	43	8	55217	-0.58088	0.71934	KRTAP6-2		
ENSG00000099977	22	24303554	24332660	19	8	41793	-0.58103	0.71939	DDT		
ENSG00000114124	3	141486990	141547332	181	28	49930	-0.58106	0.7194	GRK7		
ENSG00000048028	11	113658596	113756292	246	27	49738	-0.58106	0.7194	USP28		
ENSG00000166337	11	6617526	6643898	74	15	48077	-0.58129	0.71948	TAF10		
ENSG00000180425	11	114252165	114281139	66	13	47525	-0.58139	0.71951	C11orf71		
ENSG00000154059	18	21996580	22043499	175	23	51581	-0.58164	0.7196	IMPACT		

ENSG00000165023	9	93362114	93415386	220	41	52464	-0.58174	0.71963	DIRAS2		
ENSG00000100167	22	42362276	42404225	109	14	47618	-0.58174	0.71963	Sep-03		
ENSG00000145736	5	70320784	70373516	7	4	43375	-0.58214	0.71977	GTF2H2		
ENSG00000107771	10	86078342	86288273	695	40	49047	-0.58216	0.71977	CCSER2		
ENSG00000169347	16	20310894	20349130	111	22	31534	-0.58228	0.71981	GP2		
ENSG00000186910	14	94898801	94929127	153	18	45069	-0.58253	0.71989	SERPINA11		
ENSG00000272896	9	139675831	139705047	111	12	53235	-0.5826	0.71992	RP11-216L13.17		
ENSG00000111843	6	10713148	10741362	51	9	39427	-0.58381	0.72033	TMEM14C		
ENSG00000108242	10	96433251	96505947	207	20	49488	-0.58405	0.72041	CYP2C18		
ENSG00000169359	3	155528813	155582218	108	20	42797	-0.58445	0.72054	SLC33A1		
ENSG00000090905	16	24731016	24848953	271	36	51820	-0.58474	0.72064	TNRC6A		
ENSG00000139200	12	6792958	6819966	43	17	53182	-0.58484	0.72067	PIANP		
ENSG00000269026	19	58183413	58274943	225	32	45661	-0.58499	0.72072	AC003006.7		
ENSG00000255181	8	144778864	144800279	55	15	33088	-0.58516	0.72078	CCDC166		
ENSG00000144820	3	100318433	100424323	240	24	37188	-0.58563	0.72094	GPR128		
ENSG00000125522	20	62727173	62748524	82	14	53660	-0.58564	0.72094	NPBWR2		
ENSG00000010539	16	3262325	3296221	111	13	48229	-0.58607	0.72109	ZNF200		
ENSG00000168306	3	58480863	58533046	116	28	40338	-0.58616	0.72111	ACOX2		
ENSG00000165480	13	21717734	21760741	161	22	47736	-0.58638	0.72119	SKA3		
ENSG00000101442	20	37367085	37410834	235	20	54788	-0.5867	0.7213	ACTR5		
ENSG00000133246	19	8544940	8577996	108	17	35446	-0.58692	0.72137	PRAM1		
ENSG00000188672	1	25678740	25766683	133	12	27518	-0.58719	0.72146	RHCE		
ENSG00000119760	2	27863679	27896676	34	10	34003	-0.58727	0.72149	SUPT7L		
ENSG00000155016	4	108842525	108884613	151	12	51474	-0.58726	0.72149	CYP2U1		
ENSG00000156735	8	38024051	38080819	103	9	51617	-0.58735	0.72152	BAG4		
ENSG00000168395	2	242631450	242678893	174	24	39506	-0.58757	0.72159	ING5		
ENSG00000119888	2	47562297	47624740	225	46	41942	-0.58766	0.72162	EPCAM		
ENSG00000088888	20	3817487	3859280	109	35	40271	-0.58782	0.72167	MAVS		
ENSG00000133636	12	86258073	86286770	117	16	47318	-0.58792	0.72171	NTS		
ENSG00000213265	7	130343488	130382268	101	19	47254	-0.58798	0.72173	TSGA13		
ENSG00000169155	9	129557285	129610489	59	17	49044	-0.58833	0.72185	ZBTB43		
ENSG00000133961	14	73731815	73940348	506	46	37977	-0.58837	0.72186	NUMB		
ENSG00000179532	11	6508490	6624988	315	45	46872	-0.58845	0.72189	DNHD1		
ENSG00000139625	12	53864274	53903847	43	17	51004	-0.58861	0.72194	MAP3K12		
ENSG00000159189	1	22960123	22984603	110	15	32124	-0.5891	0.7221	C1QC		
ENSG00000105793	7	89954537	90030769	297	32	50149	-0.58918	0.72213	GTPBP10		

ENSG00000162434	1	65288912	65442187	454	47	35630	-0.58948	0.72223	JAK1		
ENSG00000063127	19	49782895	49838482	97	16	49715	-0.58983	0.72235	SLC6A16		
ENSG00000090316	4	1273639	1343935	267	25	36123	-0.59016	0.72246	MAEA		
ENSG00000213145	14	105942654	105965284	18	10	34888	-0.59016	0.72246	CRIP1		
ENSG00000139618	13	32879611	32983805	270	32	48382	-0.59044	0.72255	BRCA2		
ENSG00000244094	1	153074590	153095991	47	13	38832	-0.59053	0.72258	SPRR2F		
ENSG00000133401	5	31629517	32121037	1903	289	48634	-0.59052	0.72258	PDZD2		
ENSG00000166342	18	70399549	70545381	560	62	47029	-0.59075	0.72266	NETO1		
ENSG00000111879	6	119270928	119480552	742	87	44689	-0.59087	0.7227	FAM184A		
ENSG00000173517	15	77390471	77722486	576	41	45467	-0.59088	0.7227	PEAK1		
ENSG00000064225	3	98441080	98550045	315	33	51526	-0.59109	0.72277	ST3GAL6		
ENSG00000166557	15	79593404	79714334	477	46	49963	-0.59116	0.72279	TMED3		
ENSG00000169330	15	79714858	79774632	220	35	46738	-0.59115	0.72279	KIAA1024		
ENSG00000132793	20	39959560	39999222	106	23	43694	-0.59128	0.72284	LPIN3		
ENSG00000145700	5	74354100	74542703	579	30	29379	-0.59167	0.72296	ANKRD31		
ENSG00000177340	12	31467250	31488879	13	6	35486	-0.59167	0.72296	AC024940.1		
ENSG00000135919	2	224829829	224914036	279	42	38844	-0.59189	0.72304	SERPINE2		
ENSG00000115085	2	98320023	98366325	97	19	37926	-0.59209	0.72311	ZAP70		
ENSG00000175879	2	176984422	177007423	51	12	41213	-0.59219	0.72314	HOXD8		
ENSG00000106049	7	27555061	27712614	640	35	49543	-0.59225	0.72316	HIBADH		
ENSG00000197958	9	130199953	130223684	76	7	54929	-0.59267	0.7233	RPL12		
ENSG00000006451	7	39653082	39757723	248	37	41794	-0.59272	0.72331	RALA		
ENSG00000121318	12	10967916	10988957	38	9	35352	-0.59281	0.72334	TAS2R10		
ENSG00000160180	21	43721777	43745761	92	22	41532	-0.59287	0.72337	TFF3		
ENSG00000198858	19	886503	923240	104	37	43689	-0.59316	0.72346	R3HDM4		
ENSG00000176542	3	113357232	113425493	93	11	48591	-0.59334	0.72352	KIAA2018		
ENSG00000100122	22	26985242	27024052	130	21	46499	-0.59339	0.72354	CRYBB1		
ENSG00000070778	14	88922122	89031077	269	23	41865	-0.59387	0.7237	PTPN21		
ENSG00000197683	21	31681452	31702607	159	15	34970	-0.59403	0.72376	KRTAP26-1		
ENSG00000215902	1	28517013	28537152	60	9	46499	-0.5942	0.72381	AL353354.1		
ENSG00000168078	8	27657137	27705612	247	9	27541	-0.59431	0.72385	PBK		
ENSG00000118482	6	64335725	64499229	307	32	48758	-0.59446	0.7239	PHF3		
ENSG00000168672	8	127554687	127580638	48	14	42796	-0.59475	0.72399	FAM84B		
ENSG00000204688	6	29414958	29442105	76	14	30643	-0.59501	0.72408	OR2H1		
ENSG00000141294	17	45898993	45925079	97	17	33397	-0.59516	0.72413	LRRC46		
ENSG00000264187	17	17095963	17150499	184	27	48672	-0.59555	0.72426	RP11-45M22.4		

ENSG00000134371	1	193081147	193233031	411	28	54060	-0.59559	0.72428	CDC73		
ENSG00000149609	20	32240090	32263425	22	8	51342	-0.59561	0.72428	C20orf144		
ENSG00000109775	4	186310694	186357139	138	19	32058	-0.59616	0.72447	UFSP2		
ENSG00000119138	9	72989503	73039540	107	25	42477	-0.59706	0.72477	KLF9		
ENSG00000269469	19	49956009	49999488	142	23	31862	-0.59708	0.72477	CTD-3148/10.9		
ENSG00000109762	4	186115391	186301339	676	58	47174	-0.59719	0.72481	SNX25		
ENSG00000122477	1	100604409	100653771	117	23	34743	-0.59727	0.72484	LRRC39		
ENSG00000168758	2	97515453	97546494	35	13	38350	-0.59737	0.72487	SEMA4C		
ENSG00000189227	15	67803406	67829628	75	8	41772	-0.59741	0.72488	C15orf61		
ENSG00000166523	12	8675901	8703559	117	18	48185	-0.59778	0.72501	CLEC4E		
ENSG00000222036	14	19543365	19600078	2	1	42914	-0.59791	0.72505	POTEG		
ENSG00000262304	17	3458738	3549543	382	61	38154	-0.59799	0.72508	SHPK		
ENSG00000130643	10	135128927	135160475	87	20	41060	-0.59813	0.72512	CALY		
ENSG00000010282	3	42724155	42754319	65	19	49460	-0.59849	0.72525	HHATL		
ENSG00000083307	8	102494660	102691954	613	70	38161	-0.59882	0.72535	GRHL2		
ENSG00000100216	22	39067953	39090818	71	8	47387	-0.59897	0.7254	TOMM22		
ENSG00000170891	4	5006313	5031199	129	26	47968	-0.59907	0.72544	CYTL1		
ENSG00000182107	14	61734088	61758558	66	17	34393	-0.59907	0.72544	TMEM30B		
ENSG00000100852	14	32535320	32638934	103	37	50368	-0.59911	0.72545	ARHGAP5		
ENSG00000179104	12	83070659	83538649	1419	140	43168	-0.5992	0.72548	TMTC2		
ENSG00000188916	10	128923694	129004422	222	28	37763	-0.59924	0.72549	FAM196A		
ENSG00000235978	3	4845978	4938977	303	43	41498	-0.59934	0.72553	AC018816.3		
ENSG00000268533	19	57895551	57959825	147	26	47724	-0.59989	0.72571	AC004076.7		
ENSG00000189001	19	36004269	36029253	95	20	46590	-0.60005	0.72576	SBSN		
ENSG00000198673	12	62092040	62682931	1914	169	50715	-0.60022	0.72582	FAM19A2		
ENSG00000081051	4	74286855	74331891	113	19	51514	-0.60025	0.72583	AFP		
ENSG00000144909	3	125237702	125323934	354	30	45526	-0.60029	0.72584	OSBPL11		
ENSG00000003987	8	17145539	17281037	646	83	36604	-0.60064	0.72596	MTMR7		
ENSG000000067141	15	73334051	73607547	725	53	38808	-0.60114	0.72613	NEO1		
ENSG00000169255	3	160791671	160833172	91	13	53447	-0.60153	0.72626	B3GALNT1		
ENSG00000188785	19	57891218	57922786	76	15	46529	-0.60177	0.72633	ZNF548		
ENSG00000253506	17	59657794	59678563	63	9	47353	-0.60177	0.72634	NACA2		
ENSG00000146166	6	63975856	64039882	98	18	52334	-0.60188	0.72637	LGSN		
ENSG00000171109	3	179055480	179122719	144	20	50945	-0.60235	0.72653	MFN1		
ENSG00000145592	5	40815364	40845437	83	18	51848	-0.60236	0.72653	RPL37		
ENSG00000151413	14	31949162	32340430	1403	59	44659	-0.60257	0.7266	NUBPL		

ENSG00000136104	13	51473814	51554592	170	29	48247	-0.60271	0.72665	<i>RNASEH2B</i>		
ENSG00000071127	4	10065963	10128573	325	30	46667	-0.60292	0.72672	<i>WDR1</i>		
ENSG00000117748	1	28208035	28251257	141	12	38224	-0.60321	0.72681	<i>RPA2</i>		
ENSG00000180509	21	35808988	35894573	252	46	46005	-0.60333	0.72685	<i>KCNE1</i>		
ENSG00000130202	19	45339432	45402485	290	52	50293	-0.60345	0.7269	<i>PVRL2</i>		
ENSG00000205497	11	4957355	4978356	127	13	51584	-0.60386	0.72703	<i>OR51A4</i>		
ENSG00000079999	19	10586796	10624417	121	20	47576	-0.60387	0.72704	<i>KEAP1</i>		
ENSG00000183814	1	226408850	226507570	181	24	53186	-0.60403	0.72709	<i>LIN9</i>		
ENSG00000138449	2	190415305	190458484	109	21	38677	-0.60411	0.72712	<i>SLC40A1</i>		
ENSG00000184698	11	5400607	5421664	204	18	52433	-0.60436	0.7272	<i>OR51M1</i>		
ENSG00000053747	18	21259407	21545030	442	43	39519	-0.6047	0.72731	<i>LAMA3</i>		
ENSG00000150556	2	149884621	150081776	675	64	44829	-0.60487	0.72737	<i>LYPD6B</i>		
ENSG00000134548	12	21669241	21700311	127	22	43875	-0.60545	0.72756	<i>C12orf39</i>		
ENSG00000197506	9	86880372	86965672	359	53	38710	-0.60548	0.72757	<i>SLC28A3</i>		
ENSG00000205923	16	2567081	2591420	23	16	53077	-0.60553	0.72759	<i>CEMP1</i>		
ENSG00000174749	4	113056553	113126412	157	20	44754	-0.60592	0.72771	<i>C4orf32</i>		
ENSG00000134762	18	28559974	28632781	223	30	40940	-0.60639	0.72787	<i>DSC3</i>		
ENSG00000101126	20	49495585	49557958	159	21	38553	-0.60648	0.7279	<i>ADNP</i>		
ENSG00000240432	21	31787583	31808286	57	7	55586	-0.6065	0.72791	<i>KRTAP13-3</i>		
ENSG00000187840	8	37877859	37927883	69	16	45843	-0.60678	0.728	<i>EIF4EBP1</i>		
ENSG00000197408	19	41487204	41534303	206	24	34843	-0.60706	0.72809	<i>CYP2B6</i>		
ENSG00000197181	8	22122810	22225076	283	23	42744	-0.60723	0.72815	<i>PIWIL2</i>		
ENSG00000166128	15	63471668	63569981	210	35	41212	-0.60723	0.72815	<i>RAB8B</i>		
ENSG00000139631	12	53541447	53585135	80	11	43301	-0.6073	0.72817	<i>CSAD</i>		
ENSG00000269804	1	28517070	28537419	61	9	46682	-0.60749	0.72824	<i>AL353354.2</i>		
ENSG00000145990	6	13348062	13497894	345	59	37758	-0.60748	0.72824	<i>GFOD1</i>		
ENSG00000134198	1	115580632	115642121	270	35	50793	-0.60764	0.72829	<i>TSPAN2</i>		
ENSG00000077454	7	100159855	100193776	58	12	52026	-0.60799	0.7284	<i>LRCH4</i>		
ENSG00000006128	7	97351220	97379784	106	12	54924	-0.608	0.72841	<i>TAC1</i>		
ENSG00000196123	16	67199505	67227943	34	9	36158	-0.60873	0.72865	<i>KIAA0895L</i>		
ENSG00000060138	12	10841683	10885911	133	18	47063	-0.60879	0.72867	<i>YBX3</i>		
ENSG00000213231	14	96142754	96168980	109	31	38481	-0.60911	0.72878	<i>TCL1B</i>		
ENSG00000168491	4	186356336	186402913	175	35	33050	-0.60934	0.72885	<i>CCDC110</i>		
ENSG00000205279	5	126974736	127004322	107	20	41972	-0.60955	0.72892	<i>CTXN3</i>		
ENSG00000159131	21	34866238	34925797	110	18	53201	-0.60966	0.72896	<i>GART</i>		
ENSG00000010379	12	319789	382039	205	40	41557	-0.60971	0.72897	<i>SLC6A13</i>		

ENSG00000139223	12	48856448	48876843	50	10	34730	-0.61001	0.72907	ANP32D		
ENSG00000215440	20	57254187	57304294	200	25	41497	-0.61036	0.72919	NPEPL1		
ENSG00000238243	1	248021277	248070449	280	46	44107	-0.6108	0.72934	OR2W3		
ENSG00000167080	17	47199822	47257351	237	31	49257	-0.61092	0.72937	B4GALNT2		
ENSG00000206102	21	32400478	32420795	21	12	46714	-0.61107	0.72942	KRTAP19-8		
ENSG00000205592	12	40777197	40974632	1136	61	44150	-0.61114	0.72945	MUC19		
ENSG00000130035	12	4819507	4970277	551	64	45213	-0.61158	0.72959	GALNT8		
ENSG00000146054	5	180610924	180642293	160	28	33541	-0.61244	0.72988	TRIM7		
ENSG00000110074	11	126128950	126158026	82	16	41787	-0.61247	0.72989	FOXRED1		
ENSG00000134042	18	48314574	48361772	199	40	47229	-0.61254	0.72991	MRO		
ENSG00000186806	19	51824790	51855378	100	20	39984	-0.61289	0.73002	VSIG10L		
ENSG00000261052	16	30195754	30225631	5	3	27239	-0.61295	0.73005	SULT1A3		
ENSG00000205899	17	1163853	1184754	75	24	50588	-0.61298	0.73005	BHLHA9		
ENSG00000166343	10	75173339	75203319	21	7	32342	-0.61358	0.73025	MSS51		
ENSG00000084652	1	32635287	32673886	63	14	36521	-0.61363	0.73027	TXLNA		
ENSG00000269647	1	147621967	147642428	1	1	12474	-0.61372	0.7303	BX842679.1		
ENSG00000118242	2	216799213	216908819	433	87	43618	-0.61387	0.73035	MREG		
ENSG00000083454	17	3565493	3609698	138	23	45720	-0.61418	0.73045	P2RX5		
ENSG00000168702	2	140978992	142899270	8843	489	46949	-0.61423	0.73047	LRP1B		
ENSG00000123349	12	53679075	53703234	41	11	42994	-0.61445	0.73054	PFDN5		
ENSG00000126460	19	50073903	50104272	77	10	34996	-0.6145	0.73056	PRRG2		
ENSG00000162620	1	74481699	74673871	389	28	36858	-0.61526	0.73081	LRRIQ3		
ENSG00000106178	7	75430983	75462674	216	28	45118	-0.61546	0.73087	CCL24		
ENSG00000116761	1	70866901	70915534	139	30	46227	-0.6155	0.73089	CTH		
ENSG00000120925	8	42694780	42762433	114	20	48345	-0.61553	0.7309	RNF170		
ENSG00000149150	11	57242007	57293259	91	18	50464	-0.61574	0.73097	SLC43A1		
ENSG00000168904	15	99781567	99940934	567	52	41072	-0.61614	0.7311	LRRC28		
ENSG00000141985	19	4350367	4410544	170	26	50245	-0.61617	0.73111	SH3GL1		
ENSG00000170873	8	125553031	125750730	765	124	45709	-0.61625	0.73113	MTSS1		
ENSG00000156413	19	5820621	5849742	116	22	37182	-0.61663	0.73126	FUT6		
ENSG00000148848	10	127690950	128087024	1556	195	46754	-0.61681	0.73132	ADAM12		
ENSG00000006047	17	7181571	7207934	64	17	45801	-0.61688	0.73134	YBX2		
ENSG00000171916	17	18370051	18408259	4	2	45963	-0.61709	0.73141	LGALS9C		
ENSG00000104728	8	1762142	1916807	884	156	49830	-0.61714	0.73143	ARHGEF10		
ENSG00000213699	2	26977152	27014099	55	9	41044	-0.61726	0.73147	SLC35F6		
ENSG00000204377	1	16545368	16566038	49	8	44827	-0.61749	0.73154	C1orf134		

ENSG00000255713	17	56237017	56257940	74	15	42220	-0.61747	0.73154	OR4D2		
ENSG00000214732	6	42113279	42141156	131	27	46804	-0.61817	0.73177	RP1-139D8.6		
ENSG00000269113	1	48216200	48472567	749	78	49712	-0.61826	0.7318	TRABD2B		
ENSG00000141576	17	74128534	74246454	291	41	42676	-0.61829	0.73181	RNF157		
ENSG00000174194	10	51214681	51381321	6	3	32679	-0.61843	0.73185	AGAP8		
ENSG00000125538	2	113577328	113604480	60	16	44474	-0.61896	0.73203	IL1B		
ENSG00000146453	6	160211298	160251736	164	20	50397	-0.61928	0.73213	PNLDC1		
ENSG00000182264	19	49234109	49260166	75	10	25351	-0.61958	0.73223	IZUMO1		
ENSG00000222020	2	240313130	240334058	59	23	44376	-0.61983	0.73231	AC062017.1		
ENSG00000150316	11	94685787	94716776	92	16	44780	-0.62017	0.73243	CWC15		
ENSG00000267206	9	139628463	139652980	106	13	43908	-0.62026	0.73246	LCN6		
ENSG00000206418	18	8599443	8649379	181	19	39032	-0.62063	0.73258	RAB12		
ENSG00000182983	3	42937223	42970825	52	13	44959	-0.62067	0.73259	ZNF662		
ENSG00000140859	16	57782129	57906957	447	68	46427	-0.62076	0.73262	KIFC3		
ENSG00000168286	16	67866213	67888097	35	9	44482	-0.62082	0.73264	THAP11		
ENSG00000131507	5	141478070	141544005	281	25	47888	-0.6209	0.73267	NDFIP1		
ENSG00000101132	20	52814386	52854591	156	31	46070	-0.62095	0.73268	PFDN4		
ENSG00000184508	15	91464148	91485799	68	13	40661	-0.62101	0.7327	HDCC3		
ENSG00000105053	19	50469724	50539203	255	19	44491	-0.6214	0.73283	VRK3		
ENSG00000141577	17	79153393	79206799	236	37	33397	-0.62192	0.733	AZI1		
ENSG00000261594	11	74941950	74964742	41	10	36107	-0.62206	0.73305	TPBGL		
ENSG00000184029	21	39313728	39503454	509	81	44378	-0.6225	0.73319	DSCR4		
ENSG00000171163	1	249134205	249163343	36	9	34592	-0.62252	0.7332	ZNF692		
ENSG00000145431	4	157671606	157902546	411	55	41920	-0.62265	0.73324	PDGFC		
ENSG00000168454	18	9875763	9899272	96	21	52836	-0.62267	0.73325	TXNDC2		
ENSG00000109158	4	46910917	47006424	357	34	54820	-0.62278	0.73329	GABRA4		
ENSG00000259060	14	21041051	21087954	232	52	49256	-0.62286	0.73331	RNASE11		
ENSG00000106809	9	95136249	95176978	100	13	45093	-0.62326	0.73344	OGN		
ENSG00000122870	10	60262900	60601195	850	43	51073	-0.62331	0.73346	BICC1		
ENSG00000182934	11	126122814	126149039	58	13	41963	-0.62346	0.73351	SRPR		
ENSG00000146802	7	112392437	112440647	85	11	38275	-0.62356	0.73354	TMEM168		
ENSG00000214402	9	139866356	139890862	67	11	53106	-0.6247	0.73392	LCNL1		
ENSG00000257046	12	20958608	21253179	1214	49	32035	-0.62484	0.73396	LST3		
ENSG00000233608	2	239746673	239805893	122	36	41453	-0.62527	0.7341	TWIST2		
ENSG00000154188	8	108251721	108520283	957	110	49201	-0.62559	0.73421	ANGPT1		
ENSG00000142677	1	24436261	24479611	149	28	50190	-0.62578	0.73427	IL22RA1		

ENSG00000083814	19	58221119	58248992	76	13	45664	-0.62647	0.7345	ZNF671		
ENSG00000118454	1	70716271	70830417	217	31	52356	-0.62655	0.73452	ANKRD13C		
ENSG00000178028	1	44669127	44696353	38	13	50042	-0.62695	0.73465	DMAP1		
ENSG00000119283	1	231287858	231367302	271	49	40797	-0.62704	0.73468	TRIM67		
ENSG00000049130	12	88876570	88984628	223	16	41702	-0.62723	0.73474	KITLG		
ENSG00000166959	11	60457047	60493284	39	7	44165	-0.62736	0.73479	MS4A8		
ENSG00000055147	5	153359688	153428496	179	11	55349	-0.62757	0.73486	FAM114A2		
ENSG00000135823	1	180931861	181002047	174	26	49591	-0.6276	0.73487	STX6		
ENSG00000188305	19	2264631	2292181	106	19	26387	-0.62761	0.73487	C19orf35		
ENSG00000147885	9	21206372	21227310	158	14	48848	-0.62782	0.73494	IFNA16		
ENSG00000256892	10	37880366	37901859	92	10	55228	-0.62811	0.73504	MTRNR2L7		
ENSG00000140015	14	63163287	63578755	1252	107	45994	-0.62815	0.73505	KCNH5		
ENSG00000139746	13	79875962	79990612	362	14	46661	-0.62832	0.7351	RBM26		
ENSG00000054654	14	64309683	64703165	1158	92	41183	-0.62875	0.73524	SYNE2		
ENSG00000205439	21	46067849	46088258	123	13	51556	-0.62874	0.73524	KRTAP12-3		
ENSG00000104671	8	30003813	30051156	95	15	39508	-0.62889	0.73529	DCTN6		
ENSG00000085788	8	38072736	38143076	83	11	53581	-0.62904	0.73534	DDHD2		
ENSG00000213023	19	51114564	51181651	192	46	44837	-0.6292	0.73539	SYT3		
ENSG00000239857	7	906189	946073	197	43	51045	-0.62934	0.73544	GET4		
ENSG00000019169	2	119689742	119762236	283	45	38019	-0.62944	0.73547	MARCO		
ENSG00000175832	17	41595212	41666988	152	14	53352	-0.62985	0.7356	ETV4		
ENSG00000147684	8	125541344	125590751	217	34	45607	-0.62998	0.73565	NDUFB9		
ENSG00000175048	6	157792165	158109178	1235	118	49378	-0.63054	0.73583	ZDHHC14		
ENSG00000169967	2	128046306	128156041	319	33	54396	-0.63067	0.73587	MAP3K2		
ENSG00000269795	1	243378058	243405911	63	12	39728	-0.63078	0.73591	AC092782.1		
ENSG00000102575	19	11675475	11699823	78	19	47558	-0.63091	0.73595	ACP5		
ENSG00000185519	1	16374264	16410127	214	28	41671	-0.63108	0.736	FAM131C		
ENSG00000198964	10	52055360	52394923	932	84	48075	-0.63151	0.73615	SGMS1		
ENSG00000149091	11	46344455	46412104	93	24	45760	-0.63157	0.73617	DGKZ		
ENSG00000125734	19	6719925	6747614	77	23	51023	-0.63196	0.73629	GPR108		
ENSG00000229644	10	36800649	36823162	54	11	48376	-0.6325	0.73647	NAMPTL		
ENSG00000205850	13	24885264	24905566	104	14	40580	-0.63257	0.73649	AL359736.1		
ENSG00000100347	22	44341301	44416411	291	39	47522	-0.63274	0.73655	SAMM50		
ENSG00000008128	1	1624169	1665766	21	15	39428	-0.63281	0.73657	CDK11A		
ENSG00000165841	10	96437911	96623017	573	34	50262	-0.6335	0.73679	CYP2C19		
ENSG00000134250	1	120444176	120622240	181	21	28163	-0.63355	0.73681	NOTCH2		

ENSG00000128805	10	49644077	49874310	791	94	41354	-0.63355	0.73681	ARHGAP22		
ENSG00000253309	13	51899909	51948871	118	12	54602	-0.63362	0.73683	SERPINE3		
ENSG00000162851	1	246693862	246739626	259	34	36896	-0.63367	0.73685	TFB2M		
ENSG00000143107	1	109245279	109295365	112	23	38598	-0.63369	0.73686	FNDC7		
ENSG00000213593	11	57470072	57518445	75	11	44416	-0.63368	0.73686	TMX2		
ENSG00000107099	9	204854	475259	1516	131	46032	-0.63376	0.73688	DOCK8		
ENSG00000173464	14	21041054	21088043	233	52	49230	-0.63379	0.73689	RNASE11		
ENSG00000164611	5	159838829	159865748	75	20	49269	-0.6343	0.73706	PTTG1		
ENSG00000088451	13	95216308	95258511	122	11	45278	-0.63433	0.73707	TGDS		
ENSG00000187527	3	192982579	193106632	456	51	48676	-0.63457	0.73715	ATP13A5		
ENSG00000124275	5	7841299	7916138	383	45	46628	-0.63483	0.73723	MTRR		
ENSG00000165912	11	47189076	47217994	60	13	45320	-0.63525	0.73737	PACIN3		
ENSG00000105877	7	21572833	21951457	1776	196	43297	-0.63541	0.73742	DNAH11		
ENSG00000112419	6	143847982	144162322	1117	104	49266	-0.63561	0.73748	PHACTR2		
ENSG00000110324	11	117847063	117882196	96	16	40687	-0.63561	0.73749	IL10RA		
ENSG00000074706	6	154465631	154687926	863	119	40934	-0.63566	0.7375	IPCEF1		
ENSG00000126453	19	50158823	50187173	42	11	38235	-0.63664	0.73782	BCL2L12		
ENSG00000154133	11	124743587	124778396	124	25	41383	-0.63667	0.73783	ROBO4		
ENSG00000186235	2	239123193	239150318	151	12	50131	-0.63688	0.7379	AC016757.3		
ENSG00000146038	6	24161984	24368280	882	89	40329	-0.63693	0.73792	DCDC2		
ENSG00000242631	9	109675630	109696455	40	14	50461	-0.63694	0.73792	RP11-508N12.4		
ENSG00000166333	11	6614961	6642102	75	15	47422	-0.63719	0.738	ILK		
ENSG00000106069	7	29151890	29563944	1511	196	45899	-0.63745	0.73809	CHN2		
ENSG00000078304	14	102218135	102404326	631	71	40664	-0.63762	0.73814	PPP2R5C		
ENSG00000205420	12	52870958	52897041	168	13	41606	-0.63799	0.73826	KRT6A		
ENSG00000167654	19	3869862	3938077	211	57	38055	-0.63807	0.73829	ATCAY		
ENSG00000125843	20	3791178	3815949	95	18	42061	-0.63837	0.73838	AP5S1		
ENSG00000127472	1	20344672	20427683	296	40	45928	-0.63909	0.73862	PLA2G5		
ENSG00000115084	2	114452588	114524400	280	23	42688	-0.63909	0.73862	SLC35F5		
ENSG00000186583	8	145076582	145111933	38	16	45963	-0.63937	0.73871	SPATC1		
ENSG00000205754	12	20958673	21255679	1220	50	32112	-0.63989	0.73888	SLCO1B7		
ENSG00000129538	14	21259387	21281437	68	21	46028	-0.6399	0.73888	RNASE1		
ENSG00000179755	16	34246507	34267278	13	9	44839	-0.64078	0.73917	CTD-2144E22.5		
ENSG00000174123	4	38763860	38794611	174	18	20960	-0.64096	0.73923	TLR10		
ENSG00000135272	7	114552209	114669256	246	48	42430	-0.64113	0.73928	MDFIC		
ENSG0000013523	14	77243588	77302589	195	33	54934	-0.6412	0.7393	ANGEL1		

ENSG00000125846	20	18259121	18307640	182	31	42581	-0.64158	0.73943	ZNF133		
ENSG00000159618	16	57566333	57635593	250	35	38826	-0.64178	0.73949	GPR114		
ENSG00000107317	9	139861956	139889887	90	15	51666	-0.6421	0.7396	PTGDS		
ENSG00000124767	6	38633701	38680917	171	25	46119	-0.64214	0.73961	GLO1		
ENSG00000099622	19	1249384	1284879	56	19	42472	-0.64247	0.73972	CIRBP		
ENSG00000126524	7	66442664	66470588	96	27	43824	-0.64251	0.73973	SBDS		
ENSG00000167083	17	47270153	47297936	90	17	48236	-0.64252	0.73973	GNGT2		
ENSG00000135525	6	136653875	136881957	344	32	37901	-0.64273	0.7398	MAP7		
ENSG00000259680	16	33637044	33657696	3	2	22665	-0.64275	0.73981	RP11-812E19.9		
ENSG00000198887	9	72863937	72979804	346	28	53245	-0.64299	0.73988	SMC5		
ENSG00000158258	3	139644027	140306239	2069	212	42453	-0.64301	0.73989	CLSTN2		
ENSG00000092051	14	24027244	24058009	37	10	41987	-0.64329	0.73998	JPH4		
ENSG00000257335	7	141597613	141816547	535	94	43614	-0.64359	0.74008	MGAM		
ENSG00000147465	8	37991167	38018783	23	14	44466	-0.6439	0.74018	STAR		
ENSG00000137221	6	43435261	43484294	102	12	46051	-0.64397	0.7402	TJAP1		
ENSG00000104738	8	48862745	48900720	26	16	44135	-0.64429	0.74031	MCM4		
ENSG00000109320	4	103412486	103548459	330	27	47287	-0.64471	0.74044	NFKB1		
ENSG00000154493	10	128103566	128369079	871	142	49766	-0.64532	0.74064	C10orf90		
ENSG00000104154	15	45761809	45825005	69	16	41633	-0.64612	0.7409	SLC30A4		
ENSG00000180071	9	38530566	38630657	229	57	41293	-0.64671	0.74109	ANKRD18A		
ENSG00000169047	2	227586033	227674475	220	25	34337	-0.64687	0.74114	IRS1		
ENSG00000171243	7	16491106	16580205	399	52	49646	-0.6472	0.74125	SOSTDC1		
ENSG00000268472	11	112120988	112142117	109	5	53785	-0.64736	0.7413	AP002884.2		
ENSG00000224730	19	55137173	55160343	140	16	39652	-0.6477	0.74141	AC009892.10		
ENSG00000149742	11	63127261	63187766	226	30	36315	-0.64799	0.7415	SLC22A9		
ENSG00000161270	19	36306866	36370189	148	34	40677	-0.648	0.74151	NPHS1		
ENSG00000170962	11	103767914	104045107	1064	95	49006	-0.64836	0.74163	PDGFD		
ENSG00000163738	4	74969891	75178816	321	35	34947	-0.64841	0.74164	MTHFD2L		
ENSG00000125863	20	10371657	10424870	246	16	29796	-0.64845	0.74165	MKKS		
ENSG00000150764	11	111787868	111903308	198	24	34443	-0.649	0.74183	DIXDC1		
ENSG00000187942	1	22128758	22161714	133	40	47289	-0.64904	0.74185	LDLRAD2		
ENSG00000063241	19	55954352	55983710	113	34	45136	-0.64924	0.74191	ISOC2		
ENSG00000090512	3	186343758	186380930	140	20	44901	-0.64947	0.74198	FETUB		
ENSG00000126067	1	36057185	36117445	37	16	37739	-0.64985	0.74211	PSMB2		
ENSG00000268154	1	161025655	161045943	45	14	47493	-0.64991	0.74213	AL591806.1		
ENSG00000052723	1	115302100	115333306	39	13	51979	-0.65012	0.74219	SIKE1		

ENSG00000170423	12	53221588	53252876	64	13	49612	-0.65014	0.7422	KRT78		
ENSG00000128294	22	26911458	27002681	392	61	49923	-0.65028	0.74224	TPST2		
ENSG00000119630	14	75398537	75432487	79	14	49303	-0.65065	0.74236	PGF		
ENSG00000068912	2	54004181	54055956	147	21	42691	-0.65075	0.7424	ERLEC1		
ENSG00000035928	4	39279076	39377995	195	16	34690	-0.65088	0.74244	RFC1		
ENSG00000129221	17	6287013	6348519	373	74	44206	-0.65091	0.74245	AIPL1		
ENSG00000186908	12	77147368	77257476	451	24	53457	-0.65097	0.74247	ZDHH17		
ENSG00000171456	20	30936155	31037122	158	11	47966	-0.65103	0.74249	ASXL1		
ENSG00000111732	12	8744762	8775467	73	19	39325	-0.65112	0.74252	AICDA		
ENSG00000228083	9	21229201	21249978	89	8	50141	-0.65143	0.74261	IFNA14		
ENSG00000107130	9	132924857	133009583	325	59	46602	-0.65145	0.74262	NCS1		
ENSG00000062282	11	75460557	75522579	83	10	39039	-0.65162	0.74268	DGAT2		
ENSG00000182634	11	123898773	123919717	64	16	36556	-0.65185	0.74275	OR10G7		
ENSG00000162836	1	147091453	147152618	183	28	44848	-0.65191	0.74277	ACP6		
ENSG00000146926	7	150862785	150894919	91	19	44590	-0.65213	0.74284	ASB10		
ENSG00000222005	2	47033807	47059796	105	23	45725	-0.65224	0.74288	LINC01118		
ENSG00000005486	7	75461920	75528244	166	28	41872	-0.6525	0.74296	RHBDD2		
ENSG00000166949	15	67346101	67497533	447	85	48095	-0.65271	0.74303	SMAD3		
ENSG00000078549	7	31082076	31161089	234	57	42357	-0.65296	0.74311	ADCYAP1R1		
ENSG00000212670	1	54559968	54581750	52	8	25786	-0.65301	0.74312	AL161915.1		
ENSG00000163202	1	152541857	152562980	32	10	35296	-0.65299	0.74312	LCE3D		
ENSG00000105143	19	15050846	15143802	632	77	45941	-0.65334	0.74323	SLC1A6		
ENSG00000258729	14	96731383	96753060	85	19	49486	-0.65338	0.74324	DKFZP434O1614		
ENSG00000133800	11	10568513	10643236	268	39	47910	-0.65368	0.74334	LYVE1		
ENSG00000163431	1	201855580	201925715	177	34	46970	-0.65369	0.74335	LMOD1		
ENSG00000110274	11	117175273	117293984	344	42	48707	-0.65416	0.74349	CEP164		
ENSG00000114125	3	141447046	141476402	105	13	49579	-0.6542	0.74351	RNF7		
ENSG00000181963	11	4460525	4481591	106	24	48191	-0.65423	0.74352	OR52K2		
ENSG00000166311	11	6401655	6426228	71	16	51938	-0.65424	0.74352	SMPD1		
ENSG00000155542	5	56195087	56231359	124	15	39830	-0.65434	0.74355	SETD9		
ENSG00000116525	1	33601003	33657660	133	11	51507	-0.65486	0.74372	TRIM62		
ENSG00000132010	19	12193658	12261222	133	22	39512	-0.65499	0.74376	ZNF20		
ENSG00000156299	21	32480734	32942290	1474	182	42908	-0.65497	0.74376	TIAM1		
ENSG00000111913	6	24787601	25052238	1024	99	39240	-0.6551	0.7438	FAM65B		
ENSG00000126457	19	50169043	50202286	57	17	38956	-0.65512	0.7438	PRMT1		
ENSG00000182974	15	22358478	22379561	4	2	43643	-0.65514	0.74381	OR4M2		

ENSG00000175426	5	95716119	95779847	139	26	47403	-0.65526	0.74385	PCSK1		
ENSG00000167302	17	79192077	79222891	116	21	33668	-0.65528	0.74386	ENTHD2		
ENSG00000156858	16	30652038	30677761	18	8	30148	-0.65582	0.74403	PRR14		
ENSG00000160182	21	43772391	43796703	150	31	43215	-0.65621	0.74416	TFF1		
ENSG00000175782	12	69129886	69197508	188	40	44554	-0.65626	0.74417	SLC35E3		
ENSG00000241322	17	15458798	15532826	235	33	38408	-0.65674	0.74433	CDRT1		
ENSG00000213030	19	49540895	49562400	92	25	47765	-0.65686	0.74436	CGB8		
ENSG00000206562	3	15412782	15492073	220	29	43754	-0.65692	0.74439	METTL6		
ENSG00000065361	12	56463641	56507289	75	20	43921	-0.6576	0.7446	ERBB3		
ENSG00000169548	22	22858060	22884613	81	21	43036	-0.65763	0.74461	ZNF280A		
ENSG00000100284	22	35685268	35753985	209	21	33493	-0.65765	0.74462	TOM1		
ENSG00000177994	2	54547171	54620879	236	38	42535	-0.65803	0.74474	C2orf73		
ENSG00000112941	5	6704718	6767161	282	31	47561	-0.65807	0.74475	PAPD7		
ENSG00000188771	11	112108876	112141583	127	7	53015	-0.65809	0.74476	PLET1		
ENSG00000171246	17	78430948	78461643	83	24	47252	-0.65812	0.74477	NPTX1		
ENSG00000269711	19	7733387	7757740	184	19	40370	-0.65821	0.7448	CTD-3214H19.16		
ENSG00000147535	8	38110648	38136761	33	7	54362	-0.6584	0.74486	PPAPDC1B		
ENSG00000165060	9	71640175	71725094	385	34	52453	-0.65861	0.74493	FXN		
ENSG00000137806	15	41669551	41704717	77	13	38887	-0.65946	0.7452	NDUFAF1		
ENSG00000124875	4	74692214	74724781	91	20	40115	-0.65958	0.74524	CXCL6		
ENSG00000112130	6	37311748	37372514	76	29	44679	-0.65964	0.74526	RNF8		
ENSG00000146374	6	127429749	127528910	212	19	52171	-0.65995	0.74536	RSPO3		
ENSG00000196156	17	39313484	39334424	64	9	50323	-0.66041	0.74551	KRTAP4-3		
ENSG00000117834	1	48678357	48724316	123	21	43061	-0.66048	0.74553	SLC5A9		
ENSG00000179772	20	30422103	30443420	50	13	40058	-0.66071	0.7456	FOXS1		
ENSG00000140577	15	91063157	91198577	480	42	43280	-0.66092	0.74567	CRTC3		
ENSG00000170298	17	20342708	20380852	38	9	35202	-0.66121	0.74576	LGALS9B		
ENSG00000145287	4	84001201	84068228	125	30	44603	-0.66124	0.74577	PLAC8		
ENSG00000183128	10	105222561	105248997	76	14	45083	-0.66132	0.7458	CALHM3		
ENSG00000162999	2	183933287	183974733	132	19	42001	-0.66153	0.74586	DUSP19		
ENSG00000130559	9	138690333	138809074	226	27	46903	-0.66159	0.74588	CAMSAP1		
ENSG00000242366	2	234658894	234691945	121	25	44228	-0.6619	0.74598	UGT1A1		
ENSG00000180354	7	30164426	30212378	146	27	51545	-0.66216	0.74607	MTURN		
ENSG00000179431	11	35629735	35652419	59	17	51518	-0.66231	0.74611	FJX1		
ENSG00000135314	6	73941037	74030088	330	29	45531	-0.6625	0.74617	KHDC1		
ENSG00000105675	19	36030945	36064560	83	25	46319	-0.66249	0.74617	ATP4A		

ENSG00000148688	10	92621473	92678312	126	18	36486	-0.66252	0.74618	<i>RPP30</i>		
ENSG00000156411	14	104368625	104404606	166	18	45622	-0.66289	0.7463	<i>C14orf2</i>		
ENSG00000111536	12	68585131	68629601	149	25	33745	-0.66312	0.74637	<i>IL26</i>		
ENSG00000170950	6	49743366	49765053	65	13	50205	-0.66339	0.74646	<i>PGK2</i>		
ENSG00000133026	17	8367523	8544079	307	24	51749	-0.66341	0.74647	<i>MYH10</i>		
ENSG00000131844	5	70873115	70964531	245	27	48760	-0.6635	0.74649	<i>MCCC2</i>		
ENSG00000197124	19	20097867	20160315	265	21	39847	-0.66355	0.74651	<i>ZNF682</i>		
ENSG00000104901	19	49855040	49888373	126	8	50983	-0.664	0.74665	<i>DKKL1</i>		
ENSG00000182158	7	137549725	137696813	370	64	38879	-0.6641	0.74669	<i>CREB3L2</i>		
ENSG00000100441	14	24888492	24920540	188	16	27645	-0.66423	0.74673	<i>KHNYN</i>		
ENSG00000250506	17	73986987	74012080	65	17	46704	-0.66453	0.74682	<i>CDK3</i>		
ENSG00000169951	16	30555085	30579819	27	11	34955	-0.66458	0.74684	<i>ZNF764</i>		
ENSG00000118640	2	85778685	85819154	141	17	47586	-0.66468	0.74687	<i>VAMP8</i>		
ENSG00000175097	11	36587124	36629829	116	14	46863	-0.66468	0.74687	<i>RAG2</i>		
ENSG00000136936	9	100427191	100469639	61	15	43593	-0.66495	0.74696	<i>XPA</i>		
ENSG00000184270	1	149849019	149869466	39	6	52926	-0.6651	0.74701	<i>HIST2H2AB</i>		
ENSG00000196758	2	240489995	240517788	115	29	50322	-0.66535	0.74709	<i>AC079612.1</i>		
ENSG00000185261	5	93478671	93964309	827	131	51004	-0.66563	0.74718	<i>KIAA0825</i>		
ENSG00000130332	19	2311516	2338619	117	23	43848	-0.66573	0.74721	<i>LSM7</i>		
ENSG00000149428	11	118904900	118937913	78	15	46781	-0.66586	0.74725	<i>HYOU1</i>		
ENSG00000120688	13	41625410	41668137	55	19	44414	-0.66605	0.74731	<i>WBP4</i>		
ENSG00000150977	12	123889936	123931264	126	30	42287	-0.66632	0.7474	<i>RILPL2</i>		
ENSG00000185684	12	132558828	132623029	168	17	29067	-0.66648	0.74745	<i>EP400NL</i>		
ENSG00000228835	18	30339758	30364376	49	10	32676	-0.66673	0.74753	<i>AC012123.1</i>		
ENSG00000111700	12	20953636	21253040	1236	53	32410	-0.66738	0.74774	<i>SLCO1B3</i>		
ENSG00000269403	19	51843627	51881353	135	24	36536	-0.66771	0.74784	<i>CTD-2616J11.11</i>		
ENSG00000160050	1	32655987	32680988	39	10	36761	-0.66904	0.74827	<i>CCDC28B</i>		
ENSG00000172986	3	72927224	73057289	443	55	38662	-0.66928	0.74834	<i>GXYLT2</i>		
ENSG00000175520	11	5518530	5541215	66	17	43047	-0.66958	0.74844	<i>UBQLN3</i>		
ENSG00000185900	8	42938658	42988577	94	18	46534	-0.66984	0.74852	<i>POMK</i>		
ENSG00000138028	2	27311757	27351995	71	13	48192	-0.6699	0.74854	<i>CGREF1</i>		
ENSG00000139318	12	89731009	89757048	100	16	47508	-0.67004	0.74858	<i>DUSP6</i>		
ENSG00000075142	7	87824433	87866308	73	16	40238	-0.67032	0.74867	<i>SRI</i>		
ENSG00000187922	9	139622619	139647808	96	15	47338	-0.67079	0.74882	<i>LCN10</i>		
ENSG00000153237	2	159017593	159323265	1514	86	40519	-0.67095	0.74887	<i>CCDC148</i>		
ENSG00000176928	5	74313289	74336724	78	17	43773	-0.67211	0.74924	<i>GCNT4</i>		

ENSG00000186977	21	31863975	31884435	41	5	53908	-0.67212	0.74925	KRTAP19-5		
ENSG00000106299	7	123311989	123399121	229	18	54818	-0.67221	0.74928	WASL		
ENSG00000197928	19	53721577	53768151	218	18	41675	-0.67234	0.74932	ZNF677		
ENSG00000138433	2	175202750	175270443	159	23	40351	-0.67239	0.74933	CIR1		
ENSG00000033800	15	68336517	68493096	242	31	42636	-0.67251	0.74937	PIAS1		
ENSG00000148513	10	37404785	37683039	734	46	47190	-0.67313	0.74957	ANKRD30A		
ENSG00000179979	4	1375340	1399780	58	15	41092	-0.6732	0.74959	CRIPAK		
ENSG00000155393	16	50089852	50150298	217	17	47117	-0.67364	0.74973	HEATR3		
ENSG00000171953	17	17870723	17952523	103	16	35995	-0.67387	0.7498	ATPAF2		
ENSG00000197641	18	61244223	61281873	59	12	47681	-0.67388	0.7498	SERPINB13		
ENSG00000151834	4	46240444	46487247	620	46	48138	-0.67394	0.74982	GABRA2		
ENSG00000197376	12	48891137	48933680	208	20	32679	-0.67404	0.74986	OR8S1		
ENSG00000136514	3	187076120	187099864	91	23	49672	-0.67446	0.74999	RTP4		
ENSG00000173436	1	19913477	19966314	158	25	47078	-0.67497	0.75015	MINOS1		
ENSG00000181029	19	7735729	7757744	177	18	40955	-0.67501	0.75016	TRAPPC5		
ENSG00000168242	6	26263144	26283622	72	13	39519	-0.67506	0.75018	HIST1H2BI		
ENSG00000164626	6	39146749	39207226	218	46	47189	-0.67526	0.75024	KCNK5		
ENSG00000170166	2	177005950	177027954	46	12	35835	-0.6755	0.75032	HOXD4		
ENSG00000164066	4	128534426	128657892	229	27	49076	-0.67584	0.75043	INTU		
ENSG00000100024	22	24853206	24934358	229	36	39258	-0.67594	0.75046	UPB1		
ENSG00000235156	3	99894531	99923035	57	11	51647	-0.67607	0.7505	TMEM30C		
ENSG00000171421	5	1788500	1811480	97	12	34819	-0.67635	0.75059	MRPL36		
ENSG00000186967	21	31859142	31879451	37	4	54714	-0.67665	0.75069	KRTAP19-4		
ENSG00000213931	11	5279582	5536847	1729	98	43721	-0.67692	0.75077	HBE1		
ENSG00000133110	13	38126720	38182981	200	23	38755	-0.67696	0.75079	POSTN		
ENSG00000002834	17	37016112	37088023	231	55	48165	-0.67703	0.75081	LASP1		
ENSG00000170523	12	52698085	52725182	173	16	53969	-0.67724	0.75087	KRT83		
ENSG00000049540	7	73432119	73494237	134	25	36772	-0.67741	0.75093	ELN		
ENSG00000161911	6	41107080	41132075	22	5	50800	-0.6775	0.75096	TREML1		
ENSG00000170876	3	14156440	14195179	96	21	47019	-0.67754	0.75097	TMEM43		
ENSG00000171105	19	7102266	7304045	841	132	45305	-0.67761	0.75099	INSR		
ENSG00000117713	1	27012524	27118595	165	12	54640	-0.67781	0.75105	ARID1A		
ENSG00000172150	17	3090813	3111742	68	15	46459	-0.67779	0.75105	OR1A2		
ENSG00000152147	2	38968676	39022142	126	17	40642	-0.67802	0.75112	GEMIN6		
ENSG00000169021	19	29688173	29714448	104	15	53448	-0.67807	0.75114	UQCRRF51		
ENSG00000167981	16	3476104	3503542	101	13	47271	-0.67817	0.75117	ZNF597		

ENSG00000077943	10	15545948	15772124	769	75	41942	-0.67862	0.75131	ITGA8		
ENSG00000186523	8	12029605	12061642	6	3	42829	-0.67869	0.75133	FAM86B1		
ENSG00000268400	19	7684682	7717934	107	15	54060	-0.67875	0.75135	CTD-3214H19.4		
ENSG00000267552	19	38170766	38220089	124	19	37610	-0.67959	0.75162	CTD-2528L19.4		
ENSG00000242107	3	159723811	159759210	174	18	37566	-0.6797	0.75165	LINC01100		
ENSG00000186924	21	31963414	31983612	48	9	55135	-0.68003	0.75176	KRTAP22-1		
ENSG00000110079	11	60038014	60086445	141	24	51432	-0.68009	0.75178	MS4A4A		
ENSG00000180535	7	97830739	97852291	65	18	39799	-0.68042	0.75188	BHLHA15		
ENSG00000141030	17	17140141	17194607	185	16	52682	-0.68044	0.75189	COPS3		
ENSG00000174407	20	61137660	61177971	184	18	46440	-0.68064	0.75195	C20orf166		
ENSG00000269089	11	61725453	61746755	44	15	31303	-0.68108	0.75209	AP003733.1		
ENSG00000204160	1	27143201	27194093	83	12	49850	-0.6812	0.75213	ZDHHC18		
ENSG00000255833	5	134769908	134798089	104	18	35134	-0.68127	0.75215	TIFAB		
ENSG00000124151	20	46120601	46295621	448	33	45208	-0.68137	0.75218	NCOA3		
ENSG00000067113	5	54710682	54840878	380	19	32061	-0.68147	0.75221	PPAP2A		
ENSG00000205549	9	16193933	16286311	393	70	41020	-0.68154	0.75224	C9orf92		
ENSG00000143839	1	204113944	204145465	109	21	50863	-0.68209	0.75241	REN		
ENSG00000163611	3	113151565	113244034	421	31	49924	-0.68209	0.75241	SPICE1		
ENSG00000125510	20	62701526	62741996	118	23	51505	-0.68234	0.75249	OPRL1		
ENSG00000172322	12	10093915	10158293	373	34	48013	-0.68254	0.75255	CLEC12A		
ENSG00000205356	7	97833936	97891563	171	24	42312	-0.6826	0.75257	TECPR1		
ENSG00000187398	11	24508516	25114150	2900	176	43074	-0.68271	0.7526	LUZP2		
ENSG00000169826	10	43623934	43690756	188	19	44240	-0.68274	0.75261	CSGALNACT2		
ENSG00000144868	3	132747235	133126636	1328	96	52799	-0.68297	0.75269	TMEM108		
ENSG00000037241	5	172375732	172406774	147	23	34493	-0.68363	0.7529	RPL26L1		
ENSG00000170949	19	53559859	53616689	278	40	52610	-0.6839	0.75298	ZNF160		
ENSG00000000419	20	49541404	49585092	74	16	38909	-0.6841	0.75304	DPM1		
ENSG00000162782	1	179550748	179670407	442	32	52671	-0.68415	0.75306	TDRD5		
ENSG00000104824	19	39317028	39352987	95	13	36830	-0.68423	0.75308	HNRNP		
ENSG00000068078	4	1785034	1820599	81	27	40234	-0.68477	0.75325	FGFR3		
ENSG00000212997	8	95548771	95570630	113	14	40282	-0.68478	0.75326	AC023632.1		
ENSG00000134365	1	196809371	196898102	206	27	23326	-0.68495	0.75331	CFHR4		
ENSG00000117148	1	18071808	18163558	261	38	41028	-0.6854	0.75345	ACTL8		
ENSG00000256229	19	20268037	20321299	177	13	24267	-0.68578	0.75357	ZNF486		
ENSG00000157693	9	117363486	117418702	287	29	51244	-0.68598	0.75364	C9orf91		
ENSG00000104331	8	57860492	57916403	116	13	51912	-0.6863	0.75374	IMPAD1		

ENSG00000173915	10	105138798	105166223	34	9	39633	-0.68634	0.75375	USMG5		
ENSG00000126787	14	55604830	55668396	144	19	45853	-0.68637	0.75376	DLGAP5		
ENSG00000113327	5	161484546	161592542	230	42	53247	-0.68667	0.75385	GABRG2		
ENSG00000185621	3	197677071	197780591	333	29	45097	-0.6869	0.75393	LMLN		
ENSG00000102539	13	49784474	49806513	25	5	37823	-0.68718	0.75402	MLNR		
ENSG00000259164	14	77554654	77701805	603	79	45227	-0.68724	0.75404	RP11-463C8.4		
ENSG00000164627	6	39287766	39703181	1331	108	43449	-0.68728	0.75405	KIF6		
ENSG00000271043	5	79935819	79956855	132	6	55608	-0.68741	0.75409	MTRNR2L2		
ENSG00000166736	11	113835603	113871035	95	23	45612	-0.68764	0.75416	HTR3A		
ENSG00000171320	8	27619466	27680157	276	13	30838	-0.68785	0.75423	ESCO2		
ENSG00000140368	15	77275700	77339673	150	28	40631	-0.68785	0.75423	PSTPIP1		
ENSG00000235098	1	1343800	1367149	77	10	26913	-0.6881	0.7543	ANKRD65		
ENSG00000103540	16	19525133	19574730	183	20	41906	-0.68809	0.7543	CCP110		
ENSG00000158483	11	71488556	71522282	211	13	42912	-0.68856	0.75445	FAM86C1		
ENSG00000138185	10	97461536	97647023	620	39	45712	-0.68876	0.75451	ENTPD1		
ENSG00000105388	19	42202504	42243718	139	20	40582	-0.68889	0.75455	CEACAM5		
ENSG00000268953	19	31630362	31650757	56	14	45917	-0.6892	0.75465	AC020952.1		
ENSG00000204022	10	90336510	90376733	49	14	48788	-0.68935	0.7547	LIPJ		
ENSG00000105552	19	49288319	49324286	137	26	42447	-0.68939	0.75471	BCAT2		
ENSG00000108448	17	18591311	18649431	139	22	41039	-0.68956	0.75476	TRIM16L		
ENSG00000206530	3	112995777	113170457	700	47	50249	-0.68986	0.75486	WDR52		
ENSG00000163631	4	74252831	74297129	105	13	54608	-0.68997	0.75489	ALB		
ENSG00000188784	1	20236502	20260110	93	22	48127	-0.69017	0.75496	PLA2G2E		
ENSG00000167196	15	76186200	76237609	113	14	39940	-0.69033	0.75501	FBXO22		
ENSG00000159111	17	45890638	45918900	110	16	32226	-0.69049	0.75506	MRPL10		
ENSG00000182534	17	74658633	74717098	194	23	40784	-0.69071	0.75513	MXRA7		
ENSG00000177697	11	822843	849831	125	14	30175	-0.69079	0.75515	CD151		
ENSG00000134057	5	68452837	68484072	112	10	55075	-0.69088	0.75518	CCNB1		
ENSG00000120235	9	21339834	21361377	76	13	55011	-0.69155	0.75539	IFNA6		
ENSG00000076053	11	114260752	114294925	111	14	49955	-0.69155	0.75539	RBM7		
ENSG00000171763	15	45684529	45723617	62	10	31152	-0.69154	0.75539	SPATA5L1		
ENSG00000168172	8	42742075	42895682	354	28	49585	-0.69197	0.75552	HOOK3		
ENSG00000183979	17	79848621	79870781	20	12	50912	-0.69195	0.75552	NPB		
ENSG00000100764	14	90712839	90748968	155	8	49720	-0.69217	0.75559	PSMC1		
ENSG00000070010	22	19427433	19476738	134	23	42600	-0.69336	0.75596	UFD1L		
ENSG00000120437	6	160171360	160210144	141	17	46713	-0.69339	0.75597	ACAT2		

ENSG00000108468	17	46137414	46188883	181	16	51394	-0.69358	0.75603	<i>CBX1</i>		
ENSG00000167014	15	45238900	45281427	137	11	43756	-0.69408	0.75619	<i>C15orf43</i>		
ENSG00000198182	19	38177264	38220691	105	17	36541	-0.69434	0.75626	<i>ZNF607</i>		
ENSG00000165682	12	10128241	10176023	237	25	47254	-0.69475	0.75639	<i>CLEC1B</i>		
ENSG00000188659	15	82545151	82587271	97	18	43183	-0.69475	0.75639	<i>FAM154B</i>		
ENSG00000154274	4	37445563	37635117	853	117	43102	-0.69485	0.75643	<i>C4orf19</i>		
ENSG00000079557	4	74337400	74379691	128	17	42233	-0.69487	0.75643	<i>AFM</i>		
ENSG00000135317	6	86205214	86313874	203	27	36332	-0.69538	0.75659	<i>SNX14</i>		
ENSG00000114978	2	74369655	74416025	102	12	33076	-0.69581	0.75673	<i>MOB1A</i>		
ENSG00000149305	11	113765399	113827287	197	32	51503	-0.69591	0.75676	<i>HTR3B</i>		
ENSG00000152127	2	134867554	135222192	1094	144	36170	-0.69601	0.75679	<i>MGAT5</i>		
ENSG00000142408	19	54456294	54503469	162	34	48423	-0.69603	0.7568	<i>CACNG8</i>		
ENSG00000101224	20	3757578	3796762	148	25	41052	-0.6961	0.75682	<i>CDC25B</i>		
ENSG00000107562	10	44783038	44891941	466	71	45885	-0.69621	0.75685	<i>CXCL12</i>		
ENSG00000105492	19	52012779	52045110	198	23	55278	-0.69625	0.75686	<i>SIGLEC6</i>		
ENSG00000100731	14	71364122	71592099	703	48	47224	-0.69643	0.75692	<i>PCNX</i>		
ENSG00000136695	2	113806215	113832959	155	18	39178	-0.69654	0.75695	<i>IL36RN</i>		
ENSG00000148400	9	139378896	139450314	230	52	40120	-0.69681	0.75704	<i>NOTCH1</i>		
ENSG00000150165	10	47147983	47184093	4	2	45942	-0.69718	0.75715	<i>ANXA8L1</i>		
ENSG00000183475	15	101132739	101201910	221	45	43430	-0.69716	0.75715	<i>ASB7</i>		
ENSG00000133101	13	36995967	37027019	72	17	55976	-0.69745	0.75724	<i>CCNA1</i>		
ENSG00000110048	11	59331871	59393617	134	16	37580	-0.69756	0.75727	<i>OSBP</i>		
ENSG00000162174	11	62094920	62170882	249	22	47141	-0.69795	0.7574	<i>ASRGL1</i>		
ENSG00000106038	7	27272164	27300112	53	13	42165	-0.69844	0.75755	<i>EVX1</i>		
ENSG00000137094	9	34979638	35008897	45	14	43095	-0.69902	0.75773	<i>DNAJB5</i>		
ENSG00000125656	19	6351463	6378919	135	22	37173	-0.70016	0.75809	<i>CLPP</i>		
ENSG00000180264	9	127203423	127249379	114	19	41451	-0.70067	0.75824	<i>GPR144</i>		
ENSG00000109705	4	13532454	13556674	70	17	45022	-0.70132	0.75845	<i>NKX3-2</i>		
ENSG00000135686	16	84672131	84711292	180	32	44230	-0.70149	0.7585	<i>KLHL36</i>		
ENSG00000100985	20	44627547	44655200	99	17	44355	-0.70163	0.75855	<i>MMP9</i>		
ENSG00000196565	11	5264420	5677019	2583	166	42076	-0.70169	0.75856	<i>HBG2</i>		
ENSG00000073614	12	379295	508620	380	31	46236	-0.70176	0.75859	<i>KDM5A</i>		
ENSG00000184060	17	29223362	29296340	103	14	31663	-0.70184	0.75861	<i>ADAP2</i>		
ENSG00000104381	8	75223365	75411107	469	52	47073	-0.70187	0.75862	<i>GDAP1</i>		
ENSG00000119559	19	1451142	1489555	99	34	40804	-0.70195	0.75865	<i>C19orf25</i>		
ENSG00000163563	1	158791107	158829296	115	19	49939	-0.70218	0.75872	<i>MNDA</i>		

ENSG00000152254	2	169747750	169776505	74	18	45590	-0.70226	0.75874	G6PC2		
ENSG00000128567	7	131175021	131252976	230	56	48647	-0.70231	0.75876	PODXL		
ENSG00000204003	9	139622619	139652905	131	17	45020	-0.70246	0.7588	LCN6		
ENSG00000185507	11	602553	625999	104	15	41935	-0.70255	0.75883	IRF7		
ENSG00000128050	4	57291907	57337534	149	20	41921	-0.70295	0.75896	PAICS		
ENSG00000089063	20	5070486	5103749	76	11	27209	-0.70297	0.75896	TMEM230		
ENSG00000101210	20	62109366	62140505	171	29	32982	-0.7034	0.7591	EEF1A2		
ENSG00000256515	17	34512268	34534157	4	2	43471	-0.70345	0.75911	CCL3L3		
ENSG00000141441	18	29694840	30060447	1100	101	43065	-0.70371	0.75919	GAREM		
ENSG00000112599	6	42142139	42172654	118	9	33401	-0.704	0.75928	GUCA1B		
ENSG00000214595	2	54940636	55209157	976	131	46214	-0.70414	0.75933	EML6		
ENSG00000163812	3	44946749	45027677	134	14	33417	-0.70419	0.75934	ZDHHC3		
ENSG00000221880	17	39180142	39201107	96	12	37495	-0.70422	0.75935	KRTAP1-3		
ENSG00000105467	19	48857652	48889633	89	20	52935	-0.70457	0.75946	SYNGR4		
ENSG00000125633	2	118663054	118781709	449	35	55870	-0.7051	0.75963	CCDC93		
ENSG00000109534	4	110726666	110755893	82	13	35301	-0.70532	0.7597	GAR1		
ENSG00000244187	9	139675807	139697709	98	10	53008	-0.70562	0.75979	TMEM141		
ENSG00000068878	2	54081204	54207977	419	36	48045	-0.70599	0.7599	PSME4		
ENSG00000135697	16	81262053	81334747	262	37	43998	-0.70622	0.75997	BCMO1		
ENSG00000172007	4	140364386	140407763	120	16	52185	-0.70629	0.76	RAB33B		
ENSG00000145332	4	88071255	88171466	237	33	48409	-0.70638	0.76002	KLHL8		
ENSG00000154832	18	47798713	47824674	58	17	50898	-0.70664	0.7601	CXXC1		
ENSG00000177023	8	7317830	7342604	2	1	42813	-0.70667	0.76012	DEFB104B		
ENSG00000187082	8	7330026	7353922	2	1	42813	-0.70667	0.76012	DEFB106B		
ENSG00000187609	9	140191348	140327714	397	90	42758	-0.7069	0.76018	EXD3		
ENSG00000111639	12	6591150	6613007	110	8	36241	-0.70767	0.76043	MRPL51		
ENSG00000220891	22	22891750	22919007	127	11	32521	-0.70775	0.76045	LL22NC03-63E9.3		
ENSG00000198443	17	39330354	39351594	99	6	55222	-0.70783	0.76047	KRTAP4-1		
ENSG00000122884	10	74756975	74866732	216	8	21939	-0.70786	0.76048	P4HA1		
ENSG00000138685	4	123737863	123829391	400	55	36143	-0.70808	0.76055	FGF2		
ENSG00000075886	2	132223666	132250507	136	9	22436	-0.70813	0.76057	TUBA3D		
ENSG00000134644	1	31394353	31548838	350	30	35301	-0.70821	0.76059	PUM1		
ENSG00000158477	1	158213927	158238059	70	17	34969	-0.70822	0.7606	CD1A		
ENSG00000234560	11	123890297	123911341	71	15	41928	-0.70826	0.76061	OR10G8		
ENSG00000142539	19	50909056	50941666	83	27	42299	-0.70829	0.76062	CTD-2545M3.6		
ENSG00000175395	10	38228500	38275561	129	15	56806	-0.70838	0.76065	ZNF25		

ENSG00000268324	3	46588888	46611178	130	15	47443	-0.70867	0.76074	LUZPP1		
ENSG00000107290	9	135126743	135240372	405	32	28585	-0.70876	0.76076	SETX		
ENSG00000171766	15	45643322	45704525	131	8	26991	-0.70878	0.76077	GATM		
ENSG00000164713	7	97871691	97947162	232	20	34466	-0.70924	0.76091	BRI3		
ENSG00000101049	20	42177608	42226877	160	36	49756	-0.70923	0.76091	SGK2		
ENSG00000154945	17	48760551	48795285	73	15	51075	-0.70991	0.76112	ANKRD40		
ENSG00000256018	6	26261146	26281612	73	13	40373	-0.71033	0.76125	HIST1H3G		
ENSG00000225526	3	12546433	12612558	230	22	36252	-0.71082	0.7614	C3orf83		
ENSG00000163739	4	74725110	74746959	92	15	32934	-0.7108	0.7614	CXCL1		
ENSG00000130957	9	97311002	97366075	310	30	47465	-0.7111	0.76149	FBP2		
ENSG00000107736	10	73146691	73585702	1410	201	47073	-0.7116	0.76164	CDH23		
ENSG00000219607	6	5075720	5097455	67	16	36400	-0.71166	0.76166	PPP1R3G		
ENSG00000169605	2	69191705	69218106	85	14	29360	-0.7123	0.76186	GKN1		
ENSG00000144407	2	209214438	209729227	1762	124	41622	-0.7124	0.76189	PTH2R		
ENSG00000269210	2	39176764	39197483	48	13	44505	-0.71329	0.76217	AC019171.1		
ENSG00000136878	9	132586977	132654107	506	27	46603	-0.71428	0.76247	USP20		
ENSG00000135316	6	86308053	86363510	99	20	33711	-0.71471	0.76261	SYNCRIP		
ENSG00000165733	10	43268249	43340385	264	25	40107	-0.71484	0.76265	BMS1		
ENSG00000269215	5	39095358	39117350	55	11	51518	-0.71515	0.76274	AC008964.1		
ENSG00000176396	19	40018890	40040870	71	13	54599	-0.71526	0.76278	EID2		
ENSG00000182591	21	32242966	32263874	46	10	50274	-0.71531	0.76279	KRTAP11-1		
ENSG00000268133	19	57864934	57919952	148	24	47147	-0.71541	0.76282	AC003002.4		
ENSG00000102189	12	93154413	93333107	417	31	40973	-0.71548	0.76284	EEA1		
ENSG00000203618	22	19700468	19722294	25	11	44161	-0.71548	0.76284	GP1BB		
ENSG00000160014	19	47094331	47124050	96	23	41304	-0.71603	0.76301	CALM3		
ENSG00000133083	13	36335478	36715443	1311	156	43500	-0.71617	0.76306	DCLK1		
ENSG00000151651	10	135065907	135100372	132	16	46101	-0.71643	0.76314	ADAM8		
ENSG00000152240	18	43674298	43718299	157	17	36808	-0.71687	0.76327	HAUS1		
ENSG00000137265	6	381739	421447	143	30	41518	-0.71711	0.76335	IRF4		
ENSG00000108798	17	47277589	47310587	102	24	47489	-0.71723	0.76339	ABI3		
ENSG00000176055	5	89744020	89780585	68	14	52483	-0.71741	0.76344	MBLAC2		
ENSG00000257446	19	12144620	12177127	70	11	26040	-0.718	0.76362	ZNF878		
ENSG00000081923	18	55303658	55480333	606	94	47482	-0.71854	0.76379	ATP8B1		
ENSG00000163216	1	153002201	153024407	134	7	49165	-0.7187	0.76384	SPRR2D		
ENSG00000128652	2	176991340	177047830	139	20	39840	-0.71896	0.76392	HOXD3		
ENSG00000198203	2	108895095	108936371	126	30	48922	-0.71909	0.76396	SULT1C2		

ENSG00000198039	7	64320550	64401344	361	22	48721	-0.71918	0.76398	ZNF273		
ENSG00000157884	2	26794070	26874236	208	38	40138	-0.71941	0.76406	CIB4		
ENSG00000105379	19	51838423	51879672	140	25	36988	-0.71948	0.76408	ETFB		
ENSG00000188868	19	12418291	12454534	69	8	52849	-0.71978	0.76417	ZNF563		
ENSG00000146576	7	6619648	6658357	137	18	48258	-0.71988	0.7642	C7orf26		
ENSG00000268341	19	45832445	45852639	67	15	40008	-0.72008	0.76426	L47234.1		
ENSG00000188100	10	88770063	88794487	110	26	47350	-0.72014	0.76428	FAM25A		
ENSG00000062598	20	44984688	45071704	100	13	35749	-0.72012	0.76428	ELMO2		
ENSG00000140873	16	77271710	77479011	1188	95	45585	-0.72051	0.76439	ADAMTS18		
ENSG00000187950	12	29555407	29660619	460	47	43094	-0.72083	0.76449	OVCH1		
ENSG00000166323	11	108169246	108348258	404	24	49933	-0.72159	0.76473	C11orf65		
ENSG00000100592	14	59645364	59848123	688	61	48983	-0.72183	0.7648	DAAM1		
ENSG00000198743	21	35435870	35488559	74	21	51574	-0.72185	0.76481	SLC5A3		
ENSG00000272962	21	35435870	35488561	74	21	51574	-0.72185	0.76481	SLC5A3		
ENSG00000176659	20	58620980	58658008	78	21	41726	-0.72194	0.76483	C20orf197		
ENSG00000180592	10	21792407	21824611	32	11	50834	-0.72197	0.76484	SKIDA1		
ENSG00000128713	2	176958944	176984722	60	14	39764	-0.72203	0.76486	HOXD11		
ENSG00000125611	2	113331817	113356852	65	15	43954	-0.72227	0.76494	CHCHD5		
ENSG00000147813	8	144646955	144670819	112	19	44979	-0.72242	0.76498	NAPRT1		
ENSG00000119900	6	71988506	72028653	183	23	45142	-0.72266	0.76506	OGFRL1		
ENSG00000165078	8	68324360	68668620	969	119	41535	-0.72325	0.76524	CPA6		
ENSG00000267881	19	42202531	42275190	214	32	43649	-0.7233	0.76525	CEA		
ENSG00000225830	10	50653414	50757584	249	27	38963	-0.72386	0.76542	ERCC6		
ENSG00000227011	17	51052880	51075012	56	15	39764	-0.72399	0.76546	C17orf112		
ENSG00000232056	2	10977703	11005081	157	23	40343	-0.7243	0.76556	AC092687.4		
ENSG00000197417	17	3501556	3549616	196	32	32283	-0.72459	0.76565	SHPK		
ENSG00000228300	19	1265026	1289248	34	10	39740	-0.72468	0.76568	C19orf24		
ENSG00000180233	7	30313923	30462118	270	50	37628	-0.72527	0.76586	ZNRF2		
ENSG00000183560	11	94028759	94050887	76	21	40620	-0.72545	0.76591	FOLR4		
ENSG00000205476	14	99967603	100080363	452	40	39998	-0.72573	0.766	CCDC85C		
ENSG00000090565	16	465619	583011	331	40	41016	-0.72581	0.76602	RAB11FIP3		
ENSG00000097033	1	87160259	87223867	160	26	44459	-0.72587	0.76604	SH3GLB1		
ENSG00000166396	18	61410169	61482604	254	33	41515	-0.7259	0.76605	SERPINB7		
ENSG00000076984	19	7958728	7989363	99	22	43287	-0.7261	0.76611	MAP2K7		
ENSG00000156642	15	73842355	73936475	202	26	49920	-0.72645	0.76622	NPTN		
ENSG00000186732	22	43797202	43913728	481	81	39601	-0.72647	0.76622	MPPED1		

ENSG00000164609	5	159818648	159858718	113	20	51017	-0.72661	0.76627	SLU7		
ENSG00000170234	5	159478808	159556430	185	19	54452	-0.72709	0.76641	PWWP2A		
ENSG00000269766	11	35140091	35160215	83	14	30908	-0.72712	0.76642	AL356215.1		
ENSG00000188282	2	218889683	218965304	210	28	44050	-0.72737	0.7665	RUFY4		
ENSG00000176454	15	34641106	34669479	103	29	48283	-0.72766	0.76659	LPCAT4		
ENSG00000196267	19	52647117	52684896	117	28	44608	-0.72771	0.7666	ZNF836		
ENSG00000152404	11	107187071	107338572	662	49	48586	-0.728	0.76669	CWF19L2		
ENSG00000214042	9	21191468	21212204	150	16	49876	-0.7285	0.76685	IFNA7		
ENSG00000196600	11	62921248	63007124	298	22	44840	-0.72861	0.76688	SLC22A25		
ENSG00000123388	12	54356910	54381427	51	10	47045	-0.72882	0.76694	HOXC11		
ENSG00000070731	17	74549792	74593038	180	28	43877	-0.7288	0.76694	ST6GALNAC2		
ENSG00000197860	5	64951755	65028862	187	23	54523	-0.72938	0.76711	SGTB		
ENSG00000136155	13	78099809	78229398	348	44	41865	-0.72983	0.76725	SCEL		
ENSG00000204713	6	28860779	28901766	179	27	41001	-0.73124	0.76768	TRIM27		
ENSG00000148450	10	23374435	23420942	102	20	48671	-0.73151	0.76777	MSRB2		
ENSG00000206105	21	31982946	32003169	34	5	53467	-0.73152	0.76777	KRTAP20-4		
ENSG00000039537	5	41132336	41271540	486	56	49356	-0.73161	0.7678	C6		
ENSG00000095787	10	28811422	28922041	267	24	51492	-0.73165	0.76781	WAC		
ENSG00000180423	11	46614411	46649459	29	7	50421	-0.73173	0.76783	HARBI1		
ENSG00000148677	10	92661853	92691033	89	29	47620	-0.73177	0.76784	ANKRD1		
ENSG00000169139	8	48910960	48987268	61	26	47536	-0.73178	0.76785	UBE2V2		
ENSG00000066405	3	137707577	137762494	126	19	43594	-0.73181	0.76786	CLDN18		
ENSG00000182793	6	52686453	52720893	107	12	45278	-0.73192	0.76789	GSTA5		
ENSG00000123552	6	99870190	99979604	337	30	36470	-0.7323	0.76801	USP45		
ENSG00000075275	22	46746731	46943067	907	126	43474	-0.73233	0.76802	CELSR1		
ENSG00000144410	2	207794278	207844198	141	24	46177	-0.73315	0.76827	CPO		
ENSG00000184148	1	152933142	152955050	36	9	47925	-0.73342	0.76835	SPRR4		
ENSG00000021488	19	33311415	33370672	290	34	48034	-0.73354	0.76838	SLC7A9		
ENSG00000204007	9	138505502	138541386	172	36	50124	-0.73354	0.76839	GLT6D1		
ENSG00000111701	12	7791996	7828499	169	27	48526	-0.73378	0.76846	APOBEC1		
ENSG00000141034	17	17932606	17981718	74	10	30234	-0.73384	0.76848	GID4		
ENSG00000101115	20	50390581	50429059	189	33	49054	-0.73402	0.76853	SALL4		
ENSG00000111678	12	7042141	7065166	40	18	42153	-0.73418	0.76858	C12orf57		
ENSG00000187733	1	104283028	104311312	19	7	54399	-0.73534	0.76893	AMY1C		
ENSG00000115488	2	233887382	233909767	76	20	45286	-0.73579	0.76907	NEU2		
ENSG00000177551	1	116368998	116396538	106	15	45784	-0.73593	0.76911	NHLH2		

ENSG00000166984	6	167549902	167620401	284	49	50820	-0.73623	0.7692	TCP10L2		
ENSG00000204775	8	145307003	145341153	4	2	41946	-0.73622	0.7692	KM-PA-2		
ENSG00000187786	8	145311517	145333045	4	2	41946	-0.73622	0.7692	SCXB		
ENSG00000162819	1	222875895	222918538	76	17	45290	-0.73627	0.76922	BROX		
ENSG00000100280	22	29713669	29829168	309	46	39509	-0.73629	0.76922	AP1B1		
ENSG00000138698	4	99172535	99375012	529	29	33524	-0.73672	0.76935	RAP1GDS1		
ENSG00000256060	19	57864879	57886721	68	14	49177	-0.73686	0.7694	TRAPPC2P1		
ENSG00000116791	1	75161170	75209092	137	26	45484	-0.73709	0.76947	CRYZ		
ENSG00000158488	1	158313254	158337343	67	15	39390	-0.73728	0.76952	CD1E		
ENSG00000170776	15	85913802	86302586	1513	81	39416	-0.7375	0.76959	AKAP13		
ENSG00000187626	6	28202401	28237011	80	14	44511	-0.73769	0.76965	ZKSCAN4		
ENSG00000117419	1	44676742	44830932	253	30	47858	-0.73793	0.76972	ERI3		
ENSG00000176200	11	59261049	59281984	47	8	53833	-0.7387	0.76996	OR4D11		
ENSG00000128218	22	24084930	24106655	74	17	43943	-0.73874	0.76997	VPREB3		
ENSG00000204612	9	79624571	79645869	72	21	46995	-0.73878	0.76998	FOXB2		
ENSG00000026751	1	160699037	160734611	74	15	45104	-0.73948	0.77019	SLAMF7		
ENSG00000102970	16	57428679	57459974	137	27	45313	-0.73977	0.77028	CCL17		
ENSG00000149488	20	2507253	2632430	587	58	49203	-0.73988	0.77031	TMC2		
ENSG00000005100	17	5334232	5382380	153	34	40729	-0.74031	0.77044	DHX33		
ENSG00000131910	1	27227980	27250457	50	10	54875	-0.74057	0.77052	NR0B2		
ENSG00000143756	1	224291789	224359749	198	17	48598	-0.74077	0.77058	FBXO28		
ENSG00000077463	19	4164106	4192601	83	15	42282	-0.74103	0.77066	SIRT6		
ENSG00000159173	1	201363625	201408994	114	35	41316	-0.74114	0.7707	TNNI1		
ENSG00000075043	20	62027542	62113993	356	56	39766	-0.74126	0.77073	KCNQ2		
ENSG00000136875	9	116027623	116065185	125	19	42075	-0.74132	0.77075	PRPF4		
ENSG00000107447	10	98054085	98108321	146	15	45563	-0.74136	0.77076	DNTT		
ENSG00000239998	19	55074387	55109027	198	21	40891	-0.74157	0.77083	LILRA2		
ENSG00000143819	1	225987794	226043260	251	52	47508	-0.7417	0.77086	EPHX1		
ENSG00000196136	14	95068714	95100392	110	33	46961	-0.74239	0.77108	SERPINA3		
ENSG00000110680	11	14978214	15003900	45	6	50740	-0.74268	0.77116	CALCA		
ENSG00000178397	7	6359040	6398612	172	34	40111	-0.74285	0.77121	FAM220A		
ENSG00000076944	19	7691767	7722759	102	16	51563	-0.74285	0.77121	STXBP2		
ENSG00000138030	2	27299615	27333640	44	9	47369	-0.74285	0.77122	KHK		
ENSG00000125780	20	2266647	2331724	136	38	47665	-0.74321	0.77132	TGM3		
ENSG00000112305	6	71367479	71581718	536	37	52700	-0.74324	0.77133	SMAP1		
ENSG00000163687	3	58167984	58210424	164	26	48499	-0.74337	0.77137	DNASE1L3		

ENSG00000136897	9	104139915	104170896	92	21	48801	-0.74338	0.77137	MRPL50		
ENSG00000090920	19	40343963	40450533	289	53	46187	-0.74341	0.77138	FCGBP		
ENSG00000050165	11	11974653	12041316	254	64	45426	-0.74342	0.77139	DKK3		
ENSG00000104635	8	22214762	22301642	327	31	38166	-0.74398	0.77156	SLC39A14		
ENSG00000153044	5	68475375	68516184	120	11	54748	-0.74412	0.7716	CENPH		
ENSG00000163412	3	71714567	71813924	325	52	45308	-0.74454	0.77173	EIF4E3		
ENSG00000004799	7	95202811	95235803	126	15	35236	-0.74456	0.77173	PDK4		
ENSG00000072042	14	68133518	68172531	101	17	38036	-0.74455	0.77173	RDH11		
ENSG00000100427	22	50487820	50534331	269	23	51743	-0.74461	0.77175	MLC1		
ENSG00000127863	13	24134509	24260232	473	64	51477	-0.7447	0.77177	TNFRSF19		
ENSG00000027001	13	24294328	24473558	575	50	46570	-0.74496	0.77185	MIPEP		
ENSG00000155096	8	103828585	103916092	266	23	54474	-0.74499	0.77186	AZIN1		
ENSG00000124467	19	43246838	43369843	605	53	26539	-0.74506	0.77188	PSG8		
ENSG00000177600	11	799647	822880	64	14	41994	-0.74525	0.77194	RPLP2		
ENSG00000213614	15	72625775	72678817	83	18	43929	-0.74528	0.77195	HEXA		
ENSG00000101474	20	24933561	24983615	201	16	54110	-0.74538	0.77198	APMAP		
ENSG00000186765	17	79485422	79514156	116	30	43050	-0.74586	0.77212	FSCN2		
ENSG00000198105	10	38081751	38157034	309	17	56138	-0.74641	0.77229	ZNF248		
ENSG00000164010	1	43272795	43320660	96	21	52438	-0.74648	0.77231	ERMAP		
ENSG00000182968	13	112711913	112736020	35	13	37036	-0.7469	0.77244	SOX1		
ENSG00000141622	18	43896772	44053103	420	82	48320	-0.74771	0.77268	RNF165		
ENSG00000196526	4	7750441	7951653	1088	69	40578	-0.748	0.77277	AFAP1		
ENSG00000168530	2	211144874	211189914	117	13	53765	-0.74803	0.77278	MYL1		
ENSG00000002919	17	46170719	46210436	146	14	50357	-0.74856	0.77294	SNX11		
ENSG00000128346	22	38329528	38359676	40	10	43212	-0.74866	0.77297	C22orf23		
ENSG00000186106	8	101511980	101582012	190	31	47739	-0.74875	0.773	ANKRD46		
ENSG00000121413	19	58585205	58639794	253	21	34345	-0.74902	0.77308	ZSCAN18		
ENSG00000083812	19	58968423	58994945	46	12	47311	-0.74904	0.77308	ZNF324		
ENSG00000166747	16	71752913	71853104	268	26	44018	-0.74941	0.77319	AP1G1		
ENSG00000131981	14	55580828	55622126	108	14	47597	-0.74942	0.7732	LGALS3		
ENSG00000082068	5	37369314	37763537	967	59	41389	-0.74959	0.77325	WDR70		
ENSG00000269404	19	50912195	50944570	88	27	44075	-0.75036	0.77348	SPIB		
ENSG00000148985	11	3808954	3857601	172	27	46263	-0.75041	0.7735	PGAP2		
ENSG00000186838	19	39995753	40021326	70	21	51660	-0.75088	0.77364	SELV		
ENSG00000171502	1	86184916	86632626	1842	136	47823	-0.75138	0.77379	COL24A1		
ENSG00000099834	11	606565	636078	124	17	42091	-0.75218	0.77403	CDHR5		

ENSG00000163444	1	202966514	203003976	86	19	44600	-0.7527	0.77418	TMEM183A		
ENSG00000163285	4	46027786	46136098	382	27	39936	-0.7529	0.77424	GABRG1		
ENSG00000258838	10	50713247	50757584	119	18	36503	-0.75304	0.77429	ERCC6-PGBD3		
ENSG00000170419	7	54600018	54648773	181	25	40552	-0.75346	0.77441	VSTM2A		
ENSG00000164136	4	142547752	142665140	270	29	53398	-0.75367	0.77448	IL15		
ENSG00000169474	1	152946557	152968289	77	5	53088	-0.75386	0.77453	SPRR1A		
ENSG00000123268	12	51147493	51224905	156	18	45255	-0.75392	0.77455	ATF1		
ENSG00000171314	10	99175917	99203198	56	14	46879	-0.75396	0.77456	PGAM1		
ENSG00000183137	6	109406313	109495135	134	16	51588	-0.75432	0.77467	CEP57L1		
ENSG00000211445	5	150390124	150418554	88	19	32000	-0.75439	0.77469	GPX3		
ENSG00000144597	3	15458862	15494120	101	20	37644	-0.75442	0.7747	EAF1		
ENSG00000173406	1	57450451	59022406	5110	378	44889	-0.75446	0.77471	DAB1		
ENSG00000115163	2	26977157	27033935	121	15	44324	-0.75466	0.77477	CENPA		
ENSG00000115904	2	39198537	39361486	365	23	41406	-0.75465	0.77477	SOS1		
ENSG00000244537	17	39323698	39344460	113	6	55100	-0.75464	0.77477	KRTAP4-2		
ENSG00000188878	17	73895655	73947221	107	18	38157	-0.75486	0.77483	FBF1		
ENSG00000054690	14	67990018	68066329	248	48	46310	-0.755	0.77488	PLEKHH1		
ENSG00000162006	16	809428	843370	178	34	37084	-0.75587	0.77514	MSLN1		
ENSG00000111790	12	27081316	27129583	144	33	52028	-0.75598	0.77517	FGFR1OP2		
ENSG00000268552	1	28167085	28187255	14	7	34180	-0.75616	0.77522	AL109927.1		
ENSG00000214189	19	12193078	12258050	129	21	38979	-0.75615	0.77522	ZNF788		
ENSG00000270181	13	103449704	103534748	244	31	47947	-0.75635	0.77528	BIVM-ERCC5		
ENSG00000179058	9	132364504	132393055	106	20	45316	-0.75639	0.77529	C9orf50		
ENSG00000244624	21	31978750	31999003	41	6	53735	-0.75647	0.77532	KRTAP20-1		
ENSG00000197265	8	30425835	30525768	246	26	55076	-0.75659	0.77535	GTF2E2		
ENSG00000104998	19	14132560	14173743	118	23	36120	-0.75666	0.77537	IL27RA		
ENSG00000177595	11	789179	819753	75	17	44242	-0.75681	0.77542	PIDD		
ENSG00000178750	3	93723213	93757454	35	13	44798	-0.75693	0.77545	STX19		
ENSG00000265096	17	77005291	77033737	56	16	42045	-0.75694	0.77546	C1QTNF1-AS1		
ENSG00000164414	6	88170341	88232054	222	25	54312	-0.75792	0.77575	SLC35A1		
ENSG00000258792	14	90085265	90119015	112	14	50082	-0.7582	0.77584	RP11-944C7.1		
ENSG00000152433	19	57864845	57900933	108	20	46334	-0.7583	0.77586	ZNF547		
ENSG00000235268	11	94748422	94770760	69	15	41824	-0.75858	0.77595	KDM4E		
ENSG00000248469	5	175466681	175499024	12	7	41670	-0.75914	0.77612	RP11-826N14.2		
ENSG00000049541	7	73635829	73678774	73	16	44917	-0.75922	0.77614	RFC2		
ENSG00000186265	3	112172815	112228408	99	17	28477	-0.75944	0.77621	BTLA		

ENSG00000181031	17	52293	246045	894	193	42837	-0.75948	0.77622	RPH3AL		
ENSG00000176641	18	59465296	59571480	450	52	52266	-0.75956	0.77624	RNF152		
ENSG00000173431	14	21515981	21536614	59	17	45854	-0.76009	0.7764	RNASE8		
ENSG00000075234	22	46653858	46699905	175	15	29453	-0.7603	0.77646	TTC38		
ENSG00000232196	16	3411053	3432283	93	10	54512	-0.76101	0.77667	MTRNR2L4		
ENSG00000143845	1	204090190	204131307	121	36	47401	-0.76103	0.77668	ETNK2		
ENSG00000151849	13	25447171	25507018	219	29	52421	-0.76117	0.77672	CENPJ		
ENSG00000184724	21	31975750	31996249	38	5	54600	-0.76123	0.77674	KRTAP6-1		
ENSG00000134107	3	5010801	5037008	88	18	47500	-0.76137	0.77678	BHLHE40		
ENSG00000161896	6	33679444	33724762	211	27	41190	-0.76147	0.77681	IP6K3		
ENSG00000213901	2	219930051	220045549	227	20	37843	-0.76159	0.77685	SLC23A3		
ENSG00000243251	10	50713151	50757086	118	18	36702	-0.76173	0.77689	PGBD3		
ENSG00000141574	17	80268900	80301950	127	17	51499	-0.76191	0.77694	SECTM1		
ENSG00000101104	20	43528703	43597676	140	25	51153	-0.76199	0.77697	PABPC1L		
ENSG00000008294	17	49029535	49208226	276	29	44262	-0.76218	0.77702	SPAG9		
ENSG00000214518	17	39200750	39221482	99	13	28452	-0.7623	0.77706	KRTAP2-2		
ENSG00000076043	11	114300108	114331001	111	20	45484	-0.76254	0.77713	REXO2		
ENSG00000009790	1	209919377	209965668	122	15	38817	-0.76288	0.77723	TRAF3IP3		
ENSG00000068120	17	40703485	40728295	60	9	54383	-0.76296	0.77725	COASY		
ENSG00000077984	20	24919866	24950564	192	14	54361	-0.76294	0.77725	CST7		
ENSG00000188257	1	20291925	20316932	93	22	48864	-0.76314	0.77731	PLA2G2A		
ENSG00000152578	11	105470721	105862819	926	85	50685	-0.7632	0.77733	GRIA4		
ENSG00000070718	8	42000464	42039191	70	11	51798	-0.76334	0.77737	AP3M2		
ENSG00000112319	6	133551736	133863258	984	107	41377	-0.76338	0.77738	EYA4		
ENSG00000198198	1	43845553	43928321	133	15	37131	-0.76362	0.77745	SZT2		
ENSG00000198551	19	11660189	11739950	265	33	48933	-0.76369	0.77747	ZNF627		
ENSG00000158683	7	47804250	47998088	812	82	44357	-0.76375	0.77749	PKD1L1		
ENSG00000268926	9	98524605	98547013	77	18	41604	-0.76382	0.77751	DKFZP434H0512		
ENSG00000110888	12	30852486	30917885	200	21	54169	-0.76387	0.77753	CAPRIN2		
ENSG00000181085	8	144788429	144814628	81	17	34145	-0.76439	0.77768	MAPK15		
ENSG00000156282	21	31528241	31548971	82	10	37047	-0.7644	0.77769	CLDN17		
ENSG00000162367	1	47671962	47707892	101	13	37237	-0.76474	0.77779	TAL1		
ENSG00000196814	9	129079128	129279320	589	60	50330	-0.76496	0.77785	MVB12B		
ENSG00000185046	12	99110235	100388432	3476	280	44537	-0.76505	0.77788	ANKS1B		
ENSG00000185818	4	2051239	2080816	47	9	32042	-0.76514	0.77791	NAT8L		
ENSG00000104219	8	17003538	17092308	263	47	39983	-0.76518	0.77792	ZDHHC2		

ENSG00000116667	1	184346192	184608154	730	77	46443	-0.76521	0.77793	<i>C1orf21</i>		
ENSG00000168522	8	42879337	42950931	140	23	47519	-0.76522	0.77793	<i>FNTA</i>		
ENSG00000167346	11	4716157	5023659	1418	93	44454	-0.76537	0.77797	<i>MMP26</i>		
ENSG00000213922	19	39920212	39942082	73	9	44740	-0.76579	0.7781	<i>AC011500.1</i>		
ENSG00000165828	10	135150650	135176187	115	11	27267	-0.76583	0.77811	<i>PRAP1</i>		
ENSG00000124253	20	56126136	56151513	121	29	49333	-0.76589	0.77813	<i>PCK1</i>		
ENSG00000100802	14	23446110	23489375	67	18	49883	-0.76596	0.77815	<i>C14orf93</i>		
ENSG00000111799	6	75784042	75925767	229	44	34760	-0.76618	0.77822	<i>COL12A1</i>		
ENSG00000153253	2	165934032	166070577	321	33	41333	-0.76623	0.77823	<i>SCN3A</i>		
ENSG00000034053	15	29119629	29420518	498	76	31027	-0.76685	0.77841	<i>APBA2</i>		
ENSG00000135148	12	112553305	112601407	47	12	40947	-0.76717	0.77851	<i>TRAFD1</i>		
ENSG00000127463	1	19532158	19588046	201	27	50092	-0.76735	0.77856	<i>EMC1</i>		
ENSG00000092009	14	24964559	24987471	96	17	44366	-0.76734	0.77856	<i>CMA1</i>		
ENSG00000100842	14	23815611	23844961	77	15	39585	-0.76752	0.77861	<i>EFS</i>		
ENSG00000241258	7	65569591	65629555	181	17	44142	-0.76807	0.77878	<i>CRCP</i>		
ENSG00000126456	19	50152826	50179132	40	10	38923	-0.76843	0.77888	<i>IRF3</i>		
ENSG00000189167	13	32867837	32899481	119	16	53707	-0.76882	0.779	<i>ZAR1L</i>		
ENSG00000165076	7	141526086	141551287	97	8	56672	-0.76905	0.77907	<i>PRSS37</i>		
ENSG00000163964	3	196356646	196472878	448	92	48288	-0.76956	0.77922	<i>PIGX</i>		
ENSG00000166426	15	78622666	78650572	77	24	45129	-0.76959	0.77923	<i>CRABP1</i>		
ENSG00000176256	1	34316076	34340392	48	14	43715	-0.7699	0.77932	<i>HMGB4</i>		
ENSG00000185019	20	3078219	3150842	184	32	40603	-0.77006	0.77937	<i>UBOX5</i>		
ENSG00000258429	16	69352524	69374498	59	12	54160	-0.77035	0.77945	<i>PDF</i>		
ENSG00000141255	17	3333313	3427146	383	40	37574	-0.77055	0.77951	<i>SPATA22</i>		
ENSG00000169251	3	160812484	160981320	445	43	46365	-0.77065	0.77954	<i>NMD3</i>		
ENSG00000113593	5	64849063	64893376	160	12	50555	-0.77071	0.77956	<i>PPWD1</i>		
ENSG00000153820	2	228834666	229056361	867	57	54623	-0.77142	0.77977	<i>SPHKAP</i>		
ENSG00000131686	1	8995926	9045151	191	54	43442	-0.7718	0.77988	<i>CA6</i>		
ENSG00000169429	4	74596223	74619433	53	8	47856	-0.77198	0.77994	<i>IL8</i>		
ENSG00000198062	22	16246441	16297937	5	3	42713	-0.77226	0.78002	<i>POTEH</i>		
ENSG00000126259	19	36336763	36368011	58	10	31437	-0.77246	0.78008	<i>KIRREL2</i>		
ENSG00000183779	8	37543269	37567537	14	8	54151	-0.77281	0.78018	<i>ZNF703</i>		
ENSG00000141580	17	80562438	80616429	241	40	49911	-0.77312	0.78028	<i>WDR45B</i>		
ENSG00000160856	1	157634111	157680647	127	18	45503	-0.77318	0.78029	<i>FCRL3</i>		
ENSG00000184155	1	159494793	159515842	70	12	36934	-0.7732	0.7803	<i>OR10J5</i>		
ENSG00000184040	10	18031218	18099855	3	2	43742	-0.77334	0.78034	<i>TMEM236</i>		

ENSG00000128596	7	128420811	128472186	132	15	49216	-0.7736	0.78042	CCDC136		
ENSG00000180438	3	13968756	14134311	414	29	53470	-0.77383	0.78049	TPRXL		
ENSG00000104237	8	55518627	55553394	85	15	43487	-0.77412	0.78057	RP1		
ENSG00000125816	20	21366005	21388666	55	15	53228	-0.77432	0.78063	NKX2-4		
ENSG00000115486	2	85761846	85798670	129	18	47465	-0.77443	0.78066	GGCX		
ENSG00000164430	6	74113238	74171999	136	38	48924	-0.77445	0.78067	MB21D1		
ENSG00000133302	5	93944052	94085141	446	31	51676	-0.77451	0.78069	ANKRD32		
ENSG00000100417	22	41962898	41995894	56	9	36323	-0.77452	0.78069	PMM1		
ENSG00000175899	12	9210260	9278825	188	14	41811	-0.77469	0.78074	A2M		
ENSG00000161618	19	49946426	49984305	129	17	29079	-0.77495	0.78081	ALDH16A1		
ENSG00000214414	11	89433467	89461040	79	6	53451	-0.77502	0.78084	TRIM77		
ENSG00000118231	2	208976331	208999225	117	20	47009	-0.77516	0.78088	CRYGD		
ENSG00000197405	19	47783280	47835323	199	20	40444	-0.77546	0.78097	C5AR1		
ENSG00000214575	15	83201951	83327612	333	33	44456	-0.7758	0.78107	CPEB1		
ENSG00000170242	11	11852970	11990870	323	33	48786	-0.77597	0.78112	USP47		
ENSG00000067064	10	1075848	1105110	94	20	49178	-0.77604	0.78114	IDI1		
ENSG00000109475	4	109531722	109561568	88	10	54317	-0.7769	0.78139	RPL34		
ENSG00000175324	8	38010839	38044248	63	10	45274	-0.77695	0.7814	LSM1		
ENSG00000143624	1	153690543	153756555	125	21	38681	-0.77708	0.78144	INTS3		
ENSG00000141642	18	48484361	48524491	57	10	45651	-0.77719	0.78148	ELAC1		
ENSG00000257062	12	21190113	21339829	578	45	30947	-0.7779	0.78169	RP11-125O5.2		
ENSG00000114779	3	51992526	52027425	43	15	34452	-0.77859	0.78189	ABHD14B		
ENSG00000214694	2	39107021	39212590	204	33	41722	-0.77896	0.782	ARHGEF33		
ENSG00000204256	6	32926437	32959282	259	38	48389	-0.77973	0.78223	BRD2		
ENSG00000185052	20	19183290	19713581	1701	183	44203	-0.78029	0.78239	SLC24A3		
ENSG00000105650	19	18308771	18376229	223	29	44855	-0.7804	0.78242	PDE4C		
ENSG00000196290	2	201744050	201778655	51	10	46839	-0.78057	0.78247	NIF3L1		
ENSG00000232838	20	18108517	18133813	102	23	48286	-0.78107	0.78262	PET117		
ENSG00000185739	16	4229375	4302081	295	52	43365	-0.78109	0.78263	SRL		
ENSG00000115685	2	242078991	242133067	185	27	42727	-0.78117	0.78265	PPP1R7		
ENSG00000132953	13	21341469	21487187	348	31	32015	-0.78197	0.78288	XPO4		
ENSG00000157326	14	24412795	24448488	167	9	20433	-0.78214	0.78293	DHRS4		
ENSG00000187272	17	39384297	39405256	103	7	44509	-0.78231	0.78298	KRTAP9-8		
ENSG00000141646	18	48484410	48621415	171	19	52161	-0.78271	0.7831	SMAD4		
ENSG00000079435	19	42895659	42941578	37	14	39649	-0.7828	0.78313	LIPE		
ENSG00000106615	7	151153098	151227206	158	23	46755	-0.7829	0.78316	RHEB		

ENSG00000104888	19	49922658	49955617	70	13	34587	-0.78359	0.78336	SLC17A7		
ENSG00000184058	22	19734226	19781116	151	27	47344	-0.78413	0.78352	TBX1		
ENSG00000101782	18	21022787	21076567	170	24	37763	-0.78458	0.78365	RIOK3		
ENSG00000167862	17	72998765	73027356	127	20	37674	-0.78471	0.78369	ICT1		
ENSG00000189375	17	18528319	18575263	82	21	38191	-0.7848	0.78371	TBC1D28		
ENSG00000197905	12	3058496	3159839	350	51	34027	-0.78549	0.78392	TEAD4		
ENSG00000153666	15	23245242	23278823	30	13	42897	-0.78555	0.78393	GOLGA8I		
ENSG00000183018	17	4392133	4452330	181	48	44949	-0.78566	0.78397	SPNS2		
ENSG00000184208	22	42074943	42104140	58	7	40074	-0.78623	0.78413	C22orf46		
ENSG00000109927	11	120961882	121072202	341	30	35135	-0.78628	0.78415	TECTA		
ENSG00000196418	1	247275277	247345318	305	36	40620	-0.78653	0.78422	ZNF124		
ENSG00000184344	12	7832378	7858372	144	31	50253	-0.78699	0.78436	GDF3		
ENSG00000196754	1	153523584	153550366	51	13	34812	-0.78715	0.7844	S100A2		
ENSG00000122008	5	74797581	74906969	188	24	49407	-0.78714	0.7844	POLK		
ENSG00000172315	20	45303004	45328418	67	15	41467	-0.78714	0.7844	TP53RK		
ENSG00000107968	10	30712866	30760762	100	17	34982	-0.78749	0.7845	MAP3K8		
ENSG00000162676	1	92930319	92962433	60	10	27659	-0.78768	0.78456	GFI1		
ENSG00000214013	15	42555431	42655864	318	18	33095	-0.78781	0.78459	GANC		
ENSG00000003402	2	201970827	202051410	215	25	50731	-0.78781	0.7846	CFLAR		
ENSG00000188000	19	9286279	9309493	99	14	36849	-0.78785	0.78461	OR7D2		
ENSG00000102878	16	67187288	67213848	22	10	44775	-0.78832	0.78474	HSF4		
ENSG00000182108	16	11012748	11046317	97	26	44324	-0.78839	0.78477	DEXI		
ENSG00000196131	19	53751545	53775090	118	16	48273	-0.78858	0.78482	VN1R2		
ENSG00000169327	14	21613026	21634222	101	24	51535	-0.78862	0.78483	OR5AU1		
ENSG00000161381	17	37209556	37320647	457	62	52756	-0.78865	0.78484	PLXDC1		
ENSG00000103148	16	124273	198859	205	35	36785	-0.78877	0.78488	NPRL3		
ENSG00000047056	10	1085478	1188237	334	47	46591	-0.78889	0.78491	WDR37		
ENSG00000259517	16	54269456	54314658	197	18	46738	-0.78916	0.78499	RP11-324D17.1		
ENSG00000115310	2	55189325	55349757	551	59	42124	-0.78922	0.78501	RTN4		
ENSG00000241935	10	99334080	99382559	123	31	43513	-0.78925	0.78502	HOGA1		
ENSG00000254004	19	36991597	37029562	115	15	50462	-0.79011	0.78527	ZNF260		
ENSG00000198178	12	7872011	7914201	211	27	48000	-0.79059	0.78541	CLEC4C		
ENSG00000156804	8	124500129	124563446	186	48	46610	-0.79109	0.78555	FBXO32		
ENSG00000106066	7	29024847	29245067	840	122	45879	-0.79151	0.78568	CPVL		
ENSG00000110651	11	2387407	2428649	92	25	37703	-0.79154	0.78569	CD81		
ENSG00000178404	17	76856992	76909299	256	36	42638	-0.79158	0.7857	DDC8		

ENSG00000197079	17	39622941	39647392	135	11	56669	-0.79179	0.78576	KRT35		
ENSG00000090447	16	4297187	4333076	79	13	52133	-0.79273	0.78603	TFAP4		
ENSG00000123999	2	220423884	220450435	78	20	48036	-0.79306	0.78613	INHA		
ENSG00000130540	22	44210389	44268398	226	23	54751	-0.79312	0.78615	SULT4A1		
ENSG00000169484	14	20472419	20493352	110	17	40759	-0.79316	0.78616	OR4K14		
ENSG00000172380	1	68157149	68309150	411	51	49231	-0.79331	0.7862	GNG12		
ENSG00000176887	2	5822799	5851516	72	17	49683	-0.79386	0.78636	SOX11		
ENSG00000171804	19	38365463	38407317	82	19	37326	-0.79387	0.78637	WDR87		
ENSG00000152413	5	78658459	78820040	372	46	37362	-0.7942	0.78646	HOMER1		
ENSG00000178860	8	72743784	72766703	69	13	37707	-0.79419	0.78646	MSC		
ENSG00000111450	12	131264145	131333811	317	24	43234	-0.79442	0.78652	STX2		
ENSG00000157119	3	42717011	42744036	61	21	46526	-0.79482	0.78664	KLHL40		
ENSG00000127377	7	151115921	151147899	114	23	34124	-0.79539	0.78681	CRYGN		
ENSG00000150753	5	10240033	10276524	190	13	23506	-0.79551	0.78684	CCT5		
ENSG00000188060	1	28908712	28931955	33	13	48624	-0.79601	0.78699	RAB42		
ENSG00000184949	22	38964125	39062634	271	18	46599	-0.79612	0.78702	FAM227A		
ENSG00000065970	12	8175299	8218099	76	21	41308	-0.7965	0.78713	FOXJ2		
ENSG00000205864	11	1708425	1728985	110	19	45521	-0.79659	0.78716	KRTAP5-6		
ENSG00000160207	21	44939072	45089374	317	21	46047	-0.79669	0.78718	HSF2BP		
ENSG00000150687	11	86492101	86673952	723	96	45904	-0.79719	0.78733	PRSS23		
ENSG00000236981	11	123883720	123904655	71	14	45582	-0.79728	0.78736	OR10G9		
ENSG00000158234	3	138317448	138362218	66	9	42724	-0.79758	0.78744	FAIM		
ENSG00000197123	7	63678852	63737309	274	30	46804	-0.79766	0.78747	ZNF679		
ENSG00000156261	21	30418126	30456118	72	17	44112	-0.79781	0.78751	CCT8		
ENSG00000142949	1	43980858	44099343	323	30	41401	-0.79789	0.78753	PTPRF		
ENSG00000153789	16	85121965	85156114	211	46	49363	-0.79804	0.78758	FAM92B		
ENSG00000113240	5	178019665	178067616	117	16	31007	-0.79812	0.7876	CLK4		
ENSG00000126838	12	9291436	9370966	215	31	51753	-0.79827	0.78764	PZP		
ENSG00000118276	18	29192210	29275799	178	30	45544	-0.79864	0.78775	B4GALT6		
ENSG00000204278	17	76217391	76247068	146	30	54106	-0.79906	0.78787	TMEM235		
ENSG00000268538	22	30804212	30824469	49	12	42111	-0.7995	0.788	KIAA1658		
ENSG00000172568	5	156758608	156782729	91	8	30660	-0.79988	0.78811	FNDCC9		
ENSG00000188280	22	20682438	20726938	41	17	40774	-0.80077	0.78837	FAM230A		
ENSG00000123933	4	2239159	2274021	95	16	33186	-0.80086	0.78839	MXD4		
ENSG00000091704	7	130010180	130037955	93	15	54999	-0.80088	0.7884	CPA1		
ENSG00000182768	15	90798891	90826463	62	12	39400	-0.80089	0.7884	NGRN		

ENSG00000174950	1	27695666	27719870	33	9	39716	-0.80097	0.78842	CD164L2		
ENSG00000243452	1	148545979	148606267	12	5	43409	-0.801	0.78843	NBPF15		
ENSG00000163701	3	9934296	9968086	108	12	31986	-0.80105	0.78845	IL17RE		
ENSG00000203785	1	153055611	153088660	98	22	31449	-0.8013	0.78852	SPRR2E		
ENSG00000186026	19	44566297	44603766	77	10	25488	-0.8013	0.78852	ZNF284		
ENSG00000205116	1	1351508	1373167	59	11	29646	-0.80148	0.78857	TMEM88B		
ENSG00000099219	9	5755076	5843117	236	24	44454	-0.80174	0.78865	ERMP1		
ENSG00000198874	7	66450160	66714501	1616	38	49411	-0.80212	0.78876	TYW1		
ENSG00000166796	11	18423854	18483605	300	23	48485	-0.80237	0.78883	LDHC		
ENSG00000183722	13	39907029	40187665	901	130	45468	-0.80281	0.78896	LHFP		
ENSG00000205423	16	50048321	50080999	100	15	47296	-0.80286	0.78897	CNEP1R1		
ENSG00000029559	4	88710733	88743074	115	27	44296	-0.80296	0.789	IBSP		
ENSG00000128298	22	38470896	38516677	125	21	48233	-0.80312	0.78905	BAIAP2L2		
ENSG00000188474	19	12193078	12235491	89	15	36326	-0.80418	0.78935	ZNF788		
ENSG00000177700	11	827356	852545	121	13	30430	-0.8042	0.78936	POLR2L		
ENSG00000162729	1	160051130	160078733	74	14	48629	-0.80456	0.78946	IGSF8		
ENSG00000132196	1	162750492	162792607	116	27	39322	-0.80481	0.78954	HSD17B7		
ENSG00000154479	2	170491935	170560943	275	17	56298	-0.80512	0.78963	CCDC173		
ENSG00000100739	14	96712161	96745304	129	31	51867	-0.80544	0.78972	BDKRB1		
ENSG00000165102	8	42985556	43067998	113	23	40666	-0.80556	0.78975	HGSNAT		
ENSG00000139438	12	110142033	110218312	182	34	52356	-0.8058	0.78982	FAM222A		
ENSG00000174125	4	38782298	38868438	312	32	26045	-0.80589	0.78985	TLR1		
ENSG00000048544	6	42164539	42195603	127	9	32179	-0.80624	0.78995	MRPS10		
ENSG00000160226	21	45738827	45769285	79	21	45486	-0.80635	0.78998	C21orf2		
ENSG00000187054	4	68765103	68839858	240	33	42121	-0.80682	0.79012	TMPRSS11A		
ENSG00000135678	12	69225977	69375350	486	93	43115	-0.80723	0.79023	CPM		
ENSG00000153064	4	102322443	103005969	2044	164	44719	-0.80733	0.79026	BANK1		
ENSG00000217702	2	74351599	74372521	62	13	36992	-0.80743	0.79029	MGC10955		
ENSG00000178690	18	52244988	52276724	79	13	42096	-0.80753	0.79032	DYNAP		
ENSG00000204257	6	32906390	32946871	285	32	50449	-0.80787	0.79042	HLA-DMA		
ENSG00000122490	18	77652420	77721664	227	35	49083	-0.80803	0.79046	PQLC1		
ENSG00000145623	5	38835960	38955698	350	62	50169	-0.80814	0.7905	OSMR		
ENSG00000203727	6	147820063	148068683	1160	110	44215	-0.8084	0.79057	SAMD5		
ENSG00000157087	3	10355707	10759716	1527	182	40689	-0.80858	0.79062	ATP2B2		
ENSG00000006377	7	96624860	96650351	45	15	54822	-0.80878	0.79068	DLX6		
ENSG00000159055	21	33630530	33661380	53	13	44627	-0.80885	0.7907	MIS18A		

ENSG00000104290	8	28341729	28441775	220	14	52295	-0.80897	0.79073	FZD3		
ENSG00000249242	4	83394323	83493510	251	54	43332	-0.80909	0.79077	TMEM150C		
ENSG00000149591	11	117060037	117085498	94	17	35320	-0.80918	0.79079	TAGLN		
ENSG00000198431	12	104599557	104754061	558	53	48740	-0.80917	0.79079	TXNRD1		
ENSG00000177673	2	232447575	232468994	52	14	44289	-0.80947	0.79088	C2orf57		
ENSG00000111877	6	119124605	119266327	546	36	41060	-0.80976	0.79096	MCM9		
ENSG00000149654	20	44792372	44947137	352	73	45736	-0.80992	0.79101	CDH22		
ENSG00000182447	3	161204596	161231730	134	10	47762	-0.81026	0.7911	OTOL1		
ENSG00000113811	3	53908437	53936015	86	13	32403	-0.81032	0.79112	SELK		
ENSG00000139269	12	57836106	57863063	60	16	34919	-0.81038	0.79114	INHBE		
ENSG00000152726	10	47884023	47959412	1	1	42478	-0.81059	0.7912	FAM21B		
ENSG00000107651	10	121642223	121712014	264	16	35140	-0.81065	0.79122	SEC23IP		
ENSG00000111837	6	10752956	10848764	201	37	52013	-0.81148	0.79146	MAK		
ENSG00000268275	6	41643964	41664127	81	15	54343	-0.81202	0.79161	AL035588.1		
ENSG00000149289	11	109954087	110052566	367	31	46735	-0.81224	0.79167	ZC3H12C		
ENSG00000154864	18	10656480	11158587	2066	207	46579	-0.81224	0.79167	PIEZO2		
ENSG00000105204	19	40305990	40334841	78	12	54747	-0.81319	0.79195	DYRK1B		
ENSG00000084090	2	96840597	96884563	69	13	50750	-0.81328	0.79197	STARD7		
ENSG00000134480	5	86677311	86718836	54	9	48429	-0.81333	0.79199	CCNH		
ENSG00000155380	1	113444469	113509635	110	22	37410	-0.81338	0.792	SLC16A1		
ENSG00000099810	9	21792542	21941646	344	43	37393	-0.81339	0.792	MTAP		
ENSG00000150636	18	66372446	66732426	1209	113	37707	-0.81338	0.792	CCDC102B		
ENSG00000150456	13	21292870	21358097	228	23	32821	-0.81386	0.79214	N6AMT2		
ENSG00000105374	19	51864860	51885969	65	17	37844	-0.81412	0.79221	NKG7		
ENSG00000062822	19	50877461	50931273	134	20	35510	-0.81418	0.79223	POLD1		
ENSG00000180901	17	73018670	73071984	178	33	38645	-0.81432	0.79227	KCTD2		
ENSG00000204548	20	29982648	30010641	96	12	36521	-0.81464	0.79236	DEFB121		
ENSG00000165188	9	116049373	116075656	75	15	41506	-0.81487	0.79243	RNF183		
ENSG00000101350	20	30855467	30932814	136	12	45488	-0.81493	0.79244	KIF3B		
ENSG00000173905	3	167716465	167823763	266	33	37417	-0.81516	0.79251	GOLIM4		
ENSG00000013016	2	31446880	31502313	158	37	44966	-0.81532	0.79256	EHD3		
ENSG00000144746	3	69124095	69165217	86	16	42697	-0.81601	0.79275	ARL6IP5		
ENSG00000134460	10	6042652	6114288	335	66	48483	-0.81622	0.79281	IL2RA		
ENSG00000176788	5	17055707	17286943	894	135	44335	-0.81662	0.79293	BASP1		
ENSG00000101158	20	57546263	57580188	118	18	54830	-0.81711	0.79307	NELFCD		
ENSG00000113070	5	139702428	139736216	66	16	54073	-0.81738	0.79314	HBEGF		

ENSG00000010219	12	4661370	4733325	228	42	40170	-0.81749	0.79318	DYRK4		
ENSG00000267426	17	73884726	73936210	111	19	38696	-0.81761	0.79321	RP11-552F3.12		
ENSG00000104872	19	49939555	49966754	92	11	30116	-0.8178	0.79326	PIH1D1		
ENSG00000171495	5	40988119	41081444	460	55	52711	-0.81841	0.79344	MROH2B		
ENSG00000177108	14	77587613	77619077	107	26	47396	-0.81847	0.79346	ZDHHHC22		
ENSG00000006075	17	34405602	34427515	108	12	47228	-0.81887	0.79357	CCL3		
ENSG00000170310	17	9143788	9489908	998	173	47023	-0.81938	0.79372	STX8		
ENSG00000178409	6	107376386	107446473	201	41	43856	-0.81963	0.79379	BEND3		
ENSG00000186049	12	52991354	53022343	121	23	50786	-0.81966	0.79379	KRT73		
ENSG00000176225	18	67661029	67883181	565	53	41070	-0.81981	0.79384	RTTN		
ENSG00000130433	19	54485542	54525923	198	38	45259	-0.82001	0.79389	CACNG6		
ENSG00000150756	5	10216442	10260009	229	25	28139	-0.82041	0.79401	FAM173B		
ENSG00000112077	6	49562871	49614552	218	22	27985	-0.8204	0.79401	RHAG		
ENSG00000116117	2	205400516	206494886	2948	221	43889	-0.82107	0.7942	PARD3B		
ENSG00000181464	17	15458797	15479590	40	9	35667	-0.82116	0.79422	CDRT1		
ENSG00000212999	8	93885865	93908013	58	8	28175	-0.82126	0.79425	AC117834.1		
ENSG00000198521	19	21977752	22044927	222	27	34901	-0.82208	0.79448	ZNF43		
ENSG00000165935	12	27609743	27665118	256	22	35541	-0.82243	0.79458	SMCO2		
ENSG00000132964	13	26818276	26989375	446	39	40685	-0.82271	0.79466	CDK8		
ENSG00000102606	13	111756906	111968084	702	91	49005	-0.82273	0.79467	ARHGEF7		
ENSG00000145494	5	1791514	1826719	161	17	34350	-0.82284	0.7947	NDUFS6		
ENSG00000180219	12	100031531	100053824	57	14	38414	-0.82287	0.79471	FAM71C		
ENSG00000138668	4	83263651	83305656	132	20	40255	-0.82299	0.79474	HNRNPD		
ENSG00000260001	19	7971030	7993982	63	25	42675	-0.82298	0.79474	TGFBR3L		
ENSG00000228032	14	104700541	104722473	119	15	50155	-0.82348	0.79488	C14orf144		
ENSG00000167476	19	2242251	2279758	138	29	32378	-0.82363	0.79493	JSRP1		
ENSG00000254673	8	42863567	42942477	150	24	47483	-0.82475	0.79524	RP11-598P20.5		
ENSG00000142178	21	44824395	44857008	80	25	43928	-0.82523	0.79538	SIK1		
ENSG00000180316	6	36200980	36286372	224	61	48689	-0.8254	0.79543	PNPLA1		
ENSG00000143954	2	79242812	79265631	134	12	55814	-0.82543	0.79544	REG3G		
ENSG00000175895	8	96136032	96178912	130	16	46153	-0.82548	0.79545	PLEKHF2		
ENSG00000132669	20	19857165	19993101	495	91	41292	-0.82571	0.79551	RIN2		
ENSG00000170632	7	102705328	102750205	53	19	46437	-0.82685	0.79584	ARMC10		
ENSG00000173218	1	116174574	116250845	274	43	44612	-0.82739	0.79599	VANGL1		
ENSG00000111237	12	110918902	110949922	72	12	33434	-0.82773	0.79609	VPS29		
ENSG00000267884	1	166016679	166038709	74	15	51193	-0.82809	0.79619	AL626787.1		

ENSG00000186439	6	123527483	123968238	1492	116	42496	-0.82816	0.79621	TRDN		
ENSG00000174885	11	268365	295359	59	24	38117	-0.82835	0.79626	NLRP6		
ENSG00000135111	12	115098059	115131969	82	27	50124	-0.82846	0.7963	TBX3		
ENSG00000080293	2	120187419	120292070	398	54	48199	-0.82859	0.79633	SCTR		
ENSG00000164880	7	1499913	1555489	174	11	34584	-0.82892	0.79642	INTS1		
ENSG00000119913	10	114033493	114074793	138	25	43856	-0.8289	0.79642	TECTB		
ENSG00000080007	6	74094471	74137292	89	20	53824	-0.82913	0.79649	DDX43		
ENSG00000178586	2	240974494	240995489	120	21	50739	-0.8294	0.79656	OR6B3		
ENSG00000175582	11	73376683	73482182	308	32	48015	-0.82944	0.79657	RAB6A		
ENSG00000178585	1	9898334	9980394	117	30	44502	-0.82947	0.79658	CTNNBIP1		
ENSG00000214645	9	110529471	110550419	72	14	48894	-0.82945	0.79658	AL162389.1		
ENSG00000095303	9	125122824	125167982	146	26	40767	-0.82962	0.79662	PTGS1		
ENSG00000114251	3	55489743	55533973	130	27	38329	-0.82977	0.79667	WNT5A		
ENSG00000189298	6	28307691	28346947	166	22	40777	-0.83062	0.79691	ZKSCAN3		
ENSG00000269633	2	207210463	207230843	54	10	49890	-0.83066	0.79692	AC017081.1		
ENSG00000183615	1	32702834	32724457	42	7	28955	-0.83103	0.79702	FAM167B		
ENSG00000180440	13	37238049	37281976	93	30	49075	-0.83101	0.79702	SERTM1		
ENSG00000136436	17	46898350	46953884	168	14	25883	-0.83101	0.79702	CALCOCO2		
ENSG00000151743	12	31814071	31892108	233	38	42426	-0.83156	0.79717	AMN1		
ENSG00000254858	19	18293992	18317758	83	14	50307	-0.83188	0.79726	MPV17L2		
ENSG00000162650	1	110016101	110045426	46	10	45817	-0.832	0.79729	ATXN7L2		
ENSG00000005194	16	57452081	57491440	137	24	54020	-0.83209	0.79732	CIAPIN1		
ENSG00000168679	1	110895470	110943704	130	21	48278	-0.83236	0.7974	SLC16A4		
ENSG00000185950	13	110396184	110448915	176	27	52516	-0.83277	0.79751	IRS2		
ENSG00000170370	10	119291955	119319056	99	15	38266	-0.83313	0.79762	EMX2		
ENSG00000108771	17	40243422	40274751	71	11	32896	-0.8332	0.79763	DHX58		
ENSG00000215187	9	35551828	35573896	48	12	46609	-0.83356	0.79774	FAM166B		
ENSG00000112038	6	154321631	154578001	853	100	45133	-0.83375	0.79779	OPRM1		
ENSG00000197457	20	62261061	62294780	121	23	38260	-0.83394	0.79784	STMN3		
ENSG00000182247	3	23234511	23643284	1592	52	51229	-0.83433	0.79795	UBE2E2		
ENSG00000069974	15	55485164	55621311	542	57	39357	-0.83464	0.79804	RAB27A		
ENSG00000137338	6	28239314	28280326	109	19	31334	-0.83486	0.7981	PGBD1		
ENSG00000125534	20	62142077	62163559	99	23	38338	-0.83511	0.79817	PPDPF		
ENSG00000188039	19	16820787	16938774	309	47	42144	-0.83532	0.79823	NWD1		
ENSG00000224854	9	21957137	21977738	37	12	45650	-0.83594	0.79841	C9orf53		
ENSG00000152990	4	22336694	22527677	717	86	40734	-0.83695	0.79869	GPR125		

ENSG00000167711	17	1636130	1668562	140	22	52375	-0.83701	0.79871	SERPINF2		
ENSG00000124302	19	34102861	34274414	615	101	49515	-0.83732	0.79879	CHST8		
ENSG00000151665	2	46798076	46854258	149	20	38742	-0.83783	0.79894	PIGF		
ENSG00000150459	13	21704653	21733221	97	15	55448	-0.83827	0.79906	SAP18		
ENSG00000127529	19	15042301	15063260	108	18	44868	-0.83861	0.79915	OR7C2		
ENSG00000139656	13	44707679	44745393	69	14	34163	-0.83891	0.79924	SMIM2		
ENSG00000261740	16	29444551	29475972	2	1	34442	-0.83897	0.79926	RP11-345J4.5		
ENSG00000162139	11	74689179	74739938	107	19	39471	-0.83942	0.79938	NEU3		
ENSG00000172164	8	121537985	121835513	806	87	37454	-0.83985	0.7995	SNTB1		
ENSG00000197724	9	96328689	96451869	621	61	46470	-0.83988	0.79951	PHF2		
ENSG00000186280	11	94696845	94742682	114	20	44150	-0.84016	0.79959	KDM4D		
ENSG00000159374	2	74775010	74885465	105	17	34671	-0.84033	0.79964	M1AP		
ENSG00000167157	9	132417920	132494875	294	51	40923	-0.84032	0.79964	PRRX2		
ENSG00000268162	12	57380745	57401335	36	8	53077	-0.84037	0.79965	HBCBP		
ENSG00000166501	16	23837322	24241932	1340	172	48624	-0.84042	0.79966	PRKCB		
ENSG00000015532	17	48413453	48450499	153	15	38999	-0.84085	0.79978	XYLT2		
ENSG00000065135	1	110081233	110146975	107	19	46939	-0.84095	0.79981	GNAI3		
ENSG00000215343	8	11951898	11983025	3	2	42983	-0.84158	0.79999	ZNF705D		
ENSG00000165409	14	81411333	81622646	843	88	42033	-0.84163	0.8	TSHR		
ENSG00000197903	6	27096073	27124619	54	19	42498	-0.84182	0.80006	HIST1H2BK		
ENSG00000133107	13	38200773	38454562	942	114	48461	-0.84252	0.80025	TRPC4		
ENSG00000179241	11	35955531	36263686	1168	150	46608	-0.84266	0.80029	LDLRAD3		
ENSG00000072803	5	171278553	171443877	228	39	42133	-0.84303	0.80039	FBXW11		
ENSG00000100804	14	23475752	23514439	74	18	40917	-0.84301	0.80039	PSMB5		
ENSG00000258436	14	21048352	21068982	97	25	51931	-0.84306	0.8004	RNASE12		
ENSG00000108825	17	41092543	41142545	52	12	34681	-0.84379	0.80061	PTGES3L-AARSD1		
ENSG00000229809	16	30570667	30594055	17	9	40626	-0.84384	0.80062	ZNF688		
ENSG00000213416	17	39269343	39290419	115	8	25948	-0.84384	0.80062	KRTAP4-12		
ENSG00000168398	14	96661016	96720666	265	54	49492	-0.84389	0.80063	BDKRB2		
ENSG00000196597	9	99568754	99647905	81	22	38952	-0.84416	0.80071	ZNF782		
ENSG00000184999	11	62895339	63147190	844	54	43971	-0.84415	0.80071	SLC22A10		
ENSG00000177694	3	174146363	175533428	4927	353	44675	-0.84458	0.80083	NAALADL2		
ENSG00000113812	3	53891093	53926229	133	18	35687	-0.84481	0.80089	ACTR8		
ENSG00000187701	1	248803232	248824185	29	9	44848	-0.84502	0.80095	OR2T27		
ENSG00000071991	18	64158320	64281375	301	37	43591	-0.84504	0.80096	CDH19		
ENSG00000182568	3	18376879	18497080	274	46	45351	-0.84513	0.80098	SATB1		

ENSG00000182544	12	53635035	53658189	66	13	41533	-0.84525	0.80102	MFSD5		
ENSG00000070961	12	89971828	90113077	263	31	49944	-0.84607	0.80124	ATP2B1		
ENSG00000101290	20	5097432	5188533	273	32	46841	-0.84616	0.80127	CDS2		
ENSG00000156253	21	30366705	30401699	92	17	45486	-0.84616	0.80127	RWDD2B		
ENSG00000228716	5	79912047	79960802	276	10	54887	-0.84655	0.80138	DHFR		
ENSG00000144583	2	217112588	217246750	361	54	40132	-0.84802	0.80179	Mar-04		
ENSG00000112486	6	167515295	167563184	197	38	45448	-0.84826	0.80185	CCR6		
ENSG00000167769	19	6296153	6343640	288	31	42526	-0.84922	0.80212	ACER1		
ENSG00000136628	1	220131943	220230000	375	23	48431	-0.84932	0.80215	EPRS		
ENSG00000188994	6	87852551	87983914	389	23	35621	-0.84939	0.80217	ZNF292		
ENSG00000123191	13	52496809	52595630	267	30	40587	-0.84943	0.80218	ATP7B		
ENSG00000212938	21	31954759	31975394	43	10	53959	-0.84945	0.80218	KRTAP6-3		
ENSG00000187736	2	219930039	220035587	204	18	38243	-0.84946	0.80219	NHEJ1		
ENSG00000127870	13	26696253	26806791	432	59	49179	-0.84998	0.80233	RNF6		
ENSG00000196876	12	51974050	52216648	472	47	33188	-0.85009	0.80236	SCN8A		
ENSG00000237441	6	33249431	33277101	79	19	31631	-0.85016	0.80238	RGL2		
ENSG00000175329	22	35452129	35493380	222	17	40218	-0.85024	0.8024	ISX		
ENSG00000118246	2	207620081	207667233	138	18	34775	-0.8503	0.80242	FASTKD2		
ENSG00000124783	6	7258539	7357679	601	57	43267	-0.85041	0.80245	SSR1		
ENSG00000180730	13	26608735	26635169	138	22	36667	-0.85048	0.80247	SHISA2		
ENSG00000267060	17	41110105	41142545	40	10	33650	-0.85087	0.80258	PTGES3L		
ENSG00000269690	1	201582013	201602738	43	15	42262	-0.85091	0.80259	AC096677.1		
ENSG00000165643	9	138575253	138601374	122	22	33364	-0.85109	0.80264	SOHLH1		
ENSG00000249319	7	65542756	65627228	258	21	44323	-0.85114	0.80265	AC068533.7		
ENSG00000145687	5	80698840	81057616	817	79	38971	-0.85125	0.80268	SSBP2		
ENSG00000075131	15	66618544	66689084	232	33	50563	-0.85123	0.80268	TIPIN		
ENSG00000134056	5	68503587	68535956	109	11	52919	-0.85136	0.80271	MRPS36		
ENSG00000146267	6	99709045	99807938	381	44	43325	-0.85179	0.80284	FAXC		
ENSG00000004399	3	129264018	129335661	234	35	42624	-0.85193	0.80287	PLXND1		
ENSG00000100490	14	50786310	50893179	307	41	49391	-0.85193	0.80287	CDKL1		
ENSG00000105642	19	18052102	18120889	191	41	48153	-0.85207	0.80291	KCNN1		
ENSG00000138772	4	79462673	79541597	225	33	41825	-0.85249	0.80303	ANXA3		
ENSG00000146282	6	88214096	88309721	375	27	54438	-0.85256	0.80305	RARS2		
ENSG00000019991	7	81318322	81409754	198	24	51420	-0.85279	0.80311	HGF		
ENSG00000006025	17	45874738	45909200	128	21	34677	-0.85276	0.80311	OSBPL7		
ENSG00000151131	12	105370088	105453515	353	35	39106	-0.85296	0.80316	C12orf45		

ENSG00000269190	19	39422044	39476550	191	31	44691	-0.853	0.80317	FBXO17		
ENSG00000158604	7	44607493	44631886	78	13	32594	-0.85306	0.80319	TMED4		
ENSG00000138379	2	190910423	190937455	62	9	27576	-0.8531	0.8032	MSTN		
ENSG00000268467	11	107452471	107473949	70	9	29483	-0.85369	0.80336	AP000889.3		
ENSG00000253251	5	64910592	64936718	106	12	51296	-0.85398	0.80344	CTC-534A2.2		
ENSG00000177459	8	99066539	99115838	132	33	48096	-0.85399	0.80345	C8orf47		
ENSG00000179335	15	74880841	74942057	88	13	33970	-0.8544	0.80356	CLK3		
ENSG00000151093	3	25814408	25846025	39	9	39108	-0.85501	0.80373	OXSM		
ENSG00000221826	19	43215790	43254721	153	18	45798	-0.85529	0.8038	PSG3		
ENSG00000197162	16	30575061	30607092	27	11	33672	-0.85592	0.80398	ZNF785		
ENSG00000198863	17	41122582	41155707	44	9	39609	-0.85613	0.80404	RUNDC1		
ENSG00000152292	2	85635844	85674152	142	29	44177	-0.85662	0.80417	SH2D6		
ENSG00000122545	7	35830542	35954917	242	19	44160	-0.85741	0.80439	Sep-07		
ENSG00000131016	6	151551134	151689692	553	92	41602	-0.85755	0.80443	AKAP12		
ENSG00000104343	8	74682332	74801145	188	31	46763	-0.85756	0.80443	UBE2W		
ENSG00000141837	19	13307256	13744804	1624	239	40088	-0.85776	0.80449	CACNA1A		
ENSG00000132031	2	20181872	20222455	113	22	45294	-0.85785	0.80451	MATN3		
ENSG00000185864	16	21835890	21902148	16	8	47861	-0.85794	0.80454	NPIP4		
ENSG00000163235	2	70664412	70791325	443	65	49271	-0.85872	0.80475	TGFA		
ENSG00000204839	8	144638357	144665141	131	23	49586	-0.8588	0.80477	MROH6		
ENSG00000101605	18	3056805	3230106	771	125	46201	-0.85886	0.80479	MYOM1		
ENSG00000164326	5	71004990	71026875	81	15	42344	-0.85948	0.80496	CARTPT		
ENSG00000082269	6	71112644	71280877	402	20	48665	-0.85972	0.80503	FAM135A		
ENSG00000172869	5	118363467	118594833	403	67	46221	-0.85998	0.8051	DMXL1		
ENSG00000183038	22	20356206	20378028	1	1	42968	-0.85998	0.8051	GGTLC3		
ENSG00000198815	1	42632210	42811548	372	24	44974	-0.8601	0.80513	FOXJ3		
ENSG00000144867	3	133492877	133554616	181	30	51104	-0.86008	0.80513	SRPRB		
ENSG00000143507	1	221864766	221925518	138	33	44330	-0.86015	0.80515	DUSP10		
ENSG00000215271	14	23731666	23778656	110	29	45049	-0.8603	0.80519	HOMER		
ENSG00000137478	11	72537790	72863306	382	63	49970	-0.86077	0.80532	FCHSD2		
ENSG00000106701	9	108200077	108324714	302	37	45700	-0.86093	0.80536	FSD1L		
ENSG00000138190	10	94580935	94829250	718	53	40784	-0.86093	0.80536	EXOC6		
ENSG00000128683	2	171659723	171727661	201	31	46151	-0.86102	0.80539	GAD1		
ENSG00000146540	7	1026622	1187896	906	78	45114	-0.86111	0.80541	C7orf50		
ENSG00000163565	1	158959758	159034945	264	27	39890	-0.86193	0.80564	IFI16		
ENSG00000138738	4	121596074	121854025	1130	62	47605	-0.8625	0.80579	PRDM5		

ENSG00000120690	13	41496056	41645576	340	30	36344	-0.86272	0.80585	ELF1		
ENSG00000066382	11	30396040	30618419	607	73	41751	-0.86354	0.80608	MPPED2		
ENSG00000110448	11	60859867	60905324	118	20	34527	-0.86365	0.80611	CD5		
ENSG00000102543	13	49812047	49877618	120	10	45922	-0.86414	0.80625	CDADC1		
ENSG00000157064	1	183207372	183397737	549	51	43870	-0.8645	0.80634	NMNAT2		
ENSG00000114948	2	207298263	207495851	463	67	53524	-0.86457	0.80636	ADAM23		
ENSG00000122484	1	92754522	92877613	164	19	27255	-0.86486	0.80644	RPAP2		
ENSG00000115919	2	143625067	143809890	544	59	35801	-0.86532	0.80657	KYNU		
ENSG00000197324	14	23330822	23360789	57	14	48438	-0.86546	0.80661	LRP10		
ENSG00000073737	2	169911299	169962677	76	19	47467	-0.86563	0.80665	DHRS9		
ENSG00000121350	12	21580549	21633300	350	18	53454	-0.86586	0.80672	PYROXD1		
ENSG00000172661	10	46212648	46298409	99	12	36855	-0.86655	0.80691	FAM21C		
ENSG00000167034	8	23526206	23550440	77	15	46611	-0.86699	0.80703	NKX3-1		
ENSG00000106351	7	100126834	100175842	78	12	51859	-0.86703	0.80704	AGFG2		
ENSG00000088356	20	30522758	30549895	42	7	39239	-0.86776	0.80724	PDRG1		
ENSG00000126106	1	45090910	45150227	125	13	35937	-0.8679	0.80728	TMEM53		
ENSG00000167311	11	3649733	3673546	105	25	34221	-0.86794	0.80729	ART5		
ENSG00000085662	7	134117102	134154036	102	26	41797	-0.86871	0.8075	AKR1B1		
ENSG00000184156	8	133123108	133503200	1456	162	47503	-0.86896	0.80757	KCNQ3		
ENSG00000215547	20	29835467	29857435	65	13	40440	-0.87005	0.80786	DEFB115		
ENSG00000075568	2	98362799	98622388	600	41	44437	-0.8701	0.80788	TMEM131		
ENSG00000168658	2	98693579	98939762	725	48	44795	-0.87031	0.80793	VWA3B		
ENSG00000135517	12	56833286	56872950	76	19	45338	-0.87036	0.80795	MIP		
ENSG00000203972	6	49457671	49504760	133	14	42073	-0.87115	0.80816	GLYATL3		
ENSG00000151360	2	3695785	3760261	274	41	47708	-0.87124	0.80819	ALLC		
ENSG00000184402	20	60708822	60767540	265	24	33484	-0.87128	0.8082	SS18L1		
ENSG00000078237	12	4420371	4472338	136	24	46542	-0.87154	0.80827	C12orf5		
ENSG00000167900	17	76160160	76193314	167	31	34241	-0.87153	0.80827	TK1		
ENSG00000156738	11	60213225	60248233	105	20	50942	-0.87156	0.80828	MS4A1		
ENSG00000050730	4	122042563	122158621	360	36	46098	-0.87171	0.80832	TNIP3		
ENSG00000099817	19	1076594	1105598	167	40	45318	-0.87184	0.80835	POLR2E		
ENSG00000156603	11	57461186	57489693	51	9	45185	-0.87228	0.80847	MED19		
ENSG00000106397	7	100839258	100871701	83	23	45549	-0.87235	0.80849	PLOD3		
ENSG00000134490	18	20767108	21027925	584	75	42164	-0.87235	0.80849	TMEM241		
ENSG00000139287	12	72322626	72590398	738	70	42749	-0.87253	0.80854	TPH2		
ENSG00000186803	9	21196180	21217142	155	15	50248	-0.87277	0.80861	IFNA10		

ENSG00000198121	9	113625543	113810981	615	76	42463	-0.87287	0.80863	LPAR1		
ENSG00000158485	1	158287741	158311321	67	15	38339	-0.87302	0.80867	CD1B		
ENSG00000212933	21	46064130	46084576	105	13	49952	-0.87323	0.80873	KRTAP12-4		
ENSG00000161638	12	54779045	54823244	84	13	30092	-0.87349	0.8088	ITGA5		
ENSG00000186866	21	46673843	46717813	180	15	51289	-0.87362	0.80884	POFUT2		
ENSG00000082497	1	210396144	210429976	59	14	48648	-0.87372	0.80887	SERTAD4		
ENSG00000203832	1	148240249	148357506	6	3	42605	-0.87416	0.80898	NBPF20		
ENSG00000232560	21	18801208	18831503	114	42	44983	-0.87418	0.80899	C21orf37		
ENSG00000158186	3	138056539	138134375	197	19	53687	-0.8744	0.80905	MRAS		
ENSG00000173598	12	93761659	93807024	132	23	50689	-0.87467	0.80912	NUDT4		
ENSG00000143768	1	226114298	226139189	56	16	50170	-0.87493	0.80919	LEFTY2		
ENSG00000132623	20	9956774	10047410	369	50	51100	-0.87503	0.80922	ANKEF1		
ENSG00000136872	9	104172860	104208105	127	19	51862	-0.87551	0.80935	ALDOB		
ENSG00000138182	10	91451367	91544700	353	18	33480	-0.87552	0.80935	KIF20B		
ENSG00000130147	2	235850617	235974358	325	77	40532	-0.87552	0.80936	SH3BP4		
ENSG00000182952	6	26528633	26556482	77	9	52064	-0.87603	0.80949	HMGNA4		
ENSG00000215545	20	29881015	29906388	85	16	42508	-0.87655	0.80963	DEFB116		
ENSG00000151458	4	125575207	125643887	166	27	53493	-0.87662	0.80965	ANKRD50		
ENSG00000164325	5	72459022	72480970	52	16	47807	-0.87697	0.80975	TMEM174		
ENSG00000161533	17	73927588	73985515	214	30	45240	-0.87726	0.80983	ACOX1		
ENSG00000160593	11	118054455	118105809	161	16	39048	-0.87736	0.80985	AMICA1		
ENSG00000124217	20	49565363	49587820	39	11	41350	-0.87763	0.80993	MOCS3		
ENSG00000172215	3	45972425	45999845	76	12	31560	-0.87775	0.80996	CXCR6		
ENSG00000124762	6	36634305	36665116	121	16	35314	-0.87819	0.81008	CDKN1A		
ENSG00000051825	12	123626867	123738561	342	20	34600	-0.87866	0.81021	MPHOSPH9		
ENSG00000162244	3	52017616	52039958	29	14	44995	-0.8789	0.81027	RPL29		
ENSG00000224470	16	71869894	71929171	131	19	44975	-0.87904	0.81031	ATXN1L		
ENSG00000178789	17	72507313	72537613	111	13	40801	-0.87906	0.81031	CD300LB		
ENSG00000115239	2	53749810	54097170	1272	119	46037	-0.87924	0.81036	GPR75-ASB3		
ENSG00000092820	6	159176773	159250444	331	24	31340	-0.87937	0.8104	EZR		
ENSG00000177047	9	21130631	21152144	75	18	49736	-0.87946	0.81042	IFNW1		
ENSG00000189180	10	38289578	38364016	233	22	54802	-0.87962	0.81047	ZNF33A		
ENSG00000143028	1	109999180	110034759	93	9	45442	-0.88042	0.81068	SYPL2		
ENSG00000159692	4	1195236	1253741	191	25	32064	-0.88081	0.81079	CTBP1		
ENSG00000104892	19	45826692	45864778	123	24	42207	-0.88112	0.81087	KLC3		
ENSG00000256660	12	10153226	10181218	121	18	51047	-0.88196	0.8111	CLEC12B		

ENSG00000267699	18	48484389	48594514	143	17	51856	-0.88221	0.81117	RP11-729L2.2		
ENSG00000080824	14	102537075	102616036	227	28	37479	-0.88241	0.81122	HSP90AA1		
ENSG00000156469	8	97241626	97283838	81	17	49898	-0.88272	0.81131	MTERFD1		
ENSG00000066027	1	212448879	212545200	278	33	45778	-0.88291	0.81136	PPP2R5A		
ENSG00000169994	2	128283378	128405304	389	54	41511	-0.88341	0.81149	MYO7B		
ENSG00000183770	3	138653066	138675982	35	11	40130	-0.88416	0.81169	FOXL2		
ENSG00000148841	10	106061894	106108162	92	16	42942	-0.88461	0.81182	ITPRIP		
ENSG00000180861	12	13514023	13550101	142	15	52306	-0.88482	0.81187	C12orf36		
ENSG00000174672	11	1401129	1493919	459	62	45597	-0.88502	0.81193	BRSK2		
ENSG00000141934	19	271040	301393	83	31	40088	-0.88504	0.81193	PPAP2C		
ENSG00000156042	10	75003517	75128617	367	6	19417	-0.88537	0.81202	TTC18		
ENSG00000273045	2	99747948	99777950	93	11	45283	-0.88544	0.81204	C2ORF15		
ENSG00000230522	19	7039332	7061746	5	3	43029	-0.88576	0.81213	MBD3L2		
ENSG00000181481	17	29285803	29336929	30	20	42761	-0.88599	0.81219	RNF135		
ENSG00000152894	6	128279924	128851870	1121	117	45944	-0.88604	0.8122	PTPRK		
ENSG00000151208	10	79540549	79696378	490	37	53866	-0.88676	0.8124	DLG5		
ENSG00000184471	16	1130005	1156244	127	28	41659	-0.88711	0.81249	C1QTNF8		
ENSG00000253368	1	27310198	27337389	37	9	48631	-0.8873	0.81254	TRNP1		
ENSG00000131068	20	29946421	29971726	62	15	42421	-0.88745	0.81258	DEFB118		
ENSG00000170144	2	178067291	178098686	39	8	36869	-0.88758	0.81262	HNRNPA3		
ENSG00000126883	9	133990948	134120057	304	30	52838	-0.88781	0.81268	NUP214		
ENSG00000187140	1	63778730	63800797	63	25	52874	-0.88833	0.81282	FOXD3		
ENSG00000123219	5	64803593	64868998	250	16	53169	-0.88846	0.81285	CENPK		
ENSG00000101363	20	35908041	35955663	126	19	48773	-0.88849	0.81286	MANBAL		
ENSG00000174448	18	51840728	51894334	191	15	46478	-0.88863	0.8129	STARD6		
ENSG00000142655	1	10522345	10700815	482	52	44510	-0.88875	0.81293	PEX14		
ENSG00000166922	15	32923877	32999299	253	67	44112	-0.88907	0.81302	SCG5		
ENSG00000170442	12	52633084	52712947	346	40	52609	-0.8891	0.81303	KRT86		
ENSG00000119912	10	94201441	94343833	403	42	51858	-0.88916	0.81304	IDE		
ENSG00000125885	20	5921298	5985852	248	33	40459	-0.88927	0.81307	MCM8		
ENSG00000110876	12	109005686	109037735	75	25	42007	-0.88939	0.8131	SELPLG		
ENSG00000179361	15	74823518	74900472	139	13	29945	-0.88958	0.81316	ARID3B		
ENSG00000196539	1	248626627	248647634	28	3	45040	-0.88986	0.81323	OR2T3		
ENSG00000188306	3	169529710	169565563	99	13	50827	-0.88994	0.81325	LRRIQ4		
ENSG00000007080	19	18033825	18064800	94	23	44787	-0.89019	0.81332	CCDC124		
ENSG00000102710	13	37573449	37643850	120	15	42384	-0.89053	0.81341	SUPT20H		

ENSG00000167995	11	61707293	61742987	84	22	29764	-0.89091	0.81351	BEST1		
ENSG00000135451	12	49707019	49735514	96	15	48100	-0.89137	0.81363	TROAP		
ENSG00000232850	9	130880612	130901481	28	8	27136	-0.89149	0.81367	AL590708.2		
ENSG00000196363	9	136990487	137035093	314	31	43947	-0.89149	0.81367	WDR5		
ENSG00000132024	19	14007014	14051692	80	13	34744	-0.89163	0.81371	CC2D1A		
ENSG00000090020	1	27415306	27503472	134	10	54007	-0.89181	0.81375	SLC9A1		
ENSG00000164603	7	112449202	112589971	259	35	44084	-0.89179	0.81375	C7orf60		
ENSG00000268206	17	26628667	26652323	39	13	44926	-0.89217	0.81385	AC061975.10		
ENSG00000198796	18	56138479	56306189	694	103	49118	-0.89232	0.81389	ALPK2		
ENSG00000102802	13	31470328	31509709	134	27	53706	-0.89342	0.81418	MEDAG		
ENSG00000172146	17	3108915	3129844	152	12	51330	-0.89371	0.81426	OR1A1		
ENSG00000113595	5	64875507	64931802	199	16	50201	-0.89401	0.81434	TRIM23		
ENSG00000112299	6	132992729	133045188	255	28	37587	-0.89408	0.81436	VNN1		
ENSG00000130943	22	46641560	46669219	117	10	26188	-0.89413	0.81437	PKDREJ		
ENSG00000167996	11	61717190	61745132	71	18	29792	-0.89522	0.81467	FTH1		
ENSG00000177425	12	79958759	80094877	121	26	46553	-0.89529	0.81468	PAWR		
ENSG00000075702	19	36535783	36606008	212	28	54346	-0.89531	0.81469	WDR62		
ENSG00000156170	8	95897995	96138683	822	67	48040	-0.89558	0.81476	NDUFAF6		
ENSG00000165300	13	88314870	88341871	69	14	46580	-0.89679	0.81508	SLITRK5		
ENSG00000103226	16	16316352	16398668	78	9	43381	-0.89683	0.8151	NOMO3		
ENSG00000116918	1	231654399	231712270	105	23	42315	-0.89689	0.81511	TSNAX		
ENSG00000113407	5	33430802	33479644	152	20	36204	-0.89696	0.81513	TARS		
ENSG00000118520	6	131884284	131915472	62	16	38720	-0.89742	0.81525	ARG1		
ENSG00000170860	3	14209858	14252619	87	17	43975	-0.89773	0.81534	LSM3		
ENSG00000268028	12	65080189	65100329	53	15	49808	-0.89854	0.81555	AC025262.1		
ENSG00000147573	8	67029131	67097720	168	18	35530	-0.89866	0.81558	TRIM55		
ENSG00000090975	12	123458027	123644562	249	37	43231	-0.89885	0.81563	PITPNM2		
ENSG00000257726	12	115790817	115812550	55	12	44519	-0.89972	0.81587	RP11-116D17.1		
ENSG00000256771	19	19966695	20015483	177	22	33440	-0.90007	0.81596	ZNF253		
ENSG00000099795	19	14666890	14692874	74	16	49710	-0.90018	0.81599	NDUFB7		
ENSG00000083838	19	58975384	59002597	61	13	49606	-0.90035	0.81603	ZNF446		
ENSG00000077327	10	22624399	22753153	130	35	44865	-0.90046	0.81606	SPAG6		
ENSG00000159763	7	142819170	142846839	79	13	27007	-0.90072	0.81613	PIP		
ENSG00000170803	11	6796248	6817245	96	12	53568	-0.90145	0.81633	OR2AG1		
ENSG00000162426	1	8367886	8414227	141	26	46497	-0.90157	0.81636	SLC45A1		
ENSG00000105193	19	39913847	39936588	73	9	41111	-0.90174	0.8164	RPS16		

ENSG00000108187	10	70032417	70102806	255	21	39987	-0.90176	0.81641	PBLD		
ENSG00000180777	18	14718271	14862737	367	35	45237	-0.90244	0.81659	ANKRD30B		
ENSG00000174373	14	35997558	36288510	400	30	37728	-0.90248	0.8166	RALGAPA1		
ENSG00000184613	12	44892058	45325631	1151	98	47116	-0.90267	0.81665	NELL2		
ENSG00000188386	9	104343897	104367283	70	16	53205	-0.90273	0.81667	PPP3R2		
ENSG00000111728	12	22206707	22599975	1263	119	45445	-0.90326	0.81681	ST8SIA1		
ENSG00000164985	9	15454064	15521017	206	28	36852	-0.90349	0.81687	PSIP1		
ENSG00000113368	5	126102315	126182712	325	40	54101	-0.90398	0.817	LMNB1		
ENSG00000133657	3	194113401	194229093	325	45	30733	-0.9044	0.81711	ATP13A3		
ENSG00000113597	5	64910543	64972060	228	17	52692	-0.90486	0.81723	TRAPPC13		
ENSG00000172349	15	81441916	81615104	482	61	39377	-0.90525	0.81733	IL16		
ENSG00000064205	20	43333485	43367150	72	21	51777	-0.90556	0.81742	WISP2		
ENSG00000240386	1	152738848	152759445	64	10	40222	-0.90579	0.81748	LCE1F		
ENSG00000169245	4	76932273	76954650	106	6	52020	-0.90609	0.81756	CXCL10		
ENSG00000092054	14	23871947	23914927	128	22	39709	-0.90624	0.8176	MYH7		
ENSG00000102984	16	71883583	71939239	124	19	44877	-0.90657	0.81768	ZNF821		
ENSG00000167468	19	1093936	1116787	119	24	47504	-0.90661	0.81769	GPX4		
ENSG00000084112	12	109166466	109261366	196	31	38643	-0.90736	0.81789	SSH1		
ENSG00000197771	10	121578972	121662068	325	20	35693	-0.90793	0.81804	MCMBP		
ENSG00000168875	3	137473579	137494396	47	12	52442	-0.90856	0.81821	SOX14		
ENSG00000113163	5	74654311	74817963	335	34	46694	-0.9087	0.81825	COL4A3BP		
ENSG00000243440	21	15954251	16041142	300	33	42194	-0.90918	0.81837	AF165138.7		
ENSG00000140465	15	75001883	75027951	33	10	30179	-0.90992	0.81857	CYP1A1		
ENSG00000268172	1	144979309	145001365	1	1	42683	-0.91004	0.8186	AL590452.1		
ENSG00000134184	1	110220436	110261661	85	17	29568	-0.91015	0.81863	GSTM1		
ENSG00000155115	6	111269763	111299093	141	8	28639	-0.91028	0.81866	GTF3C6		
ENSG00000122515	7	44778180	44819477	75	15	42616	-0.91049	0.81872	ZMIZ2		
ENSG00000204703	6	29043985	29065090	74	16	40908	-0.91076	0.81879	OR2B3		
ENSG00000182636	15	23920565	23942450	72	20	45576	-0.9116	0.81901	NDN		
ENSG00000188157	1	945503	1001496	164	21	33259	-0.91168	0.81903	AGRN		
ENSG00000131470	17	40714333	40739849	48	9	54469	-0.91188	0.81908	PSMC3IP		
ENSG00000111249	12	111461828	111798358	419	73	36777	-0.91191	0.81909	CUX2		
ENSG00000120438	6	160189530	160220781	148	14	47905	-0.91245	0.81923	TCP1		
ENSG00000151657	10	7782925	7839990	208	37	46187	-0.913	0.81938	KIN		
ENSG00000197951	19	57096632	57147849	180	39	44144	-0.91302	0.81938	ZNF71		
ENSG00000129071	3	129139787	129168878	79	10	33647	-0.91353	0.81952	MBD4		

ENSG00000258691	14	96661181	96740266	350	65	50277	-0.91379	0.81959	RP11-404P21.8		
ENSG00000174842	1	92701959	92774544	93	11	25997	-0.91413	0.81968	GLMN		
ENSG00000184220	3	99526678	99907447	550	44	53714	-0.91473	0.81983	CMSS1		
ENSG00000185640	12	53205194	53238079	110	23	45469	-0.9151	0.81993	KRT79		
ENSG00000023445	11	102178215	102220134	70	15	55167	-0.91515	0.81994	BIRC3		
ENSG00000188227	19	37987841	38049664	143	26	35348	-0.91549	0.82003	ZNF793		
ENSG00000148835	10	105117724	105158822	58	11	37305	-0.91573	0.82009	TAF5		
ENSG00000054611	22	47148518	47581336	1695	158	43599	-0.91572	0.82009	TBC1D22A		
ENSG00000197323	1	114925399	115063781	414	33	53514	-0.91574	0.8201	TRIM33		
ENSG00000106948	9	117086436	117166685	175	29	43899	-0.91604	0.82018	AKNA		
ENSG00000258744	14	24960800	24987894	121	19	42183	-0.91614	0.8202	RP11-80A15.1		
ENSG00000165732	10	70705884	70754829	132	21	43965	-0.91624	0.82023	DDX21		
ENSG00000114757	3	179502746	179764841	820	92	47193	-0.91644	0.82028	PEX5L		
ENSG00000162604	1	62136718	62201095	171	23	44452	-0.91661	0.82033	TM2D1		
ENSG00000242265	7	94275637	94309007	58	12	53391	-0.91666	0.82034	PEG10		
ENSG00000113712	5	148861760	148941007	147	23	39496	-0.9168	0.82038	CSNK1A1		
ENSG00000170633	12	121827844	121878389	170	12	32244	-0.91711	0.82046	RNF34		
ENSG00000145545	5	6623456	6679675	240	32	50779	-0.91779	0.82064	SRD5A1		
ENSG00000128645	2	177043307	177065688	38	10	50342	-0.91798	0.82069	HOXD1		
ENSG00000186860	17	39461173	39481947	83	10	50494	-0.91809	0.82072	KRTAP17-1		
ENSG00000239388	3	57292375	57336710	96	15	40695	-0.91849	0.82082	ASB14		
ENSG00000204873	17	39378715	39399705	101	8	45992	-0.91852	0.82083	KRTAP9-3		
ENSG00000119986	10	99427181	99457080	115	18	44968	-0.91942	0.82106	AVPI1		
ENSG00000082293	6	70566463	70929679	1017	104	43944	-0.9195	0.82108	COL19A1		
ENSG00000215695	1	15976364	15998217	55	6	48137	-0.91972	0.82114	RSC1A1		
ENSG00000130768	1	28251504	28295668	157	19	40237	-0.91994	0.8212	SMPDL3B		
ENSG00000132854	1	62692651	62795085	443	55	45470	-0.91993	0.8212	KANK4		
ENSG00000145730	5	102079685	102376809	848	61	50175	-0.91995	0.8212	PAM		
ENSG00000153395	5	1446595	1534092	329	61	44136	-0.92095	0.82146	LPCAT1		
ENSG00000176907	8	40000989	40022821	58	13	38598	-0.92123	0.82154	C8orf4		
ENSG00000164830	8	107272473	107774922	1546	125	46085	-0.92125	0.82154	OXR1		
ENSG00000112110	6	160200844	160229468	137	11	48362	-0.92129	0.82155	MRPL18		
ENSG00000172410	1	67253424	67276939	81	14	47810	-0.92164	0.82164	INSL5		
ENSG00000185787	15	79092829	79200475	438	37	47993	-0.92174	0.82167	MORF4L1		
ENSG00000268948	19	58193868	58214128	56	15	50550	-0.92185	0.8217	AC004017.1		
ENSG00000049759	18	55701599	56078772	1345	152	47168	-0.92193	0.82172	NEDD4L		

ENSG00000146463	1	35724568	35897659	129	33	42908	-0.92213	0.82177	ZMYM4		
ENSG00000223524	8	86737543	86759570	3	1	43374	-0.92221	0.82179	REXO1L11P		
ENSG00000255940	8	86746718	86768745	3	1	43374	-0.92221	0.82179	REXO1L10P		
ENSG00000172238	4	94740042	94761221	62	14	42558	-0.92289	0.82197	ATOH1		
ENSG00000132846	5	76357897	76393148	102	22	44557	-0.92318	0.82204	ZBED3		
ENSG00000111581	12	69070514	69146785	205	29	47292	-0.92316	0.82204	NUP107		
ENSG00000104818	19	49525169	49546495	76	15	51956	-0.92327	0.82207	CGB2		
ENSG00000267941	7	65929543	65950709	64	10	52842	-0.92331	0.82208	AC008267.1		
ENSG00000179023	1	18797424	18822478	125	20	50127	-0.9236	0.82215	KLHDC7A		
ENSG00000163170	2	74352525	74385121	89	17	36169	-0.92362	0.82216	BOLA3		
ENSG00000172167	8	121447640	121564373	287	21	29791	-0.92365	0.82216	MTBP		
ENSG00000174953	3	153980335	154052286	144	18	44945	-0.92378	0.8222	DHX36		
ENSG00000111266	12	12618829	12725317	293	37	51305	-0.92386	0.82222	DUSP16		
ENSG00000170248	3	33829844	33921194	341	20	49272	-0.92423	0.82232	PDCD6IP		
ENSG00000130037	12	5143085	5165949	79	25	49396	-0.92426	0.82232	KCNA5		
ENSG00000125266	13	107132079	107197462	156	39	49047	-0.92478	0.82246	EFNB2		
ENSG00000249590	22	30795244	30834977	108	19	42693	-0.92492	0.8225	RP4-539M6.19		
ENSG00000138160	10	94343043	94425150	355	31	38361	-0.92566	0.82269	KIF11		
ENSG00000237440	19	20708631	20758615	337	21	51663	-0.92582	0.82273	ZNF737		
ENSG00000157542	21	38969678	39298749	1140	128	43652	-0.92608	0.8228	KCNJ6		
ENSG00000176386	9	116008115	116047869	142	27	43906	-0.92637	0.82287	CDC26		
ENSG00000087095	17	26358763	26533407	107	44	51138	-0.92686	0.823	NLK		
ENSG00000168418	16	84245823	84283356	169	36	43361	-0.9271	0.82306	KCNG4		
ENSG00000243489	21	46056331	46077564	118	17	48455	-0.92742	0.82314	KRTAP10-11		
ENSG00000153898	1	85381268	85472796	369	32	51547	-0.92758	0.82319	MCOLN2		
ENSG00000185972	9	36159389	36181329	86	11	46327	-0.92762	0.8232	CCIN		
ENSG00000260240	16	59733897	59798752	210	35	49394	-0.92763	0.8232	RP11-105C20.2		
ENSG00000175110	3	138714648	139086065	907	93	43745	-0.92807	0.82331	MRPS22		
ENSG00000198000	9	95049640	95097918	110	13	46018	-0.92842	0.8234	NOL8		
ENSG00000203685	1	226726501	226806915	254	44	49883	-0.92847	0.82342	C1orf95		
ENSG00000110484	11	62027627	62050628	67	10	40549	-0.92858	0.82345	SCGB2A2		
ENSG00000184489	8	142392093	142451620	197	33	43572	-0.92886	0.82352	PTP4A3		
ENSG00000120254	6	151176685	151433023	1185	115	45170	-0.92963	0.82372	MTHFD1L		
ENSG00000158691	6	28336732	28377511	175	16	45008	-0.92995	0.8238	ZSCAN12		
ENSG00000167676	19	4492204	4527716	124	30	43636	-0.92996	0.8238	PLIN4		
ENSG00000174339	5	180156042	180177099	70	19	40747	-0.93022	0.82387	OR2Y1		

ENSG00000163501	2	219909142	219935189	84	12	45541	-0.93031	0.82389	IHH		
ENSG00000150477	18	34399069	34822135	891	41	31963	-0.93033	0.8239	KIAA1328		
ENSG00000182551	2	3491132	3533507	122	24	43528	-0.93041	0.82392	ADI1		
ENSG00000112902	5	9025138	9556187	1857	237	45427	-0.93043	0.82393	SEMA5A		
ENSG00000182218	14	100101447	100156906	171	28	49236	-0.93116	0.82411	HHIPL1		
ENSG00000136895	9	129976544	130165939	333	40	49390	-0.93137	0.82417	GARNL3		
ENSG00000095596	10	94823232	94847647	61	18	41675	-0.93345	0.82471	CYP26A1		
ENSG00000178175	5	71728479	71813554	223	24	52534	-0.93421	0.8249	ZNF366		
ENSG00000148459	10	26976588	27045727	293	28	45497	-0.93431	0.82493	PDSS1		
ENSG00000123352	12	49750367	49931205	431	32	41339	-0.9343	0.82493	SPATS2		
ENSG00000130724	19	59052933	59076491	50	14	37353	-0.93547	0.82523	CHMP2A		
ENSG00000188290	1	924342	945552	91	16	39357	-0.93594	0.82535	HES4		
ENSG00000179151	15	74912899	74998633	85	17	36412	-0.93602	0.82537	EDC3		
ENSG00000111358	12	124108375	124157153	150	20	31965	-0.93623	0.82542	GTF2H3		
ENSG00000250317	4	25853452	25941435	264	47	48328	-0.93689	0.82559	SMIM20		
ENSG00000183960	3	19179946	19587138	648	98	47345	-0.937	0.82562	KCNH8		
ENSG00000132932	13	25936209	26609989	2318	208	42425	-0.93709	0.82564	ATP8A2		
ENSG00000269267	5	60401538	60421762	64	13	52029	-0.93722	0.82568	AC008498.1		
ENSG00000165837	13	46098657	46199874	287	44	38011	-0.93728	0.82569	FAM194B		
ENSG00000122692	9	33031762	33086665	206	24	51819	-0.9376	0.82577	SMU1		
ENSG00000215193	22	18550689	18623905	239	52	45393	-0.93765	0.82579	PEX26		
ENSG00000042445	2	85559211	85591743	86	18	39871	-0.93815	0.82592	RETSAT		
ENSG00000179826	11	18132502	18170027	116	18	46150	-0.93829	0.82595	MRGPRX3		
ENSG00000140379	15	80243231	80273788	61	10	48676	-0.93841	0.82598	BCL2A1		
ENSG00000273259	14	95048395	95100983	260	47	40957	-0.93856	0.82602	RP11-986E7.7		
ENSG00000268279	3	14166717	14199548	87	20	49455	-0.93874	0.82607	RP11-434D12.1		
ENSG00000118181	11	118876422	118899401	88	10	54468	-0.93876	0.82607	RPS25		
ENSG00000006576	7	77418122	77596818	457	42	41528	-0.93908	0.82616	PHTF2		
ENSG00000036828	3	121892530	122015342	505	48	46572	-0.93928	0.82621	CASR		
ENSG00000181830	11	45815623	45844566	88	24	41762	-0.9393	0.82621	SLC35C1		
ENSG00000169248	4	76944835	76972568	253	6	52565	-0.93969	0.82631	CXCL11		
ENSG00000166012	11	93453114	93527557	191	17	33299	-0.9397	0.82631	TAF1D		
ENSG00000009724	1	11076580	11117290	85	15	39189	-0.93984	0.82635	MASP2		
ENSG00000141429	18	33151081	33301798	510	30	50390	-0.94038	0.82649	GALNT1		
ENSG00000268141	1	154575067	154595190	50	7	50421	-0.94047	0.82651	AL606500.1		
ENSG00000151116	11	18541156	18620294	261	29	51330	-0.94074	0.82658	UEVLD		

ENSG00000168246	5	171626644	171721075	331	21	50779	-0.94118	0.82669	UBTD2		
ENSG00000158292	1	6297406	6331035	99	18	41911	-0.94138	0.82674	GPR153		
ENSG00000143297	1	157473167	157532310	207	21	36853	-0.94149	0.82677	FCRL5		
ENSG00000114405	3	62294648	62331888	52	21	49906	-0.94164	0.82681	C3orf14		
ENSG00000175868	11	14916543	15113888	383	22	42295	-0.94166	0.82682	CALCB		
ENSG00000197705	18	30242634	30363025	316	27	46507	-0.94224	0.82697	KLHL14		
ENSG00000132563	5	137764706	137792658	78	16	46319	-0.94284	0.82712	REEP2		
ENSG00000139737	13	78262023	78348377	229	36	45411	-0.94289	0.82713	SLAIN1		
ENSG00000164458	6	166561144	166592188	191	23	46157	-0.94296	0.82715	T		
ENSG00000108255	17	27563881	27591512	77	16	46550	-0.9432	0.82721	CRYBA1		
ENSG00000166913	20	43504317	43547173	102	10	54386	-0.94326	0.82723	YWHAB		
ENSG00000169902	7	65660186	65895530	543	30	50946	-0.9437	0.82734	TPST1		
ENSG00000134897	13	103441399	103503885	195	24	47202	-0.94391	0.82739	BIVM		
ENSG00000105679	19	36014314	36046218	105	20	48788	-0.94458	0.82756	GAPDHS		
ENSG00000135336	6	88289839	88387169	291	30	53763	-0.94497	0.82766	ORC3		
ENSG00000167658	19	3966054	3995467	74	28	50469	-0.94537	0.82776	EEF2		
ENSG00000156959	3	9533481	9605486	264	28	47777	-0.94556	0.82781	LHFPL4		
ENSG00000163421	3	71810807	71844357	90	26	41728	-0.94555	0.82781	PROK2		
ENSG00000213297	19	12232932	12277546	95	16	43708	-0.94562	0.82783	ZNF625-ZNF20		
ENSG00000143753	1	224353458	224391143	135	18	43580	-0.94586	0.82789	DEGS1		
ENSG00000139292	12	71823550	71990090	640	49	49593	-0.94608	0.82795	LGR5		
ENSG00000204709	6	28901654	28922314	106	20	38452	-0.94621	0.82798	C6orf100		
ENSG00000188778	8	37810516	37834483	38	7	51507	-0.94663	0.82809	ADRB3		
ENSG00000183291	1	87318132	87390107	206	16	36517	-0.94709	0.8282	Sep-15		
ENSG00000168763	2	97471982	97509648	49	11	34999	-0.94707	0.8282	CNNM3		
ENSG00000172404	22	41245553	41268130	33	13	39790	-0.94753	0.82831	DNAJB7		
ENSG00000178597	4	7422022	7446700	173	41	49153	-0.94756	0.82832	PSAPL1		
ENSG00000092978	1	217590334	217814424	683	88	43810	-0.9476	0.82833	GPATCH2		
ENSG00000259288	15	40499629	40578597	162	51	42352	-0.94761	0.82833	RP11-133K1.2		
ENSG00000266086	17	56056399	56092614	77	13	49530	-0.94761	0.82834	RP11-159D12.5		
ENSG00000181315	6	26626518	26669980	141	15	50684	-0.94766	0.82835	ZNF322		
ENSG00000089248	12	112441120	112471255	46	6	32760	-0.94843	0.82854	ERP29		
ENSG00000165868	10	118420703	118512085	342	38	50444	-0.94875	0.82863	HSPA12A		
ENSG00000162066	16	2560358	2591423	26	18	51854	-0.9489	0.82866	AMDHD2		
ENSG00000167470	19	1238552	1269142	57	29	46239	-0.94919	0.82874	MIDN		
ENSG00000169783	15	77895369	78123242	770	84	42457	-0.94923	0.82875	LINGO1		

ENSG00000158470	20	48239482	48340415	283	24	55183	-0.94948	0.82881	B4GALT5		
ENSG00000100302	22	35926915	35960048	85	19	45129	-0.94967	0.82886	RASD2		
ENSG00000162909	1	223879295	223973720	306	36	36542	-0.94972	0.82887	CAPN2		
ENSG00000080823	14	102680837	102781537	299	31	45023	-0.94972	0.82887	MOK		
ENSG00000108813	17	48036334	48062321	68	21	48987	-0.94995	0.82893	DLX4		
ENSG00000185055	7	105195567	105251322	145	29	42364	-0.95033	0.82903	EFCAB10		
ENSG00000187553	10	94811021	94838454	61	14	34382	-0.95071	0.82912	CYP26C1		
ENSG00000006042	17	31244928	31282124	139	24	48568	-0.95069	0.82912	TMEM98		
ENSG00000105419	19	47896381	47932780	104	31	43242	-0.95077	0.82914	MEIS3		
ENSG00000261567	16	85381069	85403055	84	21	52006	-0.95088	0.82917	RP11-680G10.1		
ENSG00000051382	3	138362860	138563780	312	17	44132	-0.95099	0.82919	PIK3CB		
ENSG00000165490	11	82601017	82679319	223	25	48909	-0.95108	0.82922	C11orf82		
ENSG00000108679	17	76957320	76986191	93	30	45497	-0.95162	0.82936	LGALS3BP		
ENSG00000118200	1	200698686	200839832	397	36	41196	-0.95213	0.82948	CAMSAP2		
ENSG00000163071	4	52907497	52973458	143	17	29195	-0.95245	0.82957	SPATA18		
ENSG00000124786	6	8403301	8445794	196	19	40139	-0.95252	0.82958	SLC35B3		
ENSG00000141337	17	66245323	66428872	523	103	42887	-0.95258	0.8296	ARSG		
ENSG00000115008	2	113521492	113552167	91	8	51554	-0.9529	0.82968	IL1A		
ENSG00000140263	15	45305302	45379383	171	29	42704	-0.95314	0.82974	SORD		
ENSG00000163599	2	204722509	204748683	55	10	53948	-0.9533	0.82978	CTLA4		
ENSG00000111707	12	118804185	118865840	169	17	51551	-0.95353	0.82984	SUDS3		
ENSG00000127955	7	79753271	79858718	308	49	48634	-0.95424	0.83002	GNAI1		
ENSG00000111554	12	68656223	68736161	188	35	49088	-0.9546	0.83011	MDM1		
ENSG00000133048	1	203138059	203165877	88	22	36311	-0.9549	0.83019	CHI3L1		
ENSG00000257949	17	73965301	74006667	144	24	49258	-0.95496	0.8302	TEN1		
ENSG00000182446	17	79513913	79625495	598	39	39803	-0.95505	0.83022	NPLOC4		
ENSG00000089094	12	121856900	122028920	371	45	36086	-0.95614	0.8305	KDM2B		
ENSG00000123977	2	228725770	228799060	344	25	53441	-0.95637	0.83056	DAW1		
ENSG00000130921	12	123707463	123752506	175	15	37438	-0.95676	0.83066	C12orf65		
ENSG00000143157	1	166798681	166835581	101	11	53777	-0.95704	0.83073	POGK		
ENSG00000136943	9	99784940	99811925	43	6	29477	-0.95759	0.83086	CTSV		
ENSG00000129197	17	5312961	5346196	152	14	26764	-0.95918	0.83127	RPAIN		
ENSG00000152234	18	43654110	43694300	177	16	45945	-0.95934	0.83131	ATP5A1		
ENSG00000168386	3	99538985	99843357	462	39	53708	-0.95939	0.83132	FILIP1L		
ENSG00000248993	6	32895141	32930899	213	32	50575	-0.9598	0.83142	XXbac-BPG181M17.5		
ENSG00000269185	7	108530389	108550655	99	9	51439	-0.95988	0.83144	FLJ00325		

ENSG00000173272	2	132212473	132260316	238	13	21060	-0.95995	0.83146	MZT2A		
ENSG00000115761	2	10700892	10840101	657	28	29256	-0.95998	0.83147	NOL10		
ENSG00000145491	5	10431636	10482141	64	19	34833	-0.96029	0.83155	ROPN1L		
ENSG00000197302	16	31714550	31816190	216	16	34795	-0.96065	0.83164	ZNF720		
ENSG00000140548	15	90534624	90635438	239	49	39125	-0.96069	0.83165	ZNF710		
ENSG00000215790	1	1646277	1687431	34	21	42068	-0.96126	0.83179	SLC35E2		
ENSG00000163510	2	180799603	180881840	259	22	52755	-0.96142	0.83183	CWC22		
ENSG00000213240	1	145199119	145301972	6	4	38135	-0.96158	0.83187	NOTCH2NL		
ENSG00000160318	19	51860352	51882257	66	16	35889	-0.96171	0.8319	CLDND2		
ENSG00000110665	11	2306875	2334279	122	25	43232	-0.96197	0.83197	C11orf21		
ENSG00000154174	3	100072275	100130242	108	18	39749	-0.9621	0.832	TOMM70A		
ENSG00000158417	2	99943816	100027789	235	22	50837	-0.96253	0.83211	EIF5B		
ENSG00000042088	14	90411283	90521106	291	25	27628	-0.9627	0.83215	TDP1		
ENSG00000204316	17	73884724	73915899	78	16	39974	-0.96356	0.83237	MRPL38		
ENSG00000240240	9	42399989	42484239	1	1	42793	-0.96369	0.8324	RP11-146D12.2		
ENSG00000058729	5	96486571	96528964	162	27	45399	-0.96422	0.83253	RIOK2		
ENSG00000178358	11	6932205	6953264	112	9	33049	-0.96461	0.83263	OR2D3		
ENSG00000186971	21	31792572	31813216	57	6	55730	-0.96465	0.83264	KRTAP13-4		
ENSG00000023697	12	16054106	16200220	241	43	46709	-0.96472	0.83266	DERA		
ENSG00000048707	1	12280124	12582099	657	44	43641	-0.96477	0.83267	VPS13D		
ENSG00000108559	17	5254258	5333480	375	19	27579	-0.96573	0.83291	NUP88		
ENSG00000072778	17	7110444	7138592	43	10	49579	-0.96585	0.83294	ACADVL		
ENSG00000115109	2	120760581	120946695	392	23	39255	-0.9659	0.83295	EPB41L5		
ENSG00000160200	21	44463301	44507053	129	29	43669	-0.96594	0.83296	CBS		
ENSG00000104763	8	17903934	17952494	317	35	47297	-0.96608	0.833	ASAH1		
ENSG00000124784	6	7379729	7428270	171	18	36462	-0.96716	0.83327	RIOK1		
ENSG00000186017	19	36926021	36990804	205	20	53804	-0.96716	0.83327	ZNF566		
ENSG00000146909	7	156732417	156775876	322	27	54479	-0.96737	0.83332	NOM1		
ENSG00000126522	7	65530785	65568545	109	14	45107	-0.96779	0.83342	ASL		
ENSG00000234237	1	180931695	180959868	87	12	50962	-0.96784	0.83344	AL162431.1		
ENSG00000154258	17	66960629	67067205	258	32	35771	-0.96803	0.83349	ABCA9		
ENSG00000173728	1	244505937	244562965	228	38	45927	-0.96818	0.83352	C1orf100		
ENSG00000094914	12	53691240	53728648	56	12	39694	-0.96872	0.83366	AAAS		
ENSG00000100300	22	43537520	43569248	93	18	38147	-0.96958	0.83387	TSPO		
ENSG00000172269	11	118957213	118989041	75	12	33126	-0.96961	0.83388	DPAGT1		
ENSG00000163608	3	112711287	112748708	79	21	40528	-0.96977	0.83392	C3orf17		

ENSG00000177666	11	808902	835573	86	21	35827	-0.97116	0.83427	PNPLA2		
ENSG00000115665	2	108592979	108640450	133	33	50660	-0.97147	0.83434	SLC5A7		
ENSG00000113790	3	184898412	185009778	217	26	33169	-0.97191	0.83445	EHHADH		
ENSG00000111276	12	12857992	12885305	70	14	47902	-0.9722	0.83452	CDKN1B		
ENSG00000162512	1	31332314	31391608	162	46	46443	-0.97247	0.83459	SDC3		
ENSG00000120563	10	29567990	29617257	286	42	51291	-0.97253	0.83461	LYZL1		
ENSG00000129187	4	183801213	183849089	237	35	45096	-0.97321	0.83477	DCTD		
ENSG00000174238	17	1411012	1476110	241	32	50601	-0.97327	0.83479	PITPNA		
ENSG00000184792	22	31079769	31313811	729	96	47986	-0.97352	0.83485	OSBP2		
ENSG00000188343	8	94700789	94753755	104	19	55235	-0.97448	0.83509	FAM92A1		
ENSG00000184254	15	101407919	101466831	123	24	39256	-0.9747	0.83514	ALDH1A3		
ENSG00000137843	15	40499629	40579688	163	51	42445	-0.97574	0.8354	PAK6		
ENSG00000163607	3	112699765	112743907	105	25	40338	-0.97587	0.83544	GTPBP8		
ENSG00000170498	1	204149469	204175614	95	19	48690	-0.97598	0.83546	KISS1		
ENSG00000267335	19	49516210	49550152	136	22	49389	-0.97637	0.83556	CTB-60B18.6		
ENSG00000162368	1	47789469	47854511	183	18	38463	-0.9768	0.83567	CMPK1		
ENSG00000245017	12	98869322	98907633	130	23	45958	-0.97728	0.83578	RP11-181C3.1		
ENSG00000187730	1	1940780	1972192	82	16	44807	-0.9781	0.83599	GABRD		
ENSG00000163743	4	76394247	76449974	146	17	51394	-0.97838	0.83606	RCHY1		
ENSG00000226209	10	13340145	13360447	103	19	46552	-0.97845	0.83607	AL138764.1		
ENSG00000075790	7	107210422	107279615	108	17	52582	-0.97872	0.83614	BCAP29		
ENSG00000123094	12	26101962	26242825	652	67	49177	-0.97879	0.83616	RASSF8		
ENSG00000213077	17	18417880	18440160	2	1	42944	-0.97937	0.8363	FAM106A		
ENSG00000123360	12	54933134	54983023	124	36	45036	-0.98042	0.83656	PDE1B		
ENSG00000090924	19	39893225	39929054	86	19	41541	-0.98059	0.8366	PLEKHG2		
ENSG00000105825	7	93504709	93530303	105	9	31938	-0.98137	0.8368	TFPI2		
ENSG00000170852	7	32897784	32943743	111	13	37378	-0.98172	0.83688	KBTBD2		
ENSG00000125755	19	46308668	46376548	284	20	52047	-0.98188	0.83692	SYMPK		
ENSG00000157851	2	27060615	27183219	255	20	48134	-0.98239	0.83705	DPYSL5		
ENSG00000176102	11	33088734	33193917	339	29	40959	-0.98293	0.83718	CSTF3		
ENSG00000240542	17	39334697	39356891	92	7	54281	-0.98349	0.83732	KRTAP9-1		
ENSG00000100399	22	41615517	41646938	63	13	45124	-0.98348	0.83732	CHADL		
ENSG00000197312	1	15933995	16005539	193	11	47044	-0.98368	0.83736	DDI2		
ENSG00000138279	10	75124859	75183834	112	7	24197	-0.98421	0.83749	ANXA7		
ENSG00000104967	19	46426992	46486804	128	33	47857	-0.98437	0.83753	NOVA2		
ENSG00000177868	1	43262723	43292954	80	16	54713	-0.98441	0.83754	CCDC23		

ENSG00000198369	2	65527985	65669771	444	44	33744	-0.98498	0.83768	SPRED2		
ENSG00000156265	21	30439792	30558210	439	38	44688	-0.98501	0.83769	MAP3K7CL		
ENSG00000142684	1	26486362	26508551	70	13	38041	-0.98505	0.8377	ZNF593		
ENSG00000171119	19	5813813	5838335	111	20	39225	-0.98541	0.83779	NRTN		
ENSG00000141858	19	14188652	14211848	32	14	48054	-0.98559	0.83783	SAMD1		
ENSG00000163114	4	96751239	96772625	111	12	49415	-0.98611	0.83796	PDHA2		
ENSG00000231274	19	56042023	56066909	129	34	42656	-0.98614	0.83797	SBK3		
ENSG00000127903	19	57164020	57193151	141	23	41107	-0.98632	0.83801	ZNF835		
ENSG00000169344	16	20334374	20377623	144	28	39935	-0.98663	0.83809	UMOD		
ENSG00000156876	1	100539119	100608511	208	26	36152	-0.9871	0.8382	SASS6		
ENSG00000111199	12	110210890	110281212	221	42	48662	-0.98708	0.8382	TRPV4		
ENSG00000187833	2	74001316	74054274	32	8	42182	-0.98734	0.83826	C2orf78		
ENSG00000100003	22	30782846	30831305	140	23	43420	-0.98745	0.83829	SEC14L2		
ENSG00000180332	13	45756988	45785175	58	9	42803	-0.9875	0.8383	KCTD4		
ENSG00000138463	3	122503642	122609986	280	32	42695	-0.9879	0.8384	DIRC2		
ENSG00000186105	5	61864562	61887275	35	10	48700	-0.98815	0.83846	LRRC70		
ENSG00000198331	11	125743509	125780543	136	19	44553	-0.98847	0.83854	HYLS1		
ENSG00000064787	20	52543316	52697304	748	90	46095	-0.98853	0.83855	BCAS1		
ENSG00000155282	9	67958793	67997998	1	1	42758	-0.98913	0.8387	RP11-195B21.3		
ENSG00000169914	1	20199006	20249438	163	26	54465	-0.98928	0.83874	OTUD3		
ENSG00000203877	6	84552985	84577234	36	7	32296	-0.98933	0.83875	RIPPLY2		
ENSG00000148153	9	115436206	115490516	140	25	45648	-0.99012	0.83894	INIP		
ENSG00000105875	7	134858590	134906316	143	9	53125	-0.99029	0.83898	WDR91		
ENSG00000099999	22	30763835	30827760	195	27	46270	-0.99031	0.83899	RNF215		
ENSG00000109321	4	75300851	75330726	35	11	36644	-0.99045	0.83902	AREG		
ENSG00000269490	6	33653196	33673474	101	11	27845	-0.99056	0.83905	SBP1		
ENSG00000166326	11	35674353	35839775	238	43	46932	-0.9916	0.8393	TRIM44		
ENSG00000204503	1	13318196	13341692	6	2	42825	-0.99185	0.83936	PRAMEF3		
ENSG00000181061	3	42788669	42856023	142	23	50669	-0.99185	0.83936	HIGD1A		
ENSG00000164778	7	155240824	155267526	101	28	47481	-0.99231	0.83948	EN2		
ENSG00000168614	1	144801744	144840413	2	1	42648	-0.99239	0.8395	NBPF9		
ENSG00000146842	7	129794555	129857610	162	25	49584	-0.99243	0.83951	TMEM209		
ENSG00000198090	17	39285685	39306739	57	12	34385	-0.99306	0.83966	KRTAP4-6		
ENSG00000143228	1	163226366	163335554	564	53	52316	-0.99315	0.83968	NUF2		
ENSG00000255663	11	114261404	114324654	227	28	47886	-0.99322	0.8397	RP11-212D19.4		
ENSG00000114315	3	193843934	193866521	71	16	49004	-0.99339	0.83974	HES1		

ENSG00000078902	11	1285601	1340884	199	31	50549	-0.99361	0.83979	TOLLIP		
ENSG00000224997	14	104167607	104189149	43	12	49544	-0.99384	0.83985	AL049840.1		
ENSG00000156006	8	18238755	18268728	219	20	50364	-0.99396	0.83988	NAT2		
ENSG00000136881	9	104112699	104155801	162	11	52095	-0.99406	0.8399	BAAT		
ENSG00000135404	12	56109107	56133491	37	15	38788	-0.99452	0.84001	CD63		
ENSG00000267631	19	49528831	49562006	130	30	49062	-0.99467	0.84005	CGB1		
ENSG00000095564	10	93673526	93800082	268	22	31847	-0.99646	0.84049	BTAF1		
ENSG00000136750	10	26495236	26603487	367	27	42126	-0.9966	0.84052	GAD2		
ENSG00000113013	5	137880571	137921133	84	13	44166	-0.99683	0.84058	HSPA9		
ENSG00000169599	2	69612882	69674760	166	13	38806	-0.99695	0.84061	NFU1		
ENSG00000114113	3	139161726	139209589	127	14	26801	-0.99704	0.84063	RBP2		
ENSG00000227921	9	40018620	40042417	2	1	42892	-0.99708	0.84064	AL353791.1		
ENSG00000186352	4	186307175	186331782	73	13	33589	-0.99724	0.84068	ANKRD37		
ENSG00000008311	7	121705701	121794334	192	25	46709	-0.9975	0.84074	AASS		
ENSG00000257743	7	141801549	141932124	399	67	48536	-0.99751	0.84074	RP11-1220K2.2		
ENSG00000047365	4	35939843	36256131	997	122	46871	-0.99753	0.84075	ARAP2		
ENSG00000189114	19	45672003	45695059	81	19	49196	-0.99763	0.84077	BLOC1S3		
ENSG00000181026	15	89154527	89185513	112	21	40933	-0.99882	0.84106	AEN		
ENSG00000170113	15	23033277	23110005	109	32	45192	-0.9991	0.84113	NIPA1		
ENSG00000042286	10	71847979	71902690	205	47	39749	-0.99924	0.84116	AIFM2		
ENSG00000123453	9	136518682	136615077	358	62	44084	-1.0003	0.84143	SARDH		
ENSG00000094661	19	15187791	15209032	122	22	39759	-1.0008	0.84155	OR1I1		
ENSG00000105137	19	15208214	15235799	80	18	46060	-1.001	0.8416	SYDE1		
ENSG00000134884	13	107184021	107230512	76	14	51264	-1.0012	0.84165	ARGLU1		
ENSG00000133878	8	33438856	33467624	70	12	48679	-1.0013	0.84167	DUSP26		
ENSG00000179041	8	67331263	67352966	81	18	36557	-1.0013	0.84167	RRS1		
ENSG00000181396	17	80337099	80386513	191	25	45691	-1.0015	0.84171	OGFOD3		
ENSG00000108256	17	27572854	27631136	166	21	45311	-1.0017	0.84176	NUFIP2		
ENSG00000101346	20	30785683	30836470	58	11	36685	-1.0019	0.8418	POFUT1		
ENSG00000176624	18	48690920	48754674	161	14	36050	-1.0019	0.84181	MEX3C		
ENSG00000188266	15	78789906	78839714	142	13	34383	-1.0021	0.84185	HYKK		
ENSG00000061676	2	183763843	183913586	410	42	43431	-1.0021	0.84186	NCKAP1		
ENSG00000138769	4	76493215	76565900	189	17	37288	-1.0031	0.84211	CDKL2		
ENSG00000242715	13	36791182	36881977	487	12	55154	-1.0034	0.84216	CCDC169		
ENSG00000268838	15	78820023	78841288	73	6	29759	-1.0039	0.84228	AC027228.1		
ENSG00000007541	16	606995	644136	138	13	50667	-1.0039	0.84228	PIGQ		

ENSG00000188811	13	39602443	39634246	68	12	42912	-1.0041	0.84233	NHLRC3		
ENSG00000167088	18	19182228	19220417	52	9	31546	-1.0043	0.84238	SNRPD1		
ENSG00000163132	4	4851393	4875663	113	30	46082	-1.0048	0.84251	MSX1		
ENSG00000127530	19	14899958	14921023	80	14	56489	-1.0049	0.84253	OR7C1		
ENSG00000136240	7	6475584	6533873	201	34	41160	-1.005	0.84255	KDELR2		
ENSG00000125498	19	55271263	55305774	30	15	33700	-1.0053	0.84262	KIR2DL1		
ENSG00000164532	7	35232042	35303758	237	14	52582	-1.0059	0.84276	TBX20		
ENSG00000038945	8	15955387	16434999	1778	141	35901	-1.0061	0.84283	MSR1		
ENSG00000146243	6	79567189	79666157	220	22	52580	-1.0069	0.84302	IRAK1BP1		
ENSG00000268402	6	143749575	143774295	84	5	54786	-1.0073	0.84311	AL031320.1		
ENSG00000147536	8	41376725	41412565	150	26	50809	-1.0082	0.84331	GINS4		
ENSG00000161850	12	52777715	52810139	156	23	40163	-1.0083	0.84333	KRT82		
ENSG00000174151	1	110026674	110055554	58	13	46645	-1.0087	0.84345	CYB561D1		
ENSG00000169925	9	136885427	136943657	252	23	44252	-1.0087	0.84345	BRD3		
ENSG00000212724	17	39205495	39226344	90	13	27247	-1.0088	0.84347	KRTAP2-3		
ENSG00000217236	2	175189674	175213220	71	19	35189	-1.0089	0.84348	SP9		
ENSG00000212998	8	94742349	94763001	45	5	55258	-1.0099	0.84373	RBM12B-AS1		
ENSG00000160932	8	144089399	144115249	81	16	38018	-1.0105	0.84388	LY6E		
ENSG00000169314	22	24095208	24118048	77	18	43679	-1.0108	0.84394	C22orf15		
ENSG00000254737	11	123876282	123897217	88	15	47734	-1.0111	0.84403	OR10G4		
ENSG00000138398	2	170430850	170507916	338	25	55460	-1.0114	0.84408	PPIG		
ENSG00000093010	22	19919130	19967498	227	41	46077	-1.0115	0.84412	COMT		
ENSG00000165219	9	128014073	128139486	218	17	45942	-1.012	0.84423	GAPVD1		
ENSG00000237452	19	46226509	46277792	81	15	51034	-1.012	0.84423	AC074212.3		
ENSG00000116560	1	35631979	35668749	17	8	31075	-1.0122	0.84428	SFPQ		
ENSG00000196832	14	20655495	20676605	108	31	53658	-1.0128	0.84443	OR11G2		
ENSG00000235109	6	28282470	28334048	186	29	33161	-1.0135	0.84459	ZSCAN31		
ENSG00000072201	4	54315468	54577572	988	114	47162	-1.0135	0.8446	LNK1		
ENSG00000197520	1	222900549	222934147	59	15	48774	-1.0141	0.84474	FAM177B		
ENSG00000163873	1	37251128	37509730	575	86	46743	-1.0143	0.84477	GRIK3		
ENSG00000177938	12	18881045	18902121	76	14	44222	-1.0145	0.84483	CAPZA3		
ENSG00000129749	11	3676817	3702614	92	19	41290	-1.0148	0.8449	CHRNA10		
ENSG00000175344	15	32312691	32474722	361	50	42369	-1.0157	0.84511	CHRNA7		
ENSG00000171490	16	11919056	11955442	110	17	31177	-1.0162	0.84524	RSL1D1		
ENSG00000142252	19	45572453	45604782	144	14	51985	-1.0163	0.84525	GEMIN7		
ENSG00000177807	1	159997257	160050038	119	25	47995	-1.017	0.84542	KCNJ10		

ENSG00000117650	1	211826114	211858960	111	21	50127	-1.017	0.84543	NEK2		
ENSG0000016602	1	87002761	87056437	142	29	49063	-1.018	0.84565	CLCA4		
ENSG00000159455	1	152637771	152669877	99	10	31449	-1.0181	0.84568	LCE2B		
ENSG00000166902	11	59563608	59588345	72	10	34063	-1.0188	0.84584	MRPL16		
ENSG00000099992	22	30677979	30733035	113	21	47298	-1.0191	0.84592	TBC1D10A		
ENSG00000184432	3	139064442	139118574	139	15	30683	-1.0196	0.84603	COPB2		
ENSG00000233434	9	67914791	67935210	6	2	42618	-1.0196	0.84604	BX649567.1		
ENSG00000121897	4	39450620	39489273	204	24	49864	-1.0204	0.84622	LIAS		
ENSG00000113318	5	79940467	80182279	809	49	50950	-1.0204	0.84624	MSH3		
ENSG00000137185	6	28182664	28211260	79	14	39664	-1.0205	0.84626	ZSCAN9		
ENSG00000100395	22	41591209	41637275	135	10	36841	-1.0217	0.84655	L3MBTL2		
ENSG00000154330	9	70933224	71155977	469	77	37908	-1.023	0.84684	PGM5		
ENSG00000170624	5	155287354	156204799	2911	208	46805	-1.023	0.84685	SGCD		
ENSG00000147687	8	125490726	125561699	175	25	44432	-1.023	0.84685	TATDN1		
ENSG00000142871	1	86036444	86059645	52	15	53856	-1.0232	0.84688	CYR61		
ENSG00000147889	9	21957751	22005300	89	21	46782	-1.0232	0.8469	CDKN2A		
ENSG00000165152	9	104225453	104305819	297	41	48030	-1.0236	0.847	TMEM246		
ENSG00000180011	18	72897063	72931303	126	17	47372	-1.0239	0.84706	ZADH2		
ENSG00000198125	22	35992811	36043998	196	25	39900	-1.024	0.84709	MB		
ENSG00000136827	9	132565223	132596413	134	11	53029	-1.0249	0.8473	TOR1A		
ENSG00000157617	21	43295221	43383999	379	97	47865	-1.025	0.84732	C2CD2		
ENSG00000115844	2	172954167	172977628	60	17	51219	-1.0253	0.8474	DLX2		
ENSG00000135903	2	223054607	223173715	399	55	50354	-1.0255	0.84743	PAX3		
ENSG00000137393	6	18358779	18479105	677	63	49938	-1.0257	0.84748	RNF144B		
ENSG00000105851	7	106495723	106557590	150	26	53491	-1.0264	0.84764	PIK3CG		
ENSG00000105649	19	18297594	18324884	78	14	50456	-1.0267	0.84772	RAB3A		
ENSG00000103355	16	2823954	2847949	26	7	44602	-1.027	0.84779	PRSS33		
ENSG00000259202	15	67425072	67449277	72	22	45333	-1.0279	0.84801	RP11-342M21.2		
ENSG00000108381	17	3365668	3416713	190	32	36490	-1.0281	0.84804	ASPA		
ENSG00000221886	5	159810155	159837104	77	12	53760	-1.0285	0.84814	C5orf54		
ENSG00000104299	8	28615178	28757759	260	33	42194	-1.0288	0.84822	INTS9		
ENSG00000165985	10	16545742	16574004	129	25	39354	-1.0291	0.84829	C1QL3		
ENSG00000104660	8	29942914	30044724	248	29	36625	-1.0296	0.8484	LEPROTL1		
ENSG00000122254	16	22815498	22937659	395	77	44035	-1.03	0.84849	HS3ST2		
ENSG00000138131	10	99997447	100038007	98	17	47251	-1.0303	0.84856	LOXL4		
ENSG00000155011	4	107832959	108214963	1073	132	48571	-1.0304	0.84859	DKK2		

ENSG00000179938	15	30365158	30395702	36	9	29099	-1.0308	0.84869	<i>GOLGA8J</i>		
ENSG00000141564	17	78508619	78950171	2002	121	45642	-1.0311	0.84876	<i>RPTOR</i>		
ENSG00000198324	12	111788455	111816925	40	9	28159	-1.0315	0.84884	<i>FAM109A</i>		
ENSG00000151304	5	121287656	121421265	282	26	51342	-1.0319	0.84895	<i>SRFBP1</i>		
ENSG00000166321	10	74860217	74901586	114	5	20888	-1.0321	0.84898	<i>NUDT13</i>		
ENSG00000113100	5	26870709	27131257	662	68	39661	-1.0325	0.84909	<i>CDH9</i>		
ENSG00000138315	10	74643339	74702791	47	18	41935	-1.0326	0.8491	<i>OIT3</i>		
ENSG00000111261	12	12472198	12513475	208	30	49546	-1.0331	0.84922	<i>MANSC1</i>		
ENSG00000183978	17	40937165	40960722	15	8	56457	-1.0341	0.84946	<i>COA3</i>		
ENSG00000162433	1	65603232	65707828	246	38	37115	-1.0347	0.84959	<i>AK4</i>		
ENSG00000174799	4	56805037	56909529	243	32	51924	-1.0349	0.84964	<i>CEP135</i>		
ENSG00000114767	3	51957446	51985957	41	16	42989	-1.0351	0.84968	<i>RRP9</i>		
ENSG00000114062	15	25572381	25694128	295	28	42717	-1.0356	0.84981	<i>UBE3A</i>		
ENSG00000171136	19	14128960	14151854	65	11	35552	-1.0357	0.84984	<i>RLN3</i>		
ENSG00000184313	1	55097463	55185939	326	58	48362	-1.0361	0.84993	<i>MROH7</i>		
ENSG00000134531	12	13339650	13379708	108	27	48979	-1.0364	0.84999	<i>EMP1</i>		
ENSG00000175646	16	11364693	11385207	97	16	45603	-1.0365	0.85001	<i>PRM1</i>		
ENSG00000124092	20	56061035	56110708	176	37	51350	-1.0369	0.8501	<i>CTCFL</i>		
ENSG00000196772	1	247968102	247989031	138	11	27232	-1.0382	0.85041	<i>OR14A16</i>		
ENSG00000171813	10	134200672	134241367	142	37	44310	-1.0382	0.85041	<i>PWWP2B</i>		
ENSG00000196588	22	40796285	41042706	496	29	53152	-1.0383	0.85044	<i>MKL1</i>		
ENSG00000129084	11	14505329	14675181	275	38	52455	-1.039	0.85059	<i>PSMA1</i>		
ENSG00000137288	6	33652070	33689504	178	15	29092	-1.0393	0.85066	<i>UQCC2</i>		
ENSG00000152592	4	88561459	88595513	109	15	50251	-1.0397	0.85076	<i>DMP1</i>		
ENSG00000213417	17	39211369	39232131	76	11	25363	-1.0397	0.85076	<i>KRTAP2-4</i>		
ENSG00000138821	4	103162198	103362415	722	68	42301	-1.0398	0.85078	<i>SLC39A8</i>		
ENSG00000185340	22	29692572	29718774	46	13	51727	-1.0398	0.85079	<i>GAS2L1</i>		
ENSG00000099284	10	71802552	71882036	289	47	44263	-1.0399	0.8508	<i>H2AFY2</i>		
ENSG00000161992	16	600422	625528	67	19	44722	-1.0402	0.85087	<i>C16orf11</i>		
ENSG00000184811	17	1172957	1214281	270	47	48328	-1.0402	0.85088	<i>TUSC5</i>		
ENSG00000141485	17	6578032	6626886	187	46	42302	-1.0405	0.85093	<i>SLC13A5</i>		
ENSG00000186635	11	72386114	72514644	360	41	48728	-1.0407	0.85099	<i>ARAP1</i>		
ENSG00000173391	12	10300902	10334737	152	17	31098	-1.0407	0.85099	<i>OLR1</i>		
ENSG00000142173	21	47508011	47562763	287	44	39965	-1.0411	0.85108	<i>COL6A2</i>		
ENSG00000206262	3	138656076	138682293	38	11	40311	-1.0414	0.85115	<i>C3orf72</i>		
ENSG00000152208	4	93215550	94705707	4365	244	45104	-1.0417	0.85122	<i>GRID2</i>		

ENSG00000204887	17	39175949	39196356	90	12	38142	-1.0418	0.85125	KRTAP1-4		
ENSG00000116748	1	115205719	115248239	114	25	49271	-1.0426	0.85142	AMPD1		
ENSG00000167685	19	56633968	56682262	160	25	37896	-1.0429	0.85149	ZNF444		
ENSG00000065615	6	84559362	84687143	195	20	35576	-1.0432	0.85157	CYB5R4		
ENSG00000130377	19	6125258	6203112	372	28	31862	-1.0441	0.85179	ACSBG2		
ENSG00000106436	7	101246605	101282576	150	30	47951	-1.0442	0.85181	MYL10		
ENSG00000094916	12	54614724	54683886	74	14	36640	-1.0447	0.85192	CBX5		
ENSG00000198876	9	34076385	34137397	235	23	50459	-1.0451	0.85201	DCAF12		
ENSG00000118473	1	66989066	67223982	904	61	35815	-1.0452	0.85204	SGIP1		
ENSG00000134202	1	110266554	110294384	73	17	35432	-1.046	0.85221	GSTM3		
ENSG00000116133	1	55305306	55362891	235	25	48605	-1.046	0.85223	DHCR24		
ENSG00000221855	7	143164966	143185889	71	15	55693	-1.046	0.85223	TAS2R41		
ENSG00000100652	14	70232134	70274006	92	11	44071	-1.0463	0.85229	SLC10A1		
ENSG00000143994	2	27336682	27363680	56	14	50171	-1.0469	0.85243	ABHD1		
ENSG00000149403	11	120372468	120869613	1488	193	44243	-1.0481	0.8527	GRIK4		
ENSG00000108839	17	6889384	6924055	107	13	50627	-1.0491	0.85294	ALOX12		
ENSG00000165325	11	93053137	93181653	464	37	46217	-1.0502	0.85318	CCDC67		
ENSG00000231925	6	33257471	33292164	71	14	33161	-1.0511	0.8534	TAPBP		
ENSG00000197706	12	55630982	55652086	62	5	44333	-1.0513	0.85344	OR6C74		
ENSG00000161671	19	50969657	50996608	89	19	39850	-1.0513	0.85344	EMC10		
ENSG00000221961	2	240971230	240992399	118	21	52080	-1.0514	0.85347	PRR21		
ENSG00000114107	3	138203186	138323380	206	16	43585	-1.0521	0.85362	CEP70		
ENSG00000197122	20	35963088	36044453	221	38	39571	-1.0522	0.85366	SRC		
ENSG00000165650	10	119030000	119144978	356	21	39031	-1.0529	0.8538	PDZD8		
ENSG00000115539	2	101169152	101203197	117	15	32984	-1.0534	0.85391	PDCL3		
ENSG00000137270	6	52981762	53023627	177	28	42979	-1.0534	0.85391	GCM1		
ENSG00000023041	10	114180058	114216672	70	20	45715	-1.0537	0.85399	ZDHHC6		
ENSG00000224226	17	34483061	34513996	9	6	34479	-1.0541	0.85407	TBC1D3B		
ENSG00000067533	1	218448629	218521325	131	15	41400	-1.0547	0.85422	RRP15		
ENSG00000077238	16	27314989	27386099	253	40	46956	-1.0547	0.85422	IL4R		
ENSG00000146858	7	138700452	138730775	133	10	47200	-1.0549	0.85427	ZC3HAV1L		
ENSG00000164400	5	131399483	131421859	48	10	28649	-1.0552	0.85434	CSF2		
ENSG00000178279	16	11351605	11373390	93	17	40511	-1.0552	0.85434	TNP2		
ENSG00000272442	6	44230931	44356694	378	58	43391	-1.0555	0.8544	RP11-444E17.6		
ENSG00000116353	1	29509385	29567454	174	23	34439	-1.0555	0.85441	MECR		
ENSG00000258881	2	71156448	71232466	261	62	45805	-1.0558	0.85448	AC007040.11		

ENSG00000050393	6	13776789	13824800	115	29	43344	-1.0562	0.85457	MCUR1		
ENSG00000185813	17	79848841	79879340	25	16	50290	-1.0573	0.85482	PCYT2		
ENSG00000166069	15	38204140	38269925	131	21	47924	-1.0577	0.85491	TMCO5A		
ENSG00000213859	17	7245208	7268258	44	19	44154	-1.0589	0.85517	KCTD11		
ENSG00000099860	19	2466120	2488257	96	28	50016	-1.059	0.85521	GADD45B		
ENSG00000236104	6	33272183	33295719	46	8	34154	-1.0591	0.85523	ZBTB22		
ENSG00000123407	12	54338618	54362740	52	13	47891	-1.0591	0.85523	HOXC12		
ENSG00000176136	18	13814154	13836861	159	17	44884	-1.0592	0.85524	MC5R		
ENSG00000204533	19	56652314	56673250	81	16	37429	-1.0597	0.85535	AC024580.1		
ENSG00000103274	16	10827643	10873208	139	18	42213	-1.0598	0.85538	NUBP1		
ENSG00000144285	2	166835670	166994523	547	49	47086	-1.0603	0.85549	SCN1A		
ENSG00000107295	9	17569080	17807127	1212	107	45642	-1.0605	0.85553	SH3GL2		
ENSG00000164442	6	139683393	139705757	69	16	43218	-1.0605	0.85555	CITED2		
ENSG00000164399	5	131386222	131408897	44	8	28031	-1.0609	0.85563	IL3		
ENSG00000197651	12	91289399	91358953	200	28	36489	-1.0609	0.85564	CCER1		
ENSG00000095397	9	117154360	117277730	418	47	45867	-1.0615	0.85578	DFNB31		
ENSG00000151806	4	44670444	44712943	101	10	36365	-1.0619	0.85585	GUF1		
ENSG00000049167	5	60159658	60250900	270	28	47282	-1.0619	0.85585	ERCC8		
ENSG00000273170	9	38530566	38587204	128	45	39582	-1.062	0.85589	ANKRD18A		
ENSG00000136868	9	115973808	116038674	231	30	46924	-1.0624	0.85597	SLC31A1		
ENSG00000099822	19	579893	627159	270	64	37688	-1.0627	0.85603	HCN2		
ENSG00000171316	8	61581337	61789465	481	46	40044	-1.0629	0.8561	CHD7		
ENSG00000041357	15	78822747	78851604	96	9	31710	-1.0631	0.85613	PSMA4		
ENSG00000213366	1	110200644	110262171	144	30	37056	-1.0639	0.85632	GSTM2		
ENSG00000133393	16	15949577	15992482	298	10	54022	-1.0643	0.8564	FOPNL		
ENSG00000101298	20	1236960	1299972	227	45	46893	-1.0645	0.85644	SNPH		
ENSG00000268434	19	46272695	46299231	43	11	50995	-1.0647	0.85649	AC011530.4		
ENSG00000152763	1	67268568	67400570	303	52	47749	-1.065	0.85656	WDR78		
ENSG00000214510	5	147637743	147675817	45	16	41668	-1.0654	0.85665	SPINK13		
ENSG00000135486	12	54663977	54690872	31	9	33903	-1.0664	0.85688	HNRNPA1		
ENSG00000127920	7	93541011	93567922	101	17	50877	-1.0665	0.8569	GNG11		
ENSG00000127588	16	838041	860733	127	28	38330	-1.0665	0.8569	GNG13		
ENSG00000134809	11	57285936	57308276	47	12	53790	-1.067	0.85701	TIMM10		
ENSG00000149294	11	112821997	113159158	1084	94	42998	-1.0671	0.85705	NCAM1		
ENSG00000111684	12	7075348	7135814	100	12	35122	-1.0672	0.85706	LPCAT3		
ENSG00000172062	5	70210768	70259769	4	2	35065	-1.0674	0.8571	SMN1		

ENSG00000165029	9	107533283	107700518	721	124	43824	-1.0678	0.85719	ABCA1		
ENSG00000174255	3	113943483	113966425	103	24	51153	-1.0688	0.85742	ZNF80		
ENSG00000168010	11	72515353	72564719	77	18	53240	-1.0699	0.85767	ATG16L2		
ENSG00000243678	17	49220920	49259108	148	24	49566	-1.0702	0.85774	NME1-NME2		
ENSG00000011052	17	49220951	49259105	148	24	49566	-1.0702	0.85774	NME2		
ENSG00000101220	20	3724155	3759034	126	38	50215	-1.0703	0.85776	C20orf27		
ENSG00000170647	11	100852811	100874663	99	23	45960	-1.0704	0.85778	TMEM133		
ENSG00000122912	10	70227756	70297231	312	28	37121	-1.0705	0.8578	SLC25A16		
ENSG00000152558	11	102257063	102351115	228	35	53318	-1.0705	0.8578	TMEM123		
ENSG00000159248	15	35033233	35057166	87	19	47006	-1.0707	0.85784	GJD2		
ENSG00000241127	7	39595975	39659919	230	33	41374	-1.0708	0.85787	YAE1D1		
ENSG00000122224	1	160755864	160808051	161	17	43214	-1.071	0.85791	LY9		
ENSG00000242247	22	43182508	43264112	298	23	48210	-1.0711	0.85793	ARFGAP3		
ENSG00000224877	17	79203039	79225081	80	19	35254	-1.0727	0.85829	C17orf89		
ENSG00000104904	19	2259485	2283487	98	16	24710	-1.0728	0.85831	OAZ1		
ENSG00000066735	14	104595060	104657231	260	55	47472	-1.0731	0.85839	KIF26A		
ENSG00000170364	3	4334988	4369251	93	19	29927	-1.0733	0.85843	SETMAR		
ENSG00000214285	10	129337613	129360935	195	20	36230	-1.0746	0.85873	NPS		
ENSG00000196805	1	153032700	153123927	275	31	32260	-1.0748	0.85876	SPRR2B		
ENSG00000128342	22	30626436	30652840	42	16	49560	-1.0749	0.85879	LIF		
ENSG00000170471	20	37091459	37217504	223	30	37050	-1.0751	0.85883	RALGAPB		
ENSG00000213281	1	115237090	115269515	48	13	48008	-1.0752	0.85885	NRAS		
ENSG00000132475	17	73762515	73791974	54	11	32375	-1.0753	0.85887	H3F3B		
ENSG00000121481	1	185004496	185081740	103	20	47438	-1.0757	0.85898	RNF2		
ENSG00000179869	7	48201055	48697092	2102	129	47481	-1.076	0.85903	ABCA13		
ENSG00000100206	22	38904954	38976291	127	24	42103	-1.0764	0.85913	DMC1		
ENSG00000173335	20	23573047	23596513	77	7	43091	-1.0767	0.8592	CST9		
ENSG00000060982	12	24954295	25112393	690	93	48851	-1.077	0.85925	BCAT1		
ENSG00000184470	22	19853040	19939341	415	55	45377	-1.0773	0.85934	TXNRD2		
ENSG00000108950	17	66521254	66607530	227	45	53298	-1.0777	0.85941	FAM20A		
ENSG00000139648	12	52927693	52956931	130	24	37727	-1.0778	0.85945	KRT71		
ENSG00000135917	2	228539926	228592728	240	29	36570	-1.0779	0.85947	SLC19A3		
ENSG00000124140	20	44640356	44698784	190	25	49322	-1.0781	0.85952	SLC12A5		
ENSG00000173124	10	96943957	96998685	210	16	43104	-1.0789	0.85968	C10orf129		
ENSG00000060140	12	10761538	10836917	220	21	46849	-1.079	0.85972	STYK1		
ENSG00000105647	19	18253928	18291350	101	20	51665	-1.0791	0.85973	PIK3R2		

ENSG00000072041	12	85243492	85317394	137	20	41242	-1.0792	0.85975	SLC6A15		
ENSG00000163166	2	128183783	128294462	310	36	41698	-1.0794	0.85979	IWS1		
ENSG00000144677	3	37893451	38035960	357	47	48032	-1.0794	0.8598	CTDSPL		
ENSG00000136247	7	6607065	6639005	106	15	49301	-1.0798	0.85988	ZDHH4		
ENSG00000186111	19	3620181	3710477	275	47	45952	-1.0799	0.85991	PIP5K1C		
ENSG00000001461	1	24732284	24809466	226	26	47085	-1.0805	0.86004	NIPAL3		
ENSG00000204704	6	29001990	29023017	108	15	39289	-1.0808	0.86011	OR2W1		
ENSG00000122068	3	197454050	197524467	156	24	40063	-1.0808	0.86012	FYTTD1		
ENSG00000196873	9	70846397	70924929	2	1	49271	-1.0815	0.86025	CBWD3		
ENSG00000106404	7	100865373	100892101	60	11	44755	-1.0819	0.86036	CLDN15		
ENSG00000105968	7	44856390	44897682	88	18	38783	-1.082	0.86037	H2AFV		
ENSG00000171561	11	74789758	74810799	42	10	45316	-1.0826	0.86051	OR2AT4		
ENSG00000111696	12	104154231	104244975	456	37	45066	-1.0827	0.86053	NT5DC3		
ENSG00000123095	12	26262959	26288060	60	16	46775	-1.0832	0.86064	BHLHE41		
ENSG00000142192	21	27242861	27553446	898	120	41152	-1.0832	0.86064	APP		
ENSG00000171487	19	56501092	56583179	657	113	48750	-1.0837	0.86076	NLRP5		
ENSG00000187257	7	77315760	77422339	327	28	37091	-1.0843	0.86088	RSBN1L		
ENSG00000127990	7	94204542	94295521	146	18	52182	-1.0846	0.86095	SGCE		
ENSG00000108479	17	73737675	73771792	72	26	41607	-1.0846	0.86096	GALK1		
ENSG00000188997	11	77872295	77909868	85	18	50393	-1.0848	0.861	KCTD21		
ENSG00000268173	19	18253968	18298927	120	23	51314	-1.0849	0.86102	PIK3R2		
ENSG00000029725	17	5175558	5299129	513	46	37274	-1.085	0.86104	RABEP1		
ENSG00000186306	1	158358312	158379256	118	23	44076	-1.0854	0.86114	OR10T2		
ENSG00000119125	9	74719511	74882109	545	53	46711	-1.0857	0.86118	GDA		
ENSG00000197461	7	526895	569933	165	33	43843	-1.0869	0.86147	PDGFA		
ENSG00000204306	11	120372511	120395732	72	23	42307	-1.0878	0.86166	AP002348.1		
ENSG00000120158	9	4782869	4895917	426	58	39110	-1.0881	0.86172	RCL1		
ENSG00000139515	13	28484157	28510368	65	13	48683	-1.0883	0.86177	PDX1		
ENSG00000163428	3	120033356	120078186	145	19	43421	-1.0888	0.86189	LRRC58		
ENSG00000133115	13	39530062	39575203	232	25	48097	-1.089	0.86192	STOML3		
ENSG00000001460	1	24673489	24753424	242	28	48657	-1.0896	0.86206	STPG1		
ENSG00000186314	5	144841362	145224932	1015	63	36078	-1.0898	0.86209	PRELID2		
ENSG00000099984	22	24312339	24336106	26	12	43367	-1.0898	0.8621	GSTT2		
ENSG00000188910	1	35236790	35261970	95	18	44776	-1.0901	0.86216	GJB3		
ENSG00000108561	17	5326097	5362150	128	24	37576	-1.091	0.86235	C1QBP		
ENSG00000007255	19	45656186	45691495	94	21	53105	-1.0916	0.86251	TRAPPC6A		

ENSG00000174243	12	49213547	49256625	82	20	50844	-1.0917	0.86252	DDX23		
ENSG00000248789	5	51293865	51386821	329	22	42980	-1.0922	0.86262	CTD-2203A3.1		
ENSG00000220575	7	154848777	154873267	85	12	45052	-1.0923	0.86264	HTR5A-AS1		
ENSG00000136003	12	108946358	108973160	106	14	33658	-1.0927	0.86274	ISCU		
ENSG00000023318	9	102731461	102871322	275	25	31815	-1.0932	0.86285	ERP44		
ENSG00000182885	16	57692099	57733975	147	38	38551	-1.0939	0.863	GPR97		
ENSG00000161204	3	183893811	183921800	72	13	56017	-1.0944	0.86311	ABCF3		
ENSG00000162775	1	110871128	110899299	64	11	47468	-1.0947	0.86318	RBM15		
ENSG00000177335	8	144110626	144151359	142	14	36784	-1.0949	0.86321	C8orf31		
ENSG00000258130	16	30205637	30230392	2	1	42773	-1.095	0.86324	RP11-347C12.3		
ENSG00000260456	16	87107168	87361022	1216	128	39618	-1.095	0.86324	C16orf95		
ENSG00000204070	20	43980577	44015438	92	9	41107	-1.0951	0.86325	SYS1		
ENSG00000023330	3	52222102	52258343	39	8	56040	-1.0956	0.86338	ALAS1		
ENSG00000073734	2	169769448	169897832	450	55	45266	-1.0958	0.86342	ABCB11		
ENSG00000166527	12	8652071	8684962	83	10	32459	-1.0963	0.86352	CLEC4D		
ENSG00000170820	2	49179296	49391676	904	71	45567	-1.0969	0.86365	FSHR		
ENSG00000129515	14	35020300	35109389	261	26	41840	-1.0971	0.8637	SNX6		
ENSG00000135503	12	52335451	52400862	130	24	49735	-1.0976	0.86382	ACVR1B		
ENSG00000035862	17	76839059	76931469	385	56	45571	-1.0986	0.86403	TIMP2		
ENSG00000165832	10	116687952	116747430	163	21	32422	-1.0993	0.86419	TRUB1		
ENSG00000164645	7	88413420	88435035	78	13	37518	-1.0994	0.8642	C7orf62		
ENSG00000188243	13	76089350	76133575	144	23	46168	-1.0994	0.86421	COMMD6		
ENSG00000188558	1	248674916	248695964	39	5	33998	-1.1	0.86434	OR2G6		
ENSG00000196240	1	248606077	248627130	11	2	38552	-1.1001	0.86436	OR2T2		
ENSG00000215045	7	6527093	6601067	220	47	43089	-1.1003	0.8644	GRID2IP		
ENSG00000092096	14	23805515	23832121	73	19	41279	-1.1004	0.86441	SLC22A17		
ENSG00000175894	21	45907775	46141495	985	101	45734	-1.1004	0.86443	TSPEAR		
ENSG00000164919	8	100875428	100916290	99	13	42216	-1.1005	0.86444	COX6C		
ENSG00000225885	8	119284378	119422844	468	47	35737	-1.1005	0.86444	AC023590.1		
ENSG00000155249	14	20393767	20414842	19	6	43958	-1.1012	0.86459	OR4K1		
ENSG00000173572	19	56393065	56453702	278	44	50114	-1.1013	0.86462	NLRP13		
ENSG00000130775	1	28189055	28223196	104	19	41712	-1.1015	0.86467	THEMIS2		
ENSG00000268241	2	175190601	175212151	66	19	35549	-1.1017	0.8647	AC018470.1		
ENSG00000269879	10	24760273	24780632	66	9	51747	-1.1017	0.86471	AL353583.1		
ENSG00000268730	15	99849300	99869828	74	14	46817	-1.1019	0.86474	AC022819.2		
ENSG00000136986	8	124015404	124064663	156	27	46885	-1.1021	0.86479	DERL1		

ENSG00000164323	4	186070819	186140658	287	20	50288	-1.1021	0.8648	KIAA1430		
ENSG00000259471	15	66864528	66988132	570	84	46410	-1.1022	0.86482	RP11-321F6.1		
ENSG00000091137	7	107291080	107368254	153	30	49911	-1.1034	0.86507	SLC26A4		
ENSG00000257108	16	606996	629495	69	14	45833	-1.1037	0.86514	NHLRC4		
ENSG00000158406	6	26271283	26295762	105	14	30877	-1.1047	0.86535	HIST1H4H		
ENSG00000136828	9	129667053	129995445	647	46	40373	-1.1047	0.86535	RALGPS1		
ENSG00000168158	16	3395889	3416924	106	13	54603	-1.1047	0.86535	OR2C1		
ENSG00000174348	1	53517854	53561174	178	25	41851	-1.1048	0.86537	PODN		
ENSG00000170627	12	54839734	54877386	122	14	47297	-1.1048	0.86537	GTSF1		
ENSG00000130201	19	45705879	45747469	211	27	36915	-1.1057	0.86558	EXOC3L2		
ENSG00000185899	7	143130546	143151502	44	10	47605	-1.1058	0.8656	TAS2R60		
ENSG00000124608	6	44257391	44291063	118	22	41688	-1.1063	0.86571	AARS2		
ENSG00000136451	17	56038910	56075620	79	13	51557	-1.1069	0.86583	VEZF1		
ENSG00000049245	1	7821329	7851492	103	21	53416	-1.107	0.86585	VAMP3		
ENSG00000156650	10	76575340	76802380	317	39	26770	-1.108	0.86606	KAT6B		
ENSG00000025800	1	32563639	32652169	134	16	33058	-1.1081	0.8661	KPNA6		
ENSG00000197745	11	62053754	62076536	108	10	24500	-1.1083	0.86613	SCGB1D4		
ENSG00000126749	12	7062408	7115520	79	13	38176	-1.1084	0.86616	EMG1		
ENSG00000059573	10	97355696	97426463	279	30	37301	-1.1085	0.86617	ALDH18A1		
ENSG00000163840	3	122273085	122304050	138	18	53938	-1.1087	0.86622	DTX3L		
ENSG00000180543	8	98275717	98300176	135	17	37158	-1.109	0.86629	TSPYL5		
ENSG00000101074	20	42955626	42989875	134	12	54658	-1.1099	0.86648	R3HDML		
ENSG00000127616	19	11061598	11186071	377	47	51491	-1.1102	0.86654	SMARCA4		
ENSG00000180155	8	143835752	143869640	131	24	44696	-1.1109	0.86669	LYNX1		
ENSG00000185527	17	79607489	79640142	256	21	32421	-1.1119	0.86691	PDE6G		
ENSG00000125868	20	17540508	17600564	170	24	28243	-1.112	0.86694	DSTN		
ENSG00000173890	3	169745717	169813191	177	19	49934	-1.1123	0.86699	GPR160		
ENSG00000203690	6	167760521	167807998	203	37	50094	-1.1138	0.86733	TCP10		
ENSG00000152270	11	14655269	14902350	391	39	45489	-1.1139	0.86735	PDE3B		
ENSG00000068724	2	47133296	47313276	816	105	47321	-1.1146	0.86749	TTC7A		
ENSG00000171759	12	103220663	103362188	515	53	44810	-1.1146	0.86749	PAH		
ENSG00000142733	1	27671675	27703383	79	27	39601	-1.1151	0.86759	MAP3K6		
ENSG00000169607	2	113483930	113532254	127	17	46266	-1.1157	0.86773	CKAP2L		
ENSG00000064419	7	128584948	128705198	312	30	52332	-1.1158	0.86775	TNPO3		
ENSG00000182149	16	71869899	71972913	260	28	45204	-1.1161	0.86781	IST1		
ENSG00000213424	17	38800917	38831433	66	8	50127	-1.1161	0.86781	KRT222		

ENSG00000023909	1	94340761	94384966	168	23	41130	-1.1162	0.86783	GCLM		
ENSG00000182783	1	248711784	248732797	4	2	35314	-1.117	0.868	OR2T29		
ENSG00000188559	20	20360196	20703131	497	43	46334	-1.117	0.86801	RALGAPA2		
ENSG00000107779	10	88506407	88702595	596	53	34073	-1.1175	0.86811	BMPR1A		
ENSG00000198271	17	39295178	39316054	54	13	36122	-1.118	0.86821	KRTAP4-5		
ENSG00000165092	9	75505578	75705358	405	51	42112	-1.1182	0.86827	ALDH1A1		
ENSG00000099385	16	30834947	30916281	105	15	28752	-1.119	0.86843	BCL7C		
ENSG00000111727	12	104448235	104508639	164	30	50868	-1.1195	0.86854	HCFC2		
ENSG00000171302	17	76977799	77015949	138	24	43454	-1.1211	0.86887	CANT1		
ENSG00000173200	3	122286449	122367894	329	41	46995	-1.1211	0.86888	PARP15		
ENSG00000103310	16	21198773	21235831	114	22	50269	-1.1214	0.86895	ZP2		
ENSG00000204519	19	58183337	58238669	146	27	48295	-1.1215	0.86897	ZNF551		
ENSG00000072135	2	131103580	131142982	57	14	39658	-1.1221	0.86909	PTPN18		
ENSG00000166912	15	31221144	31293810	234	23	42594	-1.1221	0.86909	MTMR10		
ENSG00000176563	17	40940810	40973605	21	11	51751	-1.1228	0.86923	CNTD1		
ENSG00000151552	4	17451884	17523857	306	47	50091	-1.1228	0.86924	QDPR		
ENSG00000148908	10	121249340	121312220	208	38	46981	-1.1228	0.86924	RGS10		
ENSG00000107890	10	27270843	27399421	485	38	40292	-1.1231	0.86929	ANKRD26		
ENSG00000215009	12	7446880	7491320	107	17	47266	-1.1231	0.86931	ACSM4		
ENSG00000124721	6	38673117	39008301	1329	93	47934	-1.124	0.86949	DNAH8		
ENSG00000161849	12	52761596	52789436	160	15	31043	-1.1242	0.86955	KRT84		
ENSG00000197992	12	10173276	10228565	94	28	41401	-1.1246	0.86962	CLEC9A		
ENSG00000125879	20	16719003	16760707	198	36	39267	-1.1246	0.86963	OTOR		
ENSG00000109832	11	125763271	125803158	137	27	47599	-1.1248	0.86966	DDX25		
ENSG00000134152	15	34422875	34512297	363	27	46596	-1.1252	0.86975	KATNBL1		
ENSG00000212721	17	39263433	39284606	152	7	24272	-1.1259	0.8699	KRTAP4-11		
ENSG00000269657	17	66529369	66552970	69	12	55663	-1.1263	0.86998	AC079210.1		
ENSG00000183303	11	7807452	7828520	86	8	37958	-1.1264	0.87	OR5P2		
ENSG00000222001	2	233867324	233890595	73	20	39406	-1.1268	0.87009	AC106876.2		
ENSG00000169302	5	146604526	146777415	749	79	47253	-1.1268	0.87009	STK32A		
ENSG00000175643	16	11333476	11455619	533	48	46358	-1.1271	0.87015	RMI2		
ENSG00000107758	10	75186186	75265782	78	16	36674	-1.1272	0.87017	PPP3CB		
ENSG00000185608	22	19409425	19433598	51	14	41457	-1.1273	0.87018	MRPL40		
ENSG00000008118	1	209747062	209797283	178	29	42418	-1.1275	0.87022	CAMK1G		
ENSG00000185728	8	64071112	64135346	112	27	42365	-1.1278	0.87031	YTHDF3		
ENSG00000122304	16	11359496	11380337	93	16	41623	-1.1279	0.87033	PRM2		

ENSG00000104213	8	17423942	17511580	674	95	40907	-1.129	0.87055	PDGFRL		
ENSG00000142549	19	51805102	51843608	105	20	37384	-1.129	0.87055	IGLON5		
ENSG00000086475	10	13349424	13400297	196	26	45516	-1.1308	0.87094	SEPHS1		
ENSG00000197584	3	177980720	178572217	1943	171	45375	-1.1309	0.87096	KCNMB2		
ENSG00000103888	15	81061684	81254117	400	104	44729	-1.1311	0.87099	KIAA1199		
ENSG00000115514	2	99925445	99967165	116	16	49663	-1.1318	0.87114	TXNDC9		
ENSG00000139133	12	34165216	34192629	62	10	37285	-1.1318	0.87114	ALG10		
ENSG00000115165	2	158261131	158355473	229	41	43428	-1.1325	0.87129	CYTIP		
ENSG00000129667	17	74456973	74507872	200	40	37840	-1.1325	0.87129	RHBDF2		
ENSG00000077044	2	234253153	234390750	311	38	43978	-1.1328	0.87135	DGKD		
ENSG00000198785	9	104321635	104510862	769	55	41822	-1.1332	0.87143	GRIN3A		
ENSG00000197111	12	53825525	53884946	80	20	44523	-1.1336	0.87151	PCBP2		
ENSG00000174928	3	155470401	155534140	188	27	43743	-1.1337	0.87153	C3orf33		
ENSG00000128591	7	128460431	128509328	131	24	43118	-1.134	0.87161	FLNC		
ENSG00000134812	11	59586741	59622974	58	15	40356	-1.1348	0.87176	GIF		
ENSG00000134443	18	56877400	56908006	128	20	49621	-1.1349	0.87179	GRP		
ENSG00000070159	9	112127746	112270590	424	49	49967	-1.1352	0.87186	PTPN3		
ENSG00000148702	10	115300596	115359361	261	46	42105	-1.1356	0.87194	HABP2		
ENSG00000250479	22	24098021	24120630	72	17	45828	-1.1357	0.87197	CHCHD10		
ENSG00000144962	3	172597148	172869058	817	95	46590	-1.136	0.87202	SPATA16		
ENSG00000130766	1	28576038	28619002	118	17	44054	-1.1362	0.87206	SESN2		
ENSG00000134153	15	34366218	34404149	74	13	32670	-1.1371	0.87224	EMC7		
ENSG00000119878	2	46833555	46862881	88	13	40266	-1.1374	0.8723	CRIP1		
ENSG00000134265	18	10515902	10562758	131	12	50144	-1.1378	0.8724	NAPG		
ENSG00000110060	11	125753381	125783116	108	17	43775	-1.1381	0.87245	PUS3		
ENSG00000121552	3	122034091	122070819	122	21	37237	-1.1381	0.87247	CSTA		
ENSG00000156463	5	145306142	145471354	440	31	43884	-1.1382	0.87249	SH3RF2		
ENSG00000164506	6	147515561	147716866	356	34	54593	-1.1387	0.87258	STXBP5		
ENSG00000146247	6	79635584	79797953	365	33	53187	-1.1388	0.8726	PHIP		
ENSG00000126562	17	40922696	40958954	17	10	53936	-1.1404	0.87295	WNK4		
ENSG00000064115	12	27116128	27177367	195	40	53277	-1.141	0.87306	TM7SF3		
ENSG00000100124	22	38216862	38255334	59	14	47574	-1.1411	0.87309	ANKRD54		
ENSG00000157796	4	39174024	39297430	260	17	40194	-1.1419	0.87325	WDR19		
ENSG00000140153	14	102595840	102701184	298	37	38261	-1.1419	0.87326	WDR20		
ENSG00000134758	18	29661818	29721524	147	21	48600	-1.1427	0.87342	RNF138		
ENSG00000139988	14	68158603	68211169	169	21	38503	-1.1428	0.87344	RDH12		

ENSG00000115107	2	119971384	120033228	265	45	48024	-1.1432	0.87352	STEAP3		
ENSG00000112246	6	100822891	100922805	282	37	50545	-1.1434	0.87357	SIM1		
ENSG00000125375	14	50769044	50812276	137	9	52742	-1.1435	0.87358	ATP5S		
ENSG00000197816	9	99990765	100150806	508	29	39213	-1.1437	0.87362	CCDC180		
ENSG00000183644	11	111375510	111417756	81	17	45509	-1.1442	0.87373	C11orf88		
ENSG00000185591	12	53763960	53820230	129	13	46128	-1.1443	0.87376	SP1		
ENSG00000179066	19	35586873	35608141	63	12	44632	-1.1444	0.87377	AC020907.1		
ENSG00000165046	8	38233725	38277045	68	7	53673	-1.1447	0.87383	LETM2		
ENSG00000186517	1	161006736	161049760	103	19	42612	-1.1448	0.87386	ARHGAP30		
ENSG00000184985	4	7184265	7754554	3269	318	45037	-1.1452	0.87393	SORCS2		
ENSG00000170917	4	123799852	123854123	228	29	34445	-1.1461	0.87411	NUDT6		
ENSG00000136504	17	47855917	47916458	73	23	44127	-1.1461	0.87413	KAT7		
ENSG00000164849	7	1074212	1108897	222	24	49759	-1.1468	0.87426	GPR146		
ENSG00000185163	12	132611139	132638880	82	14	37312	-1.1474	0.87439	DDX51		
ENSG00000169129	10	116044583	116174515	369	61	35478	-1.1475	0.87441	AFAP1L2		
ENSG00000154237	15	101449420	101620317	654	78	45401	-1.1475	0.87441	LRRK1		
ENSG00000110436	11	35262753	35451610	647	68	48775	-1.1475	0.87442	SLC1A2		
ENSG00000137656	11	116608886	116653704	164	28	47136	-1.1481	0.87454	BUD13		
ENSG00000115255	19	1481165	1507926	75	14	42729	-1.1483	0.87459	REEP6		
ENSG00000177685	11	816144	841991	122	16	31031	-1.1508	0.87509	EFCAB4A		
ENSG00000176293	19	58560607	58607677	137	21	52099	-1.151	0.87514	ZNF135		
ENSG00000218823	7	4887364	4911625	97	14	40376	-1.1512	0.87518	PAPOLB		
ENSG00000131152	16	87326482	87377879	245	37	38976	-1.152	0.87534	RP11-178L8.4		
ENSG00000188171	19	20792867	20854402	421	30	42990	-1.1521	0.87535	ZNF626		
ENSG00000080166	13	95079558	95141936	209	28	49047	-1.1525	0.87544	DCT		
ENSG00000173239	10	90552487	90590303	111	25	44011	-1.1525	0.87545	LIPM		
ENSG00000198498	4	164405594	164451691	128	15	44115	-1.1532	0.87559	TMA16		
ENSG00000142748	1	27685603	27711315	42	17	35074	-1.1533	0.87561	FCN3		
ENSG00000111325	12	123449127	123474590	27	9	42685	-1.1533	0.87561	OGFOD2		
ENSG00000111262	12	5009071	5050527	110	21	50444	-1.1534	0.87562	KCNA1		
ENSG00000196932	10	63156401	63223208	189	27	41210	-1.1535	0.87564	TMEM26		
ENSG00000088930	20	21273942	21380463	247	24	51510	-1.1536	0.87567	XRN2		
ENSG00000070882	7	24826158	25031253	692	124	45164	-1.1542	0.8758	OSBPL3		
ENSG00000157017	3	10317359	10344631	85	18	38113	-1.155	0.87596	GHRL		
ENSG00000140968	16	85922409	85966215	173	35	44761	-1.155	0.87596	IRF8		
ENSG00000182326	12	7086351	7188336	180	21	35736	-1.156	0.87617	C1S		

ENSG00000110713	11	3682313	3829022	513	48	48317	-1.1562	0.87621	NUP98		
ENSG00000131381	3	15101580	15150670	128	12	52131	-1.1566	0.87628	ZFYVE20		
ENSG00000242574	6	32892406	32918847	168	26	52218	-1.1567	0.87631	HLA-DMB		
ENSG00000126934	19	4080319	4134126	134	30	44408	-1.1575	0.87646	MAP2K2		
ENSG00000183486	21	42723870	42791317	206	49	31358	-1.1581	0.87659	MX2		
ENSG00000106012	7	2588632	2664368	390	52	51096	-1.1582	0.87661	IQCE		
ENSG00000188277	15	41052159	41074643	42	10	40391	-1.1582	0.87661	C15orf62		
ENSG00000108852	17	41942725	41997068	190	23	40627	-1.1583	0.87662	MPP2		
ENSG00000197362	7	148756735	148797874	120	16	37816	-1.1584	0.87665	ZNF786		
ENSG00000089356	19	35596732	35625228	113	15	51690	-1.1587	0.87672	FXYD3		
ENSG00000198690	15	31186055	31245311	184	25	45349	-1.1593	0.87684	FAN1		
ENSG00000183208	15	90767040	90795315	116	13	38147	-1.1598	0.87693	GDPGP1		
ENSG00000143156	1	169091769	169347205	917	44	44310	-1.1599	0.87695	NME7		
ENSG00000123338	12	54881495	54947726	198	45	43539	-1.1602	0.87702	NCKAP1L		
ENSG00000150656	18	72191675	72264448	240	56	43204	-1.1608	0.87714	CNDP1		
ENSG00000136002	2	131584489	131814836	667	87	35063	-1.1629	0.87757	ARHGEF4		
ENSG00000169469	1	152993678	153015376	132	5	49900	-1.1646	0.87791	SPRR1B		
ENSG00000165309	10	23206953	23336518	356	45	43093	-1.1648	0.87795	ARMC3		
ENSG00000248874	5	23941457	24188372	1077	46	48017	-1.1649	0.87797	C5orf17		
ENSG00000160199	21	44384620	44463691	438	34	46757	-1.1657	0.87813	PKNOX1		
ENSG00000138115	10	96786530	96839254	226	23	50594	-1.1658	0.87814	CYP2C8		
ENSG00000222028	14	23501376	23523269	49	14	39630	-1.1669	0.87837	PSMB11		
ENSG00000145907	5	151140606	151202346	171	20	49353	-1.1685	0.8787	G3BP1		
ENSG00000183808	8	94731584	94763245	65	9	55327	-1.1692	0.87885	RBM12B		
ENSG00000196604	2	130821108	130896795	103	14	38881	-1.1706	0.87912	POTEF		
ENSG00000149599	20	30425440	30468550	106	26	42330	-1.1706	0.87913	DUSP15		
ENSG00000168876	11	94216795	94242749	66	15	45621	-1.1709	0.87918	ANKRD49		
ENSG00000229571	1	13206356	13229581	1	1	42665	-1.171	0.8792	PRAMEF26		
ENSG00000100884	14	24530046	24557309	42	19	48520	-1.1716	0.87931	CPNE6		
ENSG00000262543	6	138689042	138714212	119	7	24978	-1.1717	0.87933	RP3-422G23.4		
ENSG00000167291	17	77896142	78019647	459	112	49781	-1.1719	0.87939	TBC1D16		
ENSG00000127329	12	70900630	71041220	575	94	45506	-1.172	0.8794	PTPRB		
ENSG00000188906	12	40580546	40773087	753	66	45306	-1.1727	0.87954	LRRK2		
ENSG00000185453	19	48663949	48710877	208	30	41356	-1.1728	0.87955	C19orf68		
ENSG00000222022	2	238320063	238343919	67	13	44932	-1.173	0.8796	AC112721.1		
ENSG00000125817	20	3754498	3777337	67	15	47941	-1.1745	0.8799	CENPB		

ENSG00000158769	1	160955001	161001138	151	15	48948	-1.1747	0.87994	<i>F11R</i>		
ENSG00000080345	2	152256397	152374527	311	33	38472	-1.1747	0.87995	<i>RIF1</i>		
ENSG00000136275	7	47824889	47869445	165	24	56115	-1.1754	0.88008	<i>C7orf69</i>		
ENSG00000123612	2	158373279	158495517	185	36	42264	-1.1758	0.88017	<i>ACVR1C</i>		
ENSG00000137710	11	110035605	110177447	309	25	50736	-1.1759	0.88019	<i>RDX</i>		
ENSG00000164008	1	43222940	43273968	107	18	53508	-1.176	0.8802	<i>C1orf50</i>		
ENSG00000196372	10	5670830	5718558	291	49	48074	-1.1768	0.88035	<i>ASB13</i>		
ENSG00000204033	10	85970254	85995345	89	12	40507	-1.1774	0.88049	<i>LRIT2</i>		
ENSG00000184635	19	20001722	20056384	181	24	36038	-1.178	0.88061	<i>ZNF93</i>		
ENSG00000126581	17	40952152	40995367	16	10	47959	-1.179	0.8808	<i>BECN1</i>		
ENSG00000160191	21	44063746	44205619	657	91	44219	-1.179	0.8808	<i>PDE9A</i>		
ENSG00000267545	19	45673080	45715702	185	41	42172	-1.1793	0.88087	<i>AC005779.2</i>		
ENSG00000178257	16	11357144	11377452	86	16	41754	-1.1801	0.88103	<i>PRM3</i>		
ENSG00000133704	12	30771922	30858920	276	18	51054	-1.1807	0.88113	<i>IPO8</i>		
ENSG00000106631	7	44168463	44190931	76	15	46508	-1.1809	0.88117	<i>MYL7</i>		
ENSG00000139726	12	123227321	123265611	80	11	24490	-1.1816	0.88132	<i>DENR</i>		
ENSG00000053770	14	57725627	57766797	37	13	39391	-1.1817	0.88134	<i>AP5M1</i>		
ENSG00000127951	7	76812688	76839143	62	17	45318	-1.1819	0.88138	<i>FGL2</i>		
ENSG00000117899	15	81229667	81292219	163	16	47889	-1.1824	0.88148	<i>MESDC2</i>		
ENSG00000123091	1	51691943	51749127	77	14	49659	-1.1826	0.88151	<i>RNF11</i>		
ENSG00000105486	19	48608702	48683860	336	27	36430	-1.1826	0.88151	<i>LIG1</i>		
ENSG00000156304	21	33033346	33114388	171	26	47696	-1.1837	0.88172	<i>SCAF4</i>		
ENSG00000111859	6	11173531	11392581	779	138	48666	-1.1844	0.88186	<i>NEDD9</i>		
ENSG00000175143	1	248559296	248580405	115	7	21251	-1.1844	0.88188	<i>OR2T1</i>		
ENSG00000188375	12	31934123	31955175	107	22	46122	-1.1849	0.88197	<i>H3F3C</i>		
ENSG00000172375	11	118962908	118999252	87	11	27829	-1.1853	0.88205	<i>C2CD2L</i>		
ENSG00000196116	9	100164232	100268407	240	26	46177	-1.1864	0.88227	<i>TDRD7</i>		
ENSG00000137700	11	118884824	118911616	92	16	47377	-1.1865	0.88229	<i>SLC37A4</i>		
ENSG00000174371	1	242001269	242068450	316	34	48181	-1.1866	0.8823	<i>EXO1</i>		
ENSG00000203786	1	152720506	152744529	64	8	43265	-1.1871	0.88241	<i>KPRP</i>		
ENSG00000139637	12	53683470	53710961	43	10	36695	-1.1873	0.88244	<i>C12orf10</i>		
ENSG00000069712	1	92622542	92660280	71	11	43939	-1.1885	0.88268	<i>KIAA1107</i>		
ENSG00000106484	7	130116012	130156133	103	15	36218	-1.1889	0.88275	<i>MEST</i>		
ENSG00000179698	8	145152629	145183218	73	8	37279	-1.1889	0.88276	<i>KIAA1875</i>		
ENSG00000179820	19	54359477	54389691	49	14	38036	-1.1889	0.88276	<i>MYADM</i>		
ENSG00000167508	16	88708343	88739569	132	29	46730	-1.1893	0.88283	<i>MVD</i>		

ENSG00000158109	1	3531566	3556691	101	20	42559	-1.1896	0.8829	TPRG1L		
ENSG00000183741	22	39247455	39278319	73	20	38351	-1.1902	0.88302	CBX6		
ENSG00000116661	1	11698424	11725842	77	25	45320	-1.1907	0.88312	FBXO2		
ENSG00000100345	22	36667327	36794063	379	56	38202	-1.1907	0.88312	MYH9		
ENSG00000149131	11	57354860	57392326	92	14	48726	-1.1924	0.88344	SERPING1		
ENSG00000182022	10	125757184	125863206	281	51	46303	-1.1926	0.88348	CHST15		
ENSG00000268955	8	8036158	8056331	1	1	43280	-1.1927	0.8835	LRLE1		
ENSG00000141316	17	31287394	31334895	214	38	41732	-1.193	0.88357	SPACA3		
ENSG00000136826	9	110237133	110262763	81	14	45950	-1.1935	0.88366	KLF4		
ENSG00000159784	7	143040493	143069863	86	26	53739	-1.1939	0.88373	FAM131B		
ENSG00000164825	8	6718097	6745544	276	29	48244	-1.1939	0.88374	DEFB1		
ENSG00000143341	1	185693683	186170085	770	77	38251	-1.194	0.88376	HMCN1		
ENSG00000183844	21	42666139	42739358	245	46	42234	-1.194	0.88376	FAM3B		
ENSG00000124172	20	57590522	57617437	51	14	54872	-1.1945	0.88386	ATP5E		
ENSG00000104972	19	55075346	55158979	523	45	43606	-1.1947	0.88389	LILRB1		
ENSG00000163312	4	84318496	84387009	155	23	37222	-1.1953	0.88402	HELQ		
ENSG00000078668	8	42239142	42273415	72	12	27999	-1.1956	0.88408	VDAC3		
ENSG00000187867	19	14154177	14179971	79	20	42006	-1.1965	0.88424	PALM3		
ENSG00000198131	19	58729960	58798815	275	29	43545	-1.1966	0.88427	ZNF544		
ENSG00000143149	1	165621453	165678100	226	28	50917	-1.1967	0.88428	ALDH9A1		
ENSG00000003989	8	17344597	17438082	539	119	46303	-1.1968	0.88432	SLC7A2		
ENSG00000162728	1	160041360	160070353	78	15	47354	-1.197	0.88434	KCNJ9		
ENSG00000205045	17	33781268	33874880	317	67	44353	-1.197	0.88435	SLFN12L		
ENSG00000142039	19	41806094	41840788	71	9	55223	-1.1972	0.88439	CCDC97		
ENSG00000198911	22	42219109	42313312	257	37	42643	-1.1976	0.88446	SREBF2		
ENSG00000176769	10	132880654	133119984	1292	183	47267	-1.1979	0.88452	TCERG1L		
ENSG00000009307	1	115249534	115311297	125	17	51593	-1.198	0.88455	CSDE1		
ENSG00000187860	22	30742624	30784647	147	14	50696	-1.1993	0.88479	CCDC157		
ENSG00000139354	12	100957461	101032064	170	23	39033	-1.1994	0.88481	GAS2L3		
ENSG00000212658	17	39448078	39469103	86	8	50720	-1.1996	0.88486	KRTAP29-1		
ENSG00000093009	22	19456982	19518135	191	32	43076	-1.2004	0.88501	CDC45		
ENSG00000107165	9	12675439	12720290	183	21	42241	-1.2008	0.88508	TYRP1		
ENSG00000099624	19	1231749	1254824	53	19	49492	-1.2008	0.88508	ATP5D		
ENSG00000204849	9	39345699	39371956	1	1	42880	-1.2014	0.8852	SPATA31A1		
ENSG00000196139	10	5067546	5159878	587	64	44976	-1.2017	0.88526	AKR1C3		
ENSG00000126391	11	65144070	65190996	58	19	37447	-1.2026	0.88544	FRMD8		

ENSG00000268217	5	72884203	72906845	66	11	46156	-1.2029	0.88549	AC008387.1		
ENSG00000139572	12	54746229	54768271	39	8	49196	-1.2038	0.88567	GPR84		
ENSG00000184933	11	6805756	6827128	74	11	54737	-1.2039	0.88569	OR6A2		
ENSG00000108946	17	66497921	66557460	167	24	55675	-1.205	0.8859	PRKAR1A		
ENSG00000166002	11	93201638	93286674	292	40	53062	-1.2061	0.8861	SMCO4		
ENSG00000183638	8	10453859	10579697	415	76	42166	-1.2061	0.88611	RP1L1		
ENSG00000184881	11	5334541	5355582	142	16	39317	-1.2068	0.88624	OR51B2		
ENSG00000133313	18	72153051	72198366	157	26	47526	-1.207	0.88628	CNDP2		
ENSG00000110786	11	18739475	18824268	264	59	45077	-1.2072	0.88632	PTPN5		
ENSG00000100711	14	104172067	104210005	77	21	47329	-1.2072	0.88632	ZFYVE21		
ENSG00000165269	9	33374765	33412643	91	22	51699	-1.2075	0.88637	AQP7		
ENSG00000095585	10	97941458	98041344	270	67	40292	-1.2081	0.88649	BLNK		
ENSG00000187510	12	93105281	93176231	171	21	36284	-1.2091	0.88669	PLEKHG7		
ENSG00000100445	14	24898972	24922111	169	10	23765	-1.2099	0.88685	SDR39U1		
ENSG00000175221	19	857962	903218	187	33	42693	-1.2099	0.88685	MED16		
ENSG00000160188	21	43882596	43926464	128	33	45622	-1.2101	0.88688	RSPH1		
ENSG00000196118	16	30758744	30784031	25	12	46215	-1.2105	0.88696	C16orf93		
ENSG00000258405	19	52946829	53025407	325	33	47446	-1.2119	0.88722	ZNF578		
ENSG00000116544	1	35321037	35405186	130	36	39656	-1.2122	0.88728	DLGAP3		
ENSG00000240563	1	62650503	62688000	315	41	44493	-1.2123	0.8873	L1TD1		
ENSG00000165006	9	34169003	34262521	218	20	36022	-1.2128	0.88739	UBAP1		
ENSG00000136802	9	131634391	131690318	127	19	47599	-1.2131	0.88745	LRRC8A		
ENSG00000189403	13	31022884	31201734	362	75	39148	-1.2131	0.88746	HMGB1		
ENSG00000175536	11	74192757	74214778	84	11	50644	-1.214	0.88763	LIPT2		
ENSG00000186081	12	52898359	52924471	127	14	47431	-1.2151	0.88783	KRT5		
ENSG00000056736	3	53870607	53909827	150	29	35290	-1.2163	0.88807	IL17RB		
ENSG00000267561	1	87448692	87644884	475	47	44638	-1.2164	0.88809	RP5-1052I5.2		
ENSG00000096696	6	7531808	7596950	230	40	48425	-1.2171	0.88821	DSP		
ENSG00000149243	11	75123438	75151674	42	11	44416	-1.2173	0.88826	KLHL35		
ENSG00000197043	5	150470273	150547443	312	59	44252	-1.2187	0.88853	ANXA6		
ENSG00000269545	19	58730831	58808173	291	30	44037	-1.2194	0.88865	CTD-3138B18.4		
ENSG00000139651	12	53564484	53594596	56	9	47763	-1.2198	0.88872	ZNF740		
ENSG00000196455	3	130387779	130475673	174	9	48148	-1.2199	0.88874	PIK3R4		
ENSG00000212901	17	39154773	39185576	164	17	45368	-1.2199	0.88876	KRTAP3-1		
ENSG00000070601	9	37640997	37756901	469	72	46985	-1.2204	0.88885	FRMPD1		
ENSG00000105048	19	55634162	55670722	93	30	36683	-1.2214	0.88903	TNNT1		

ENSG00000163530	3	109002635	109045364	135	20	31758	-1.2229	0.88932	<i>DPPA2</i>		
ENSG00000197775	14	24397940	24419196	116	6	23708	-1.2232	0.88938	<i>DHRS4-AS1</i>		
ENSG00000139880	14	23506271	23536747	84	19	44638	-1.2246	0.88963	<i>CDH24</i>		
ENSG00000174482	9	27938076	28680283	2916	318	44755	-1.2248	0.88968	<i>LINGO2</i>		
ENSG00000157020	3	10324815	10372862	152	24	39038	-1.225	0.8897	<i>SEC13</i>		
ENSG00000174951	19	49241268	49268647	80	14	29516	-1.225	0.8897	<i>FUT1</i>		
ENSG00000148334	9	130872972	130900741	40	10	30599	-1.2255	0.88981	<i>PTGES2</i>		
ENSG00000177201	1	248447918	248468880	106	7	49262	-1.2259	0.88989	<i>OR2T12</i>		
ENSG00000184825	6	27104861	27125317	38	14	38886	-1.226	0.88989	<i>HIST1H2AH</i>		
ENSG00000165516	14	50224326	50259909	46	13	48332	-1.227	0.89009	<i>KLHDC2</i>		
ENSG00000156873	16	30749591	30782490	26	13	41528	-1.2272	0.89013	<i>PHKG2</i>		
ENSG00000196091	12	101952131	102089796	589	84	44593	-1.2273	0.89014	<i>MYBPC1</i>		
ENSG00000196990	9	136434079	136461319	72	17	41241	-1.2278	0.89024	<i>FAM163B</i>		
ENSG00000213462	7	64441187	64477121	151	19	46743	-1.2279	0.89027	<i>ERV3-1</i>		
ENSG00000138768	4	76639777	76745382	280	19	36553	-1.228	0.89028	<i>USO1</i>		
ENSG00000158764	1	160904815	160934589	109	22	48561	-1.2284	0.89034	<i>ITLN2</i>		
ENSG00000144182	2	99761418	99789620	88	11	42248	-1.2284	0.89036	<i>LIPT1</i>		
ENSG00000212657	17	39453952	39475505	92	9	50869	-1.2291	0.89049	<i>KRTAP16-1</i>		
ENSG00000101365	20	2629041	2654865	113	19	49824	-1.2297	0.8906	<i>IDH3B</i>		
ENSG00000153936	1	87370331	87612334	584	35	40894	-1.2298	0.89061	<i>HS2ST1</i>		
ENSG00000139641	12	56502034	56548455	72	26	37537	-1.2302	0.89069	<i>ESYT1</i>		
ENSG00000168275	1	234499202	234529795	94	13	48040	-1.2314	0.8909	<i>COA6</i>		
ENSG00000163281	4	44674217	44738612	170	13	33871	-1.2315	0.89093	<i>GNPDA2</i>		
ENSG00000154358	1	228385831	228576577	559	45	52315	-1.2321	0.89105	<i>OBSCN</i>		
ENSG00000107643	10	49504698	49657403	379	36	50413	-1.2321	0.89105	<i>MAPK8</i>		
ENSG00000103043	16	70711342	70845064	355	53	41354	-1.2326	0.89113	<i>VAC14</i>		
ENSG00000118197	1	200583024	200649097	279	29	42088	-1.2329	0.8912	<i>DDX59</i>		
ENSG00000162600	1	58871056	59022474	698	62	45350	-1.2332	0.89124	<i>OMA1</i>		
ENSG00000105171	19	30084924	30118144	156	26	40111	-1.2332	0.89124	<i>POP4</i>		
ENSG00000138495	3	119363360	119406301	186	18	54284	-1.2336	0.89132	<i>COX17</i>		
ENSG00000198092	4	68908916	69005598	322	17	37759	-1.2337	0.89134	<i>TMPRSS11F</i>		
ENSG00000126458	19	50128549	50153458	62	11	37115	-1.2342	0.89144	<i>RRAS</i>		
ENSG00000188373	10	85923494	85955050	84	18	53234	-1.2345	0.89149	<i>C10orf99</i>		
ENSG00000148602	10	85981349	86011217	104	18	41366	-1.2357	0.89172	<i>LRIT1</i>		
ENSG00000117069	1	77323126	77541396	632	81	41711	-1.2363	0.89182	<i>ST6GALNAC5</i>		
ENSG00000174109	16	1459745	1489345	107	21	46127	-1.2363	0.89182	<i>C16orf91</i>		

ENSG00000115756	2	10433015	10577743	622	109	46442	-1.2369	0.89193	HPCAL1		
ENSG00000058335	15	79242289	79393115	508	94	46464	-1.2372	0.89199	RASGRF1		
ENSG00000100373	22	45670863	45701755	131	18	31075	-1.2373	0.89202	UPK3A		
ENSG00000104974	19	55095047	55123555	208	27	45052	-1.2374	0.89203	LILRA1		
ENSG00000131437	5	132018320	132083330	86	8	28619	-1.2389	0.89231	KIF3A		
ENSG00000150630	4	177594689	177723881	308	26	30910	-1.2391	0.89235	VEGFC		
ENSG00000105176	19	30404551	30516611	245	28	37238	-1.2392	0.89237	URI1		
ENSG00000074319	11	18479883	18558779	246	26	51748	-1.2396	0.89243	TSG101		
ENSG00000115421	2	60973365	61039220	190	21	54471	-1.2401	0.89253	PAPOLG		
ENSG00000135437	12	56104151	56128489	35	14	37723	-1.2411	0.89272	RDH5		
ENSG00000170703	17	46829597	46904576	243	31	43677	-1.2419	0.89287	TTLL6		
ENSG00000113196	5	153844532	153867824	70	20	56554	-1.2423	0.89294	HAND1		
ENSG00000185338	16	11338262	11360036	73	14	42670	-1.2423	0.89294	SOCS1		
ENSG00000136819	9	132579569	132608142	169	12	50479	-1.2426	0.89299	C9orf78		
ENSG00000178951	19	4034362	4076943	121	27	40844	-1.2428	0.89304	ZBTB7A		
ENSG00000104722	8	24760525	24786607	54	15	44725	-1.2433	0.89313	NEFM		
ENSG00000123975	9	91916113	91941618	71	20	52887	-1.2434	0.89315	CKS2		
ENSG00000167987	11	60887728	60939089	168	13	26939	-1.2436	0.89317	VPS37C		
ENSG00000111057	12	53332655	53356685	55	15	46510	-1.2438	0.89321	KRT18		
ENSG00000167880	17	73990583	74033533	98	28	44282	-1.2441	0.89326	EVPL		
ENSG00000268950	1	31892192	31912614	80	11	25521	-1.2441	0.89327	AC114494.1		
ENSG00000138095	2	44103647	44233144	439	34	32061	-1.2442	0.89329	LRPPRC		
ENSG00000213694	9	91596362	91629925	102	27	46922	-1.2442	0.8933	S1PR3		
ENSG00000179270	2	29273842	29307127	126	25	44283	-1.2446	0.89335	C2orf71		
ENSG00000130726	19	59045458	59072089	47	14	40455	-1.2461	0.89364	TRIM28		
ENSG00000111058	12	81321594	81660533	1255	73	37692	-1.2462	0.89365	ACSS3		
ENSG00000109929	11	121153162	121189403	88	15	48157	-1.2465	0.8937	SC5D		
ENSG00000174567	1	204157288	204193220	111	26	50233	-1.2474	0.89388	GOLT1A		
ENSG00000013293	3	170167372	170313863	367	57	45923	-1.2476	0.89391	SLC7A14		
ENSG00000213762	19	58115601	58144724	96	13	47317	-1.2476	0.89391	ZNF134		
ENSG00000161048	7	102730223	102800007	171	18	48051	-1.2478	0.89394	NAPEPLD		
ENSG00000128242	22	30940622	30980574	115	34	50255	-1.2485	0.89408	GAL3ST1		
ENSG00000179909	19	58198735	58230579	93	20	49897	-1.2498	0.89432	ZNF154		
ENSG00000154743	3	12515931	12591122	325	26	36046	-1.2499	0.89433	TSEN2		
ENSG00000152359	5	74959949	75023313	278	20	46424	-1.25	0.89434	POC5		
ENSG00000215203	4	42885284	43042675	553	67	45591	-1.2501	0.89437	GRXCR1		

ENSG00000170477	12	53190333	53218335	127	28	41635	-1.2511	0.89454	KRT4		
ENSG00000110422	11	33268218	33388569	298	31	48759	-1.2511	0.89456	HIPK3		
ENSG00000102580	13	96319393	96457243	198	34	44304	-1.2512	0.89457	DNAJC3		
ENSG00000139574	12	53890474	53911422	17	9	53953	-1.2521	0.89474	NPFF		
ENSG00000181045	17	78183498	78237299	225	37	44949	-1.2521	0.89474	SLC26A11		
ENSG00000248458	1	67121547	67152710	118	17	38928	-1.2529	0.89488	AL139147.1		
ENSG00000100344	22	44309619	44370368	224	24	51432	-1.2534	0.89498	PNPLA3		
ENSG00000258474	14	32404059	32429588	130	24	50924	-1.2538	0.89503	RP11-187E13.1		
ENSG00000120992	8	54948938	55024577	137	12	31466	-1.2538	0.89504	LYPLA1		
ENSG00000214415	7	80077987	80151336	188	30	39723	-1.2545	0.89517	GNAT3		
ENSG00000104866	19	45584654	45661335	293	30	52497	-1.2546	0.89518	PPP1R37		
ENSG00000075073	10	71153659	71186623	117	17	50501	-1.2555	0.89536	TACR2		
ENSG00000197935	6	28952562	28983093	103	20	41073	-1.2558	0.89541	ZNF311		
ENSG00000109272	4	74708906	74729872	75	16	42476	-1.2559	0.89542	PF4V1		
ENSG00000114354	3	100418205	100477810	106	11	45364	-1.2563	0.8955	TFG		
ENSG00000136271	7	44595016	44624650	94	14	36225	-1.2572	0.89565	DDX56		
ENSG00000171303	2	26905619	26966288	142	23	36328	-1.2579	0.89578	KCNK3		
ENSG00000102870	16	30779778	30808523	30	10	42692	-1.2581	0.89583	ZNF629		
ENSG00000077684	4	129720779	129806379	140	27	42328	-1.2583	0.89586	JADE1		
ENSG00000091128	7	107653993	107780801	223	28	42030	-1.2585	0.89589	LAMB4		
ENSG00000153179	12	64994293	65101347	328	38	51647	-1.2591	0.896	RASSF3		
ENSG00000101337	20	30687309	30765061	157	12	45146	-1.2592	0.89602	TM9SF4		
ENSG00000077585	1	236295832	236395165	372	40	36312	-1.2598	0.89613	GPR137B		
ENSG00000198954	10	70738487	70786738	185	24	42317	-1.2602	0.8962	KIAA1279		
ENSG00000101040	20	45827859	45995567	318	54	41388	-1.2608	0.89631	ZMYND8		
ENSG00000268818	22	36013040	36041181	97	19	37720	-1.2611	0.89637	AL049747.1		
ENSG00000117597	1	209991352	210040910	199	21	54704	-1.2615	0.89644	DIEXF		
ENSG00000181585	3	46732823	46762376	82	20	42247	-1.2617	0.89646	TMIE		
ENSG00000168066	11	64522078	64556258	44	10	36922	-1.2628	0.89667	SF1		
ENSG00000163254	2	208982861	209004554	108	17	49361	-1.2629	0.89669	CRYGC		
ENSG00000268735	13	24312243	24333901	66	13	46817	-1.2635	0.8968	AL139080.1		
ENSG00000214253	7	100872739	100905597	156	9	28943	-1.2639	0.89688	FIS1		
ENSG00000111481	12	54684986	54755633	89	13	47195	-1.2657	0.89718	COPZ1		
ENSG00000164331	5	72838160	72871511	110	12	44756	-1.2664	0.89732	ANKRA2		
ENSG00000157551	21	39519128	39689279	535	48	35333	-1.268	0.89759	KCNJ15		
ENSG00000139546	12	53884705	53910215	19	9	53501	-1.2688	0.89775	TARBP2		

ENSG00000138061	2	38284116	38347044	258	33	38516	-1.2691	0.8978	<i>CYP1B1</i>		
ENSG00000171224	10	71380007	71403352	128	19	45531	-1.2693	0.89783	<i>C10orf35</i>		
ENSG00000180773	11	92867341	92941130	181	22	46246	-1.2705	0.89804	<i>SLC36A4</i>		
ENSG00000242221	19	43558363	43597197	273	24	20071	-1.2704	0.89804	<i>PSG2</i>		
ENSG00000185164	16	18501182	18583533	18	13	26681	-1.2706	0.89806	<i>NOMO2</i>		
ENSG00000164953	8	94757072	94841462	96	18	50296	-1.2708	0.8981	<i>TMEM67</i>		
ENSG00000212743	10	6382278	6404723	65	15	44174	-1.2713	0.89819	<i>DKFZP667F0711</i>		
ENSG00000120742	3	150249781	150331015	281	31	45796	-1.2718	0.89828	<i>SERP1</i>		
ENSG00000111052	12	81176299	81341704	517	48	37796	-1.2719	0.8983	<i>LIN7A</i>		
ENSG00000158716	1	159740722	159762333	68	14	48295	-1.272	0.89832	<i>DUSP23</i>		
ENSG00000106511	7	15640837	15736437	363	40	47461	-1.2724	0.89838	<i>MEOX2</i>		
ENSG00000068784	2	45605819	45849304	795	60	38313	-1.2725	0.89841	<i>SRBD1</i>		
ENSG00000147434	8	42597763	42661535	157	17	35465	-1.2726	0.89842	<i>CHRNA6</i>		
ENSG00000212722	17	39251584	39272740	189	9	28159	-1.2736	0.89859	<i>KRTAP4-9</i>		
ENSG00000101280	20	843296	906977	310	57	40826	-1.2736	0.89861	<i>ANGPT4</i>		
ENSG00000185414	2	99787542	99824089	96	14	42905	-1.2737	0.89862	<i>MRPL30</i>		
ENSG00000160055	1	32670073	32697972	43	8	32044	-1.2746	0.89878	<i>TMEM234</i>		
ENSG00000111269	12	12754761	12808042	102	18	48751	-1.2748	0.89881	<i>CREBL2</i>		
ENSG00000273155	2	99761461	99821761	177	17	42498	-1.2749	0.89882	<i>MRPL30</i>		
ENSG00000102962	16	57382684	57410102	123	28	46181	-1.2755	0.89893	<i>CCL22</i>		
ENSG00000151240	10	310130	745683	1056	78	40003	-1.2755	0.89894	<i>DIP2C</i>		
ENSG00000214324	3	126901974	126927025	83	25	48884	-1.276	0.89903	<i>C3orf56</i>		
ENSG00000165804	14	21548205	21582881	96	24	43852	-1.276	0.89903	<i>ZNF219</i>		
ENSG00000137273	6	1380069	1405832	83	37	45598	-1.2769	0.89919	<i>FOXF2</i>		
ENSG00000196262	7	44826279	44874163	119	17	42786	-1.277	0.8992	<i>PPIA</i>		
ENSG00000171757	3	169501216	169540774	88	12	46904	-1.2771	0.89922	<i>LRRC34</i>		
ENSG00000111679	12	7045631	7080479	55	25	43048	-1.2776	0.89931	<i>PTPN6</i>		
ENSG00000115353	2	75263590	75436826	504	87	40028	-1.2779	0.89936	<i>TACR1</i>		
ENSG00000226974	13	64310934	64331323	51	12	41939	-1.2786	0.89948	<i>AL445989.1</i>		
ENSG00000112144	6	52856077	52936600	160	24	47001	-1.2788	0.89951	<i>ICK</i>		
ENSG00000074657	18	56519832	56663712	366	43	41592	-1.2789	0.89953	<i>ZNF532</i>		
ENSG00000130348	6	107067453	107126292	232	28	45609	-1.279	0.89955	<i>QRSL1</i>		
ENSG00000254521	19	51984611	52015043	247	37	53166	-1.2793	0.8996	<i>SIGLEC12</i>		
ENSG00000134769	18	32063254	32481808	1105	69	50857	-1.2806	0.89983	<i>DTNA</i>		
ENSG00000117707	1	214146524	214224595	213	36	47462	-1.2809	0.89989	<i>PROX1</i>		
ENSG00000074695	18	56985055	57037194	191	21	51505	-1.2812	0.89994	<i>LMAN1</i>		

ENSG00000105954	7	25254189	25278105	110	23	42905	-1.2817	0.90002	NPVF		
ENSG00000135847	1	180234515	180482089	767	55	42504	-1.2822	0.90012	ACBD6		
ENSG00000145246	4	47477305	47605503	453	57	51849	-1.2826	0.90019	ATP10D		
ENSG00000140406	15	81283295	81306342	66	9	45877	-1.2828	0.90021	MESDC1		
ENSG00000205106	11	45782983	45803909	68	16	37045	-1.2829	0.90023	CTD-2210P24.4		
ENSG00000143320	1	156659398	156685608	61	28	44737	-1.2832	0.90028	CRABP2		
ENSG00000197991	13	61973818	62012220	118	18	35617	-1.2845	0.90051	PCDH20		
ENSG00000181378	2	219857568	219916249	108	18	35756	-1.2846	0.90053	CCDC108		
ENSG00000154639	21	18874700	18975897	294	41	46906	-1.285	0.9006	CXADR		
ENSG00000090661	19	8261620	8337305	346	76	47939	-1.2854	0.90067	CERS4		
ENSG00000231824	18	5135284	5207502	227	55	42447	-1.2869	0.90094	C18orf42		
ENSG00000108753	17	36036435	36115237	224	63	46248	-1.287	0.90096	HNF1B		
ENSG00000038219	4	13560362	13639347	163	23	41441	-1.2875	0.90105	BOD1L1		
ENSG00000122882	10	74879913	74938813	162	5	18577	-1.2886	0.90123	ECD		
ENSG00000185049	4	1974441	2053630	136	22	44176	-1.2886	0.90124	NELFA		
ENSG00000183092	14	100993486	101063750	172	26	34616	-1.289	0.9013	BEGAIN		
ENSG00000244607	3	42724155	42824745	228	28	53159	-1.2898	0.90144	CCDC13		
ENSG00000132424	6	99835927	99883207	134	17	41441	-1.2899	0.90145	PNISR		
ENSG00000092841	12	56541945	56567280	24	11	43991	-1.2904	0.90154	MYL6		
ENSG00000182896	17	7248442	7270538	54	21	42472	-1.2905	0.90156	TMEM95		
ENSG00000170486	12	52969373	53005322	171	23	53115	-1.2907	0.90159	KRT72		
ENSG00000173852	7	34958488	35087883	496	30	53744	-1.2908	0.90161	DPY19L1		
ENSG00000196946	12	8280733	8351133	165	13	34788	-1.291	0.90164	ZNF705A		
ENSG00000095970	6	41116244	41140924	21	10	39260	-1.2914	0.90171	TREM2		
ENSG00000008952	3	169674423	169726161	111	14	43845	-1.2921	0.90183	SEC62		
ENSG00000100162	22	42324725	42353168	107	18	37888	-1.2921	0.90184	CENPM		
ENSG00000006468	7	13920853	14041050	511	82	48870	-1.2922	0.90186	ETV1		
ENSG00000109182	4	48978264	49074098	180	14	31227	-1.2928	0.90196	CWH43		
ENSG00000185585	9	127529437	127587164	83	26	49829	-1.2934	0.90206	OLFML2A		
ENSG00000177468	6	137803336	137825531	83	21	43495	-1.2935	0.90209	OLIG3		
ENSG00000231122	10	46300876	46323036	8	5	16700	-1.2939	0.90215	FAM25E		
ENSG00000126856	16	90112974	90168480	147	27	39786	-1.2944	0.90223	PRDM7		
ENSG00000144895	3	150254465	150312029	195	25	47340	-1.2947	0.90229	EIF2A		
ENSG00000024862	6	139084657	139124456	144	21	41365	-1.295	0.90234	CCDC28A		
ENSG00000132646	20	5085599	5117272	78	8	27871	-1.295	0.90234	PCNA		
ENSG00000121775	1	32527632	32578467	78	14	34742	-1.2952	0.90238	TMEM39B		

ENSG00000214087	17	79638204	79660954	135	16	50857	-1.2953	0.90239	ARL16		
ENSG00000107954	10	105243736	105362309	340	53	48047	-1.2973	0.90273	NEURL1		
ENSG00000147883	9	21992902	22019362	65	14	42163	-1.2975	0.90277	CDKN2B		
ENSG00000024048	6	42521800	42671242	359	31	54500	-1.2979	0.90283	UBR2		
ENSG00000138496	3	122236771	122293424	141	21	52861	-1.2988	0.90299	PARP9		
ENSG00000169760	3	173104074	174014434	2709	217	41342	-1.2989	0.90301	NLGN1		
ENSG00000128710	2	176963518	176994670	66	20	42452	-1.2995	0.90312	HOXD10		
ENSG00000255168	1	145199145	145329796	8	5	39298	-1.2998	0.90317	RP11-458D21.5		
ENSG00000139433	12	110278748	110328293	125	21	44103	-1.2999	0.90318	GLTP		
ENSG00000164434	6	123090620	123115219	64	22	39082	-1.3022	0.90357	FABP7		
ENSG00000189052	19	49537141	49558568	81	21	47796	-1.3023	0.90359	CGB5		
ENSG00000258928	14	52372863	52395289	68	19	37923	-1.3025	0.90363	RP11-463J10.2		
ENSG00000164199	5	89815161	90470038	1770	146	43720	-1.3028	0.90368	GPR98		
ENSG00000106628	7	44144286	44173957	83	16	47734	-1.304	0.90388	POLD2		
ENSG00000069122	6	46810249	46932680	475	58	37545	-1.3043	0.90393	GPR116		
ENSG00000131849	19	58934181	58961589	72	11	44325	-1.3044	0.90395	ZNF132		
ENSG00000038382	5	14133811	14542235	1100	94	44460	-1.3047	0.90401	TRIO		
ENSG00000133773	12	82607460	82762584	447	43	47352	-1.305	0.90406	CCDC59		
ENSG00000162543	1	20502578	20532541	57	12	46264	-1.3052	0.90408	UBXN10		
ENSG00000136758	10	27389383	27454195	281	23	37805	-1.3056	0.90416	YME1L1		
ENSG00000163781	3	133307019	133390737	270	25	51010	-1.3057	0.90417	TOPBP1		
ENSG00000157193	1	53701217	53803742	245	44	37142	-1.3058	0.9042	LRP8		
ENSG00000163380	3	69146023	69182183	75	20	42947	-1.3063	0.90427	LMOD3		
ENSG00000181733	19	8831316	8852371	38	9	34901	-1.3068	0.90435	OR2Z1		
ENSG00000166573	18	74952505	74990858	216	37	49392	-1.3074	0.90447	GALR1		
ENSG00000101166	20	57598200	57627964	60	13	56663	-1.3076	0.90449	SLMO2		
ENSG00000113946	3	190030330	190139932	574	60	52545	-1.3076	0.9045	CLDN16		
ENSG00000198843	3	150310662	150358222	143	21	46311	-1.3079	0.90455	SELT		
ENSG00000126262	19	35924809	35952669	106	35	51011	-1.3084	0.90463	FFAR2		
ENSG00000138399	2	170376259	170440385	228	34	48814	-1.3086	0.90466	FASTKD1		
ENSG00000172296	20	12979627	13157411	902	95	50771	-1.3088	0.9047	SPTLC3		
ENSG00000165389	14	34891995	34941562	148	21	40396	-1.31	0.9049	SPTSSA		
ENSG00000198064	16	30224258	30275831	1	1	43270	-1.31	0.9049	RP11-347C12.1		
ENSG00000081386	9	99508147	99550411	32	12	39448	-1.3102	0.90493	ZNF510		
ENSG00000084623	1	32677529	32707205	51	8	30283	-1.3107	0.90502	EIF3I		
ENSG00000134452	10	5921535	5989556	295	40	50082	-1.3108	0.90503	FBXO18		

ENSG00000270149	1	160957747	161018752	193	21	46515	-1.3114	0.90514	RP11-544M22.13		
ENSG00000166788	11	18081482	18137638	169	15	48572	-1.3117	0.90519	SAAL1		
ENSG00000135205	7	76741751	76968850	812	77	45260	-1.3119	0.90523	CCDC146		
ENSG00000170315	17	16274112	16296059	49	11	41751	-1.313	0.9054	UBB		
ENSG00000100353	22	36896897	36935483	196	28	39789	-1.3134	0.90547	EIF3D		
ENSG00000044574	9	127987132	128013609	43	11	44925	-1.3138	0.90554	HSPA5		
ENSG00000051523	16	88699691	88727560	114	37	43707	-1.3139	0.90556	CYBA		
ENSG00000196655	11	118879142	118906164	104	15	48989	-1.3143	0.90562	TRAPPC4		
ENSG00000073754	1	157790704	157878046	285	30	41363	-1.3147	0.9057	CD5L		
ENSG00000164695	8	82634669	82681750	155	27	44127	-1.3158	0.90588	CHMP4C		
ENSG00000116903	1	231458480	231483598	58	9	47067	-1.3159	0.9059	EXOC8		
ENSG00000062582	7	43896157	43919492	64	12	49359	-1.3166	0.90602	MRPS24		
ENSG00000223443	8	11984677	12006586	10	4	42889	-1.3171	0.90609	USP17L2		
ENSG00000119328	9	111686461	111723024	115	18	50769	-1.3172	0.90612	FAM206A		
ENSG00000171443	19	56101388	56124504	57	18	49681	-1.3179	0.90624	ZNF524		
ENSG00000163322	4	84372092	84454501	272	18	35513	-1.3189	0.9064	FAM175A		
ENSG00000132938	13	29588748	30087892	1954	155	42769	-1.3189	0.9064	MTUS2		
ENSG00000092203	14	21934756	21977319	145	17	50253	-1.3197	0.90653	TOX4		
ENSG00000121351	12	21497893	21542912	196	28	46326	-1.3198	0.90654	IAPP		
ENSG00000064012	2	202088166	202162434	220	34	34390	-1.3203	0.90664	CASP8		
ENSG00000174444	15	66780355	66826870	145	22	55050	-1.3204	0.90664	RPL4		
ENSG00000204740	10	19482779	20089330	2759	179	47587	-1.322	0.90691	MALRD1		
ENSG00000121486	1	185077220	185136204	107	10	29462	-1.3222	0.90694	TRMT1L		
ENSG00000130303	19	17503748	17526457	74	15	34505	-1.3226	0.90702	BST2		
ENSG00000112280	6	70914764	71022786	509	67	44494	-1.3229	0.90706	COL9A1		
ENSG00000104941	19	46288968	46328577	142	20	53477	-1.3237	0.90719	RSPH6A		
ENSG00000137502	11	82674175	82792965	286	36	45941	-1.3237	0.9072	RAB30		
ENSG00000186897	12	49716200	49740971	58	14	47016	-1.3241	0.90727	C1QL4		
ENSG00000132164	3	10847885	10992419	477	74	48281	-1.3243	0.9073	SLC6A11		
ENSG00000105254	19	36595191	36626849	103	20	51229	-1.3245	0.90733	TBCB		
ENSG00000185905	16	29743784	29767327	45	6	44383	-1.3259	0.90757	C16orf54		
ENSG00000165140	9	97355415	97412531	254	28	50013	-1.3262	0.90762	FBP1		
ENSG00000172264	20	13966015	16043842	6965	501	43468	-1.3263	0.90763	MACROD2		
ENSG00000203857	1	120039821	120067681	59	8	30569	-1.3267	0.90769	HSD3B1		
ENSG00000097096	1	85612556	85676729	219	25	40888	-1.3271	0.90776	SYDE2		
ENSG00000169340	16	20360492	20426059	213	38	42673	-1.3274	0.90782	PDILT		

ENSG00000203876	10	111691029	111723649	69	5	19671	-1.3283	0.90797	RP11-451M19.3		
ENSG00000239474	2	170356212	170392772	102	22	51505	-1.329	0.90808	KLHL41		
ENSG00000185630	1	164514821	164878533	1067	169	47406	-1.3293	0.90813	PBX1		
ENSG00000179709	19	56449198	56509995	348	56	52323	-1.3293	0.90813	NLRP8		
ENSG00000136111	13	75848808	76066250	606	90	37700	-1.3295	0.90816	TBC1D4		
ENSG00000174446	15	66772473	66800151	90	18	54464	-1.3306	0.90834	SNAPC5		
ENSG00000178038	3	46700487	46745194	140	24	46921	-1.3332	0.90877	ALS2CL		
ENSG00000221852	17	39172278	39193454	92	12	38561	-1.3341	0.90891	KRTAP1-5		
ENSG00000177675	12	7489281	7642493	373	55	36808	-1.3343	0.90894	CD163L1		
ENSG00000101076	20	42974340	43071485	261	41	46860	-1.3345	0.90898	HNF4A		
ENSG00000175931	17	74375532	74459288	263	34	38614	-1.3346	0.909	UBE2O		
ENSG00000127586	16	828046	860737	170	34	38045	-1.3347	0.90901	CHTF18		
ENSG00000204209	6	33276335	33307046	62	11	37348	-1.3352	0.9091	DAXX		
ENSG00000136697	2	113815547	113843427	226	27	34770	-1.3354	0.90913	IL1F10		
ENSG00000185674	2	99848709	99881745	90	20	48722	-1.3366	0.90933	LYG2		
ENSG00000136770	10	22035466	22302698	495	44	43058	-1.3369	0.90937	DNAJC1		
ENSG00000112697	6	75952640	76004684	106	14	30914	-1.3377	0.9095	TMEM30A		
ENSG00000177469	17	40544470	40585535	135	18	38113	-1.3377	0.9095	PTRF		
ENSG00000102977	16	67681415	67704713	26	9	43378	-1.3377	0.90951	ACD		
ENSG00000158411	2	99767890	99807521	114	12	41325	-1.3379	0.90954	MITD1		
ENSG00000101057	20	42285754	42355136	191	19	46466	-1.3382	0.90958	MYBL2		
ENSG00000115705	2	1367995	1557483	864	97	45267	-1.3386	0.90965	TPO		
ENSG00000266958	19	45680646	45730191	250	41	35642	-1.3405	0.90995	AC006126.3		
ENSG00000240871	17	39230459	39251396	175	6	49922	-1.3407	0.90999	KRTAP4-7		
ENSG00000178229	19	57821877	57852144	156	25	52793	-1.3407	0.90999	ZNF543		
ENSG00000268865	12	25045243	25067615	91	22	51298	-1.3419	0.91018	AC026310.1		
ENSG00000189169	21	46107087	46127959	124	21	45623	-1.343	0.91036	KRTAP10-12		
ENSG00000169744	4	16493164	16910432	1233	177	48250	-1.3434	0.91043	LDB2		
ENSG00000105677	19	36026497	36048428	56	15	49864	-1.344	0.91052	TMEM147		
ENSG00000187955	8	121062019	121394275	909	99	43407	-1.3447	0.91064	COL14A1		
ENSG00000102468	13	47395685	47481169	308	51	49142	-1.3449	0.91067	HTR2A		
ENSG00000078403	10	21813094	22042559	256	50	46640	-1.3455	0.91076	MLLT10		
ENSG00000198783	17	33278549	33300205	37	12	49233	-1.3455	0.91076	ZNF830		
ENSG00000161642	12	54752917	54795082	64	16	37633	-1.3457	0.91081	ZNF385A		
ENSG00000021852	1	57384883	57441813	241	37	46234	-1.346	0.91084	C8B		
ENSG00000178531	19	7979372	8001051	75	16	50131	-1.3465	0.91094	CTXN1		

ENSG00000153885	19	34276838	34316668	120	29	49519	-1.3466	0.91094	KCTD15		
ENSG00000204702	6	29058386	29079658	77	14	39695	-1.3477	0.91113	OR2J1		
ENSG00000174948	3	154045461	154157504	347	46	49096	-1.3478	0.91114	GPR149		
ENSG00000129518	14	34975135	35018916	134	18	43319	-1.3484	0.91123	EAPP		
ENSG00000070985	11	2415745	2454275	128	28	43817	-1.3502	0.91153	TRPM5		
ENSG00000166840	11	58662871	58821000	481	35	50386	-1.3506	0.91158	GLYATL1		
ENSG00000101182	20	60701791	60728496	74	9	34438	-1.3507	0.91161	PSMA7		
ENSG00000160202	21	44579118	44602915	49	12	43930	-1.3512	0.91169	CRYAA		
ENSG00000148488	10	17350382	17506329	939	88	48812	-1.3518	0.91179	ST8SIA6		
ENSG00000007376	16	824974	848397	123	24	39048	-1.3522	0.91184	RPUSD1		
ENSG00000139767	12	119409300	119610856	827	91	49972	-1.3528	0.91194	SRRM4		
ENSG00000185800	19	46276205	46306060	58	14	52276	-1.3531	0.91199	DMWD		
ENSG00000186104	11	14889553	14923798	42	14	48321	-1.3535	0.91206	CYP2R1		
ENSG00000146910	7	155256901	155336557	254	72	46539	-1.3537	0.91209	CNPY1		
ENSG00000205456	16	32254040	32277240	10	6	42302	-1.3545	0.91221	TP53TG3D		
ENSG00000176971	11	27005628	27028630	110	19	51153	-1.3546	0.91224	FIBIN		
ENSG00000163064	2	119589747	119615254	55	15	41065	-1.3548	0.91226	EN1		
ENSG00000163534	1	157754193	157799895	104	15	51131	-1.3554	0.91235	FCRL1		
ENSG00000130700	20	61028553	61061026	91	24	42848	-1.3555	0.91237	GATA5		
ENSG00000213020	19	53196066	53248326	240	30	47453	-1.3561	0.91247	ZNF611		
ENSG00000133256	4	609373	674571	220	22	53004	-1.3566	0.91254	PDE6B		
ENSG00000173545	5	16441628	16475901	76	14	52480	-1.3568	0.91258	ZNF622		
ENSG00000139636	12	49480919	49514683	47	9	34470	-1.3582	0.91279	LMBR1L		
ENSG00000206075	18	61133994	61182318	231	22	35751	-1.361	0.91324	SERPINB5		
ENSG00000130940	1	10686661	10866707	489	118	44030	-1.362	0.9134	CASZ1		
ENSG00000163531	1	204787779	205001950	579	91	38996	-1.364	0.91372	NFASC		
ENSG00000142188	21	34794792	34862318	234	17	38301	-1.3644	0.91378	TMEM50B		
ENSG00000129673	17	74439433	74476199	127	29	38345	-1.3651	0.91389	AANAT		
ENSG00000175265	15	34661269	34890704	283	42	47017	-1.3658	0.91399	GOLGA8A		
ENSG00000158623	7	130136089	130363598	323	32	40057	-1.3663	0.91408	COPG2		
ENSG00000183629	15	28754757	28788160	3	1	43288	-1.3663	0.91408	GOLGA8G		
ENSG00000166676	16	10844776	10922651	147	39	36611	-1.367	0.91419	TVP23A		
ENSG00000259518	15	82370935	82400035	137	36	35168	-1.3682	0.91438	RP11-597K23.2		
ENSG00000130479	19	17820051	17855325	147	20	37651	-1.3692	0.91453	MAP1S		
ENSG00000096395	6	33752450	33781788	111	15	53965	-1.3693	0.91454	MLN		
ENSG00000152137	12	119606447	119668936	171	38	46910	-1.3708	0.91478	HSPB8		

ENSG00000137573	8	70368859	70583150	586	136	47423	-1.371	0.91481	<i>SULF1</i>		
ENSG00000148331	9	132389171	132414444	69	19	48479	-1.3714	0.91488	<i>ASB6</i>		
ENSG00000148484	10	16622610	16869527	880	121	42260	-1.3721	0.91498	<i>RSU1</i>		
ENSG00000104976	19	7975201	7998135	68	22	46851	-1.3721	0.91499	<i>SNAPC2</i>		
ENSG00000154822	3	16834159	17142086	1014	81	48580	-1.3726	0.91506	<i>PLCL2</i>		
ENSG00000135476	12	53652083	53697427	109	18	41631	-1.3733	0.91517	<i>ESPL1</i>		
ENSG00000136816	9	132555432	132583560	102	11	53671	-1.3736	0.91521	<i>TOR1B</i>		
ENSG00000269446	7	156892674	156913764	88	13	42239	-1.3739	0.91527	<i>AC006967.1</i>		
ENSG00000142731	4	128792016	128830350	29	13	45112	-1.3744	0.91534	<i>PLK4</i>		
ENSG00000100483	14	50565350	50593318	100	16	51718	-1.3754	0.9155	<i>VCPKMT</i>		
ENSG00000136381	15	78719773	78803798	202	22	45333	-1.3754	0.9155	<i>IREB2</i>		
ENSG00000196878	1	209778215	209835811	208	49	44755	-1.3763	0.91564	<i>LAMB3</i>		
ENSG00000185385	19	14981138	15002264	128	21	42696	-1.3766	0.91568	<i>OR7A17</i>		
ENSG00000117983	11	1234296	1293406	354	28	51149	-1.3779	0.91588	<i>MUC5B</i>		
ENSG00000139190	12	6561403	6590153	133	16	51582	-1.3779	0.91588	<i>VAMP1</i>		
ENSG00000166024	10	99884387	100014654	270	23	53713	-1.3786	0.91598	<i>R3HCC1L</i>		
ENSG00000023572	1	193055598	193085244	77	12	51963	-1.3787	0.916	<i>GLRX2</i>		
ENSG00000145781	5	115410688	115758459	1848	69	36763	-1.3791	0.91607	<i>COMMD10</i>		
ENSG00000049449	11	31823939	32137301	793	115	49528	-1.3792	0.91609	<i>RCN1</i>		
ENSG00000088766	20	5976736	6030699	193	27	47454	-1.3804	0.91626	<i>CRLS1</i>		
ENSG00000175003	6	160532821	160589750	179	44	43213	-1.3805	0.91628	<i>SLC22A1</i>		
ENSG00000224130	11	58662897	58686071	74	15	37164	-1.3806	0.9163	<i>AP001652.1</i>		
ENSG00000146221	6	44236480	44275458	141	18	36081	-1.3811	0.91638	<i>TCTE1</i>		
ENSG00000196305	9	94962489	95066038	306	23	46001	-1.3815	0.91644	<i>IARS</i>		
ENSG00000268942	5	61798070	61818309	35	8	54498	-1.3834	0.91672	<i>CKS1B</i>		
ENSG00000183310	1	248727022	248748080	3	2	43173	-1.3838	0.9168	<i>OR2T34</i>		
ENSG00000269810	15	100028447	100048578	98	13	42255	-1.3839	0.9168	<i>AC015660.1</i>		
ENSG00000152944	12	27165479	27229276	242	26	39883	-1.3842	0.91685	<i>MED21</i>		
ENSG00000242950	7	92087694	92117300	80	15	49318	-1.3843	0.91686	<i>ERVW-1</i>		
ENSG00000148700	10	111746126	111905323	251	29	28681	-1.3843	0.91687	<i>ADD3</i>		
ENSG00000146278	6	89780470	89804879	78	12	51067	-1.3853	0.91702	<i>PNRC1</i>		
ENSG00000204701	6	29069668	29090603	81	16	39401	-1.3857	0.91709	<i>OR2J3</i>		
ENSG00000160185	21	43814008	43877791	337	46	47335	-1.3858	0.91709	<i>UBASH3A</i>		
ENSG00000265352	18	69389851	69465364	433	33	46189	-1.386	0.91713	<i>RP11-723G8.2</i>		
ENSG00000086619	1	236368855	236455319	461	25	39381	-1.3861	0.91714	<i>ERO1LB</i>		
ENSG00000267950	11	1285809	1306033	64	16	55216	-1.3863	0.91717	<i>AC136297.1</i>		

ENSG00000232070	14	21557096	21581883	63	18	40973	-1.3866	0.91722	<i>TMEM253</i>		
ENSG00000155307	21	15847549	15965723	461	69	43143	-1.3866	0.91722	<i>SAMSN1</i>		
ENSG00000205571	5	69335350	69384349	2	1	43295	-1.3873	0.91733	<i>SMN2</i>		
ENSG00000178922	1	43906824	43929660	37	8	37874	-1.3876	0.91738	<i>HYI</i>		
ENSG00000176281	14	20378741	20399818	11	3	44166	-1.3877	0.91739	<i>OR4K5</i>		
ENSG00000123213	5	65008023	65177553	603	69	51696	-1.3879	0.91742	<i>NLN</i>		
ENSG00000115596	2	219714544	219748955	48	13	37227	-1.3884	0.91749	<i>WNT6</i>		
ENSG00000172216	20	48797376	48819212	26	9	49290	-1.3886	0.91753	<i>CEBPB</i>		
ENSG00000111537	12	68538548	68563527	68	13	33602	-1.3897	0.91769	<i>IFNG</i>		
ENSG00000153487	13	111355083	111383421	93	11	34458	-1.3898	0.9177	<i>ING1</i>		
ENSG00000164304	6	7316889	7399976	331	35	42241	-1.3902	0.91777	<i>CAGE1</i>		
ENSG00000135622	2	74871355	74919186	29	15	53250	-1.391	0.91789	<i>SEMA4F</i>		
ENSG00000174804	11	86646721	86676433	83	16	48526	-1.3913	0.91794	<i>FZD4</i>		
ENSG00000178233	6	44228203	44285243	194	25	40368	-1.3917	0.91799	<i>TMEM151B</i>		
ENSG00000139131	12	32870424	32918836	172	11	49502	-1.3925	0.91811	<i>YARS2</i>		
ENSG00000169777	5	9619109	9722490	296	55	51140	-1.3934	0.91826	<i>TAS2R1</i>		
ENSG00000178814	8	145096167	145128735	45	12	42247	-1.3937	0.9183	<i>OPLAH</i>		
ENSG00000007047	19	45572546	45818541	896	114	45525	-1.3938	0.91831	<i>MARK4</i>		
ENSG00000136603	3	170065466	170124623	174	26	46020	-1.3939	0.91832	<i>SKIL</i>		
ENSG00000188069	11	4780209	4801168	167	13	39124	-1.3947	0.91845	<i>OR51F1</i>		
ENSG00000177272	1	111204310	111227655	58	12	53410	-1.3955	0.91856	<i>KCNA3</i>		
ENSG00000077232	2	183570999	183669191	204	16	44707	-1.3958	0.91862	<i>DNAJC10</i>		
ENSG00000197498	6	111293218	111359466	353	28	43017	-1.3966	0.91873	<i>RPF2</i>		
ENSG00000170484	12	52949566	52977609	159	34	47174	-1.3971	0.9188	<i>KRT74</i>		
ENSG00000196465	12	56536040	56563431	25	11	49304	-1.3972	0.91882	<i>MYL6B</i>		
ENSG00000127952	7	75615656	75687322	181	26	40181	-1.3973	0.91884	<i>STYXL1</i>		
ENSG00000162757	1	209945661	209967904	52	12	53572	-1.3986	0.91903	<i>C1orf74</i>		
ENSG00000251655	12	11494757	11558500	114	41	43901	-1.399	0.91909	<i>PRB1</i>		
ENSG00000134775	18	33867677	34370018	1374	155	46380	-1.4001	0.91925	<i>FHOD3</i>		
ENSG00000169020	4	656225	678127	56	12	51213	-1.4001	0.91926	<i>ATP5I</i>		
ENSG00000125733	19	6727936	6761537	96	30	49880	-1.4001	0.91926	<i>TRIP10</i>		
ENSG00000131482	17	41042814	41075386	69	14	44910	-1.4008	0.91936	<i>G6PC</i>		
ENSG00000128915	15	60701808	60781359	176	21	42300	-1.4014	0.91945	<i>NARG2</i>		
ENSG00000137509	11	82524544	82691626	503	41	44898	-1.4019	0.91953	<i>PRCP</i>		
ENSG00000166387	11	7524529	7688358	789	110	45619	-1.4024	0.9196	<i>PPFIBP2</i>		
ENSG00000183726	1	25654408	25698852	36	11	38753	-1.4025	0.91962	<i>TMEM50A</i>		

ENSG00000203697	1	223701349	223863436	393	55	48896	-1.4025	0.91962	CAPN8		
ENSG00000139626	12	53575102	53611091	64	16	42567	-1.4033	0.91974	ITGB7		
ENSG00000173376	4	121946768	122004176	170	25	38729	-1.4035	0.91977	NDNF		
ENSG00000105261	19	36592104	36614613	69	14	53434	-1.404	0.91984	OVOL3		
ENSG00000151612	4	146668779	146869787	427	69	41237	-1.4041	0.91985	ZNF827		
ENSG00000161904	6	33728979	33766913	180	17	49372	-1.4045	0.91992	LEMD2		
ENSG00000106278	7	121503143	121712090	542	59	45073	-1.4051	0.92001	PTPRZ1		
ENSG00000020922	11	94142895	94237074	272	31	44293	-1.4052	0.92003	MRE11A		
ENSG00000203705	1	212955170	212999968	234	15	50387	-1.4055	0.92006	TATDN3		
ENSG00000105258	19	36594612	36616248	68	14	52953	-1.4065	0.92021	POLR2I		
ENSG00000135334	6	88374790	88421927	141	22	47293	-1.4066	0.92022	AKIRIN2		
ENSG00000189007	6	143733969	143781810	137	8	53991	-1.4067	0.92024	ADAT2		
ENSG00000137872	15	47466298	48076420	1932	141	42834	-1.4067	0.92024	SEMA6D		
ENSG00000164211	5	110821731	110858288	75	23	47921	-1.4077	0.92039	STARD4		
ENSG00000136856	9	130149421	130180703	70	10	54431	-1.4079	0.92042	SLC2A8		
ENSG00000148604	10	85994809	86029716	131	26	40774	-1.4083	0.92048	RGR		
ENSG00000204518	1	12694566	12737097	117	16	35234	-1.4092	0.92062	AADACL4		
ENSG00000125571	2	113660548	113686459	124	6	48511	-1.4096	0.92067	IL37		
ENSG00000242802	7	4805253	4843943	242	27	37022	-1.4103	0.92078	AP5Z1		
ENSG00000197714	19	57781419	57814937	157	21	45314	-1.4104	0.92079	ZNF460		
ENSG00000130309	19	17656403	17703971	144	29	49650	-1.4106	0.92081	COLGALT1		
ENSG00000267022	19	44519506	44601471	177	16	27306	-1.4109	0.92087	ZNF223		
ENSG00000182180	10	74996510	75022451	72	3	18368	-1.4117	0.92098	MRPS16		
ENSG00000172992	17	43090708	43148473	201	23	53943	-1.4119	0.92101	DCAKD		
ENSG00000262814	17	79660387	79684556	111	15	54721	-1.412	0.92103	MRPL12		
ENSG00000101162	20	57584309	57611709	64	15	54874	-1.4126	0.92112	TUBB1		
ENSG00000197430	10	98092973	98129092	107	18	41609	-1.4134	0.92123	OPALIN		
ENSG00000112559	6	41594620	41631984	139	37	52181	-1.4141	0.92133	MDFI		
ENSG00000185359	17	79640356	79680168	212	21	53288	-1.4142	0.92135	HGS		
ENSG00000184281	11	2411718	2435106	51	29	37941	-1.4144	0.92137	TSSC4		
ENSG00000162631	1	107672629	108036080	861	143	46007	-1.4148	0.92144	NTNG1		
ENSG00000164252	5	76315076	76371059	169	25	50500	-1.4151	0.92149	AGGF1		
ENSG00000214530	11	72455774	72514726	157	20	48131	-1.4155	0.92154	STARD10		
ENSG00000010438	9	33740515	33809230	232	31	48534	-1.4162	0.92164	PRSS3		
ENSG00000235531	8	72730402	73040628	1356	132	48113	-1.4166	0.92169	RP11-383H13.1		
ENSG00000108932	17	66253167	66297408	122	23	51671	-1.4169	0.92175	SLC16A6		

ENSG00000158158	2	97416639	97487628	111	16	38247	-1.4172	0.92179	CNNM4		
ENSG00000170684	19	45564758	45589846	69	7	51131	-1.4172	0.92179	ZNF296		
ENSG00000214700	12	27223991	27245447	86	15	38385	-1.4174	0.92181	C12orf71		
ENSG00000186468	5	81559177	81584396	75	16	47358	-1.4178	0.92187	RPS23		
ENSG00000188086	3	46773582	46864048	173	16	29217	-1.4194	0.9221	PRSS45		
ENSG00000165323	11	92075262	92639618	1399	92	43510	-1.4195	0.92212	FAT3		
ENSG00000140307	15	59920261	59959740	117	11	41712	-1.4194	0.92212	GTF2A2		
ENSG00000171773	19	17556234	17581763	70	12	45671	-1.4212	0.92238	NXNL1		
ENSG00000167641	19	38731877	38757231	109	16	52588	-1.4215	0.92242	PPP1R14A		
ENSG00000109854	11	20375231	20415329	105	19	46006	-1.4226	0.92257	HTATIP2		
ENSG00000145743	5	107184736	107727799	1429	92	45659	-1.4232	0.92265	FBXL17		
ENSG00000075618	7	5622439	5656286	161	35	47300	-1.4237	0.92273	FSCN1		
ENSG00000163568	1	159022274	159126886	177	37	39882	-1.4247	0.92288	AIM2		
ENSG00000167759	19	51549463	51578371	85	28	46856	-1.4247	0.92288	KLK13		
ENSG00000215021	12	7064490	7089988	38	12	39068	-1.4258	0.92304	PHB2		
ENSG00000215252	15	34807408	34890704	156	19	48392	-1.4265	0.92314	GOLGA8B		
ENSG00000006210	16	57396370	57428960	111	31	45347	-1.427	0.92321	CX3CL1		
ENSG00000105948	7	138808490	138886732	60	16	38308	-1.4272	0.92324	TTC26		
ENSG00000222018	21	35762615	35783370	87	13	44279	-1.4275	0.92328	C21orf140		
ENSG00000156482	8	99027079	99068697	123	25	45590	-1.4281	0.92336	RPL30		
ENSG00000102743	13	41353548	41394247	119	19	43936	-1.4285	0.92343	SLC25A15		
ENSG00000159882	19	44497100	44528078	69	10	35480	-1.43	0.92365	ZNF230		
ENSG00000105518	19	11443452	11467194	56	12	35939	-1.4306	0.92372	TMEM205		
ENSG00000020577	14	55023815	55270033	701	144	46657	-1.4306	0.92373	SAMD4A		
ENSG00000160183	21	43781999	43826955	250	59	43564	-1.4307	0.92374	TMPRSS3		
ENSG00000203782	1	153222176	153244598	78	10	49457	-1.4314	0.92384	LOR		
ENSG00000135318	6	86149809	86215500	136	15	41977	-1.4327	0.92403	NT5E		
ENSG00000213079	6	155044459	155165192	283	27	43193	-1.4333	0.92411	SCAF8		
ENSG00000168288	2	150416148	150454330	110	12	34282	-1.4341	0.92423	MMADHC		
ENSG00000186283	1	179040512	179077158	122	23	54515	-1.4346	0.9243	TOR3A		
ENSG00000185883	16	2553871	2580219	19	12	49908	-1.4346	0.9243	ATP6V0C		
ENSG00000255804	14	23092673	23113716	131	7	52015	-1.4353	0.9244	OR6J1		
ENSG00000186591	7	129460572	129602789	583	31	50907	-1.4353	0.92441	UBE2H		
ENSG00000116786	1	16000827	16071264	216	19	38448	-1.4358	0.92447	PLEKHM2		
ENSG00000168497	2	192689028	192721981	67	22	50572	-1.4363	0.92454	SDPR		
ENSG00000131238	1	40528379	40573375	161	19	41408	-1.4378	0.92476	PPT1		

ENSG00000185594	15	97316619	97338845	74	30	51147	-1.4379	0.92477	SPATA8		
ENSG00000128604	7	128567666	128600089	113	21	49521	-1.4407	0.92516	IRF5		
ENSG00000164338	5	72851268	72887794	105	12	41881	-1.4425	0.92542	UTP15		
ENSG00000171262	15	38736328	38789911	216	22	53248	-1.4425	0.92542	FAM98B		
ENSG00000101751	18	51785774	51857636	252	17	51652	-1.4428	0.92545	POLI		
ENSG00000116962	1	236129130	236238462	294	44	39204	-1.4429	0.92548	NID1		
ENSG00000121104	17	47777694	47876542	109	32	44785	-1.4431	0.9255	FAM117A		
ENSG00000007216	17	26790311	26834799	109	15	50806	-1.4432	0.92552	SLC13A2		
ENSG00000144214	2	99890701	99931205	135	17	48936	-1.4452	0.92579	LYG1		
ENSG00000198054	21	39483545	39570110	213	27	33834	-1.4452	0.9258	DSCR8		
ENSG00000075643	18	33757482	33862120	369	56	50220	-1.4456	0.92585	MOCOS		
ENSG00000178386	19	44545520	44582144	76	10	28184	-1.4465	0.92599	ZNF223		
ENSG00000105953	7	44636171	44758665	212	32	46799	-1.4477	0.92615	OGDH		
ENSG00000060688	1	31722417	31779662	176	15	28869	-1.448	0.92619	SNRNP40		
ENSG00000206069	22	25321077	25352662	59	14	46925	-1.4482	0.92622	TMEM211		
ENSG00000116906	1	231366953	231423719	152	20	53171	-1.4491	0.92634	GNPAT		
ENSG00000187821	4	185929995	185951958	106	27	49102	-1.4491	0.92635	HELT		
ENSG00000161203	3	183882477	183911879	68	16	52150	-1.4504	0.92653	AP2M1		
ENSG00000116213	1	3537331	3579325	135	28	41497	-1.4507	0.92656	WRAP73		
ENSG00000103319	16	22207603	22308554	210	35	40712	-1.4506	0.92656	EEF2K		
ENSG00000159231	21	37497210	37528864	140	14	49993	-1.4513	0.92665	CBR3		
ENSG00000110330	11	102207942	102259401	125	17	54896	-1.4516	0.92669	BIRC2		
ENSG00000079385	19	43001456	43075386	64	10	39768	-1.4524	0.9268	CEACAM1		
ENSG00000185271	14	20886970	20913801	144	36	50581	-1.4526	0.92683	KLHL33		
ENSG00000151079	12	4908342	4970277	303	38	45949	-1.4554	0.92723	KCNA6		
ENSG00000183145	21	38368450	38401959	132	18	53227	-1.4555	0.92723	RIPPLY3		
ENSG00000182405	15	34384274	34406591	35	8	33628	-1.4561	0.92731	PGBD4		
ENSG00000154760	17	33752115	33785856	131	29	32060	-1.4567	0.92741	SLFN13		
ENSG00000104980	19	7981603	8018805	129	16	53328	-1.4577	0.92754	TIMM44		
ENSG00000205147	19	4031127	4053154	71	15	38435	-1.458	0.92758	AC016586.1		
ENSG00000152926	7	64422154	64477062	224	20	44049	-1.4583	0.92762	ZNF117		
ENSG00000197616	14	23841199	23887486	141	31	41559	-1.4599	0.92784	MYH6		
ENSG00000176358	17	47905671	47935379	32	11	48509	-1.46	0.92786	TAC4		
ENSG00000112118	6	52118807	52159679	135	27	47650	-1.4609	0.92798	MCM3		
ENSG00000129744	11	3656358	3695646	195	34	36147	-1.4616	0.92807	ART1		
ENSG00000259784	16	2553966	2587956	26	17	51298	-1.4621	0.92815	ATP6C		

ENSG00000108828	17	41156622	41187140	49	12	51230	-1.4622	0.92816	VAT1		
ENSG00000222046	1	32664695	32691797	43	10	33492	-1.4635	0.92833	DCDC2B		
ENSG00000273173	15	25190133	25233729	95	18	42485	-1.4635	0.92833	SNURF		
ENSG00000111241	12	4527321	4564780	116	19	42168	-1.464	0.9284	FGF6		
ENSG00000204237	17	79622066	79643665	160	14	37674	-1.464	0.9284	OXLD1		
ENSG00000196636	7	96735902	96821075	187	19	54977	-1.4655	0.92861	ACN9		
ENSG00000244588	20	1196700	1287065	296	45	47528	-1.4657	0.92864	RAD21L1		
ENSG00000130783	12	123248874	123322075	260	22	24955	-1.466	0.92868	CCDC62		
ENSG00000049323	2	33162039	33634576	2223	177	47556	-1.4667	0.92878	LTBP1		
ENSG00000163820	3	45949396	46047316	292	27	29302	-1.467	0.92881	FYCO1		
ENSG00000132792	20	36312408	36510531	388	35	50884	-1.4671	0.92883	CTNBL1		
ENSG00000133055	1	203126939	203154941	98	21	35278	-1.4678	0.92892	MYBPH		
ENSG00000117598	1	99345806	99480588	539	69	54557	-1.4683	0.92899	LPPR5		
ENSG00000267893	17	70026164	70046872	87	11	47802	-1.4692	0.92912	AC007461.1		
ENSG00000197056	1	35515387	35591460	69	18	35987	-1.4704	0.92927	ZMYM1		
ENSG00000138757	4	76557966	76659709	287	26	42281	-1.4708	0.92933	G3BP2		
ENSG00000120948	1	11062414	11095796	87	13	38249	-1.4709	0.92934	TARDBP		
ENSG00000188234	10	46311042	46359323	15	10	19659	-1.4709	0.92934	AGAP4		
ENSG00000176605	14	99167950	99194098	125	22	46094	-1.4711	0.92937	C14orf177		
ENSG00000172689	11	60542821	60578778	96	21	40346	-1.4712	0.92938	MS4A10		
ENSG00000168081	8	28164503	28210872	172	18	29104	-1.4722	0.92952	PNOC		
ENSG00000136213	7	2433223	2484242	131	24	51646	-1.4723	0.92953	CHST12		
ENSG00000189181	1	248834628	248855629	84	8	38624	-1.4728	0.9296	OR14I1		
ENSG00000140025	14	90251013	90431121	542	60	32428	-1.4736	0.9297	EFCAB11		
ENSG00000138079	2	44492599	44558633	175	22	41620	-1.4739	0.92974	SLC3A1		
ENSG00000010072	1	231462850	231500769	100	9	41378	-1.4741	0.92977	SPRTN		
ENSG00000165527	14	50349810	50371490	30	9	51095	-1.4741	0.92977	ARF6		
ENSG00000174111	17	36498111	36566019	142	18	44138	-1.4744	0.92981	SOCS7		
ENSG00000127947	7	77156592	77279388	394	30	43712	-1.4746	0.92984	PTPN12		
ENSG00000003400	2	202037604	202104129	131	19	43795	-1.4756	0.92998	CASP10		
ENSG00000204880	17	39243233	39264393	212	11	39596	-1.4757	0.92998	KRTAP4-8		
ENSG00000132478	17	73770681	73831886	137	22	35117	-1.4762	0.93006	UNK		
ENSG00000164976	9	34356668	34386851	62	13	42416	-1.4764	0.93009	KIAA1161		
ENSG00000123096	12	26264924	26462223	687	96	41341	-1.4771	0.93018	SSPN		
ENSG00000188032	19	14182431	14206687	35	14	47512	-1.4773	0.93021	C19orf67		
ENSG00000127515	19	14941760	14962689	117	28	45673	-1.4777	0.93025	OR7A10		

ENSG00000143575	1	154234987	154258351	41	10	51268	-1.4778	0.93026	HAX1		
ENSG00000086189	5	61673081	61709766	96	16	50578	-1.4787	0.93039	DIMT1		
ENSG00000196196	9	35896189	35917138	60	18	51506	-1.4787	0.93039	HRCT1		
ENSG00000163682	4	39445744	39470568	106	17	50721	-1.4793	0.93047	RPL9		
ENSG00000268423	19	47040313	47114118	233	46	49019	-1.4802	0.93059	AC011551.3		
ENSG00000196431	22	27007928	27036636	112	17	49000	-1.4804	0.93061	CRYBA4		
ENSG00000109771	4	186275032	186327053	158	28	42340	-1.4806	0.93065	LRP2BP		
ENSG00000162601	1	59110411	59175764	305	20	46537	-1.4807	0.93066	MYSM1		
ENSG00000125503	19	55592281	55638927	107	31	46517	-1.4813	0.93074	PPP1R12C		
ENSG00000145888	5	151192074	151314403	297	23	49027	-1.4821	0.93085	GLRA1		
ENSG00000164647	7	89773689	89804143	85	14	43004	-1.4822	0.93085	STEAP1		
ENSG00000178896	8	145123529	145145550	36	5	31141	-1.4822	0.93086	EXOSC4		
ENSG00000179817	11	18184384	18205827	106	7	50492	-1.4838	0.93107	MRGPRX4		
ENSG00000104936	19	46262975	46295810	57	14	52317	-1.4839	0.93109	DMPK		
ENSG00000205643	22	46629908	46656576	105	13	35983	-1.4848	0.93121	CDPF1		
ENSG00000129083	11	14454986	14531573	178	17	53542	-1.4865	0.93143	COPB1		
ENSG00000198435	9	140184083	140206703	40	15	38081	-1.4874	0.93155	NRARP		
ENSG00000126461	19	50135382	50171899	65	16	36491	-1.4887	0.93172	SCAF1		
ENSG00000006074	17	34381640	34409392	94	18	45360	-1.4891	0.93177	CCL18		
ENSG00000140519	15	89988680	90049844	113	18	47661	-1.4899	0.93187	RHCG		
ENSG00000160221	21	45543487	45575605	39	15	41130	-1.4902	0.93191	C21orf33		
ENSG00000167851	17	72452555	72490933	204	36	34674	-1.4903	0.93193	CD300A		
ENSG00000163945	4	1331054	1391837	223	29	36737	-1.4905	0.93196	UVSSA		
ENSG00000135945	2	100006938	100116497	296	21	51858	-1.4919	0.93213	REV1		
ENSG00000136206	7	44030488	44059721	68	12	50762	-1.492	0.93215	SPDYE1		
ENSG00000072952	11	10584638	10725535	530	70	43668	-1.4926	0.93223	MRVI1		
ENSG00000136011	12	103971051	104170505	781	122	44659	-1.493	0.93229	STAB2		
ENSG00000165120	7	129837700	129866683	88	18	41515	-1.4937	0.93237	SSMEM1		
ENSG00000184900	21	46215532	46248694	131	25	42928	-1.4939	0.93239	SUMO3		
ENSG00000102804	13	44997655	45161283	391	29	53615	-1.4947	0.93251	TSC22D1		
ENSG00000172348	6	46178475	46469709	657	59	36680	-1.4962	0.9327	RCAN2		
ENSG00000132341	12	131346424	131372223	99	15	53542	-1.4965	0.93274	RAN		
ENSG00000151835	13	23892965	24017841	466	68	49190	-1.4977	0.93289	SACS		
ENSG00000184182	2	238865469	238961236	305	20	49488	-1.4984	0.93299	UBE2F		
ENSG00000118434	6	88747507	88786550	65	9	48710	-1.4988	0.93304	SPACA1		
ENSG00000185298	17	79623394	79650934	189	15	40341	-1.5003	0.93324	CCDC137		

ENSG00000197591	1	247994199	248015254	113	14	33555	-1.5009	0.93331	OR11L1		
ENSG00000020129	1	36013074	36042875	14	7	46781	-1.5011	0.93333	NCDN		
ENSG00000162366	1	47639265	47666716	50	18	40764	-1.5015	0.93339	PDZK1IP1		
ENSG00000164334	5	118955254	118981517	137	9	53552	-1.5016	0.9334	FAM170A		
ENSG00000104970	19	55033909	55067053	149	34	49116	-1.5016	0.9334	KIR3DX1		
ENSG00000114013	3	121764213	121849983	206	45	46281	-1.5019	0.93344	CD86		
ENSG00000173212	1	116644376	116687861	138	24	40257	-1.5021	0.93346	MAB21L3		
ENSG00000120800	12	101663887	101790394	281	35	46206	-1.5028	0.93355	UTP20		
ENSG00000164181	5	60037618	60150216	303	34	41817	-1.5028	0.93356	ELOVL7		
ENSG00000197024	7	148813508	148890116	261	20	39024	-1.5037	0.93367	ZNF398		
ENSG00000242114	22	30811518	30835045	58	14	43674	-1.5047	0.9338	MTFP1		
ENSG00000166016	11	34162535	34389555	742	133	43171	-1.5051	0.93386	ABTB2		
ENSG00000160051	1	32661236	32684288	38	12	38523	-1.5058	0.93394	IQCC		
ENSG00000145734	5	70741442	70873649	361	18	54184	-1.506	0.93397	BDP1		
ENSG00000142661	1	24372525	24448665	294	40	44076	-1.5069	0.93408	MYOM3		
ENSG00000100485	14	50573847	50708276	477	37	47930	-1.5071	0.9341	SOS2		
ENSG00000180525	10	685888	721109	55	14	40496	-1.5088	0.93433	PRR26		
ENSG00000136859	9	129839611	129895162	86	16	44424	-1.5098	0.93445	ANGPTL2		
ENSG00000250709	13	36732931	36881979	657	25	54933	-1.511	0.93461	CCDC169-SOHLH2		
ENSG00000206549	3	46743605	46864064	275	26	32601	-1.5112	0.93463	PRSS50		
ENSG00000251209	15	98275448	98427780	700	81	47039	-1.5132	0.93489	LINC00923		
ENSG00000103051	16	70504471	70567468	100	18	37388	-1.514	0.93499	COG4		
ENSG00000135443	12	52743790	52771265	113	20	46209	-1.5154	0.93516	KRT85		
ENSG00000148344	9	132490610	132525326	163	28	42555	-1.5159	0.93522	PTGES		
ENSG00000176170	17	74362665	74393941	96	22	36512	-1.5161	0.93525	SPHK1		
ENSG00000147548	8	38117215	38249790	206	16	54514	-1.5163	0.93528	WHSC1L1		
ENSG00000269948	10	97699725	97754785	182	29	42068	-1.5166	0.93532	RP11-248J23.6		
ENSG00000122696	9	37869400	37914350	93	18	53165	-1.5171	0.93538	SLC25A51		
ENSG00000170608	19	46357247	46387055	102	22	49823	-1.5173	0.9354	FOXA3		
ENSG00000164418	6	101836664	102527958	2365	217	42778	-1.5174	0.93542	GRIK2		
ENSG00000162670	1	190056792	190456759	866	68	41759	-1.5177	0.93545	BRINP3		
ENSG00000230778	15	40563645	40584787	32	13	43824	-1.5187	0.93558	ANKRD63		
ENSG00000177669	8	29979340	30012202	74	10	32765	-1.5191	0.93563	MBOAT4		
ENSG00000122359	10	81900645	81975328	321	34	47136	-1.5191	0.93563	ANXA11		
ENSG00000131845	19	57852675	57881266	108	21	53106	-1.5197	0.9357	ZNF304		
ENSG00000119977	10	97413158	97463900	147	21	39882	-1.5214	0.93592	TCTN3		

ENSG00000182256	15	27206429	27788373	1818	221	39188	-1.5219	0.93598	GABRG3		
ENSG00000188959	9	112942328	112980469	154	27	43373	-1.5221	0.936	C9orf152		
ENSG00000175202	15	72958124	72988490	48	17	42905	-1.5221	0.93601	HIGD2B		
ENSG00000267819	12	131770067	131792763	50	15	19647	-1.523	0.93612	AC092850.1		
ENSG00000120669	13	36732345	36881979	659	25	54939	-1.5231	0.93614	SOHLH2		
ENSG00000168135	22	38812332	38861205	155	28	38044	-1.5234	0.93617	KCNJ4		
ENSG00000141971	19	17506531	17554533	144	28	38392	-1.5239	0.93624	MVB12A		
ENSG00000112619	6	42654340	42700312	167	19	54053	-1.5241	0.93626	PRPH2		
ENSG00000009780	1	28042490	28099633	32	19	46604	-1.5248	0.93635	FAM76A		
ENSG00000185477	4	90147537	90239161	247	44	41589	-1.5256	0.93644	GPRIN3		
ENSG00000213983	14	24018774	24047279	38	12	43705	-1.5264	0.93655	AP1G2		
ENSG00000136888	9	117340026	117370653	131	21	45878	-1.527	0.93662	ATP6V1G1		
ENSG00000130707	9	133310316	133386661	217	48	45188	-1.528	0.93674	ASS1		
ENSG00000133872	8	29910528	29950723	105	15	42014	-1.5288	0.93685	TMEM66		
ENSG00000142168	21	33021935	33051244	62	20	49816	-1.529	0.93687	SOD1		
ENSG00000188716	10	76787594	76828272	93	18	23057	-1.5291	0.93688	DUPD1		
ENSG00000087299	14	50694281	50789266	261	21	48212	-1.5307	0.93708	L2HGDH		
ENSG00000082684	3	122618041	122757452	457	73	40807	-1.5309	0.9371	SEMA5B		
ENSG00000083290	17	19664142	19781249	162	20	35554	-1.5329	0.93734	ULK2		
ENSG00000180822	6	3221637	3313607	437	34	34606	-1.533	0.93736	PSMG4		
ENSG00000240230	7	928415	1025235	475	92	45096	-1.5332	0.93738	COX19		
ENSG00000261147	15	90782788	90825440	140	13	32209	-1.5334	0.93741	RP11-697E2.6		
ENSG00000128641	2	192099911	192300115	368	23	49440	-1.5339	0.93748	MYO1B		
ENSG00000111300	12	112454500	112556826	103	24	42376	-1.5347	0.93757	NAA25		
ENSG00000106723	9	90993334	91103609	245	12	27674	-1.5355	0.93767	SPIN1		
ENSG00000119574	19	59014897	59060278	80	19	43376	-1.5358	0.93771	ZBTB45		
ENSG00000164074	4	128876461	128970866	88	26	43145	-1.5364	0.93778	C4orf29		
ENSG00000185352	13	96733093	97495671	2006	145	46127	-1.5364	0.93778	HS6ST3		
ENSG00000137440	4	15927192	15950363	78	19	48896	-1.5367	0.93782	FGFBP1		
ENSG00000113312	5	159426120	159502550	202	21	54261	-1.5374	0.93791	TTC1		
ENSG00000137760	11	107363452	107446472	292	33	40518	-1.5379	0.93797	ALKBH8		
ENSG00000204947	7	148789876	148833438	132	13	35498	-1.5387	0.93806	ZNF425		
ENSG00000176299	14	20238401	20259516	7	4	42851	-1.5402	0.93824	OR4M1		
ENSG00000203970	6	49966851	49999694	74	11	39913	-1.5404	0.93827	DEFB110		
ENSG00000134874	13	96220457	96306957	172	32	45962	-1.5407	0.93831	DZIP1		
ENSG00000144228	2	139249371	139341117	158	24	40996	-1.541	0.93834	SPOPL		

ENSG00000185523	1	212993483	213030991	213	16	49175	-1.542	0.93847	<i>C1orf227</i>		
ENSG00000152910	16	76301176	76603135	1317	89	37120	-1.5424	0.93851	<i>CNTNAP4</i>		
ENSG00000137077	9	34699002	34720121	70	17	34751	-1.5426	0.93853	<i>CCL21</i>		
ENSG00000130787	12	123309000	123357507	177	16	32103	-1.5428	0.93855	<i>HIP1R</i>		
ENSG00000170571	5	49682026	49749082	153	12	54659	-1.5436	0.93866	<i>EMB</i>		
ENSG00000164978	9	34319504	34353709	89	16	36869	-1.5436	0.93866	<i>NUDT2</i>		
ENSG00000170374	12	53710362	53749099	67	17	43030	-1.5446	0.93878	<i>SP7</i>		
ENSG00000077498	11	88900620	89038927	394	29	26592	-1.546	0.93894	<i>TYR</i>		
ENSG00000198854	1	152681998	152702905	89	5	48162	-1.5461	0.93896	<i>C1orf68</i>		
ENSG00000139505	13	25792307	25872147	166	24	48867	-1.5486	0.93927	<i>MTMR6</i>		
ENSG00000101489	18	34813010	35156000	906	159	45588	-1.549	0.93931	<i>CELF4</i>		
ENSG00000144648	3	42836244	42939466	277	34	43495	-1.5503	0.93947	<i>ACKR2</i>		
ENSG00000173578	3	46048516	46079234	113	12	28172	-1.5521	0.93968	<i>XCR1</i>		
ENSG00000240747	3	42840975	42994284	355	44	43299	-1.5524	0.93972	<i>KRBOX1</i>		
ENSG00000179846	19	45643008	45673408	73	21	52458	-1.5531	0.9398	<i>NKPD1</i>		
ENSG00000137561	8	63951112	64008612	205	25	38335	-1.5536	0.93986	<i>TTPA</i>		
ENSG00000257704	19	47768142	47788979	76	13	46372	-1.5542	0.93993	<i>PRR24</i>		
ENSG00000213471	15	90782762	90818199	119	11	30110	-1.5551	0.94004	<i>TTLL13</i>		
ENSG00000152595	4	88732563	88777969	224	35	48837	-1.5554	0.94007	<i>MEPE</i>		
ENSG00000165059	9	71617469	71639039	82	19	46272	-1.5568	0.94024	<i>PRKACG</i>		
ENSG00000132330	2	238959530	239018054	251	26	44363	-1.5579	0.94037	<i>SCLY</i>		
ENSG00000177733	5	137077075	137100039	25	10	49282	-1.5581	0.9404	<i>HNRNPA0</i>		
ENSG00000178828	1	20130523	20151771	113	29	43733	-1.559	0.9405	<i>RNF186</i>		
ENSG00000234511	5	169649451	169689579	64	19	51938	-1.559	0.9405	<i>C5orf58</i>		
ENSG00000249459	17	18551742	18595575	124	18	43766	-1.5612	0.94076	<i>ZNF286B</i>		
ENSG00000241644	7	30727601	30807218	270	56	43014	-1.5613	0.94077	<i>INMT</i>		
ENSG00000117475	1	169327208	169375778	164	19	44219	-1.5631	0.94099	<i>BLZF1</i>		
ENSG00000099625	19	1218286	1248026	92	18	50764	-1.5636	0.94104	<i>C19orf26</i>		
ENSG00000064692	5	121637049	121809914	292	35	52314	-1.5638	0.94106	<i>SNCAIP</i>		
ENSG00000235162	12	105619068	105799875	695	72	50108	-1.5644	0.94113	<i>C12orf75</i>		
ENSG00000182035	20	37199838	37227106	70	16	30625	-1.5652	0.94123	<i>ADIG</i>		
ENSG00000198477	22	22828767	22873505	149	18	34904	-1.5655	0.94127	<i>ZNF280B</i>		
ENSG00000183273	12	119762517	119988852	658	101	47415	-1.5678	0.94153	<i>CCDC60</i>		
ENSG00000121417	19	58131761	58164147	155	10	48459	-1.5683	0.94159	<i>ZNF211</i>		
ENSG00000060656	1	29553028	29663325	295	49	38930	-1.5701	0.9418	<i>PTPRU</i>		
ENSG00000172752	3	130054359	130213688	538	60	41873	-1.5729	0.94213	<i>COL6A5</i>		

ENSG00000082482	1	215169118	215420436	851	70	31658	-1.5752	0.94239	KCNK2		
ENSG00000121743	13	20702394	20745188	162	29	34161	-1.5752	0.9424	GJA3		
ENSG00000122497	1	147993642	148035863	5	3	42848	-1.5757	0.94245	NBPF14		
ENSG00000183034	17	72910370	72940007	56	19	38537	-1.5768	0.94258	OTOP2		
ENSG00000101463	20	24439835	24657252	624	79	48065	-1.5788	0.94281	SYNDIG1		
ENSG00000135441	12	56099820	56123871	40	15	34579	-1.579	0.94284	BLOC1S1		
ENSG00000127334	12	68032118	68069186	82	14	54457	-1.5792	0.94286	DYRK2		
ENSG00000152315	14	90518109	90662201	582	71	38976	-1.5807	0.94303	KCNK13		
ENSG00000269700	10	52142766	52164321	68	14	44097	-1.5811	0.94307	AC069547.2		
ENSG00000120699	13	37562953	37593750	40	9	42804	-1.5813	0.9431	EXOSC8		
ENSG00000163913	3	129148968	129249198	243	18	34527	-1.5833	0.94333	IFT122		
ENSG00000196460	2	102003823	102101165	415	29	39769	-1.5835	0.94335	RFX8		
ENSG00000132142	17	35431923	35776909	587	60	35395	-1.5841	0.94341	ACACA		
ENSG00000185070	14	85986488	86105034	424	64	47429	-1.5845	0.94346	FLRT2		
ENSG00000172123	17	33728079	33770302	148	28	26578	-1.585	0.94352	SLFN12		
ENSG00000145214	4	942675	990683	155	30	49758	-1.5852	0.94354	DGKQ		
ENSG00000172273	11	118982297	119016752	94	10	23660	-1.5852	0.94354	HINFP		
ENSG00000205403	4	110651852	110733335	201	25	46348	-1.5856	0.94358	CFI		
ENSG00000151693	2	9336894	9555812	501	52	44515	-1.5862	0.94366	ASAP2		
ENSG00000112695	6	75937391	75970039	69	9	24182	-1.5877	0.94383	COX7A2		
ENSG00000168260	14	50540369	50569361	105	18	49926	-1.588	0.94386	C14orf183		
ENSG00000267496	17	41984576	42005326	88	13	37778	-1.5883	0.94389	FAM215A		
ENSG00000203836	1	147564428	147644886	3	2	12600	-1.5887	0.94394	NBPF24		
ENSG00000175093	3	140760244	140877453	246	37	39753	-1.5893	0.944	SPSB4		
ENSG00000114030	3	122130796	122243792	328	29	51223	-1.5905	0.94414	KPNA1		
ENSG00000205445	21	45960240	45981388	70	12	50596	-1.5909	0.94419	KRTAP10-2		
ENSG00000144283	2	159303476	159549391	851	53	39194	-1.5917	0.94428	PKP4		
ENSG00000179913	19	17895637	17933891	127	31	48838	-1.592	0.9443	B3GNT3		
ENSG00000241794	1	153018589	153040013	73	11	28858	-1.593	0.94441	SPRR2A		
ENSG00000137073	9	33911691	34058947	518	32	47779	-1.5946	0.9446	UBAP2		
ENSG00000205441	21	46010497	46032091	96	8	27889	-1.595	0.94464	KRTAP10-7		
ENSG00000121289	19	33359902	33472897	514	44	51462	-1.5955	0.9447	CEP89		
ENSG00000182718	15	60629333	60705082	214	37	47313	-1.5961	0.94477	ANXA2		
ENSG00000116350	1	29464255	29518499	130	23	39009	-1.5974	0.94492	SRSF4		
ENSG00000268098	21	37392368	37427818	123	14	53881	-1.5975	0.94492	AP000688.1		
ENSG00000112561	6	41641716	41713997	233	45	51581	-1.5981	0.94498	TFEB		

ENSG00000182836	5	41297056	41520730	600	62	39397	-1.5982	0.945	PLCXD3		
ENSG00000072858	3	113241143	113358425	390	49	41448	-1.599	0.94509	SIDT1		
ENSG00000268688	2	37058327	37078530	41	11	33579	-1.6002	0.94522	AC007382.1		
ENSG00000103723	15	83318033	83388666	184	27	42597	-1.6006	0.94526	AP3B2		
ENSG00000198380	2	69536905	69624382	181	12	36579	-1.6012	0.94534	GFPT1		
ENSG00000172289	11	59470296	59491337	67	8	26786	-1.6013	0.94535	OR10V1		
ENSG00000086967	19	50926160	50979578	168	34	46421	-1.6029	0.94553	MYBPC2		
ENSG00000156486	8	99429250	99455076	36	12	52190	-1.6045	0.94569	KCNS2		
ENSG00000075539	4	48489378	48792339	463	36	47348	-1.6048	0.94573	FRYL		
ENSG00000263053	17	79359275	79385658	74	19	37495	-1.6048	0.94573	RP11-1055B8.6		
ENSG00000151474	10	13675706	14514141	3738	356	45685	-1.6059	0.94586	FRMD4A		
ENSG00000241241	17	39247754	39268461	182	11	34193	-1.6071	0.94598	KRTAP4-16P		
ENSG00000261603	3	46751073	46787919	160	14	29879	-1.6075	0.94603	PRSS46		
ENSG00000040275	5	169000638	169041782	145	15	51452	-1.6089	0.94618	SPDL1		
ENSG00000173334	8	126432563	126460647	55	20	37729	-1.6089	0.94618	TRIB1		
ENSG00000215845	1	160997421	161018780	64	15	41300	-1.6093	0.94623	TSTD1		
ENSG00000131669	9	95873771	95906570	139	24	38525	-1.6118	0.9465	NINJ1		
ENSG00000080371	12	72138654	72194699	112	15	34305	-1.6132	0.94665	RAB21		
ENSG00000134996	9	77693459	77772181	326	48	51579	-1.6162	0.94698	OSTF1		
ENSG00000100294	22	43518212	43549400	59	20	40133	-1.6169	0.94705	MCAT		
ENSG00000130561	2	234206462	234265701	207	30	42969	-1.6184	0.94721	SAG		
ENSG00000179632	8	145149402	145172514	48	7	32889	-1.6209	0.94748	MAF1		
ENSG00000238227	9	138996427	139020731	88	22	50513	-1.6211	0.9475	C9orf69		
ENSG00000128408	22	45799572	45838376	145	14	30746	-1.6214	0.94753	RIBC2		
ENSG00000222031	2	151847734	151915288	274	29	38858	-1.6214	0.94754	AC023469.1		
ENSG00000099958	22	24166690	24191315	154	19	45715	-1.6241	0.94782	DERL3		
ENSG00000120910	8	22288332	22408652	264	20	48099	-1.6243	0.94784	PPP3CC		
ENSG00000033122	1	70024081	70627628	1901	142	47291	-1.6257	0.94799	LRRC7		
ENSG00000177212	1	248426073	248447138	77	5	50177	-1.6269	0.94812	OR2T33		
ENSG00000157219	7	154852034	154887459	143	15	47616	-1.6269	0.94812	HTR5A		
ENSG00000160293	9	136617016	136867726	1237	142	41139	-1.6271	0.94814	VAV2		
ENSG00000166900	11	59470929	59583354	363	18	28765	-1.6285	0.94829	STX3		
ENSG00000121570	3	109034988	109066419	112	10	21423	-1.6307	0.94852	DPPA4		
ENSG00000168710	1	110517308	110576357	53	19	39056	-1.6307	0.94853	AHCYL1		
ENSG00000101349	20	9508036	9829689	1118	118	43786	-1.632	0.94866	PAK7		
ENSG00000180872	6	50001288	50026364	69	12	38795	-1.6329	0.94875	DEFB112		

ENSG00000188611	10	51932538	52018370	106	15	20665	-1.633	0.94877	ASAH2		
ENSG00000107897	10	27474146	27541059	411	26	38280	-1.6336	0.94883	ACBD5		
ENSG00000271321	7	143442182	143464789	4	2	42915	-1.6341	0.94888	CTAGE6		
ENSG00000173085	4	84172689	84216067	111	14	41372	-1.6341	0.94889	COQ2		
ENSG00000140463	15	72968527	73040817	164	26	43583	-1.6351	0.94899	BBS4		
ENSG00000081041	4	74952752	74975010	35	12	35821	-1.6352	0.949	CXCL2		
ENSG00000120436	6	167559759	167581817	53	12	53695	-1.6354	0.94902	GPR31		
ENSG00000181409	17	79081095	79149877	333	62	42631	-1.6356	0.94904	AATK		
ENSG00000134248	1	110933871	110960564	81	11	50939	-1.6361	0.94909	LAMTOR5		
ENSG00000154079	6	71266620	71309272	156	12	51429	-1.6361	0.9491	C6orf57		
ENSG00000182899	3	197666858	197693481	70	10	36124	-1.6366	0.94914	RPL35A		
ENSG00000162722	1	248010501	248051507	236	36	44912	-1.6371	0.94919	TRIM58		
ENSG00000089723	14	94482675	94525276	161	23	46373	-1.6375	0.94924	OTUB2		
ENSG00000152642	3	32137181	32220205	361	34	30410	-1.6412	0.94962	GPD1L		
ENSG00000157927	7	4826686	4933350	530	61	41385	-1.6425	0.94975	RADIL		
ENSG00000127318	12	68632022	68657387	118	16	49095	-1.6435	0.94986	IL22		
ENSG00000163069	4	52876872	52914648	54	11	35744	-1.6443	0.94994	SGCB		
ENSG00000136689	2	113854791	113901593	198	23	43583	-1.6451	0.95003	IL1RN		
ENSG00000165819	14	21956277	21989517	106	17	52475	-1.6455	0.95006	METTL3		
ENSG00000164576	5	153815517	153850614	87	26	52627	-1.6461	0.95013	SAP30L		
ENSG00000105321	19	47749237	47785210	117	15	48168	-1.6461	0.95013	CCDC9		
ENSG00000112116	6	52091479	52119335	93	18	47113	-1.6475	0.95028	IL17F		
ENSG00000157259	7	92066767	92098150	81	13	48390	-1.6478	0.9503	GATAD1		
ENSG00000182601	16	25693347	26159009	1811	261	49152	-1.6484	0.95036	HS3ST4		
ENSG00000213096	19	24206276	24322654	450	19	50336	-1.6484	0.95037	ZNF254		
ENSG00000184787	21	46178955	46231934	226	29	47679	-1.6499	0.95052	UBE2G2		
ENSG00000254349	8	75502010	75745548	696	81	41588	-1.6502	0.95055	RP11-758M4.1		
ENSG00000104613	8	19664651	19719594	170	28	52134	-1.6504	0.95057	INTS10		
ENSG00000197437	1	247825320	247846365	140	9	54818	-1.6506	0.95059	OR13G1		
ENSG00000186212	4	77806082	77829002	72	9	54259	-1.6518	0.95071	SOWAHB		
ENSG00000089195	20	5907881	5941182	165	27	36298	-1.6528	0.95081	TRMT6		
ENSG00000087495	20	58142564	58432766	940	131	42526	-1.6528	0.95081	PHACTR3		
ENSG00000138286	10	74917924	75014262	240	7	19905	-1.6536	0.9509	FAM149B1		
ENSG00000170421	12	53280977	53353738	291	31	50335	-1.6541	0.95094	KRT8		
ENSG00000177045	19	46258043	46282484	38	9	51245	-1.6558	0.95112	SIX5		
ENSG00000105866	7	21457652	21564440	382	51	39576	-1.656	0.95114	SP4		

ENSG00000177483	2	238697032	238761451	167	23	39134	-1.6574	0.95128	<i>RBM44</i>		
ENSG00000111845	6	10684928	10720015	25	16	53733	-1.6573	0.95128	<i>PAK1IP1</i>		
ENSG00000213132	3	187886331	187908598	85	22	40781	-1.6579	0.95133	<i>AC022498.1</i>		
ENSG00000139173	12	44219770	44793545	1616	83	36579	-1.6579	0.95133	<i>TMEM117</i>		
ENSG00000243130	19	43501808	43540664	79	18	27261	-1.6585	0.95139	<i>PSG11</i>		
ENSG00000105550	19	49248816	49271587	71	21	32814	-1.6613	0.95167	<i>FGF21</i>		
ENSG00000221845	7	47684842	47711246	95	18	54804	-1.6642	0.95196	<i>C7orf65</i>		
ENSG00000151239	12	44177526	44210178	89	17	48586	-1.6642	0.95197	<i>TWF1</i>		
ENSG00000169026	4	665618	693230	70	21	50520	-1.6664	0.95218	<i>MFSD7</i>		
ENSG00000241962	2	99747948	99949204	574	46	45393	-1.6672	0.95226	<i>C2orf15</i>		
ENSG00000170967	11	103897308	103919922	60	13	45175	-1.6672	0.95226	<i>DDI1</i>		
ENSG00000118939	13	76113619	76190085	263	24	38912	-1.6681	0.95235	<i>UCHL3</i>		
ENSG00000073146	22	50518308	50610119	539	27	50979	-1.6684	0.95238	<i>MOV10L1</i>		
ENSG00000176619	19	2417636	2466994	218	28	47155	-1.6698	0.95252	<i>LMNB2</i>		
ENSG00000068796	5	61591989	61843076	611	42	50616	-1.6701	0.95255	<i>KIF2A</i>		
ENSG00000205108	9	34713052	34739464	81	14	35139	-1.6702	0.95256	<i>FAM205A</i>		
ENSG00000174196	10	51177938	51202032	1	1	42696	-1.6706	0.9526	<i>FAM21D</i>		
ENSG00000182919	11	93464757	93507915	104	9	31987	-1.6723	0.95277	<i>C11orf54</i>		
ENSG00000170293	3	32270171	32421817	577	113	46454	-1.675	0.95303	<i>CMTM8</i>		
ENSG00000142197	21	37519080	37676572	701	90	48237	-1.6753	0.95306	<i>DOPEY2</i>		
ENSG00000174227	4	482989	543985	277	17	34053	-1.6754	0.95307	<i>PIGG</i>		
ENSG00000175746	15	39532885	39557046	85	20	47436	-1.6756	0.95309	<i>C15orf54</i>		
ENSG00000187766	21	46021996	46042871	86	12	30489	-1.6759	0.95312	<i>KRTAP10-8</i>		
ENSG00000100129	22	38234875	38295414	89	15	44277	-1.6763	0.95316	<i>EIF3L</i>		
ENSG00000182223	4	48482269	48506406	57	9	51271	-1.6774	0.95327	<i>ZAR1</i>		
ENSG00000084453	12	21407534	21582528	711	83	45585	-1.6777	0.9533	<i>SLCO1A2</i>		
ENSG00000165617	14	59090685	59125039	103	20	50556	-1.6794	0.95346	<i>DACT1</i>		
ENSG00000183696	7	48118225	48158330	75	17	45463	-1.6797	0.95349	<i>UPP1</i>		
ENSG00000105278	19	3794022	3879030	288	37	49307	-1.6803	0.95355	<i>ZFR2</i>		
ENSG00000033627	17	40600862	40684629	154	23	48372	-1.685	0.95401	<i>ATP6V0A1</i>		
ENSG00000185504	17	79496911	79530987	136	26	48857	-1.6854	0.95404	<i>C17orf70</i>		
ENSG00000131941	19	33459499	33565794	456	52	35171	-1.686	0.9541	<i>RHPN2</i>		
ENSG00000095777	10	26213196	26511456	1544	43	50232	-1.6865	0.95415	<i>MYO3A</i>		
ENSG00000188051	19	17536318	17569376	87	19	44349	-1.687	0.9542	<i>TMEM221</i>		
ENSG00000162692	1	101175298	101214601	65	23	42253	-1.6878	0.95428	<i>VCAM1</i>		
ENSG00000105963	7	927540	1005043	397	83	45698	-1.6879	0.95429	<i>ADAP1</i>		

ENSG00000264545	9	21792635	22042985	572	81	39389	-1.6915	0.95463	RP11-145E5.5		
ENSG00000258873	19	57655389	57688811	142	25	35956	-1.6915	0.95463	DUXA		
ENSG00000162461	1	16052900	16077891	60	12	43715	-1.6921	0.95468	SLC25A34		
ENSG00000116237	1	6271253	6306032	91	16	35060	-1.6932	0.9548	ICMT		
ENSG00000258984	2	238865656	239018053	552	33	47180	-1.6934	0.95481	UBE2F-SCLY		
ENSG00000120549	10	23973675	24846772	2787	269	45135	-1.6941	0.95487	KIAA1217		
ENSG00000105639	19	17925589	17968880	111	31	43556	-1.6943	0.95489	JAK3		
ENSG00000185305	5	53169775	53616412	1572	148	45524	-1.6951	0.95497	ARL15		
ENSG00000177105	11	3838208	3872213	89	20	48653	-1.6978	0.95522	RHOG		
ENSG00000182196	12	123454607	123477456	22	7	41337	-1.6984	0.95528	ARL6IP4		
ENSG00000100836	14	23780498	23805394	60	17	45461	-1.6992	0.95536	PABPN1		
ENSG00000135406	12	49677035	49702465	114	11	46601	-1.7005	0.95548	PRPH		
ENSG00000118526	6	134200276	134226691	79	15	51718	-1.7014	0.95556	TCF21		
ENSG00000251569	2	170325990	170392432	200	31	48550	-1.7044	0.95585	RP11-724O16.1		
ENSG00000184937	11	32399321	32467176	284	29	29325	-1.7047	0.95588	WT1		
ENSG00000168314	3	39498689	39580970	366	19	22934	-1.7054	0.95594	MOBP		
ENSG00000196774	9	67916761	67979840	8	3	42619	-1.7072	0.95611	ANKRD20A1		
ENSG00000136052	12	105186331	105362522	600	47	41463	-1.7081	0.95619	SLC41A2		
ENSG00000100139	22	38291664	38348829	105	22	46088	-1.7096	0.95633	MICALL1		
ENSG00000134461	10	5893580	5941869	250	24	43932	-1.7098	0.95635	ANKRD16		
ENSG00000104228	8	27132404	27178836	93	14	41253	-1.7114	0.9565	TRIM35		
ENSG00000243137	19	43686854	43721451	139	21	22771	-1.7146	0.95679	PSG4		
ENSG00000205457	16	33194156	33274727	3	1	42891	-1.7155	0.95688	TP53TG3C		
ENSG00000089009	12	112832994	112866642	35	8	34301	-1.7159	0.95691	RPL6		
ENSG00000117697	1	212889495	212975124	453	24	46399	-1.718	0.9571	NSL1		
ENSG00000183850	19	23248012	23340021	239	22	46220	-1.719	0.95719	ZNF730		
ENSG00000138678	4	84447067	84537028	318	26	49757	-1.7191	0.9572	AGPAT9		
ENSG00000167535	12	49197577	49232724	57	16	50113	-1.7198	0.95727	CACNB3		
ENSG00000131697	1	5912871	6062533	517	45	54184	-1.721	0.95737	NPHP4		
ENSG00000188501	15	66829517	66868317	165	30	53610	-1.7213	0.9574	LCTL		
ENSG00000205609	16	28380900	28425200	1	1	43203	-1.7213	0.9574	EIF3CL		
ENSG00000163093	2	170325688	170392432	201	31	48595	-1.7233	0.95758	BBS5		
ENSG00000181656	1	100993693	101017574	64	10	36962	-1.7234	0.95759	GPR88		
ENSG00000140332	15	70330129	70400515	194	47	44527	-1.7245	0.95769	TLE3		
ENSG00000093134	6	133033926	133065904	137	20	43856	-1.7246	0.9577	VNN3		
ENSG00000171135	3	9922238	9946033	81	17	42471	-1.7262	0.95784	JAGN1		

ENSG00000134779	18	34349987	34419158	131	11	50495	-1.7291	0.95811	TPGS2		
ENSG00000177556	5	151111877	151162093	126	15	44120	-1.7305	0.95823	ATOX1		
ENSG00000134138	15	37171406	37403504	504	119	46410	-1.7322	0.95838	MEIS2		
ENSG00000170509	4	88214941	88254058	132	24	49685	-1.7325	0.95841	HSD17B13		
ENSG00000180432	3	42887497	42927633	102	14	43772	-1.733	0.95846	CYP8B1		
ENSG00000269396	7	292918	314070	41	16	31125	-1.7353	0.95865	AC187652.1		
ENSG00000146676	7	44905896	44934960	45	10	45077	-1.7357	0.95869	PURB		
ENSG00000253857	8	56064043	56087287	54	11	41933	-1.7356	0.95869	RP11-386G21.2		
ENSG00000213551	10	74933120	75018620	213	6	19504	-1.7375	0.95885	DNAJC9		
ENSG00000197487	19	56677389	56707144	167	36	41913	-1.7395	0.95903	GALP		
ENSG00000102531	13	49540048	49793915	360	31	45672	-1.7411	0.95917	FNDC3A		
ENSG00000166091	14	23836017	23858981	71	21	45522	-1.7419	0.95924	CMTM5		
ENSG00000162627	1	99117236	99236056	409	28	47850	-1.7428	0.95931	SNX7		
ENSG00000065600	1	212527273	212598243	194	33	41785	-1.7433	0.95936	TMEM206		
ENSG00000174442	15	66787297	66852115	218	27	55777	-1.7453	0.95953	ZWILCH		
ENSG00000158773	1	160999041	161025767	74	15	38838	-1.7469	0.95968	USF1		
ENSG00000103264	16	87350593	87435748	311	50	40526	-1.7476	0.95973	FBXO31		
ENSG00000103522	16	27403483	27472115	246	50	49166	-1.7496	0.95991	IL21R		
ENSG00000120738	5	137791179	137815004	60	13	45555	-1.7502	0.95995	EGR1		
ENSG00000258677	8	74590926	74801089	472	47	48685	-1.7502	0.95996	RP11-463D19.2		
ENSG00000260300	16	83931738	83995058	392	48	47696	-1.7508	0.96001	RP11-505K9.4		
ENSG00000159128	21	34765202	34861655	308	25	37169	-1.7523	0.96014	IFNGR2		
ENSG00000158286	1	6255535	6291359	93	17	34127	-1.7551	0.96037	RNF207		
ENSG00000215375	4	657369	685822	72	16	51258	-1.7557	0.96043	MYL5		
ENSG00000013588	12	13033716	13080871	136	28	37686	-1.756	0.96045	GPRC5A		
ENSG00000110675	11	107451817	107547505	289	49	39339	-1.7562	0.96047	ELMOD1		
ENSG00000165124	9	113117531	113352160	1091	105	49227	-1.7567	0.96052	SVEP1		
ENSG00000178401	12	49730700	49761309	66	10	26832	-1.7583	0.96065	DNAJC22		
ENSG00000011275	7	5649678	5831370	714	58	44950	-1.7612	0.9609	RNF216		
ENSG00000113296	5	79277134	79389110	319	26	49677	-1.7617	0.96094	THBS4		
ENSG00000120008	10	122600687	122679036	371	22	52946	-1.7625	0.96101	WDR11		
ENSG00000213923	22	38676697	38804527	253	52	45753	-1.7637	0.96111	CSNK1E		
ENSG00000197322	17	32891142	32916388	99	22	50486	-1.7658	0.96128	C17orf102		
ENSG00000179943	19	56092746	56123336	95	17	51667	-1.766	0.9613	FIZ1		
ENSG00000185238	11	20399076	20540840	291	36	46913	-1.7667	0.96136	PRMT3		
ENSG00000105229	19	3997644	4049384	164	22	43863	-1.7667	0.96136	PIAS4		

ENSG00000135482	12	56501943	56526278	42	14	33184	-1.768	0.96147	ZC3H10		
ENSG00000179119	11	18617948	18666338	172	28	39123	-1.7687	0.96153	SPTY2D1		
ENSG00000188993	4	52849868	52893786	81	12	35152	-1.7688	0.96154	LRRC66		
ENSG00000157214	7	89786904	89877451	279	25	44099	-1.7691	0.96156	STEAP2		
ENSG00000138081	2	48006455	48142932	431	35	52574	-1.7701	0.96164	FBXO11		
ENSG00000078967	7	43956037	44005735	169	23	53753	-1.7704	0.96167	UBE2D4		
ENSG00000110880	12	109028885	109135372	270	31	41538	-1.7715	0.96176	CORO1C		
ENSG00000117595	1	209949036	209989465	121	15	52839	-1.7728	0.96187	IRF6		
ENSG00000204640	2	101076944	101109742	219	14	39259	-1.7732	0.9619	NMS		
ENSG00000229117	12	56500370	56521727	37	14	34698	-1.7738	0.96195	RPL41		
ENSG00000114021	3	100043545	100085710	88	22	41738	-1.7746	0.96202	NIT2		
ENSG00000106571	7	41990548	42287469	954	139	47151	-1.7747	0.96203	GLI3		
ENSG00000179526	8	145143536	145173027	59	7	30689	-1.7772	0.96223	SHARPIN		
ENSG00000184647	8	10373056	10421676	308	35	53650	-1.7779	0.96229	PRSS55		
ENSG00000178287	8	7695398	7736389	7	2	44066	-1.7792	0.9624	SPAG11A		
ENSG00000182613	5	180571943	180592890	128	17	29730	-1.7799	0.96246	OR2V2		
ENSG00000176753	15	40532865	40555170	54	20	40551	-1.7813	0.96257	C15orf56		
ENSG00000109184	4	52699166	52793003	124	15	33962	-1.7829	0.9627	DCUN1D4		
ENSG00000083807	19	58980879	59033780	124	20	47435	-1.7852	0.96289	SLC27A5		
ENSG00000136450	17	56070721	56094707	48	14	48274	-1.7857	0.96293	SRSF1		
ENSG00000257411	12	56485115	56513073	49	18	40567	-1.786	0.96295	RP11-603J24.9		
ENSG00000106714	9	39062764	39298312	220	20	40199	-1.7866	0.963	CNTNAP3		
ENSG00000143850	1	204177979	204356793	598	66	49333	-1.7872	0.96305	PLEKHA6		
ENSG00000232040	6	28529407	28593989	173	27	40463	-1.7873	0.96306	SCAND3		
ENSG00000186354	9	91595778	91621055	72	20	52454	-1.7876	0.96308	C9orf47		
ENSG00000103549	16	30763066	30797628	36	14	44742	-1.7881	0.96312	RNF40		
ENSG00000075624	7	5556782	5613415	234	48	44589	-1.7885	0.96315	ACTB		
ENSG00000100916	14	36285524	36411531	212	33	35622	-1.7889	0.96318	BRMS1L		
ENSG00000182150	9	98627983	98786842	458	40	53401	-1.7891	0.9632	ERCC6L2		
ENSG00000107341	9	33807565	33930402	371	29	53016	-1.7926	0.96348	UBE2R2		
ENSG00000101336	20	30629991	30699659	127	24	38444	-1.7958	0.96374	HCK		
ENSG00000128731	15	28346186	28577298	143	30	34870	-1.7978	0.96389	HERC2		
ENSG00000113396	5	127863706	128379335	2360	95	47549	-1.7997	0.96405	SLC27A6		
ENSG00000196954	11	104803593	104850163	122	20	46873	-1.8003	0.96409	CASP4		
ENSG00000145725	5	102445853	102558500	279	23	48903	-1.801	0.96415	PIIP5K2		
ENSG00000115257	19	1471427	1500751	83	19	40193	-1.8022	0.96424	PCSK4		

ENSG00000074966	4	48058410	48146273	242	34	45719	-1.8026	0.96428	TXK		
ENSG00000198093	19	52382477	52418293	158	15	31364	-1.8043	0.96441	ZNF649		
ENSG00000268461	19	20037769	20058639	75	15	33216	-1.8054	0.9645	AC007204.1		
ENSG00000132376	17	1387865	1430182	183	28	53343	-1.8061	0.96455	INPP5K		
ENSG00000268702	14	23780839	23801484	48	14	46249	-1.8064	0.96457	AL049829.1		
ENSG00000259494	15	88992707	89020650	14	8	47634	-1.8068	0.9646	MRPL46		
ENSG00000132423	6	99807276	99852080	146	22	47836	-1.8078	0.96468	COQ3		
ENSG00000149657	20	60687517	60720434	69	9	35102	-1.8088	0.96476	LSM14B		
ENSG00000100376	22	45694849	45747836	182	15	31483	-1.8092	0.96479	FAM118A		
ENSG00000187010	1	25588884	25666936	35	21	45487	-1.8097	0.96483	RHD		
ENSG00000120658	13	43777654	44371044	1625	124	38870	-1.8123	0.96503	ENOX1		
ENSG00000162383	1	53542855	53618289	393	54	46565	-1.8127	0.96506	SLC1A7		
ENSG00000166090	14	23832018	23855612	70	21	44988	-1.8133	0.96511	IL25		
ENSG00000259495	15	80627195	80705917	406	36	54011	-1.8149	0.96523	RP11-210M15.2		
ENSG00000218891	19	56078899	56102211	102	14	53920	-1.8154	0.96527	ZNF579		
ENSG00000040341	8	74322604	74669943	1171	88	41944	-1.8171	0.9654	STAU2		
ENSG00000117616	1	25558728	25674704	76	37	46106	-1.8179	0.96546	C1orf63		
ENSG00000132591	17	27171956	27198085	49	7	36948	-1.8182	0.96548	ERAL1		
ENSG00000120539	10	27433753	27485853	239	24	46739	-1.8186	0.96552	MASTL		
ENSG00000095637	10	97061528	97331171	1049	119	47063	-1.8197	0.96559	SORBS1		
ENSG00000138756	4	79687496	79847526	306	20	29184	-1.8199	0.96561	BMP2K		
ENSG00000177034	5	79265584	79297082	69	9	55294	-1.8205	0.96566	MTX3		
ENSG00000135312	6	78161948	78183490	53	13	47904	-1.822	0.96578	HTR1B		
ENSG00000205318	6	10623993	10657501	49	12	41457	-1.8222	0.96579	GCNT6		
ENSG00000077782	8	38258656	38336352	148	27	48583	-1.8225	0.96581	FGFR1		
ENSG00000258311	12	56099820	56128487	45	16	36056	-1.8227	0.96582	RP11-644F5.10		
ENSG00000170515	12	56488103	56517691	47	17	39855	-1.8235	0.96589	PA2G4		
ENSG00000154767	3	14176647	14230283	118	21	50929	-1.8238	0.96591	XPC		
ENSG00000204941	19	43660408	43700688	260	24	16868	-1.8241	0.96593	PSG5		
ENSG00000181722	3	114046941	114876118	1691	191	42980	-1.8254	0.96603	ZBTB20		
ENSG00000235194	14	23754852	23782057	56	19	48687	-1.8256	0.96605	PPP1R3E		
ENSG00000159885	19	44519494	44547265	59	9	28318	-1.8274	0.96618	ZNF222		
ENSG00000181215	4	5948845	6001545	381	50	43023	-1.8296	0.96634	C4orf50		
ENSG00000205495	11	5057756	5078691	211	8	52818	-1.8298	0.96636	OR52J3		
ENSG00000182459	17	80307123	80331652	104	13	53167	-1.8297	0.96636	TEX19		
ENSG00000186638	9	34242379	34339198	241	23	33193	-1.8319	0.96652	KIF24		

ENSG00000113580	5	142647496	142825077	297	36	50878	-1.833	0.9666	NR3C1		
ENSG00000104321	8	72922152	72997852	348	40	51515	-1.8342	0.96669	TRPA1		
ENSG00000255470	11	18151733	18221042	350	20	49942	-1.8352	0.96676	RP11-113D6.6		
ENSG00000143891	2	38883052	38978379	240	35	35551	-1.8354	0.96677	GALM		
ENSG00000121964	2	144685635	145100135	630	73	44925	-1.8368	0.96688	GTDC1		
ENSG00000101361	20	2622791	2649039	161	23	50233	-1.8399	0.96711	NOP56		
ENSG00000139722	12	123339882	123390991	99	15	38580	-1.8406	0.96716	VPS37B		
ENSG00000198825	10	121475609	121598652	346	30	38141	-1.841	0.96719	INPP5F		
ENSG00000137434	6	10661651	10705030	31	19	57321	-1.8412	0.9672	C6orf52		
ENSG00000188124	11	6779218	6800286	110	16	50868	-1.843	0.96733	OR2AG2		
ENSG00000163291	4	79798281	79870592	195	14	28144	-1.8448	0.96746	PAQR3		
ENSG00000132879	1	11704432	11733384	96	26	47121	-1.845	0.96748	FBXO44		
ENSG00000162972	2	200810040	200883263	154	23	49360	-1.8452	0.9675	C2orf47		
ENSG00000244694	6	47835764	48046425	762	73	54659	-1.8476	0.96767	PTCHD4		
ENSG00000146701	7	75667369	75706826	116	14	35326	-1.8485	0.96774	MDH2		
ENSG00000196704	17	66233715	66263297	118	20	41729	-1.8487	0.96775	AMZ2		
ENSG00000117501	1	170894612	171043906	571	54	50217	-1.8501	0.96785	MROH9		
ENSG00000148386	9	138545168	138568268	104	22	48400	-1.8506	0.96789	LCN9		
ENSG00000111602	12	56800903	56853187	126	15	43690	-1.8509	0.96791	TIMELESS		
ENSG00000153094	2	111866955	111936024	175	22	49099	-1.8575	0.96838	BCL2L11		
ENSG00000169710	17	80026214	80066208	127	26	38600	-1.8598	0.96855	FASN		
ENSG00000133997	14	71037974	71077384	169	13	27067	-1.8602	0.96857	MED6		
ENSG00000175267	16	22093859	22178287	117	29	40062	-1.8628	0.96876	VWA3A		
ENSG00000106624	7	44133960	44164161	79	16	48702	-1.8644	0.96887	AEBP1		
ENSG00000001036	6	143805948	143842827	85	18	41755	-1.8645	0.96888	FUCA2		
ENSG00000243449	4	2033689	2055697	36	9	37192	-1.8711	0.96933	C4orf48		
ENSG00000115042	2	96058469	96092364	27	9	36980	-1.8736	0.96951	FAHD2A		
ENSG00000134504	18	24024874	24247365	669	124	45284	-1.8742	0.96955	KCTD1		
ENSG00000197037	7	99204569	99240030	36	14	49639	-1.875	0.96961	ZSCAN25		
ENSG00000168566	6	7580432	7622200	138	22	44526	-1.8793	0.9699	SNRNP48		
ENSG00000212935	21	45967673	45988643	70	12	51189	-1.8797	0.96993	KRTAP10-3		
ENSG00000187531	17	79859815	79889199	24	16	46904	-1.8831	0.97016	SIRT7		
ENSG00000151005	4	164382257	164405047	50	10	51190	-1.884	0.97022	TKTL2		
ENSG00000169032	15	66669155	66794650	425	39	48953	-1.8845	0.97025	MAP2K1		
ENSG00000182054	15	90616277	90655736	130	19	38898	-1.8863	0.97038	IDH2		
ENSG00000160124	3	122068438	122112078	145	22	42861	-1.8879	0.97048	CCDC58		

ENSG00000198650	16	71589563	71621033	55	13	41773	-1.8894	0.97058	TAT		
ENSG00000214265	15	25190181	25255423	170	21	43877	-1.8906	0.97066	SNURF		
ENSG00000137285	6	3214495	3241964	31	11	41107	-1.8914	0.97071	TUBB2B		
ENSG00000156931	3	184519931	184780402	567	42	38093	-1.8939	0.97088	VPS8		
ENSG00000160551	17	27707482	27888922	392	29	41366	-1.8947	0.97093	TAOK1		
ENSG00000206106	21	31952424	31972716	33	9	54274	-1.8949	0.97094	KRTAP22-2		
ENSG00000198363	8	62403116	62637155	642	71	45050	-1.8964	0.97104	ASPH		
ENSG00000160256	21	46349925	46406904	228	25	43406	-1.8985	0.97118	FAM207A		
ENSG00000212807	7	143919004	143939936	1	1	56198	-1.8987	0.9712	OR2A42		
ENSG00000155719	16	21679835	21782050	149	30	43178	-1.8993	0.97124	OTOA		
ENSG00000198300	19	57311445	57362096	89	18	51673	-1.8998	0.97127	PEG3		
ENSG00000091527	3	133282574	133319105	110	21	42645	-1.9018	0.9714	CDV3		
ENSG00000125834	20	2072257	2167684	282	39	38395	-1.902	0.97141	STK35		
ENSG00000103494	16	53621595	53747850	325	33	32657	-1.9034	0.9715	RPGRIP1L		
ENSG00000182938	17	72921814	72956087	83	28	40800	-1.9034	0.97151	OTOP3		
ENSG00000101439	20	23598534	23629110	122	9	50689	-1.9047	0.97159	CST3		
ENSG00000117477	1	169354108	169439907	246	28	42920	-1.9067	0.97172	CCDC181		
ENSG00000196981	3	122120715	122144882	69	14	51340	-1.9068	0.97173	WDR5B		
ENSG00000131044	20	30448505	30542764	214	39	46357	-1.9069	0.97173	TTLL9		
ENSG00000162769	1	213021597	213082705	405	25	46211	-1.9112	0.97201	FLVCR1		
ENSG00000120705	5	137831784	137888989	123	20	42452	-1.9115	0.97203	ETF1		
ENSG00000132549	8	100015494	100899808	1879	58	46911	-1.9116	0.97204	VPS13B		
ENSG00000270099	10	97610305	97694601	267	34	45394	-1.9128	0.97211	RP11-248J23.7		
ENSG00000131408	19	50822910	50896239	156	22	48088	-1.9128	0.97212	NR1H2		
ENSG00000147570	8	66923795	67022751	328	43	39613	-1.9165	0.97235	DNAJC5B		
ENSG00000214787	11	59958726	60020561	229	22	53173	-1.9173	0.9724	MS4A4E		
ENSG00000116670	1	11724537	11761707	135	30	44285	-1.9217	0.97268	MAD2L2		
ENSG00000141526	17	80176273	80229005	117	28	38984	-1.9266	0.97298	SLC16A3		
ENSG00000198668	14	90852846	90884605	60	14	40409	-1.93	0.9732	CALM1		
ENSG00000117479	1	169423147	169465241	101	25	43563	-1.9308	0.97325	SLC19A2		
ENSG00000177051	19	46203887	46244162	79	21	47163	-1.9326	0.97336	FBXO46		
ENSG00000127511	19	16930211	17001164	176	28	48404	-1.9332	0.97339	SIN3B		
ENSG00000128524	7	128492880	128515898	55	15	36342	-1.9364	0.97359	ATP6V1F		
ENSG00000205020	17	34528310	34550280	1	1	43140	-1.9366	0.9736	CCL4L1		
ENSG00000181927	11	55395834	55416772	11	6	44072	-1.9372	0.97364	OR4P4		
ENSG00000151176	12	113786371	113837203	104	16	52175	-1.9394	0.97378	PLBD2		

ENSG00000124570	6	2938393	2982090	193	29	45237	-1.9397	0.97379	SERPINB6		
ENSG00000169085	8	67362238	67440759	242	39	41949	-1.9422	0.97394	C8orf46		
ENSG00000196542	3	161052580	161100668	218	30	46639	-1.9423	0.97395	SPTSSB		
ENSG00000268852	17	80204131	80226080	21	11	47939	-1.9427	0.97397	AC132872.2		
ENSG00000166920	15	45712727	45750959	55	12	34261	-1.9429	0.97398	C15orf48		
ENSG00000128585	7	130784855	131191395	1101	142	46685	-1.9481	0.9743	MKLN1		
ENSG00000176018	5	89801428	89835401	87	12	49770	-1.9509	0.97446	LYSMD3		
ENSG00000108830	17	41167258	41194057	37	5	48353	-1.9508	0.97446	RND2		
ENSG00000205089	5	132073137	132099856	10	6	49903	-1.9542	0.97466	CCNI2		
ENSG00000106078	7	51073909	51394515	745	91	43375	-1.9546	0.97468	COBL		
ENSG00000142530	19	50960042	50990010	93	20	40055	-1.9574	0.97485	FAM71E1		
ENSG00000099953	22	24100413	24136503	106	23	47805	-1.9574	0.97485	MMP11		
ENSG00000196083	3	190221840	190385843	534	93	41422	-1.958	0.97488	IL1RAP		
ENSG00000198382	11	75516212	75864239	649	51	34861	-1.9586	0.97492	UVRAG		
ENSG00000205442	9	24532950	24555944	73	7	51788	-1.9588	0.97493	IZUMO3		
ENSG00000139193	12	6544033	6570884	95	22	49940	-1.9587	0.97493	CD27		
ENSG00000267110	19	55656125	55682039	87	19	32321	-1.96	0.975	CTD-2587H24.4		
ENSG00000181458	3	100201463	100306288	313	24	38508	-1.9624	0.97514	TMEM45A		
ENSG00000162542	1	19998706	20136438	471	74	47191	-1.9634	0.9752	TMCO4		
ENSG00000148600	10	85944410	85989377	150	23	45385	-1.9663	0.97537	CDHR1		
ENSG00000256980	6	73923267	73945493	73	13	50413	-1.9678	0.97545	KHDC1L		
ENSG00000135063	9	71929488	72017371	368	46	50740	-1.9693	0.97554	FAM189A2		
ENSG00000101213	20	62149778	62178723	103	25	35182	-1.9698	0.97557	PTK6		
ENSG00000080493	4	72043003	72447804	742	83	31467	-1.9724	0.97572	SLC4A4		
ENSG00000214782	11	60486789	60521685	83	17	48250	-1.9734	0.97578	MS4A18		
ENSG00000197063	17	79866146	79895590	24	15	47473	-1.9749	0.97586	MAFG		
ENSG00000100697	14	95542565	95634347	163	24	42871	-1.9758	0.97591	DICER1		
ENSG00000160345	9	138377027	138403580	95	23	43015	-1.9765	0.97595	C9orf116		
ENSG00000197858	8	145127493	145151119	41	5	31038	-1.9788	0.97608	GPAA1		
ENSG00000182652	14	20205587	20226528	8	4	43564	-1.9793	0.97611	OR4Q3		
ENSG00000180016	17	3290398	3311704	57	12	33430	-1.9794	0.97612	OR1E1		
ENSG00000259431	14	24015216	24039480	36	12	44176	-1.981	0.9762	THTPA		
ENSG00000107957	10	105338285	105625301	792	114	44866	-1.9834	0.97634	SH3PXD2A		
ENSG00000267913	21	45577818	45603580	34	20	43684	-1.9849	0.97642	AP001055.1		
ENSG00000176294	14	20177174	20306531	48	22	43352	-1.9858	0.97647	OR4N2		
ENSG00000177186	1	248476894	248497899	108	4	55719	-1.9885	0.97662	OR2M7		

ENSG00000162460	1	16058917	16084477	71	15	47144	-1.9893	0.97666	<i>TMEM82</i>		
ENSG00000177174	1	248502077	248523015	162	9	49627	-1.9893	0.97667	<i>OR14C36</i>		
ENSG00000205174	7	108514032	108534644	73	13	44734	-1.993	0.97687	<i>C7orf66</i>		
ENSG00000168811	3	159696537	159723806	86	17	40420	-1.9939	0.97692	<i>IL12A</i>		
ENSG00000196533	1	206228872	206298647	78	20	46405	-1.9966	0.97707	<i>C1orf186</i>		
ENSG00000111731	12	22591517	22707480	202	13	31679	-1.9969	0.97708	<i>C2CD5</i>		
ENSG00000163625	4	85580704	85897544	423	44	48518	-1.9981	0.97715	<i>WDFY3</i>		
ENSG00000104375	8	99403631	99965055	941	86	53165	-2.0036	0.97744	<i>STK3</i>		
ENSG00000105643	19	18101941	18134911	125	27	47154	-2.0043	0.97748	<i>ARRDC2</i>		
ENSG00000139370	12	129267739	129318528	235	24	48966	-2.0075	0.97765	<i>SLC15A4</i>		
ENSG00000116663	1	11714181	11744411	117	24	46851	-2.0081	0.97769	<i>FBXO6</i>		
ENSG00000167193	17	1313983	1376456	246	31	47291	-2.0087	0.97771	<i>CRK</i>		
ENSG00000138709	4	128972423	129154086	420	22	40570	-2.0102	0.97779	<i>LARP1B</i>		
ENSG00000269035	19	17537420	17581613	123	22	45778	-2.0108	0.97783	<i>CTD-2521M24.10</i>		
ENSG00000131944	19	33453115	33479128	108	27	50219	-2.011	0.97784	<i>C19orf40</i>		
ENSG00000060566	19	4143598	4183051	105	22	42094	-2.0153	0.97806	<i>CREB3L3</i>		
ENSG00000241186	3	46606045	46678033	350	42	46803	-2.0164	0.97812	<i>TDGF1</i>		
ENSG00000213967	19	24087678	24137961	175	23	53184	-2.0177	0.97819	<i>ZNF726</i>		
ENSG00000113657	5	146760374	146899619	209	44	50038	-2.0187	0.97824	<i>DPYSL3</i>		
ENSG00000165275	9	37743804	37788969	148	21	54451	-2.022	0.97841	<i>TRMT10B</i>		
ENSG00000248905	15	33047747	33496897	2237	214	46784	-2.0223	0.97843	<i>FMN1</i>		
ENSG00000186260	16	14155178	14370630	428	34	30023	-2.0223	0.97843	<i>MKL2</i>		
ENSG00000171695	20	62704733	62725712	49	15	49494	-2.0267	0.97865	<i>C20orf201</i>		
ENSG00000267954	22	24114467	24136145	52	11	48350	-2.0272	0.97868	<i>AP000349.1</i>		
ENSG00000183281	2	87219682	87258975	4	2	27658	-2.0284	0.97874	<i>PLGLB1</i>		
ENSG00000133985	14	71098504	71152077	177	48	47148	-2.0315	0.9789	<i>TTC9</i>		
ENSG00000172809	17	72189721	72216794	116	30	45024	-2.0345	0.97905	<i>RPL38</i>		
ENSG00000196944	1	248514883	248535929	159	9	44244	-2.0356	0.9791	<i>OR2T4</i>		
ENSG00000161202	3	183863176	183901398	85	17	52000	-2.0364	0.97914	<i>DVL3</i>		
ENSG00000121005	8	75886750	75956793	267	33	43488	-2.0367	0.97916	<i>CRISPLD1</i>		
ENSG00000150637	18	67488394	67639039	464	71	46453	-2.037	0.97917	<i>CD226</i>		
ENSG00000051620	6	138714668	138753334	97	13	32598	-2.0377	0.97921	<i>HEBP2</i>		
ENSG00000187170	1	152670636	152691967	63	10	39624	-2.04	0.97932	<i>LCE4A</i>		
ENSG00000151025	10	25453991	25901155	1939	109	32003	-2.0399	0.97932	<i>GPR158</i>		
ENSG00000138078	2	44533420	44599001	197	24	44572	-2.04	0.97933	<i>PREPL</i>		
ENSG00000186001	3	197508097	197625307	292	42	39009	-2.0499	0.97981	<i>LRCH3</i>		

ENSG00000089169	12	112998184	113346686	699	107	44349	-2.0505	0.97984	RPH3A		
ENSG00000103995	15	48995125	49113343	218	33	39685	-2.0507	0.97985	CEP152		
ENSG00000089199	20	5882076	5916007	163	22	45228	-2.051	0.97987	CHGB		
ENSG00000139352	12	103341464	103364294	63	19	41784	-2.0529	0.97996	ASCL1		
ENSG00000112406	6	139446249	139511939	100	13	48886	-2.0545	0.98004	HECA		
ENSG00000138829	5	127583601	128004878	1365	71	43701	-2.0555	0.98009	FBN2		
ENSG00000198517	7	1560350	1592679	146	10	55822	-2.0558	0.9801	MAFK		
ENSG00000118046	19	1179406	1238428	196	44	48122	-2.0573	0.98017	STK11		
ENSG00000127948	7	75518518	75626173	214	44	43256	-2.0611	0.98035	POR		
ENSG00000154553	4	186412851	186466766	150	24	35136	-2.0618	0.98039	PDLIM3		
ENSG00000037474	5	6589352	6643404	284	31	48536	-2.0629	0.98044	NSUN2		
ENSG00000133794	11	13288199	13418813	380	58	40498	-2.0646	0.98052	ARNTL		
ENSG00000101222	20	3748151	3772095	76	20	50159	-2.0676	0.98066	SPEF1		
ENSG00000130475	19	17848527	17909377	229	35	37643	-2.069	0.98073	FCHO1		
ENSG00000129991	19	55653137	55679141	82	19	32417	-2.0706	0.9808	TNNI3		
ENSG00000087470	12	32822134	32908486	403	11	51365	-2.0768	0.98109	DNM1L		
ENSG00000138073	2	27343624	27367543	43	11	49763	-2.08	0.98124	PREB		
ENSG00000243501	6	73909469	73982919	314	32	50437	-2.0843	0.98143	RP11-257K9.8		
ENSG00000166800	11	18467371	18511147	139	28	49350	-2.0858	0.9815	LDHAL6A		
ENSG00000106100	7	30454143	30528400	187	27	43362	-2.0868	0.98155	NOD1		
ENSG00000203734	6	139107063	139235207	472	73	41912	-2.0886	0.98163	ECT2L		
ENSG00000269709	1	48559306	48579878	47	14	52377	-2.0895	0.98167	AL109659.1		
ENSG00000145248	4	48475360	48501213	85	12	54099	-2.0902	0.9817	SLC10A4		
ENSG00000134905	13	111283759	111375950	440	38	41815	-2.0902	0.9817	CARS2		
ENSG00000100503	14	51176481	51307839	340	60	47616	-2.0904	0.98171	NIN		
ENSG00000269964	6	78390375	78646691	965	56	45369	-2.0914	0.98176	MEI4		
ENSG00000109689	4	26849300	27037003	458	59	48858	-2.092	0.98178	STIM2		
ENSG00000158748	1	19981780	20016055	116	17	46578	-2.0982	0.98206	HTR6		
ENSG00000077235	16	27460876	27571234	164	20	48407	-2.0997	0.98212	GTF3C1		
ENSG00000113356	5	89757565	89820370	141	23	50914	-2.1123	0.98267	POLR3G		
ENSG00000108270	17	35296175	35424171	206	30	41750	-2.1164	0.98285	AATF		
ENSG00000184350	11	3238928	3263616	127	26	51908	-2.1174	0.98289	MARGPRE		
ENSG00000100721	14	96166304	96190533	75	11	27655	-2.1186	0.98294	TCL1A		
ENSG00000115841	2	38140330	38304285	487	43	37235	-2.1221	0.98308	RMDN2		
ENSG00000109180	4	48797229	48873834	110	17	51212	-2.1228	0.98312	OCIAD1		
ENSG00000099995	22	30717977	30762936	134	15	49700	-2.1228	0.98312	SF3A1		

ENSG00000101187	20	61263797	61327137	234	58	47964	-2.1232	0.98313	SLCO4A1		
ENSG00000184378	3	169474709	169497683	48	9	42679	-2.1237	0.98315	ACTRT3		
ENSG00000139151	12	18826103	18900991	279	38	43783	-2.1305	0.98343	PLCZ1		
ENSG00000143322	1	179058462	179208819	416	33	55716	-2.1324	0.98351	ABL2		
ENSG00000175065	18	28946740	29004875	135	17	45456	-2.1326	0.98352	DSG4		
ENSG00000181991	15	89000684	89032222	15	10	47223	-2.1338	0.98357	MRPS11		
ENSG00000172175	18	56328618	56427371	283	30	35150	-2.1374	0.98372	MALT1		
ENSG00000127419	4	916175	962444	148	32	51254	-2.1392	0.98379	TMEM175		
ENSG00000114023	3	122093023	122141181	163	24	45885	-2.1459	0.98406	FAM162A		
ENSG00000239672	17	49220897	49249789	114	19	49652	-2.1484	0.98416	NME1		
ENSG00000156052	9	80321003	80656374	628	55	43680	-2.1506	0.98424	GNAQ		
ENSG00000157335	16	70197225	70231264	30	14	43055	-2.1511	0.98426	CLEC18C		
ENSG00000101160	20	57560240	57592302	104	17	54942	-2.151	0.98426	CTS2		
ENSG00000047578	16	27551454	27801690	367	34	49721	-2.1589	0.98457	KIAA0556		
ENSG00000173889	3	169794520	169909537	210	23	52461	-2.1597	0.9846	PHC3		
ENSG00000080603	16	30699530	30765602	47	13	35311	-2.1616	0.98467	SRCAP		
ENSG00000036565	8	19992366	20050717	240	37	49443	-2.1675	0.9849	SLC18A1		
ENSG00000179295	12	112846155	112957717	113	18	39067	-2.1675	0.9849	PTPN11		
ENSG00000147576	8	67332420	67393836	248	33	39575	-2.171	0.98503	ADHFE1		
ENSG00000171863	2	3612795	3638509	118	25	50549	-2.1726	0.9851	RPS7		
ENSG00000153904	1	85774164	86053933	887	92	49706	-2.1735	0.98513	DDAH1		
ENSG00000214167	17	65017509	65038198	62	20	45704	-2.1746	0.98517	AC005544.1		
ENSG00000139985	14	70908874	70936622	122	21	37405	-2.1779	0.98529	ADAM21		
ENSG00000107789	10	89254632	89323217	155	28	48961	-2.1782	0.9853	MINPP1		
ENSG00000189045	5	74897284	74977671	230	31	33971	-2.1799	0.98537	ANKDD1B		
ENSG00000128513	7	124452440	124580037	444	16	52977	-2.1828	0.98547	POT1		
ENSG00000167646	19	55660031	55688090	132	19	30055	-2.1833	0.98549	DNAAF3		
ENSG00000135940	2	98252503	98274846	36	10	31995	-2.1867	0.98562	COX5B		
ENSG00000131236	1	40495905	40548321	185	11	46692	-2.188	0.98567	CAP1		
ENSG00000198129	8	7343368	7376833	4	2	42697	-2.1922	0.98582	DEFB107B		
ENSG00000136718	2	131089798	131115383	33	13	37972	-2.1927	0.98583	IMP4		
ENSG00000140575	15	90921450	91055475	439	30	32444	-2.2018	0.98616	IQGAP1		
ENSG00000100156	22	38464141	38490100	54	15	49941	-2.2023	0.98618	SLC16A8		
ENSG00000184292	1	59031099	59053166	131	15	46385	-2.2039	0.98624	TACSTD2		
ENSG00000139192	12	6550856	6585683	155	25	49960	-2.2081	0.98638	TAPBPL		
ENSG00000165714	12	12500013	12629840	457	52	38931	-2.2088	0.98641	LOH12CR1		

ENSG00000171940	20	52173604	52236446	174	37	45219	-2.2096	0.98644	ZNF217		
ENSG00000122140	9	138381830	138406519	86	19	44465	-2.2121	0.98652	MRPS2		
ENSG00000221900	7	53093349	53114617	105	19	41864	-2.2123	0.98653	POM121L12		
ENSG00000091513	3	133454800	133507850	195	28	51559	-2.2154	0.98663	TF		
ENSG00000181867	5	121177650	121198519	65	20	40802	-2.2215	0.98684	FTMT		
ENSG00000115073	2	98262431	98290570	45	11	26149	-2.2229	0.98689	ACTR1B		
ENSG00000110492	11	46392306	46415375	20	7	41147	-2.2269	0.98702	MDK		
ENSG00000164975	9	15412702	15475951	208	25	34135	-2.228	0.98706	SNAPC3		
ENSG00000072786	5	171459077	171625390	683	85	40356	-2.2297	0.98712	STK10		
ENSG00000126709	1	27982572	28008729	34	17	41675	-2.2301	0.98713	IFI6		
ENSG00000131400	19	50851734	50879087	70	9	54112	-2.232	0.98719	NAPSA		
ENSG00000186143	2	27349723	27372278	47	10	45462	-2.2324	0.98721	C2orf53		
ENSG00000132640	20	11861371	11917257	157	14	48328	-2.2403	0.98746	BTBD3		
ENSG00000114473	3	197605946	197697013	279	29	37351	-2.2444	0.9876	IQCG		
ENSG00000167037	22	25192236	25333545	608	108	47155	-2.2453	0.98763	SGSM1		
ENSG00000142794	1	21756621	21821498	260	27	43285	-2.2483	0.98772	NBPF3		
ENSG00000077935	22	45729944	45819500	278	17	30636	-2.2494	0.98776	SMC1B		
ENSG00000071203	11	60250251	60284903	210	16	51067	-2.2501	0.98778	MS4A12		
ENSG00000135409	12	53807639	53835318	53	6	43537	-2.2567	0.98799	AMHR2		
ENSG00000213995	13	111257881	111302340	222	25	43416	-2.263	0.98818	CARKD		
ENSG00000107438	10	96987329	97060781	278	38	44115	-2.2647	0.98823	PDLIM1		
ENSG00000204752	19	7001514	7023338	96	15	51955	-2.2654	0.98826	AC025278.1		
ENSG00000249967	10	99334131	99443667	278	37	44688	-2.2683	0.98834	PI4K2A		
ENSG00000136295	7	2661585	2714436	159	33	46101	-2.2695	0.98838	TTYH3		
ENSG00000181333	11	93744527	93856917	271	34	44498	-2.2719	0.98845	HEPHL1		
ENSG00000161542	17	74295567	74390602	293	44	36149	-2.2752	0.98855	PRPSAP1		
ENSG00000139220	12	81642045	82163332	1412	125	44691	-2.2754	0.98856	PPFIA2		
ENSG00000204979	11	60272886	60320194	199	24	41686	-2.277	0.98861	MS4A13		
ENSG00000107372	9	74956341	74990163	92	11	46370	-2.2777	0.98863	ZFAND5		
ENSG00000145723	5	102411704	102465855	219	14	52952	-2.2827	0.98878	GIN1		
ENSG00000109536	4	190851943	190894359	118	6	45159	-2.2853	0.98885	FRG1		
ENSG00000085978	2	234108697	234214320	335	40	46733	-2.2913	0.98903	ATG16L1		
ENSG00000197893	10	115338475	115433886	372	40	47163	-2.2928	0.98907	NRAP		
ENSG00000147852	9	2611834	2670053	207	40	42188	-2.2946	0.98912	VLDLR		
ENSG00000143801	1	227047885	227093806	127	19	49555	-2.2967	0.98918	PSEN2		
ENSG00000141854	19	14173348	14195874	64	12	45704	-2.2971	0.98919	hsa-mir-1199		

ENSG00000157978	1	25860071	25905377	116	20	39364	-2.2988	0.98924	LDLRAP1		
ENSG00000134007	14	70979075	71011732	108	16	32969	-2.3043	0.9894	ADAM20		
ENSG00000198104	1	248540910	248561836	109	8	24772	-2.3054	0.98943	OR2T6		
ENSG00000154065	18	21168890	21252849	157	34	42326	-2.3097	0.98955	ANKRD29		
ENSG00000270617	7	43896157	43956188	183	24	52361	-2.3111	0.98959	URGCP-MRPS24		
ENSG00000187173	1	152660840	152681918	81	11	35873	-2.32	0.98983	LCE2A		
ENSG00000085274	3	169480619	169517504	74	10	42456	-2.3223	0.98989	MYNN		
ENSG00000268365	1	240619183	240653504	137	25	45690	-2.3269	0.99002	AL646016.1		
ENSG00000155252	10	99334131	99446191	287	38	45067	-2.3277	0.99004	PI4K2A		
ENSG00000241945	21	45517171	45561063	42	16	41295	-2.331	0.99012	PWP2		
ENSG00000086200	5	61689799	61934409	521	35	53863	-2.3313	0.99013	IPO11		
ENSG00000159496	22	24020323	24051363	107	16	53503	-2.3359	0.99025	RGL4		
ENSG00000004700	12	21611845	21664603	266	34	50981	-2.3385	0.99032	RECQL		
ENSG00000181444	7	149451271	149480568	105	18	34829	-2.3389	0.99033	ZNF467		
ENSG00000198915	10	43679983	43772367	356	40	41214	-2.3394	0.99034	RASGEF1A		
ENSG00000258643	14	23766044	23804578	87	23	45910	-2.34	0.99036	BCL2L2-PABPN1		
ENSG00000170255	11	18945360	18971054	31	11	38316	-2.3405	0.99037	MRGPRX1		
ENSG00000268344	13	26442422	26462679	30	7	50438	-2.3413	0.99039	AL138815.2		
ENSG00000174982	11	55408380	55429315	14	8	44187	-2.3437	0.99045	OR4S2		
ENSG00000183813	3	32983066	33007841	53	9	32059	-2.3444	0.99047	CCR4		
ENSG00000205352	12	53825389	53850429	36	8	40529	-2.3449	0.99048	PRR13		
ENSG00000173064	12	112587992	112829896	221	29	40506	-2.3495	0.9906	HECTD4		
ENSG00000122574	7	29836102	29966682	493	63	51137	-2.35	0.99061	WIPF3		
ENSG00000159322	15	73033710	73088187	127	19	38641	-2.3514	0.99065	ADPGK		
ENSG00000249008	4	178153693	178179927	79	20	45692	-2.352	0.99066	RP11-487E13.1		
ENSG00000178695	13	77444312	77470540	79	23	41676	-2.352	0.99066	KCTD12		
ENSG00000188800	1	40701619	40727363	39	14	48800	-2.357	0.99079	TMCO2		
ENSG00000170955	11	6330176	6351877	108	22	45325	-2.3601	0.99086	PRKCDBP		
ENSG00000106608	7	43905493	43976010	226	26	53870	-2.3615	0.9909	URGCP		
ENSG00000155130	6	114168541	114194648	54	17	47272	-2.3625	0.99092	MARCKS		
ENSG00000133119	13	34382186	34550695	432	42	25920	-2.3713	0.99114	RFC3		
ENSG00000185917	21	37396839	37461687	262	28	54384	-2.3781	0.9913	SETD4		
ENSG00000101435	20	23535369	23559386	113	7	52290	-2.3786	0.99131	CST9L		
ENSG00000183150	12	12803825	12859141	147	31	50906	-2.3789	0.99132	GPR19		
ENSG00000066583	5	128420444	128459721	158	24	36271	-2.3886	0.99154	ISOC1		
ENSG00000071242	6	166812852	167329939	1829	224	42700	-2.389	0.99155	RPS6KA2		

ENSG00000183921	16	22167618	22213075	75	15	37538	-2.396	0.99171	<i>SDR42E2</i>		
ENSG00000099800	19	2415622	2437892	103	16	45013	-2.3959	0.99171	<i>TIMM13</i>		
ENSG00000034693	6	143761944	143821147	119	14	45985	-2.3983	0.99177	<i>PEX3</i>		
ENSG00000144355	2	172939468	172964405	57	19	49869	-2.402	0.99185	<i>DLX1</i>		
ENSG00000171450	2	219814377	219836876	52	9	32424	-2.4061	0.99194	<i>CDK5R2</i>		
ENSG00000173088	10	97657360	97708480	192	26	41790	-2.412	0.99207	<i>C10orf131</i>		
ENSG00000197879	17	1357392	1406106	192	50	49454	-2.4156	0.99215	<i>MYO1C</i>		
ENSG00000152348	5	81257844	81582676	635	63	44105	-2.4196	0.99223	<i>ATG10</i>		
ENSG00000164588	5	45249349	45706253	652	58	48033	-2.4264	0.99238	<i>HCN1</i>		
ENSG00000110218	11	93852094	93925138	231	35	53454	-2.4338	0.99253	<i>PANX1</i>		
ENSG00000273291	3	42840938	43107363	657	69	42853	-2.4361	0.99258	<i>KRBOX1</i>		
ENSG00000159958	22	42311045	42332822	63	12	42623	-2.4383	0.99262	<i>TNFRSF13C</i>		
ENSG00000057149	18	61312431	61339197	41	11	49776	-2.4422	0.9927	<i>SERPINB3</i>		
ENSG00000113369	5	90654541	90689176	56	10	31536	-2.4443	0.99274	<i>ARRDC3</i>		
ENSG00000134453	10	6120950	6169420	195	40	46977	-2.4499	0.99286	<i>RBM17</i>		
ENSG00000214360	5	171611176	171640456	89	23	47292	-2.4506	0.99287	<i>EFCAB9</i>		
ENSG00000109790	4	39036659	39138477	378	18	51920	-2.4631	0.99311	<i>KLHL5</i>		
ENSG00000268856	21	46482796	46502927	88	21	53313	-2.4633	0.99312	<i>AP001579.1</i>		
ENSG00000099956	22	24119150	24186703	383	26	48091	-2.4674	0.9932	<i>SMARCB1</i>		
ENSG00000178074	2	200765979	200830658	159	22	51234	-2.4692	0.99323	<i>C2orf69</i>		
ENSG00000175874	2	101952013	102014057	188	19	45268	-2.4714	0.99327	<i>CREG2</i>		
ENSG00000156345	9	90571356	90599668	52	15	49497	-2.4811	0.99345	<i>CDK20</i>		
ENSG00000196648	15	83088710	83118085	1	1	42839	-2.4838	0.9935	<i>GOLGA6L20</i>		
ENSG00000136261	7	16675756	16756148	240	46	44911	-2.492	0.99365	<i>BZW2</i>		
ENSG00000176787	11	5069880	5090857	201	12	53401	-2.4938	0.99368	<i>OR52E2</i>		
ENSG00000162992	2	182527815	182555603	54	9	27567	-2.4965	0.99373	<i>NEUROD1</i>		
ENSG00000129990	19	55672567	55701809	171	22	32244	-2.4987	0.99377	<i>SYT5</i>		
ENSG00000204814	9	44857571	44880528	12	4	45010	-2.5021	0.99383	<i>RP11-160N1.10</i>		
ENSG00000269699	19	57275920	57362097	156	29	51677	-2.5045	0.99387	<i>ZIM2</i>		
ENSG00000183250	21	46342729	46369828	107	17	38243	-2.507	0.99391	<i>C21orf67</i>		
ENSG00000136710	2	131085814	131109922	35	12	36572	-2.527	0.99425	<i>CCDC115</i>		
ENSG00000114248	3	169546967	169597718	148	20	52661	-2.5424	0.99449	<i>LRRC31</i>		
ENSG00000144043	2	71203068	71232075	88	19	49212	-2.5445	0.99453	<i>TEX261</i>		
ENSG00000171160	10	99364310	99403344	86	15	43006	-2.5446	0.99453	<i>MORN4</i>		
ENSG00000102471	13	80045287	80140210	164	19	36639	-2.5443	0.99453	<i>NDFIP2</i>		
ENSG00000176155	17	80049336	80180706	620	16	26585	-2.5476	0.99458	<i>CCDC57</i>		

ENSG00000107371	9	37756975	37811434	161	18	54872	-2.5543	0.99468	EXOSC3		
ENSG00000127311	12	66686325	66747423	158	15	48697	-2.5736	0.99497	HELB		
ENSG00000238083	17	44578877	44643016	2	1	43331	-2.5777	0.99503	LRRC37A2		
ENSG00000137673	11	102381239	102411484	92	25	47185	-2.5822	0.99509	MMP7		
ENSG00000144649	3	43010759	43111703	279	34	42005	-2.5845	0.99512	FAM198A		
ENSG00000167674	19	4462284	4512223	248	31	47263	-2.5859	0.99514	HDGFRP2		
ENSG00000163393	1	116509119	116622675	299	40	44425	-2.5866	0.99515	SLC22A15		
ENSG00000146757	7	64828712	64876038	179	13	18828	-2.5953	0.99527	ZNF92		
ENSG00000172469	6	96015419	96067333	207	15	55748	-2.5971	0.9953	MANEA		
ENSG00000120149	5	174141536	174167896	35	17	45040	-2.5993	0.99533	MSX2		
ENSG00000180694	8	91624223	91813860	418	26	47659	-2.5999	0.99534	TMEM64		
ENSG00000129473	14	23757999	23790968	70	23	48288	-2.6089	0.99546	BCL2L2		
ENSG00000100311	22	39609364	39650756	138	20	51923	-2.6093	0.99546	PDGFB		
ENSG00000166664	15	30643443	30696052	3	1	42519	-2.6154	0.99554	CHRFAM7A		
ENSG00000135540	6	138733180	139023708	825	118	41930	-2.6171	0.99557	NHSL1		
ENSG00000188269	19	14893302	14956188	252	49	49436	-2.6189	0.99559	OR7A5		
ENSG00000164040	4	129180397	129219984	75	14	52426	-2.6408	0.99586	PGRMC2		
ENSG00000084073	1	40713779	40769856	105	25	41684	-2.6483	0.99595	ZMPSTE24		
ENSG00000215549	13	26432061	26465095	59	14	47576	-2.668	0.99618	AL138815.1		
ENSG00000234965	22	42297297	42320570	65	9	44593	-2.6767	0.99628	SHISA8		
ENSG00000151778	13	44937801	44981850	74	14	51798	-2.6822	0.99634	SERP2		
ENSG00000135625	2	73508058	73530833	21	6	33942	-2.6855	0.99638	EGR4		
ENSG00000186599	8	7335191	7357115	2	1	42633	-2.6874	0.9964	DEFB105B		
ENSG00000180098	1	28869597	28915051	84	15	46731	-2.6906	0.99643	TRNAU1AP		
ENSG00000108878	17	65030706	65062909	94	24	44351	-2.7183	0.99672	CACNG1		
ENSG00000159228	21	37432239	37455464	113	20	53898	-2.722	0.99676	CBR1		
ENSG00000179091	8	145139930	145162428	45	6	29327	-2.7246	0.99678	CYC1		
ENSG00000103381	16	12746919	12907874	606	75	41530	-2.7303	0.99684	CPPED1		
ENSG00000267857	21	46510728	46544873	120	19	55762	-2.7372	0.9969	PRED58		
ENSG00000120586	10	18088352	18210091	45	17	16470	-2.7417	0.99694	MRC1		
ENSG00000105640	19	17960685	17984962	83	12	37981	-2.7439	0.99696	RPL18A		
ENSG00000162971	2	200784698	200830459	107	18	50851	-2.7447	0.99697	TYW5		
ENSG00000170231	5	159604374	159675742	371	40	46904	-2.7499	0.99702	FABP6		
ENSG00000214215	12	93086619	93112325	51	8	29535	-2.7499	0.99702	C12orf74		
ENSG00000268805	21	46501596	46525493	77	13	54821	-2.7541	0.99706	PRED57		
ENSG00000206073	18	61294493	61321532	26	6	54396	-2.7681	0.99718	SERPINB4		

ENSG00000120696	13	41753969	41778702	22	10	51122	-2.7777	0.99726	<i>KBTBD7</i>		
ENSG00000117000	1	40617045	40716593	138	27	49096	-2.7906	0.99737	<i>RLF</i>		
ENSG00000105509	19	52206365	52237247	149	36	50041	-2.7922	0.99738	<i>HAS1</i>		
ENSG00000156869	1	100164259	100242187	299	14	23797	-2.7981	0.99743	<i>FRRS1</i>		
ENSG00000123901	11	94100477	94144585	209	30	49097	-2.8054	0.99749	<i>GPR83</i>		
ENSG00000181751	5	102584403	102624361	110	15	49516	-2.8491	0.99781	<i>C5orf30</i>		
ENSG00000135709	16	85051375	85137836	466	58	40690	-2.8845	0.99804	<i>KIAA0513</i>		
ENSG00000173673	1	6294252	6315638	55	13	39975	-2.908	0.99818	<i>HES3</i>		
ENSG00000177426	18	3401606	3468409	185	53	43854	-2.9258	0.99828	<i>TGIF1</i>		
ENSG00000197381	21	46483768	46656478	555	56	50142	-2.9322	0.99832	<i>ADARB1</i>		
ENSG00000204595	19	54125310	54150263	53	19	40628	-2.9601	0.99846	<i>DPRX</i>		
ENSG00000122741	9	37790499	37877663	294	13	55562	-2.975	0.99854	<i>DCAF10</i>		
ENSG00000103150	16	83922731	83959787	197	25	48078	-2.9844	0.99858	<i>MLYCD</i>		
ENSG00000181408	17	80322153	80343462	115	11	54998	-3.0232	0.99875	<i>UTS2R</i>		
ENSG00000166923	15	33000175	33036870	125	26	39429	-3.0258	0.99876	<i>GREM1</i>		
ENSG00000144031	2	71195510	71222626	73	18	44905	-3.0277	0.99877	<i>ANKRD53</i>		
ENSG00000160255	21	46295868	46361904	317	65	43105	-3.04	0.99882	<i>ITGB2</i>		
ENSG00000183255	21	46259500	46303752	228	30	46118	-3.0489	0.99885	<i>PTTG1IP</i>		
ENSG00000173083	4	84203614	84266306	161	19	47655	-3.0594	0.99889	<i>HPSE</i>		
ENSG00000111711	12	21644715	21681342	167	27	49008	-3.1144	0.99908	<i>GOLT1B</i>		
ENSG00000198049	1	206213976	206241639	52	12	45880	-3.1334	0.99914	<i>AVPR1B</i>		
ENSG00000099985	22	30648818	30672829	43	17	49853	-3.1337	0.99914	<i>OSM</i>		
ENSG00000238244	15	90880819	90902669	158	14	38877	-3.1464	0.99917	<i>GABARAPL3</i>		
ENSG00000108039	10	111614524	111693311	146	24	30813	-3.1833	0.99927	<i>XPNPEP1</i>		
ENSG00000141551	17	80186899	80241607	83	37	41983	-3.2246	0.99937	<i>CSNK1D</i>		
ENSG00000105879	7	107374142	107412112	100	13	51152	-3.4035	0.99967	<i>CBLL1</i>		
ENSG00000150361	13	70264726	70692591	2137	130	43475	-3.4292	0.9997	<i>KLHL1</i>		
ENSG00000123685	1	212849760	212883327	143	28	54146	-3.549	0.99981	<i>BATF3</i>		
ENSG00000196391	15	90885477	90919324	145	15	38176	-3.6855	0.99989	<i>ZNF774</i>		
ENSG00000080031	19	55682616	55730874	236	40	36686	-3.7756	0.99992	<i>PTPRH</i>		
ENSG00000198081	18	5279018	5307052	98	24	52245	-3.9332	0.99996	<i>ZBTB14</i>		
ENSG00000005700	6	82869700	82967471	278	17	53082	-4.1554	0.99998	<i>IBTK</i>		