

SUPPLEMENTAL TABLE 5. Results of bulk RNA-sequencing comparing invasive vs. core cells in 3D hydrogels. Shown are the results of bulk RNA-seq comparing edge vs. core fractions after GBM43 cells invaded 3D hydrogels.

gene_id	NT_INV1	NT_INV2	NT_INV3	NT_CORE1	NT_CORE2		
NT_CORE3	WT_Invasive	Wt_Core	log2FoldChange	pvalue	padj		
gene_name	gene_chr	gene_start	gene_end				
gene_strand	gene_length	gene_biotype					
gene_description	tf_family	NT_INV1_count	NT_INV2_count				
	NT_INV3_count	NT_CORE1_count	NT_CORE2_count	NT_CORE3_count			
	NT_INV1_fpk	NT_INV2_fpk	NT_INV3_fpk	NT_CORE1_fpk			
	NT_CORE2_fpk	NT_CORE3_fpk					
ENSG00000141753	3110.963562	2740.829989	3411.912992				
589.4660736	681.4706214	546.0505157	3087.902181				
605.6624036	2.3510759	1.75E-50	3.09E-46				IGFBP4
17	40443461	40457731	+	2200			
protein_coding	insulin like growth factor binding protein 4						
[Source:HGNC Symbol;Acc:HGNC:5473]	-	3429	3097				2935
569	597	633	76.32617308	66.70293832			
83.00270986	14.37148445	16.68011385	13.37864245				
ENSG00000134871	6106.706252	6013.542065	8497.813961				
1483.506885	1518.184131	1337.09052	6872.687426				
1446.260512	2.248631173	1.23E-45	1.09E-41				COL4A2
13	110305812	110513209	+	19293			
protein_coding	collagen type IV alpha 2 chain						
[Source:HGNC Symbol;Acc:HGNC:2203]	-	6731	6795	7310	1432		1330
1550	17.08474534	16.68845521	23.57352125				
4.12434795	4.237397801	3.735622237					
ENSG00000114270	3686.160675	4517.015262	4357.018704				
1186.183927	1189.434485	1002.386571	4186.731547				
1126.001661	1.895226338	3.45E-38	2.04E-34				COL7A1
3	48564073	48595267	-	11071			
protein_coding	collagen type VII alpha 1 chain						
[Source:HGNC Symbol;Acc:HGNC:2214]	-	4063	5104	3748	1145		1042
1162	17.97167909	21.8449098	21.06296849				
5.746860823	5.785331224	4.88034243					
ENSG00000084636	1758.252372	1560.246455	2176.184369				
304.5747375	196.3365944	144.0607206	1831.561065				
214.9906842	3.092903409	5.43E-38	2.40E-34				
COL16A1	1	31652247	31704319	-	9269		
protein_coding	collagen type XVI alpha 1 chain						
[Source:HGNC Symbol;Acc:HGNC:2193]	-	1938	1763	1872	294		172
167	10.23881213	9.012512311	12.56550099				
1.762489311	1.140625102	0.837750329					
ENSG00000184371	5901.667534	5021.462499	5686.909151				
1705.204143	1600.371543	1229.26064	5536.679728				

1511.612108	1.873599345	3.62E-34	1.28E-30	CSF1
1	109910242	109930992	+ 5418	
protein_coding	colony stimulating factor 1 [Source:HGNC			
Symbol;Acc:HGNC:2432]	-	6505 5674	4892 1646	1402
1425	58.79453823	49.62228647	56.17645042	
16.88118284	15.90583134	12.22944876		
ENSG00000157168	1046.060364	1000.929518	1106.692051	
243.4525963	256.8356613	235.5004594	1051.227311	
245.2629057	2.100295425	6.07E-31	1.79E-27	NRG1
8	31639386	32767959	+ 11328	
protein_coding	neuregulin 1 [Source:HGNC Symbol;Acc:HGNC:7997]			-
1153	1131 952	235 225	273 4.984306614	
4.73081326	5.228661835	1.152727531	1.220890285	
1.120573699				
ENSG00000103888	731.2442786	452.2325232	700.9824649	
81.8415111	65.06503421	66.42320649	628.1530889	
71.10991726	3.142767227	1.73E-30	4.38E-27	CEMIP
15	80779343	80951776	+ 7621	
protein_coding	cell migration inducing hyaluronidase 1 [Source:HGNC			
Symbol;Acc:HGNC:29213]	-	806 511	603 79	57
77	5.179069795	3.177132882	4.922800059	
0.57600622	0.459737843	0.469796505		
ENSG00000164104	4482.727023	4224.081866	4772.028223	
1322.931768	1049.03099	733.2431885	4492.945704	
1035.068649	2.118808483	1.03E-29	2.27E-26	HMGB2
4	173331695	173335125	- 2775	
protein_coding	high mobility group box 2 [Source:HGNC			
Symbol;Acc:HGNC:5000]	HMG	4941 4773	4105 1277	919
850	87.19278508	81.49948938	92.03584852	
25.57054317	20.35634882	14.24252388		
ENSG00000182871	1147.672472	1191.203476	2473.782231	
197.8699825	218.0249392	253.6158793	1604.219393	
223.170267	2.843690409	7.48E-27	1.47E-23	
COL18A1 21	45405137	45513720	+ 8525	
protein_coding	collagen type XVIII alpha 1 chain [Source:HGNC			
Symbol;Acc:HGNC:2195]	-	1265 1346	2128 191	191
294	7.266492362	7.481300737	15.53045153	
1.244947459	1.377166151	1.603555371		
ENSG00000133216	1535.068634	1346.962623	1773.962258	
455.8261378	381.2582706	326.0775591	1551.997838	
387.7206558	2.001752736	5.64E-26	9.98E-23	EPHB2
1	22710839	22921500	+ 12516	
protein_coding	EPH receptor B2 [Source:HGNC Symbol;Acc:HGNC:3393]			
-	1692 1522	1526 440	334 378	
6.620083812	5.762030314	7.58570284	1.953435904	
1.640318838	1.404291488			
ENSG00000166033	4646.939448	4546.220102	7188.848363	
1303.248367	1305.866651	706.5013781	5460.669304	
1105.205465	2.305532345	6.65E-25	1.07E-21	HTRA1
10	122458551	122514908	+ 2279	

protein_coding	HtrA serine peptidase 1 [Source:HGNC					
Symbol;Acc:HGNC:9476]	-	5122	5137	6184	1258	1144
819	110.0585869	106.8050239		168.8231512		
30.6724424	30.85524928	16.70977472				
ENSG00000116962	858.2594138	638.9665006		1047.404977		
177.1506126	135.8375276	144.0607206		848.210297		
152.3496202	2.475977465	9.38E-25		1.38E-21		NID1
1	235975830	236065162		-	5864	
protein_coding	nidogen 1 [Source:HGNC Symbol;Acc:HGNC:7821]					-
946	722	901	171	119	167	7.899977572
5.834043685	9.559554994	1.620369994		1.247384548		
1.32419983						
ENSG00000197594	3680.717169	3043.498332		3200.339512		
970.7024797	699.7344907	446.8470255		3308.185004		
705.7613319	2.230032293	3.13E-24		3.87E-21		ENPP1
6	131808016	131895155		+	9959	
protein_coding	ectonucleotide pyrophosphatase/phosphodiesterase 1					
[Source:HGNC Symbol;Acc:HGNC:3356]	-			4057	3439	2753
937	613	518	19.94885432	16.36224474		
17.1987675	5.228003891	3.783485748		2.418494174		
ENSG00000186193	1011.584827	967.2997024		993.9303607		
297.322958	234.0058248	254.4785184		990.9382967		
261.9357671	1.919151493	3.18E-24		3.87E-21		SAPCD2
9	137062124	137070588		-	3848	
protein_coding	suppressor APC domain containing 2 [Source:HGNC					
Symbol;Acc:HGNC:28055]	-	1115	1093	855	287	205
295	14.18954559	13.45896115		13.82413283		
4.144373395	3.27465957	3.564658834				
ENSG00000085117	2050.387183	2209.832897		3206.15197		
722.0700409	647.2258666	645.2540059		2488.790684		
671.5166378	1.889433538	3.28E-24		3.87E-21		CD82
11	44564427	44620363		+	4054	
protein_coding	CD82 molecule [Source:HGNC Symbol;Acc:HGNC:6210]					
-	2260	2497	2758	697	567	748
27.29941737	29.18510357	42.32698791		9.553468531		
8.596995012	8.579241076					
ENSG00000111206	2575.685492	1881.499696		2398.220274		
731.3937574	570.7459141	467.5503625		2285.135154		
589.896678	1.954580622	6.21E-24		6.74E-21		FOXM1
12	2857681	2877155	-	4899		protein_coding
forkhead box M1	[Source:HGNC Symbol;Acc:HGNC:3818]				Fork	2839
2126	2063	706	500	542	28.37831706	
20.56280048	26.19983976	8.007727858		6.273500329		
5.144259464						
ENSG00000186185	1671.156279	1466.436969		1604.238477		
482.7613186	397.2391562	287.2588021		1580.610575		
389.0864256	2.024241687	6.47E-24		6.74E-21		KIF18B
17	44924709	44947711		-	4655	
protein_coding	kinesin family member 18B [Source:HGNC					
Symbol;Acc:HGNC:27102]	-	1842	1657	1380	466	348

333	19.3775392	16.86666674	18.44447286	
5.562605681	4.595226459	3.326255199		
ENSG00000189403	11226.32345	11212.00359	13055.94372	
5324.878064	4723.493185	4963.625067	11831.42359	
5003.998772	1.241332431	3.59E-23	3.52E-20	HMGB1
13	30456704	30617597	- 7723	
protein_coding	high mobility group box 1 [Source:HGNC			
Symbol;Acc:HGNC:4983]	HMG	12374 12669	11231 5140	4138
5754	78.46080514	77.72893945	90.47721813	
36.98189216	32.9345559	34.64294791		
ENSG00000187498	3329.611045	2784.194752	4044.30845	
984.1700702	679.1876378	451.1602207	3386.038082	
704.8393095	2.265072381	5.31E-23	4.94E-20	COL4A1
13	110148963	110307233	- 14738	
protein_coding	collagen type IV alpha 1 chain [Source:HGNC			
Symbol;Acc:HGNC:2202]	-	3670 3146	3479 950	595
523	12.19428092	10.11455096	14.68664925	
3.581765069	2.481565677	1.650038793		
ENSG00000072571	1421.662264	1071.72913	1185.741483	
306.6466745	195.1951026	131.9837739	1226.377626	
211.2751837	2.539851587	1.82E-22	1.61E-19	HMMR
5	163460203	163491945	+ 3936	
protein_coding	hyaluronan mediated motility receptor [Source:HGNC			
Symbol;Acc:HGNC:5012]	-	1567 1211	1020 296	171
153	19.49586865	14.57858906	16.12322552	
4.178771893	2.670474165	1.807454441		
ENSG00000166851	2517.621431	2088.588561	2744.642785	
568.7467037	610.6981281	270.8686602	2450.284259	
483.4378307	2.343825006	2.05E-22	1.73E-19	PLK1
16	23677656	23690367	+ 4760	
protein_coding	polo like kinase 1 [Source:HGNC			
Symbol;Acc:HGNC:9077]	-	2775 2360	2361 549	535 314
28.5485936	23.49262201	30.8599971	6.408810575	
6.908665878	3.067282053			
ENSG00000115163	430.9442088	420.3726977	490.5714763	
37.29486582	74.19696883	28.46708849	447.2961276	
46.65297438	3.275462311	4.17E-22	3.35E-19	CENPA
2	26764289	26801067	+ 1983	
protein_coding	centromere protein A [Source:HGNC			
Symbol;Acc:HGNC:1851]	-	475 475	422 36	65
33	11.73004232	11.35003854	13.24026213	
1.008769238	2.014828116	0.773788452		
ENSG00000117650	1049.689368	818.6205166	1035.78006	
269.3518087	210.0344964	163.0387796	968.0299814	
214.1416949	2.178483743	1.10E-21	8.48E-19	NEK2
1	211658657	211675630	- 3095	
protein_coding	NIMA related kinase 2 [Source:HGNC			
Symbol;Acc:HGNC:7745]	-	1157 925	891 260	184
189	18.30633431	14.16144338	17.91116758	
4.667934337	3.654302793	2.839436554		

ENSG00000113721	3916.60242		2837.294461		5448.598363		
1050.472054	981.6829722		589.1824679		4067.498415		
873.7791647	2.219488168		1.27E-21		9.36E-19		PDGFRB
5	150113837		150155872		-	7137	
protein_coding	platelet derived growth factor receptor beta						
[Source:HGNC Symbol;Acc:HGNC:8804]			-		4317	3206	4687
1014	860	683	29.62068076		21.28502978		
40.85884665	7.894675832		7.406791418		4.449754235		
ENSG00000115884	1595.854449		1374.397473		1786.749666		
481.7253501	431.483911		288.1214411		1585.667196		
400.4435674	1.987200186		1.48E-21		1.05E-18		SDC1
2	20200797		20225433		-	3595	
protein_coding	syndecan 1 [Source:HGNC Symbol;Acc:HGNC:10658]						-
1759	1553	1537	465	378	334	23.9604863	
20.46911198	26.60001119		7.187305445		6.463090918		
4.319948707							
ENSG00000143228	1883.453005		1319.527773		1619.350868		
459.9700117	280.8069897		219.1103175		1607.443882		
319.9624397	2.330186944		1.64E-21		1.12E-18		NUF2
1	163266576		163355764		+	3362	
protein_coding	"NUF2, NDC80 kinetochore complex component						
[Source:HGNC Symbol;Acc:HGNC:14621]"			-		2076	1491	1393
444	246	254	30.2383663		21.01388616		
25.77865498	7.33833113		4.497640699		3.512910018		
ENSG00000138778	1799.078666		980.5746297		1210.153808		
300.4308635	148.3939377		123.3573835		1329.935701		
190.7273949	2.803360796		3.37E-21		2.21E-18		CENPE
4	103105806		103198409		-	9444	
protein_coding	centromere protein E [Source:HGNC						
Symbol;Acc:HGNC:1856]			-	1983	1108	1041	290
143	10.2824219		5.559173428		6.858065011		130
1.706294784	0.846125403		0.704062279				
ENSG00000157456	1290.110874		1046.949266		1571.688711		
387.4522171	310.4857773		255.3411574		1302.916283		
317.7597173	2.036480713		4.47E-21		2.83E-18		CCNB2
15	59105078		59125045		+	2801	
protein_coding	cyclin B2 [Source:HGNC Symbol;Acc:HGNC:1580]						-
1422	1183	1352	374	272	296	24.86080408	
20.0123494	30.03104394		7.419429919		5.969021668		
4.913711119							
ENSG00000248527	1362.690951		1194.743457		819.5566132		
3597.918583	3535.200192		3457.457293		1125.663674		
3530.192023	-1.647642964		1.81E-20		1.11E-17		
MTATP6P1	1	633696	634376	+	681		
unprocessed_pseudogene	MT-ATP6 pseudogene 1 [Source:HGNC						
Symbol;Acc:HGNC:44575]			-	1502	1350	705	3473
4008	108.0069008		93.93189791		64.4093404		3097
283.3803387	279.5383862		273.6601868				
ENSG00000198763	40008.86035		41950.54025		26412.97278		
87652.25839	131773.8166		133922.9865		36124.12446		

117783.0205	-1.705060657	5.45E-20	3.21E-17	MT-ND2
MT	4470 5511	+ 1042	protein_coding	
mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 2				
[Source:HGNC Symbol;Acc:HGNC:7456]		-	44099 47402 22721	
84609	115440 155248	2072.476935	2155.536533	
1356.646096	4511.914766	6809.825123	6927.703839	
ENSG0000004399	3573.661555	2935.528923	4194.269873	
1212.083139	1392.62003	1058.458109	3567.820117	
1221.053759	1.547308653	5.80E-20	3.31E-17	PLXND1
3	129555175	129606818	- 9738	
protein_coding	plexin D1 [Source:HGNC Symbol;Acc:HGNC:9107]		-	
3939	3317 3608	1170 1220	1227 19.80819461	
16.13994841	23.05173431	6.676181503	7.700827951	
5.858761387				
ENSG00000088325	6920.510368	5523.254751	6614.577488	
2854.093203	2334.350789	2094.487602	6352.780869	
2427.643865	1.388000406	1.56E-19	8.62E-17	TPX2
20	31739271	31801805	+ 3605	
protein_coding	"TPX2, microtubule nucleation factor [Source:HGNC			
Symbol;Acc:HGNC:1249]"	-	7628 6241	5690 2755 2045	
2428	103.617736	82.03049918	98.20053276	
42.46473105	34.8686717	31.31658747		
ENSG00000134222	822.8766261	777.0257444	897.4435537	
243.4525963	202.0440536	143.1980815	832.4486414	
196.2315771	2.087542652	1.66E-19	8.91E-17	PSRC1
1	109279556	109283186	- 2855	
protein_coding	proline and serine rich coiled-coil 1 [Source:HGNC			
Symbol;Acc:HGNC:24472]	-	907 878	772 235 177	
166	15.55714351	14.5718551	16.82356515	
4.573764437	3.810785587	2.703541208		
ENSG00000132967	1252.913584	1395.637356	1708.862725	
483.7972871	469.1531414	485.6657825	1452.471222	
479.538737	1.597902766	1.76E-19	9.14E-17	
HMGB1P5 3	22381819	22382929	+ 1111	
transcribed_processed_pseudogene		high mobility group box 1		
pseudogene 5 [Source:HGNC Symbol;Acc:HGNC:4997]		-	1381 1577	
1470	467 411	563 60.870701	67.25801956	
82.32090238	23.35688192	22.73919695	23.56271629	
ENSG00000163359	26821.96756	21721.32104	35328.12124	
9530.910153	8483.567267	5007.619658	27957.13661	
7674.032359	1.865262061	4.04E-19	2.04E-16	COL6A3
2	237324003	237414375	- 19633	
protein_coding	collagen type VI alpha 3 chain [Source:HGNC			
Symbol;Acc:HGNC:2213]	-	29564 24544	30390 9200 7432	
5805	73.74035271	59.23591708	96.30545338	
26.03833465	23.26839323	13.74822324		
ENSG00000112984	1600.390704	1062.879179	1653.063126	
401.955776	219.166431	169.0772529	1438.77767	
263.39982	2.450713662	4.36E-19	2.14E-16	KIF20A
5	138178719	138187715	+ 3958	

protein_coding	kinesin family member 20A [Source:HGNC					
Symbol;Acc:HGNC:9787]	-	1764	1201	1422	388	192
196	21.8248604	14.3778404	22.35273416			
5.447133	2.981760787	2.302561823				
ENSG00000087586	2479.51689	2023.09892	2486.569639			
801.8396151	422.3519764	368.3468723	2329.728483			
530.8461546	2.13438139	5.08E-19	2.43E-16			AURKA
20	56369389	56392337	-	2928		
protein_coding	aurora kinase A [Source:HGNC Symbol;Acc:HGNC:11393]					
-	2733	2286	2139	774	370	427
45.70852878	36.99402575	45.4513261	14.68865167			
7.767441872	6.78090751					
ENSG00000164176	3274.268736	2229.302791	4322.143954			
945.8392358	940.5892664	639.2155325	3275.238494			
841.8813449	1.960406584	6.67E-19	3.10E-16			EDIL3
5	83940554	84384793	-	5738		
protein_coding	EGF like repeats and discoidin domains 3 [Source:HGNC					
Symbol;Acc:HGNC:3173]	-	3609	2519	3718	913	824
741	30.80030532	20.8014718	40.31398112			
8.841425204	8.827018321	6.004663604				
ENSG00000176619	11945.77347	11759.81559	12717.65865			
6256.213741	5489.434202	5911.665377	12141.08257			
5885.771107	1.044479994	1.15E-18	5.21E-16			LMNB2
19	2427638	2456996	-	5432	protein_coding	lamin
B2 [Source:HGNC	Symbol;Acc:HGNC:6638]					-
6039	4809	6853	118.7013772	115.9114394	13167	13288
125.3038478	61.77564833	54.4179749	58.66134126			
ENSG00000138182	1866.215237	1161.998636	1413.589846			
483.7972871	369.8433523	405.4403513	1480.60124			
419.6936636	1.818614175	1.50E-18	6.62E-16			KIF20B
10	89701610	89774939	+	6851		
protein_coding	kinesin family member 20B [Source:HGNC					
Symbol;Acc:HGNC:7212]	-	2057	1313	1216	467	324
470	14.70310327	9.08107368	11.04298428			
3.787694617	2.906955629	3.189884134				
ENSG00000188157	3824.970073	3635.560089	6355.34185			
1424.45668	1569.551264	1171.463823	4605.290671			
1388.490589	1.729888013	1.06E-17	4.59E-15			AGRN
1	1020123	1056118	+	10758	protein_coding	agrin
[Source:HGNC	Symbol;Acc:HGNC:329]					-
1375	1375	1358	19.1910062	18.09361461	4216	4108
31.61727092	7.102041437	7.85630831	5.869474878			
ENSG00000147872	5794.61192	6414.44487	7910.755678			
13809.46004	20228.37669	21515.08043	6706.604156			
18517.63905	-1.465424621	1.83E-17	7.72E-15			PLIN2
9	19108375	19149290	-	5086		
protein_coding	perilipin 2 [Source:HGNC Symbol;Acc:HGNC:248]					-
6387	7248	6805	13330	17721	24941	61.49633641
67.52557168	83.24508868	145.6350258	214.1702926			
228.0176811						

ENSG00000137801	1335.473422	1552.281499	1489.151804	
440.2866103	142.6864785	218.2476785	1458.968908	
267.0735891	2.449131895	2.92E-17	1.20E-14	THBS1
15	39581079	39599466	+ 9158	
protein_coding	thrombospondin 1 [Source:HGNC Symbol;Acc:HGNC:11785]			
-	1472 1754	1281 425	125 253	
7.871107691	9.075182987	8.702726539	2.578697116	
0.838989903	1.284549665			
ENSG00000225630	1668.434526	1700.075689	1072.979793	
3630.033606	4992.885256	4710.009187	1480.496669	
4444.30935	-1.584936362	3.01E-17	1.21E-14	
MTND2P28	1 629640	630683 +	1044	
unprocessed_pseudogene	MT-ND2 pseudogene 28 [Source:HGNC			
Symbol;Acc:HGNC:42129]	-	1839 1921	923 3504	4374
5460	86.26009143	87.18731572	55.00574472	
186.4986285	257.5287028	243.1773728		
ENSG00000050165	1424.384017	1182.353525	1608.888443	
528.3439324	353.8624667	425.2810493	1405.208662	
435.8291495	1.687883266	3.21E-17	1.26E-14	DKK3
11	11963106	12009769	- 5059	
protein_coding	dickkopf WNT signaling pathway inhibitor 3			
[Source:HGNC Symbol;Acc:HGNC:2893]	-		1570 1336	1384
510	310 493	15.19720272	12.5131952	
17.02073293	5.601670256	3.76655553	4.531200275	
ENSG00000138448	1571.358673	1281.472982	2035.522879	
512.804405	481.7095515	574.5176042	1629.451511	
523.0105202	1.637894927	5.35E-17	2.06E-14	ITGAV
2	186590065	186680901	+ 8211	
protein_coding	integrin subunit alpha V [Source:HGNC			
Symbol;Acc:HGNC:6150]	-	1732 1448	1751 495	422
666	10.329529	8.356009991	13.26773964	
3.349817835	3.159102804	3.771457301		
ENSG00000198888	19209.2247	21190.32395	13212.88009	
38801.16401	60247.93869	68006.14913	17870.80958	
55685.08394	-1.639627615	9.72E-17	3.66E-14	MT-ND1
MT	3307 4262	+ 956	protein_coding	
mitochondrially encoded	NADH:ubiquinone oxidoreductase core subunit 1			
[Source:HGNC Symbol;Acc:HGNC:7455]	-		21173 23944	11366
37454	52780 78835	1084.559015	1186.766428	
739.7016817	2176.969565	3393.585955	3834.353929	
ENSG00000117399	3971.944729	3485.995908	4286.106713	
1604.715199	1614.069445	1058.458109	3914.68245	
1425.747584	1.457906658	1.22E-16	4.50E-14	CDC20
1	43358955	43363203	+ 2038	
protein_coding	cell division cycle 20 [Source:HGNC			
Symbol;Acc:HGNC:1723]	-	4378 3939	3687 1549	1414
1227	105.1962506	91.58160322	112.557854	
42.23371469	42.64740299	27.9944153		
ENSG00000142945	3306.02252	2378.866972	3225.914328	
1234.874446	799.0442797	722.0288809	2970.26794	



918.6492022	1.693265725	1.71E-16	6.17E-14	KIF2C
1	44739818	44767767	+ 3646	
protein_coding	kinesin family member 2C [Source:HGNC			
Symbol;Acc:HGNC:6393]	-	3644 2688	2775 1192	700
837	48.9429776	34.93325394	47.35361837	
18.16651554	11.80126971	10.67431001		
ENSG00000119403	1827.203445	1670.870849	1756.524883	
772.8324972	517.0957982	518.4460662	1751.533059	
602.7914539	1.539162425	2.50E-16	8.86E-14	PHF19
9	120855652	120894896	- 6733	
protein_coding	PHD finger protein 19 [Source:HGNC			
Symbol;Acc:HGNC:24566]	-	2014 1888	1511 746	453
601	14.64804061	13.28678221	13.96248426	
6.156618693	4.135584965	4.150466145		
ENSG00000075218	1250.191831	1131.908801	1490.314295	
419.5672404	392.6731889	224.2861518	1290.804976	
345.5088604	1.903696679	2.68E-16	9.30E-14	GTSE1
22	46296741	46330810	+ 4242	
protein_coding	G2 and S-phase expressed 1 [Source:HGNC			
Symbol;Acc:HGNC:13698]	-	1378 1279	1282 405	344
260	15.90769432	14.28651565	18.80287278	
5.305134545	4.984655384	2.849926777		
ENSG00000110492	1738.292851	2146.113246	2393.570307	
790.4439616	874.3827404	690.9738753	2092.658801	
785.2668591	1.414605968	2.95E-16	1.00E-13	MDK
11	46380756	46383837	+ 2196	
protein_coding	midkine [Source:HGNC Symbol;Acc:HGNC:6972]			-
1916	2425 2059	763 766	801 42.72596226	
52.32459168	58.33522234	19.30653096	21.44093864	
16.96020895				
ENSG00000121068	493.5445255	560.2019319	610.3081162	
94.27313304	158.6673641	134.5716911	554.6848579	
129.1707294	2.103078238	4.44E-16	1.48E-13	TBX2
17	61399896	61409466	+ 6029	
protein_coding	T-box 2 [Source:HGNC Symbol;Acc:HGNC:11597]			T-box
544	633 525	91 139	156 4.418575696	
4.97490586	5.417773769	0.838702914	1.417153444	
1.20312384				
ENSG00000134057	3276.083238	2509.846254	3384.013193	
1383.017941	1071.860827	1099.864783	3056.647562	
1184.914517	1.366971916	4.72E-16	1.54E-13	CCNB1
5	69167010	69178245	+ 2558	
protein_coding	cyclin B1 [Source:HGNC Symbol;Acc:HGNC:1579]			-
3611	2836 2911	1335 939	1275 69.128261	
52.53299086	70.80248683	28.99965086	22.56380887	
23.17611637				
ENSG00000197461	1300.090634	1388.557395	1879.748998	
381.2364061	560.4724876	297.6104706	1522.799009	
413.1064548	1.884147948	5.46E-16	1.75E-13	PDGFA
7	497258 520296	- 4151	protein_coding	



	1.871372622	2.262746213	0.149987366	0.16591666	
	0.416160256				
ENSG00000106003	809.2678617	1081.464077	938.1307615		
242.4166278	364.1358932	267.418104	942.9542334		
291.3235417	1.696514257	7.73E-15	2.21E-12		LFNG
7	2512529	2529177 +	3418	protein_coding	LFNG
0-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase [Source:HGNC Symbol;Acc:HGNC:6560]	-	892	1222	807	234
310	12.77972415	16.94047519	14.68954429		319
3.804134317	5.7367508	4.217165584			
ENSG00000169679	1770.046635	1276.163011	1819.299432		
636.0846559	450.8892721	333.8413105	1621.836359		
473.6050795	1.776805015	1.03E-14	2.89E-12		BUB1
2	110637698	110678114	-	6032	
protein_coding	BUB1 mitotic checkpoint serine/threonine kinase [Source:HGNC Symbol;Acc:HGNC:1148]	-	1951	1442	1565
614	395	387	15.83888553	11.32740343	
16.14209339	5.656126083	4.025159766	2.983188185		
ENSG00000111665	659.5714523	469.0474312	498.7089178		
153.3233372	141.5449867	148.3739158	542.4426004		
147.7474132	1.876356778	1.16E-14	3.20E-12		CDCA3
12	6844793	6852066 -	5653	protein_coding	cell
division cycle associated 3 [Source:HGNC Symbol;Acc:HGNC:14624]	-				
727	530	429	148	124	172
4.442457943	4.721556091	1.454771464	1.348310945		
1.414752531					
ENSG00000110031	755.7400547	678.7912824	640.5328991		
1508.370129	1641.465249	1649.365855	691.6880787		
1599.733744	-1.208982003	1.22E-14	3.33E-12		LPXN
11	58526871	58578220	-	2467	
protein_coding	leupaxin [Source:HGNC Symbol;Acc:HGNC:14061]	-			
833	767	551	1456	1438	1912
14.73169285	13.8959837	32.79474582	35.8291988		
36.0370935					
ENSG00000164932	720.357267	744.2809238	933.4807949		
299.394895	235.1473166	233.7751813	799.3729952		
256.1057976	1.641661574	1.67E-14	4.48E-12		CTHRC1
8	103371515	103382997	+	1776	
protein_coding	collagen triple helix repeat containing 1 [Source:HGNC Symbol;Acc:HGNC:18831]	-	794	841	803
271	21.89304776	22.4377588	28.13062818		206
9.042050432	7.129705958	7.095080831			
ENSG00000101447	1569.544171	1185.893505	1408.93988		
463.0779172	391.5316971	190.643229	1388.125852		
348.4176144	1.996731093	2.08E-14	5.49E-12		FAM83D
20	38926312	38953106	+	2475	
protein_coding	family with sequence similarity 83 member D [Source:HGNC Symbol;Acc:HGNC:16122]	-	1730	1340	1212
447	343	221	34.2294234	25.65405585	
30.46732064	10.03562359	8.518561771	4.151911508		

ENSG00000140945	2644.636566		2400.99185		3618.836506	
1261.809627	849.2699202		728.0673542		2888.154974	
946.3823004	1.609754258		2.62E-14		6.80E-12	CDH13
16	82626803		83800640	+	11187	
protein_coding	cadherin 13 [Source:HGNC Symbol;Acc:HGNC:1753]					-
2915	2713	3113	1218	744	844	12.76008609
	11.49112626	17.31300001	6.049865142		4.087960188	
	3.508001955					
ENSG00000161888	671.3657148		630.116549		763.757014	
175.0786756	189.4876435		77.63751407		688.4130926	
147.4012777	2.228880598		3.19E-14		8.17E-12	SPC24
19	11131520		11155808	-	2839	
protein_coding	"SPC24, NDC80 kinetochore complex component [Source:HGNC Symbol;Acc:HGNC:26913]"					-
169	166	90	12.76424145		11.88340892	657
14.39815431	3.307755161		3.594099166		1.474036152	
ENSG00000140416	10641.14658		9646.447169		16528.30628	
5151.871325	4439.26172		3225.40739		12271.96668	
4272.180145	1.522375767		3.51E-14		8.87E-12	TPM1
15	63042632		63071915	+	12876	
protein_coding	tropomyosin 1 [Source:HGNC Symbol;Acc:HGNC:12010]					
-	11729	10900	14218	4973	3889	3739
44.60758398	40.11178333		68.70121037		21.46097926	
18.56540105	13.50223043					
ENSG00000266074	790.2155914		889.4201289		1274.090848	
346.0134773	280.8069897		290.7093583		984.5755228	
305.8432751	1.685629445		4.02E-14		1.00E-11	BAHCC1
17	81395475		81466332	+	13473	
protein_coding	BAH domain and coiled-coil containing 1 [Source:HGNC Symbol;Acc:HGNC:29279]					-
337	3.165793104		3.534501683		5.061195241	
1.377508225	1.122323761		1.163045243			
ENSG00000087245	19669.20094		17745.92281		26207.21176	
10419.77112	9294.026465		8379.675686		21207.44517	
9364.491091	1.179266728		4.98E-14		1.22E-11	MMP2
16	55389700		55506691	+	4933	
protein_coding	matrix metalloproteinase 2 [Source:HGNC Symbol;Acc:HGNC:7166]					-
9714	215.2171351		21680	20052	22544	10058
113.2954737	101.4535721		192.6074233		284.3326331	8142
113.2954737	101.4535721		91.56257585			
ENSG00000089685	3275.175987		3254.127178		3786.235304	
1541.52112	827.5815754		666.819982		3438.512823	
1011.974226	1.764992359		5.47E-14		1.32E-11	BIRC5
17	78214186		78225636	+	3815	
protein_coding	baculoviral IAP repeat containing 5 [Source:HGNC Symbol;Acc:HGNC:593]					-
773	46.33843297		3610	3677	3257	1488
21.67306994	11.6812905		45.6694234		53.11657491	725
21.67306994	11.6812905		9.421411431			
ENSG00000198830	13985.27364		14740.47927		16773.59202	
8059.83489	6424.316009		5108.548426		15166.44831	

6530.899775	1.21562334	5.59E-14	1.34E-11	HMGN2
1	26472450	26475972	+ 2509	
protein_coding	high mobility group nucleosomal binding domain 2			
[Source:HGNC Symbol;Acc:HGNC:4986]	-		15415 16656	14429
7780	5628 5922	300.8649187	314.5549267	
357.8017157	172.3022622	137.8798454	109.7485421	
ENSG00000168003	9129.666471	11372.18772	9004.66032	
18384.29691	19782.05338	22803.86316	9835.504836	
20323.40448	-1.047024663	6.26E-14	1.48E-11	SLC3A2
11	62856102	62888875	+ 5178	
protein_coding	solute carrier family 3 member 2		[Source:HGNC	
Symbol;Acc:HGNC:11026]	-	10063 12850	7746 17746	17330
26435	95.16869413	117.5892235	93.07269579	
190.4366244	205.7234869	237.3822745		
ENSG00000115963	2585.665253	2781.539766	2055.285237	
5194.346033	5043.110897	5587.313096	2474.163419	
5274.923342	-1.091719828	6.56E-14	1.53E-11	RND3
2	150468195	150539011	- 3594	
protein_coding	Rho family GTPase 3		[Source:HGNC Symbol;Acc:HGNC:671]	
-	2850 3143	1768 5014	4418 6477	
38.83251072	41.43742399	30.60631435	77.52080974	
75.5605306	83.7966858			
ENSG00000134508	692.232487	562.8569174	568.4584168	
138.8197783	216.8834474	154.4123891	607.8492737	
170.0385383	1.840906595	7.00E-14	1.60E-11	
CABLES1 18	23134564	23260467	+ 6654	
protein_coding	Cdk5 and Abl enzyme substrate 1		[Source:HGNC	
Symbol;Acc:HGNC:25097]	-	763 636	489 134	190
179	5.615267176	4.528983724	4.572280959	
1.119010201	1.755165867	1.250838536		
ENSG00000114554	7554.678794	5830.348069	6577.377755	
3492.249796	2522.69694	2370.532096	6654.134873	
2795.159611	1.251457994	7.09E-14	1.60E-11	PLXNA1
3	126988594	127037392	+ 10944	
protein_coding	plexin A1		[Source:HGNC Symbol;Acc:HGNC:9099]	-
8327	6588 5658	3371 2210	2748 37.25985529	
28.52357435	32.16575172	17.11570182	12.41262256	
11.67539714				
ENSG00000162745	811.0823636	525.687121	614.9580828	
200.977888	146.110954	96.61557307	650.5758558	
147.9014717	2.140368034	7.15E-14	1.60E-11	
OLFML2B 1	161983192	162023854	- 3415	
protein_coding	olfactomedin like 2B		[Source:HGNC	
Symbol;Acc:HGNC:24558]	-	894 594	529 194	128
112	12.81963011	8.241802017	9.63766465	
3.156625537	2.303915899	1.524959581		
ENSG00000142949	1841.719461	1608.036193	2135.497161	
823.5949534	803.610247	653.0177573	1861.750938	
760.0743193	1.292835771	7.35E-14	1.62E-11	PTPRF
1	43525187	43623666	+ 10712	

protein_coding	"protein tyrosine phosphatase, receptor type F [Source:HGNC Symbol;Acc:HGNC:9670]"	-	2030	1817	1837
	795	704	757	9.280132082	8.037311567
10.66953369	4.123904584			4.039703172	3.285915066
ENSG00000143369	916.3234756			919.5099641	1250.841015
388.4881856	373.2678278			292.4346363	1028.891485
351.3968832	1.550559299			9.94E-14	2.17E-11
	1	150508062	150513789	+	3360
protein_coding	extracellular matrix protein 1 [Source:HGNC Symbol;Acc:HGNC:3153]	-	1010	1039	327
	339	14.72010066		14.65219571	19.92415174
6.20160404	5.982129846			4.69128091	
ENSG00000198899	37829.64353			35687.42955	25339.99298
63626.07705	81334.71723			81469.35671	32952.35535
75476.717	-1.195604648			1.10E-13	2.38E-11
ATP6	MT	8527	9207	+	681
mitochondrially encoded ATP synthase membrane subunit 6	[Source:HGNC Symbol;Acc:HGNC:7414]	-	41697	40325	71253
	94442	2998.37799		2805.78058	1991.481989
5011.336096	6431.368625			6448.357126	
ENSG00000080986	1374.485213			1049.604252	1425.214763
474.4735707	308.2027936			188.0553119	1283.101409
323.5772254	1.989124564			1.28E-13	2.73E-11
	18	2571511	2616635	+	3600
protein_coding	"NDC80, kinetochore complex component [Source:HGNC Symbol;Acc:HGNC:16909]"	-	1515	1186	270
	218	20.60814093		15.61020581	21.1882367
7.069277352	4.610081716			2.815691119	
ENSG00000089597	8483.703783			8278.244662	11531.91717
4426.693379	4605.919527			3966.41433	9431.288537
4333.009079	1.122043858			1.42E-13	2.98E-11
	11	62624826	62646726	-	5030
protein_coding	glucosidase II alpha subunit [Source:HGNC Symbol;Acc:HGNC:4138]	-	9351	9354	4035
	4598	91.03717142		88.11621245	122.701687
47.20379889	49.3086275			42.50421503	
ENSG00000076382	2351.594504			1969.114216	2150.609552
1006.961377	609.5566362			527.0724567	2157.106091
714.5301567	1.594622255			1.43E-13	2.98E-11
	17	28577565	28599279	-	5472
protein_coding	sperm associated antigen 5 [Source:HGNC Symbol;Acc:HGNC:13452]	-	2592	2225	534
	611	23.19623992		19.26683453	21.0345142
9.870342431	5.99849814			5.191897856	
ENSG00000087086	37268.96243			49303.07998	38204.12558
76173.72746	93037.29146			110768.0292	41592.056
93326.34939	-1.165969982			1.51E-13	3.11E-11
	19	48965301	48966878	+	878
protein_coding	ferritin light chain [Source:HGNC Symbol;Acc:HGNC:3999]	-	41079	55710	81505
				32864	73529

128406	2291.152677	3006.526827	2328.803004	
4653.462166	5706.070012	6800.202094		
ENSG00000117298	2615.604535	2805.434635	3879.234636	
1360.226634	1296.734717	1019.639352	3100.091269	
1225.533567	1.339041669	1.56E-13	3.16E-11	ECE1
1	21217247	21345572	- 7333	
protein_coding	endothelin converting enzyme 1	[Source:HGNC		
Symbol;Acc:HGNC:3146]	-	2883 3170	3337 1313	1136
1182	19.25269988	20.48349301	28.31270528	
9.949358612	9.52234707	7.494916688		
ENSG00000148606	1399.888241	1395.637356	1389.177522	
2642.75563	2871.99344	2711.274519	1394.90104	
2742.007863	-0.974943564	1.58E-13	3.18E-11	POLR3A
10	77969251	78029545	- 8917	
protein_coding	RNA polymerase III subunit A	[Source:HGNC		
Symbol;Acc:HGNC:30074]	-	1543 1577	1195 2551	2516
3143	8.473753825	8.379910254	8.337886621	
15.8965813	17.34359927	16.38915764		
ENSG00000225614	639.611931	551.3519804	1054.379926	
128.4600934	206.6100209	71.59904076	748.447946	
135.556385	2.469925548	1.75E-13	3.47E-11	ZNF469
16	88427471	88440757	+ 13287	
protein_coding	zinc finger protein 469	[Source:HGNC		
Symbol;Acc:HGNC:23216]	zf-C2H2	705 623	907 124	181
83	2.598309406	2.221710934	4.247048286	
0.51856929	0.837334528	0.290457219		
ENSG00000128606	787.4938385	698.2611758	778.8694054	
266.2439032	123.2811174	108.6925197	754.8748066	
166.0725134	2.185808194	1.78E-13	3.50E-11	LRR17
7	102912991	102944949	+ 2674	
protein_coding	leucine rich repeat containing 17	[Source:HGNC		
Symbol;Acc:HGNC:16895]	-	868 789	670 257	108
126	15.89596895	13.98112251	15.58907141	
5.340522684	2.48261693	2.190988814		
ENSG00000197632	117.9426256	217.7088077	127.8740815	
499.3368145	655.2163094	945.4523936	154.5085049	
700.0018392	-2.177939428	1.91E-13	3.71E-11	
SERPINB2	18 63871692	63903890	+ 2748	
protein_coding	serpin family B member 2	[Source:HGNC		
Symbol;Acc:HGNC:8584]	-	130 246	110 482	574
1096	2.316622699	4.241747568	2.490478537	
9.746357861	12.83933481	18.54491486		
ENSG00000125844	3203.503161	3191.292522	3510.724783	
1787.045654	1303.583668	1406.964283	3301.840155	
1499.197868	1.138881113	1.95E-13	3.75E-11	RRBP1
20	17613678	17682295	- 6980	
protein_coding	ribosome binding protein 1	[Source:HGNC		
Symbol;Acc:HGNC:10448]	-	3531 3606	3020 1725	1142
1631	24.77256511	24.47917294	26.91896557	
13.73237708	10.05675897	10.86499564		

ENSG00000134690	1623.979229	1515.111702	1784.424683	
702.3866395	577.5948651	369.2095114	1641.171871	
549.7303387	1.579328921	2.18E-13	4.14E-11	CDCA8
1	37692418	37709719	+ 2469	
protein_coding	cell division cycle associated 8	[Source:HGNC		
Symbol;Acc:HGNC:14629]	-	1790 1712	1535 678	506
428	35.50263803	32.85557796	38.68068322	
15.25880938	12.59728013	8.06034623		
ENSG00000091986	1155.837731	971.7246781	1440.327154	
423.7111144	450.8892721	288.1214411	1189.296521	
387.5739426	1.619016693	2.36E-13	4.44E-11	CCDC80
3	112596794	112649530	- 13071	
protein_coding	coiled-coil domain containing 80	[Source:HGNC		
Symbol;Acc:HGNC:30649]	-	1274 1098	1239 409	395
334	4.772976509	3.980338124	5.897518859	
1.738707538	1.857529164	1.188142881		
ENSG00000142627	5523.343881	4472.765504	5479.985638	
2500.827947	1499.920262	1186.991326	5158.698341	
1729.246512	1.577145529	2.42E-13	4.50E-11	EPHA2
1	16124337	16156087	- 4159	
protein_coding	EPH receptor A2	[Source:HGNC		
-	6088 5054	4714 2414	1314 1376	
71.68270856	57.58014551	70.51922072	32.25227759	
19.42020478	15.38369042			
ENSG00000075702	1330.029916	1219.523321	1246.191049	
578.0704202	404.0881072	514.132871	1265.248095	
498.7637994	1.342068063	2.80E-13	5.16E-11	WDR62
19	36054881	36105106	+ 9812	
protein_coding	WD repeat domain 62	[Source:HGNC		
Symbol;Acc:HGNC:24502]	-	1466 1378	1072 558	354
596	7.31652927	6.65454121	6.797419803	
3.160011791	2.217650398	2.824357959		
ENSG00000101255	2326.191477	3347.936664	3003.878423	
5483.381244	7327.236045	7423.871624	2892.668855	
6744.829637	-1.221461923	3.13E-13	5.71E-11	TRIB3
20	362835 397559	+ 3434	protein_coding	
tribbles	pseudokinase 3	[Source:HGNC		
Symbol;Acc:HGNC:16228]	-			
2564	3783 2584	5293 6419	8606 36.56338653	
52.19903704	46.81651319	85.64729414	114.8985228	
116.5284766				
ENSG00000075426	2493.125655	2068.233673	2796.95491	
1172.716336	1055.879941	1081.749363	2452.771412	
1103.448547	1.151934049	3.21E-13	5.80E-11	FOSL2
2	28392448	28417312	+ 7157	
protein_coding	"FOS like 2, AP-1 transcription factor subunit	[Source:HGNC		
Symbol;Acc:HGNC:3798]"	TF_bZIP	2748 2337		2406
1132	925 1254	18.80244793	15.47227358	
20.91565417	8.788756928	7.944344628	8.146996644	
ENSG0000006062	950.7990123	830.1254536	854.4313627	
369.8407527	317.3347282	343.33034	878.4519429	



343.5019403	1.354353645	3.90E-13	6.98E-11	
MAP3K14 17	45263119	45317145	-	5784
protein_coding	mitogen-activated protein kinase kinase kinase 14			
[Source:HGNC Symbol;Acc:HGNC:6853]	-	1048	938	735
357	278	398	8.872820218	7.684241315
7.906165504	3.429667164	2.95436311	3.199527195	
ENSG00000122566	22669.47989	21951.41978	24623.89813	
13728.65449	10537.11107	10569.91622	23081.59926	
11611.89393	0.991129514	4.84E-13	8.56E-11	
HNRNPA2B1	7	26173057	26201529	- 9267
protein_coding	heterogeneous nuclear ribonucleoprotein A2/B1			
[Source:HGNC Symbol;Acc:HGNC:5033]	-	24987	24804	21182
13252	9231	12253	132.0394289	126.8262059
142.2114771	79.46105152	61.22896921	61.48006084	
ENSG00000144057	498.0807803	416.8327171	534.746159	
103.5968495	127.8470848	45.7198694	483.2198855	
92.38793455	2.394573883	5.05E-13	8.85E-11	
ST6GAL2 2	106801600	106887108	-	7708
protein_coding	"ST6 beta-galactoside alpha-2,6-sialyltransferase 2			
[Source:HGNC Symbol;Acc:HGNC:10861]"	-	549	471	460
100	112	53	3.48786223	2.895380479
3.712983098	0.720892219	0.893148508	0.319716597	
ENSG00000118515	458.1617378	545.1570143	383.6222445	
1027.680747	1359.516767	1719.239617	462.3136655	
1368.812377	-1.565041156	5.27E-13	9.13E-11	SGK1
6	134169246	134318112	-	9992
protein_coding	serum/glucocorticoid regulated kinase 1 [Source:HGNC			
Symbol;Acc:HGNC:10810]	-	505	616	330 992 1191
1993	2.474956877	2.921155847	2.054794342	
5.5165974	7.326671103	9.274401465		
ENSG00000164611	1456.1378	1308.022836	1818.13694	
675.4514587	598.141718	478.7646701	1527.432526	
584.1192823	1.387178851	6.34E-13	1.09E-10	PTTG1
5	160421822	160428744	+	2013
protein_coding	pituitary tumor-transforming 1 [Source:HGNC			
Symbol;Acc:HGNC:9690]	-	1605	1478	1564 652 524
555	39.04450717	34.79021399	48.33924027	
17.9976526	16.00054856	12.81976979		
ENSG00000091136	4457.323996	3176.247605	4723.203574	
1617.146821	1519.325623	758.2597208	4118.925058	
1298.244055	1.666431895	7.11E-13	1.21E-10	LAMB1
7	107923799	108003255	-	8140
protein_coding	laminin subunit beta 1 [Source:HGNC			
Symbol;Acc:HGNC:6486]	-	4913	3589	4063 1561 1331
879	29.55636647	20.89178242	31.05483771	
10.65590995	10.05080879	5.021060893		
ENSG00000118193	1566.822418	969.0696927	1183.4165	
468.2577597	186.063168	244.1268498	1239.769537	
299.4825925	2.049376009	7.39E-13	1.25E-10	KIF14
1	200551497	200620734	-	7277

protein_coding	kinesin family member 14 [Source:HGNC						
Symbol;Acc:HGNC:19181]	-	1727	1095	1018	452	163	
283	11.62167286	7.129977922		8.703666659			
3.451422322	1.376837194	1.808277501					
ENSG00000095752	631.4466723	938.0948623		1676.312959			
199.9419195	276.2410224	283.8082459		1081.951498			
253.3303959	2.093142852	9.13E-13		1.52E-10		IL11	
19	55364389	55370463		-	2671		
protein_coding	interleukin 11 [Source:HGNC						
Symbol;Acc:HGNC:5966]	-	696	1060	1442	193	242	329
12.76039256	18.80435399	33.58908853		4.015091664			
5.56914901	5.727340825						
ENSG00000101160	2908.646597	3692.199779		3098.040247			
1715.563828	1288.744274	1313.799266		3232.962208			
1439.369123	1.167599656	9.37E-13		1.55E-10		CTSZ	
20	58995185	59007247		-	2038		
protein_coding	cathepsin Z [Source:HGNC						
Symbol;Acc:HGNC:2547]	-	3206	4172	2665	1656	1129	1523
96.99884453	81.35792814	45.15108556		34.05156858			
34.74775429							
ENSG00000162723	101.6121082	88.49951531		86.02438209			
275.5676196	496.5489453	444.2591083		92.0453352			
405.4585577	-2.137828322	1.07E-12		1.75E-10		SLAMF9	
1	159951492	159954254		-	1156		
protein_coding	SLAM family member 9 [Source:HGNC						
Symbol;Acc:HGNC:18430]	-	112	100	74	266	435	
515	4.744482752	4.098912116		3.982728779			
12.78603374	23.13016778	20.71478419					
ENSG00000145934	722.1717689	469.9324263		789.3318303			
202.0138565	69.63100152	76.77487503		660.4786752			
116.139911	2.507962199	1.10E-12		1.79E-10		TENM2	
5	167284799	168264157		+	11042		
protein_coding	teneurin transmembrane protein 2 [Source:HGNC						
Symbol;Acc:HGNC:29943]	-	796	531	679	195	61	
89	3.530156901	2.278626895		3.825858276			
0.981293478	0.339570108	0.374777303					
ENSG00000137807	2520.343183	1507.146746		2155.259519			
867.1056302	563.8969631	409.7535465		2060.916483			
613.58538	1.748724694	1.39E-12		2.23E-10		KIF23	
15	69414246	69448427		+	6576		
protein_coding	kinesin family member 23 [Source:HGNC						
Symbol;Acc:HGNC:6392]	-	2778	1703	1854	837	494	
475	20.6870765	12.27098102		17.5410171			
7.072544637	4.617559546	3.358635107					
ENSG00000183087	2603.810272	2969.158739		3258.464095			
1430.672491	1496.495787	1165.42535		2943.811035			
1364.197876	1.110080056	1.41E-12		2.24E-10		GAS6	
13	113820549	113864067		-	6006		
protein_coding	growth arrest specific 6 [Source:HGNC						
Symbol;Acc:HGNC:4168]	-	2870	3355	2803	1381	1311	

1351	23.40050621	26.46876252	29.03652342	
12.77674992	13.41728745	10.45926193		
ENSG0000029993	2346.150998	2042.568813	2430.77004	
1155.104872	1079.851269	1111.07909	2273.163284	
1115.345077	1.026854389	1.47E-12	2.32E-10	HMGB3
X	150980509	150990775	+ 3967	
protein_coding	high mobility group box 3 [Source:HGNC			
Symbol;Acc:HGNC:5004]	HMG	2586 2308	2091 1115	946
1288	31.92236093	27.56766895	32.79432369	
15.61797454	14.65805329	15.09679232		
ENSG00000162413	3950.170706	5334.750783	4334.931362	
7985.245159	12273.32014	15334.27167	4539.95095	
11864.27899	-1.385886178	1.73E-12	2.69E-10	KLHL21
1	6590724 6614607 -	6901	protein_coding	kelch
like family member 21 [Source:HGNC	Symbol;Acc:HGNC:29041]			-
4354	6028 3729 7708	10752 17776	30.89620093	
41.38925956	33.61918667	62.0642801	95.7689197	
119.7713742				
ENSG00000135451	571.5681086	446.9225523	491.7339679	
149.1794633	173.5067579	150.0991939	503.4082096	
157.5951383	1.676927244	1.74E-12	2.69E-10	TROAP
12	49323236	49331731	+ 3954	
protein_coding	trophinin associated protein [Source:HGNC			
Symbol;Acc:HGNC:12327]	-	630 505	423 144	152
174	7.802478274	6.05175244	6.655957635	
2.023661507	2.362948646	2.046178898		
ENSG00000173545	1005.23407	1063.764174	877.6811957	
1823.304551	2438.226545	2740.604247	982.22648	
2334.045114	-1.248324146	1.96E-12	3.02E-10	ZNF622
5	16451519	16465792	- 1699	
protein_coding	zinc finger protein 622 [Source:HGNC			
Symbol;Acc:HGNC:30958]	-	1108 1202	755 1760	2136
3177	31.9355989	33.52258724	27.64778983	
57.56139793	77.27788539	86.94705051		
ENSG00000283632	78.02358307	127.439302	211.5734803	
9.323716454	9.131934625	8.626390453	139.0121218	
9.027347177	3.94385693	2.21E-12	3.36E-10	
EXOC3L2 19	45212621	45245431	- 2964	
protein_coding	exocyst complex component 3 like 2 [Source:HGNC			
Symbol;Acc:HGNC:30162]	-	86 144	182 9	8
10	1.420852303	2.302028699	3.820322579	
0.168723802	0.165904875	0.156874668		
ENSG00000179046	242.2360079	281.4284587	173.2112558	
690.9909861	651.7918339	860.0511281	232.2919075	
734.2779827	-1.657685388	2.65E-12	4.01E-10	TRIML2
4	188091273	188109603	- 3050	
protein_coding	tripartite motif family like 2 [Source:HGNC			
Symbol;Acc:HGNC:26378]	-	267 318	149 667	571
997	4.286867946	4.940304541	3.039437908	
12.15172795	11.5075701	15.19939624		

ENSG00000168487	1036.987854	1037.214319	1608.888443		
354.3012253	479.4265678	444.2591083	1227.696872		
425.9956338	1.526259727	2.74E-12	4.11E-10	BMP1	
8	22164736	22212326	+ 7471		
protein_coding	bone morphogenetic protein 1 [Source:HGNC				
Symbol;Acc:HGNC:1067]	-	1143 1172	1384 342	420	
515	7.491972551	7.433191406	11.52561744		
2.543662066	3.455555831	3.205232301			
ENSG00000122952	1995.044874	1771.760297	2077.372578		
998.6736291	674.6216705	610.7484441	1948.05925		
761.3479145	1.355751051	3.05E-12	4.54E-10	ZWINT	
10	56357228	56361275	- 2378		
protein_coding	ZW10 interacting kinetochore protein [Source:HGNC				
Symbol;Acc:HGNC:13195]	-	2199 2002	1787 964	591	
708	45.28371648	39.89134355	46.75408358		
22.52564458	15.27646927	13.84370785			
ENSG00000170312	2329.820481	1890.349647	2251.746326		
1011.105251	518.23729	445.9843864	2157.305485		
658.4423091	1.71258991	3.18E-12	4.69E-10	CDK1	
10	60778331	60794852	+ 3931		
protein_coding	cyclin dependent kinase 1 [Source:HGNC				
Symbol;Acc:HGNC:1722]	-	2568 2136	1937 976	454	
517	31.99047283	25.74688216	30.6572661		
13.7961789	7.099048925	6.115310564			
ENSG00000185950	942.6337537	1081.464077	992.767869		
2211.792737	1850.358253	2325.674866	1005.6219		
2129.275285	-1.082533082	3.29E-12	4.81E-10	IRS2	
13	109752698	109786568	- 8138		
protein_coding	insulin receptor substrate 2 [Source:HGNC				
Symbol;Acc:HGNC:6126]	-	1039 1222	854 2135	1621	
2696	6.252109067	7.115082845	6.52900546		
14.57780839	12.24370027	15.40398973			
ENSG00000198826	2067.624951	1611.576174	1877.424015		
879.5372522	555.9065203	439.083274	1852.20838		
624.8423488	1.568470123	3.46E-12	5.02E-10		
ARHGAP11A	15 32615144	32639949	+ 6428		
protein_coding	Rho GTPase activating protein 11A [Source:HGNC				
Symbol;Acc:HGNC:15783]	-	2279 1821	1615 849	487	
509	17.36189561	13.42333777	15.63160259		
7.339117922	4.656937971	3.681907998			
ENSG00000196878	1537.790387	1333.687696	1902.998831		
707.566482	587.8682915	416.6546589	1591.492305		
570.6964775	1.480354854	3.68E-12	5.30E-10	LAMB3	
1	209614870	209652466	- 4688		
protein_coding	laminin subunit beta 3 [Source:HGNC				
Symbol;Acc:HGNC:6490]	-	1695 1507	1637 683	515	
483	17.70560549	15.23183022	21.72540709		
8.095527349	6.752537213	4.790607012			
ENSG00000173546	1189.406016	1024.824387	1621.675852		
383.3083431	495.4074534	510.6823148	1278.635418		

463.1327038	1.463897036	4.00E-12	5.70E-10	CSPG4
15	75674322	75712848	- 8290	
protein_coding	chondroitin sulfate proteoglycan 4 [Source:HGNC			
Symbol;Acc:HGNC:2466]	-	1311 1158	1395 370	434
592	7.744205069	6.618818463	10.46951404	
2.48004315	3.21797421	3.320459552		
ENSG00000117519	4570.730367	4346.211197	5275.387107	
2687.302276	1957.658485	2010.811615	4730.776224	
2218.590792	1.092302641	4.66E-12	6.59E-10	CNN3
1	94896949	94927278	- 2838	
protein_coding	calponin 3 [Source:HGNC Symbol;Acc:HGNC:2157]			-
5038	4911 4538	2594 1715	2331 86.93095598	
81.99436065	99.48530759	50.78899559	37.14489144	
38.1909886				
ENSG00000103187	5004.396328	5114.38699	6577.377755	
2815.762369	2794.371995	2828.593429	5565.387024	
2812.909265	0.984113566	5.08E-12	7.14E-10	COTL1
16	84565594	84618077	- 6762	
protein_coding	coactosin like F-actin binding protein 1 [Source:HGNC			
Symbol;Acc:HGNC:18304]	-	5516 5779	5658 2718	2448
3279	39.94641179	40.49523922	52.05885637	
22.33501917	22.25274582	22.54744148		
ENSG00000177508	2548.467963	2983.318661	4322.143954	
1389.233752	1296.734717	1394.024697	3284.643526	
1359.997722	1.271505831	6.19E-12	8.61E-10	IRX3
16	54283304	54286763	- 2911	
protein_coding	iroquois homeobox 3 [Source:HGNC			
Symbol;Acc:HGNC:14360]	Homeobox	2809	3371 3718 1341	
1136	1616 47.25396087	54.87101425	79.46465946	
25.59756274	23.98741706	25.81250595		
ENSG00000136205	4375.671409	3695.739759	4932.45207	
2373.403822	1916.56478	1758.921013	4334.62108	
2016.296538	1.104183359	7.56E-12	1.04E-09	TNS3
7	47275154	47582558	- 11797	
protein_coding	tensin 3 [Source:HGNC Symbol;Acc:HGNC:21616]			-
4823	4176 4243	2291 1679	2039 20.02047449	
16.77317783	22.37733167	10.79109593	8.74835659	
8.036679784				
ENSG00000166401	1289.203623	1088.544038	1224.103707	
2278.09472	2332.067805	2506.829066	1200.617123	
2372.33053	-0.982876484	8.43E-12	1.16E-09	
SERPINB8	18 63969925	64019779	+ 5868	
protein_coding	serpin family B member 8 [Source:HGNC			
Symbol;Acc:HGNC:8952]	-	1421 1230	1053 2199	2043
2906	11.85857914	9.932108314	11.16464999	
20.82318549	21.40058384	23.02695557		
ENSG00000105894	632.3539233	569.9368786	869.5437541	
243.4525963	93.60232991	94.89029498	690.6115187	
143.9817404	2.262297514	1.04E-11	1.41E-09	PTN
7	137227341	137343865	- 1713	

protein_coding	pleiotrophin	[Source:HGNC Symbol;Acc:HGNC:9630]	-				
	697	644	748	235	82	110	19.92526466
	17.81373327		27.16758794		7.622940728		2.942414483
	2.985838684						
ENSG00000087303	271.2680388		226.5587592		327.8226453		
55.94229872	61.64055872		66.42320649		275.2164811		
61.33535464	2.16302673		1.44E-11		1.94E-09		NID2
	14	52004803	52069228		-	6392	
protein_coding	nidogen 2	[Source:HGNC Symbol;Acc:HGNC:13389]	-				
	299	256	282	54	54	77	2.290673046
	1.897709099		2.744853618		0.469428051		0.519283297
	0.560125026						
ENSG00000150995	2466.815376		2564.715954		2135.497161		
5799.351634	4395.88503		4423.613024		2389.009497		
4872.949896	-1.028008308		1.69E-11		2.27E-09		ITPR1
	3	4493345	4847840	+	32454		
protein_coding	"inositol 1,4,5-trisphosphate receptor type 1	[Source:HGNC Symbol;Acc:HGNC:6180]"	-				
	5598	3851	5128	4.102699036	4.231132154		1837
3.52166281	9.584659875		7.293779787		7.347012907		
ENSG00000184226	347.47712		326.5632115		202.2735471		
697.2067971	997.6638578		1086.062558		292.1046262		
926.9777376	-1.663386101		1.70E-11		2.27E-09		PCDH9
	13	66302834	67230445		-	30944	
protein_coding	protocadherin 9	[Source:HGNC Symbol;Acc:HGNC:8661]	-				
	-	383	369	174	673	874	1259
0.60610938	0.565036307		0.349848199		1.208511133		
1.736130395	1.891822106						
ENSG00000198886	47129.87318		44775.44478		32982.21309		
73681.18726	88302.38335		89103.71226		41629.17702		
83695.76096	-1.007522657		1.89E-11		2.49E-09		MT-ND4
	MT	10760	12137	+	1378		protein_coding
mitochondrially	encoded NADH:ubiquinone oxidoreductase core subunit 4	[Source:HGNC Symbol;Acc:HGNC:7459]	-				
	71123	77357	103292	1846.070566	1739.707516		28372
1280.995429	2867.958701		3450.624977		3485.366777		
ENSG00000166147	2976.690419		1924.864458		3795.535237		
1158.212777	1120.944975		741.0069399		2899.030038		
1006.721564	1.52625259		1.90E-11		2.49E-09		FBN1
	15	48408306	48645849		-	16057	
protein_coding	fibrillin 1	[Source:HGNC Symbol;Acc:HGNC:3603]	-				
	3281	2175	3265	1118	982	859	10.00623058
	6.418318946		12.6510224		3.86891724		3.759191419
	2.487481014						
ENSG00000169607	899.0857073		775.2557541		1068.329826		
390.5601226	267.1090878		197.5443414		914.2237626		
285.0711839	1.682383981		1.94E-11		2.52E-09		CKAP2L
	2	112736607	112764677		-	5219	
protein_coding	cytoskeleton associated protein 2 like	[Source:HGNC Symbol;Acc:HGNC:26877]	-				
	-		991	876	919	377	234

229	9.298545942	7.953224655	10.95557209	
4.013895827	2.755979106	2.040230349		
ENSG00000119630	1709.26082	1587.681305	2656.29342	
756.2570013	641.5184074	311.4126953	1984.411848	
569.729368	1.801411402	2.09E-11	2.70E-09	PGF
14	74941834	74955784	- 5962	
protein_coding	placental growth factor [Source:HGNC			
Symbol;Acc:HGNC:8893]	-	1884 1794	2285 730	562
361	15.4745351	14.25794411	23.84520604	
6.803665164	5.794176282	2.815439817		
ENSG00000122642	2605.624774	2533.741123	3225.914328	
1455.535735	1286.46129	996.3480973	2788.426742	
1246.115041	1.16234913	2.35E-11	3.02E-09	FKBP9
7	32957404	33006931	+ 5170	
protein_coding	FK506 binding protein 9 [Source:HGNC			
Symbol;Acc:HGNC:3725]	-	2872 2863	2775 1405	1127
1155	27.2033617	26.23960214	33.39483415	
15.10072591	13.3992575	10.38777321		
ENSG00000164442	1328.215414	1719.545583	1487.989312	
3040.567533	2955.322343	4477.959284	1511.91677	
3491.283053	-1.207666257	2.71E-11	3.44E-09	CITED2
6	139371807	139374620	- 2535	
protein_coding	Cbp/p300 interacting transactivator with Glu/Asp rich			
carboxy-terminal	domain 2 [Source:HGNC Symbol;Acc:HGNC:1987]			-
1464	1943 1280	2935 2589	5191 28.28080691	
36.31794593	31.41512938	64.33424158	62.77712854	
95.21471753				
ENSG00000112742	1360.876449	887.6501386	1217.128757	
476.5455077	307.0613018	194.0937852	1155.218448	
325.9001982	1.827231912	3.02E-11	3.81E-09	TTK
6	80003887	80042527	+ 4579	
protein_coding	TTK protein kinase [Source:HGNC Symbol;Acc:HGNC:12401]			
-	1500 1003	1047 460	269 225	
16.0416597	10.37902912	14.22600263	5.582120815	
3.611012541	2.284772131			
ENSG00000162511	3925.67493	3085.978099	3802.510187	
1871.99507	1552.428886	1062.771304	3604.721072	
1495.731753	1.26960103	3.88E-11	4.87E-09	LAPTM5
1	30732469	30757820	- 3274	
protein_coding	lysosomal protein transmembrane 5 [Source:HGNC			
Symbol;Acc:HGNC:29612]	-	4327 3487	3271 1807	1360
1232	64.71976083	50.46609642	62.15967222	
30.6684284	25.53333795	17.49697821		
ENSG00000188610	506.246039	444.2675669	442.9093186	
112.9205659	180.3557089	108.6925197	464.4743082	
133.9895982	1.798135228	3.95E-11	4.91E-09	FAM72B
1	121167646	121185539	- 3033	
protein_coding	family with sequence similarity 72 member B			
[Source:HGNC Symbol;Acc:HGNC:24805]	-		558 502	381
109	158 126	9.00928804	7.842558152	

7.815547591	1.996945127	3.202078959	1.931653178	
ENSG00000132205	131.5513901	159.2991276	266.2105878	
10.35968495	18.26386925	31.05500563	185.6870352	
19.89285328	3.207140069	4.36E-11	5.40E-09	
EMILIN2	18	2847030	2915993	+ 6435 protein_coding
elastin microfibril interfacier 2 [Source:HGNC Symbol;Acc:HGNC:19881]				
-	145	180	229	10 16 36
1.103438504	1.325410463	2.21408239	0.086350229	
0.152833582	0.260126722			
ENSG00000179218	16494.72981	15905.13289	18384.80544	
10497.46876	7514.440705	7431.635375	16928.22272	
8481.181613	0.997085423	4.94E-11	6.07E-09	CALR
19	12938578	12944489	+ 2714	
protein_coding calreticulin [Source:HGNC Symbol;Acc:HGNC:1455] -				
18181	17972	15815	10133	6583 8615 328.0474053
	313.7711485	362.5485726	207.4628038	149.0944139
	147.5966351			
ENSG00000168056	2039.500172	1842.559909	3287.526386	
891.9688741	1007.937284	932.5128079	2389.862155	
944.1396554	1.339325045	5.10E-11	6.22E-09	LTBP3
11	65538805	65558930	- 10298	
protein_coding latent transforming growth factor beta binding protein				
3 [Source:HGNC Symbol;Acc:HGNC:6716] -				
861	883	1081	10.6898621	9.579752271 2248 2082 2828
17.08572312	4.645819233	5.27054076	4.880943996	
ENSG00000121064	564.3101008	631.8865393	774.2194388	
216.5174154	195.1951026	272.5939383	656.8053597	
228.1021521	1.522300066	5.18E-11	6.25E-09	SCPEP1
17	56978105	57006768	+ 3853	
protein_coding serine carboxypeptidase 1 [Source:HGNC				
Symbol;Acc:HGNC:29507] -				
316	7.905331008	8.780629321	10.75429801	666 209 171
3.014111547	2.7280006	3.81345909		
ENSG00000198804	99462.83065	94057.28487	71200.28857	
144700.9715	206339.4873	215401.8322	88240.1347	
188814.097	-1.097447897	5.19E-11	6.25E-09	MT-C01
MT	5904	7445	+ 1542	protein_coding
mitochondrially encoded cytochrome c oxidase I [Source:HGNC				
Symbol;Acc:HGNC:7419] -				
249701	3481.590474	3265.830291	2471.236926	61248 139677 180763
5033.297127	7205.639441	7529.513669		
ENSG00000130821	4972.642545	5486.969949	5436.973447	
8653.444838	9070.294067	9508.007557	5298.86198	
9077.248821	-0.776668103	6.25E-11	7.47E-09	SLC6A8
X	153688099	153696593	+ 5498	
protein_coding solute carrier family 6 member 8 [Source:HGNC				
Symbol;Acc:HGNC:11055] -				
11022	48.81842345	53.43347202	52.92604979	4677 8353 7946
84.42086341	88.83644797	93.21519004		
ENSG00000237649	2027.705909	1936.369395	2341.258183	



1096.054668	784.204886	581.4187165	2101.777829	
820.5594234	1.357557699	6.88E-11	8.17E-09	KIFC1
6	33391536	33409924	+ 3345	
protein_coding	kinesin family member C1 [Source:HGNC			
Symbol;Acc:HGNC:6389]	-	2235 2188	2014 1058	687
674	32.71975845	30.99400055	37.46020854	
17.57525315	12.62431944	9.369033516		
ENSG0000011028	4734.03554	4614.364728	7630.59519	
941.6953619	1327.554996	628.863864	5659.665153	
966.038074	2.550939335	7.82E-11	9.22E-09	MRC2
17	62627401	62693597	+ 6860	
protein_coding	mannose receptor C type 2 [Source:HGNC			
Symbol;Acc:HGNC:16875]	-	5218 5214	6564 909	1163
729	37.2484875	36.01416516	59.5321138	
7.36294932	10.42084555	4.941222732		
ENSG00000142892	1154.023229	956.6797605	1105.529559	
538.7036173	410.9370581	427.0063274	1072.077516	
458.8823343	1.224077931	8.24E-11	9.66E-09	PIGK
1	77088990	77219430	- 5513	
protein_coding	phosphatidylinositol glycan anchor biosynthesis class			
K [Source:HGNC	Symbol;Acc:HGNC:8965]	-	1272 1081	951
520	360 495	11.29868244	9.291035988	
10.73246229	5.241159722	4.013856746	4.174920641	
ENSG00000137831	2501.290913	1681.490791	1985.535738	
1056.687865	727.1302945	675.4463725	2056.105814	
819.7548439	1.327048303	8.69E-11	1.01E-08	UACA
15	70654554	70763593	- 11031	
protein_coding	uveal autoantigen with coiled-coil domains and ankyrin			
repeats [Source:HGNC	Symbol;Acc:HGNC:15947]	-	2757 1900	
1708	1020 637	783 12.23913049	8.161409274	
9.633405209	5.138038224	3.549538638	3.300486005	
ENSG00000235385	75.30183018	53.98470434	36.03724115	
293.1790841	275.0995306	236.3630984	55.10792522	
268.2139044	-2.274736666	8.79E-11	1.02E-08	
LINC02154	X 13266048	13303452	-	1557
lincRNA	long intergenic non-protein coding RNA	2154		
[Source:HGNC	Symbol;Acc:HGNC:53015]	-	83 61	31
283	241 274	2.610466735	1.856383345	
1.238739333	10.09973239	9.514276974	8.182631028	
ENSG00000166833	1690.20855	1134.563786	1564.713761	
695.1348601	450.8892721	353.6820086	1463.162032	
499.9020469	1.550121745	9.69E-11	1.11E-08	NAV2
11	19350724	20121598	+ 14673	
protein_coding	neuron navigator 2 [Source:HGNC			
Symbol;Acc:HGNC:15997]	-	1863 1282	1346 671	395 410
6.217597738	4.139954313	5.707330061	2.541064251	
1.654723895	1.299259668			
ENSG00000154229	3046.548744	2451.436574	3344.488477	
1602.643262	1092.40768	927.3369737	2947.491265	
1207.462638	1.28770793	1.09E-10	1.24E-08	PRKCA

17	66302636	66810743	+	11152	
protein_coding	protein kinase C alpha	[Source:HGNC			
Symbol;Acc:HGNC:9393]	-	3358 2770	2877	1547	957
1075	14.74540191	11.76937631	16.0506989		
7.708140046	5.274806555	4.482153458			
ENSG00000143401	4029.10154	2847.914403	3438.6503		
1908.253968	1302.442176	1331.914686	3438.555414		
1514.20361	1.183301965	1.10E-10	1.25E-08		ANP32E
1	150218417	150236156	-	3605	
protein_coding	acidic nuclear phosphoprotein 32 family member E	[Source:HGNC			
Symbol;Acc:HGNC:16673]	-	4441 3218	2958		
1842	1141 1544	60.32595248	42.29677077		
51.05047028	28.39202707	19.45484323	19.91466683		
ENSG00000105472	1787.284403	2404.531831	2598.168838		
1169.608431	978.2584967	908.3589147	2263.328357		
1018.741947	1.151616133	1.22E-10	1.37E-08		
CLEC11A 19	50723329	50725718	+	1469	
protein_coding	C-type lectin domain containing 11A	[Source:HGNC			
Symbol;Acc:HGNC:10576]	-	1970 2717	2235 1129	857	
1053	65.67092203	87.63836839	94.65914519		
42.70553725	35.85967807	33.33017497			
ENSG00000158109	975.2947884	1108.898927	999.7428189		
1752.858693	2295.540066	2518.906012	1027.978845		
2189.101591	-1.090559364	1.33E-10	1.49E-08		TPRG1L
1	3625002 3630127	+	2414	protein_coding	tumor
protein p63 regulated 1 like	[Source:HGNC	Symbol;Acc:HGNC:27007]			
-	1075 1253	860 1692	2011 2920		
21.80719877	24.59462732	22.16501513	38.94710098		
51.20615483	56.24405235				
ENSG00000101057	3622.653107	3980.708199	4237.282064		
2255.303413	1972.497879	1516.519442	3946.881123		
1914.773578	1.043934238	1.39E-10	1.54E-08		MYBL2
20	43667019	43716496	+	2777	
protein_coding	MYB proto-oncogene like 2	[Source:HGNC			
Symbol;Acc:HGNC:7548]	MYB	3993 4498	3645 2177	1728	
1758	70.41288097	76.74852049	81.66359593		
43.56067421	38.24857139	29.43567567			
ENSG00000166825	1099.588171	1087.659043	1656.550601		
555.2791133	478.285076	319.1764468	1281.265938		
450.9135453	1.507406541	1.47E-10	1.62E-08		ANPEP
15	89784889	89815401	-	4871	
protein_coding	"alanyl aminopeptidase, membrane	[Source:HGNC			
Symbol;Acc:HGNC:500]"	-	1212 1229	1425 536	419	
370	12.18465323	11.95529217	18.20134918		
6.114468384	5.287413233	3.531950535			
ENSG00000166710	11441.34193	13251.03243	16657.34285		
7480.728502	7120.626024	6922.678338	13783.23907		
7174.677621	0.941830414	1.53E-10	1.69E-08		B2M
15	44711487	44718877	+	6079	
protein_coding	beta-2-microglobulin	[Source:HGNC	Symbol;Acc:HGNC:914]		

-	12611	14973	14329	7221	6238	8025		
101.5888551	116.7086706		146.6528765		66.00506229			
63.07548335	61.38240719							
ENSG00000196611	789.3083404		949.5997993		683.5450901			
2129.951226	1703.105808		1595.019595		807.4844099			
1809.358876	-1.162750705		1.57E-10		1.71E-08		MMP1	
11	102789920		102798160		-	1970		
protein_coding	matrix metalloproteinase 1 [Source:HGNC							
Symbol;Acc:HGNC:7155]	-		870	1073	588	2056	1492	
1849	21.62627444		25.80833199		18.57025839			
57.99211231	46.55324481		43.64170438					
ENSG00000182628	1472.468318		1158.458655		1385.690047			
701.350671	476.0020923		471.8635578		1338.87234			
549.7387737	1.28436632		1.68E-10		1.82E-08		SKA2	
17	59109951		59155269		-	3148		
protein_coding	spindle and kinetochore associated complex subunit 2							
[Source:HGNC	Symbol;Acc:HGNC:28006]	-			1623	1309	1192	
677	417	547	25.24715694		19.70295492			
23.55854033	11.94994726		8.142329842		8.079483917			
ENSG00000165304	2116.616504		1731.935515		2021.572979			
1053.579959	779.6389186		613.3363612		1956.708332			
815.518413	1.263338989		1.70E-10		1.84E-08		MELK	
9	36572862		36677683		+	3087		
protein_coding	maternal embryonic leucine zipper kinase [Source:HGNC							
Symbol;Acc:HGNC:16870]	-		2333	1957	1739	1017	683	
711	37.00895249		30.03866565		35.04852932			
18.30612262	13.59976595		10.70937163					
ENSG00000159261	13.60876449		18.58489822		25.5748163			
98.41700702	163.2333314		222.5608737		19.25615967			
161.4037374	-3.079504635		1.81E-10		1.94E-08		CLDN14	
21	36460621		36576569		-	2853		
protein_coding	claudin 14 [Source:HGNC							
Symbol;Acc:HGNC:2035]	-				258	0.257464983		
15	21	22	95	143				
0.348773889		0.479764109		1.85026476		3.080928545		
4.204834941								
ENSG00000124762	968.9440317		1285.012962		1195.041416			
1948.656739	3036.368263		3002.846517		1149.666137			
2662.623839	-1.211803196		1.91E-10		2.04E-08		CDKN1A	
6	36676460		36687339		+	3050		
protein_coding	cyclin dependent kinase inhibitor 1A [Source:HGNC							
Symbol;Acc:HGNC:1784]	-		1068	1452	1028	1881	2660	
3481	17.14747178		22.55761696		20.97008167			
34.26896594	53.60794477		53.06830324					
ENSG00000090889	2916.811856		2114.253421		2843.454576			
1380.946004	858.4018548		680.6222067		2624.839951			
973.3233551	1.431643586		2.04E-10		2.16E-08		KIF4A	
X	70290090		70420832		+	4533		
protein_coding	kinesin family member 4A [Source:HGNC							
Symbol;Acc:HGNC:13339]	-		3215	2389	2446	1333	752	
789	34.73153211		24.97220385		33.57202828			

16.34016637	10.19716582	8.093237819			
ENSG00000128039	601.5073904	863.7552694	566.1334335		
1366.442445	1717.945201	1767.547404	677.1320311		
1617.311683	-1.255003306	2.11E-10	2.22E-08		SRD5A3
4	55346109	55373096	+	4420	
protein_coding	steroid 5 alpha-reductase 3 [Source:HGNC				
Symbol;Acc:HGNC:25812]	-	663	976	487	1319
2049	7.345475975	10.46294613	6.855095958		1505
16.58191062	20.92963193	21.55513301			
ENSG00000171604	1245.655576	1155.80367	1626.325818		
661.9838682	554.7650285	477.9020311	1342.595021		
564.8836426	1.249003171	2.24E-10	2.35E-08		CXXC5
5	139647299	139683882	+	3852	
protein_coding	CXXC finger protein 5 [Source:HGNC				
Symbol;Acc:HGNC:26943]	-	1373	1306	1399	639
554	17.45472225	16.06509653	22.59634946		486
9.217786043	7.755277654	6.687356939			
ENSG00000101439	1922.464797	1933.71441	2679.543253		
1064.975613	1067.294859	920.4358613	2178.574153		
1017.568778	1.098096006	2.35E-10	2.44E-08		CST3
20	23626706	23638473	-	3695	
protein_coding	cystatin C [Source:HGNC Symbol;Acc:HGNC:2475]		-		
2119	2185	2305	1028	935	1067
	28.01969731	38.81175968	15.4593317	15.55408716	28.08310977
	13.42706202				
ENSG00000145147	2173.773314	1796.540161	2559.806613		
1155.104872	964.5605948	870.4027967	2176.706696		
996.6894211	1.126843682	2.36E-10	2.44E-08		SLIT2
4	20253260	20620561	+	9712	
protein_coding	slit guidance ligand 2 [Source:HGNC				
Symbol;Acc:HGNC:11086]	-	2396	2030	2202	1115
1009	12.08110958	9.904072367	14.10637704		845
6.379376545	5.348049218	4.830738299			
ENSG00000123689	710.3775064	517.7221646	656.8077822		
263.1359977	200.9025618	226.8740689	628.3024844		
230.3042095	1.44702249	2.38E-10	2.45E-08		G0S2
1	209675420	209676388	+	866	
protein_coding	G0/G1 switch 2 [Source:HGNC Symbol;Acc:HGNC:30229]				
-	783	585	565	254	176
44.27642562	32.00843311	40.59171516	16.29775813		
12.49229226	14.12111125				
ENSG00000141526	3749.668242	4127.617394	6480.890948		
2175.533839	2217.918622	1671.79447	4786.058862		
2021.748977	1.243237496	2.43E-10	2.49E-08		
SLC16A3	17	82228397	82261129	+	8995
protein_coding	solute carrier family 16 member 3 [Source:HGNC				
Symbol;Acc:HGNC:10924]	-	4133	4664	5575	2100
1938	22.50053897	24.56879264	38.56120091		1943
12.9726939	13.27758203	10.01805988			
ENSG00000175063	2416.916573	2408.956807	2800.442385		

1199.651517	961.1361193	481.3525873	2542.105255	
880.7134079	1.530288537	2.73E-10	2.78E-08	UBE2C
20	45812576	45816957	+ 1286	
protein_coding	ubiquitin conjugating enzyme E2 C [Source:HGNC			
Symbol;Acc:HGNC:15937]	-	2664 2722	2409 1158	842
558	101.4429653	100.2936861	116.5474238	
50.03566019	40.24560711	20.17549731		
ENSG00000212907	10841.64904	9192.444655	7106.311456	
16778.54574	18002.46762	17958.41964	9046.801718	
17579.811	-0.958265959	2.75E-10	2.78E-08	MT-
ND4L MT	10470 10766	+ 297	protein_coding	
mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 4L				
[Source:HGNC Symbol;Acc:HGNC:7460]	-		11950 10387	6113
16196	15771 20818	1970.335306	1657.143521	
1280.574334	3030.144661	3263.999944	3259.219222	
ENSG0000001036	1811.780179	1693.880723	1902.998831	
1017.321062	655.2163094	640.9408106	1802.886578	
771.159394	1.225362845	2.85E-10	2.87E-08	FUCA2
6	143494811	143511690	- 2793	
protein_coding	alpha-L-fucosidase 2 [Source:HGNC			
Symbol;Acc:HGNC:4008]	-	1997 1914	1637 982	574
743	35.01352315	32.4711327	36.46570299	
19.53676244	12.6324712	12.36940747		
ENSG00000107731	1430.734773	1192.973466	2195.946727	
590.5020421	639.2354238	657.3309525	1606.551655	
629.0228061	1.351732457	2.91E-10	2.90E-08	UNC5B
10	71212570	71302864	+ 6841	
protein_coding	unc-5 netrin receptor B [Source:HGNC			
Symbol;Acc:HGNC:12568]	-	1577 1348	1889 570	560
762	11.28861825	9.336771762	17.17984393	
4.629854138	5.031712247	5.179244327		
ENSG00000203805	440.9239695	322.1382357	485.9215097	
134.6759043	106.15874	56.93417699	416.327905	
99.25627378	2.07262119	3.22E-10	3.20E-08	PLPP4
10	120456954	120589855	+ 1785	
protein_coding	phospholipid phosphatase 4 [Source:HGNC			
Symbol;Acc:HGNC:23531]	-	486 364	418 130	93
66	13.33296479	9.66250216	14.56950873	
4.046850637	3.202521753	1.719240896		
ENSG00000099901	5136.854969	6173.726188	6042.631596	
3281.948192	3328.590171	3301.319626	5784.404251	
3303.952663	0.807917121	3.29E-10	3.25E-08	RANBP1
22	20115938	20127357	+ 4622	
protein_coding	RAN binding protein 1 [Source:HGNC			
Symbol;Acc:HGNC:9847]	-	5662 6976	5198 3168	2916
3827	59.98858354	71.5159598	69.97021053	
38.08616771	38.77974408	38.49989448		
ENSG00000137812	1606.741461	1014.204445	1261.30344	
592.5739791	283.0899734	233.7751813	1294.083115	
369.8130446	1.807920633	3.31E-10	3.25E-08	KNL1

15	40594020	40664342	+	10250	
protein_coding	kinetochore scaffold 1	[Source:HGNC			
Symbol;Acc:HGNC:24054]	-	1771 1146	1085	572	248
271	8.461032814	5.297697948	6.585863412		
3.100874624	1.487219858	1.229352542			
ENSG00000221955	384.6744096	423.9126783	320.8476954		
821.5230165	875.5242322	911.8094709	376.4782611		
869.6189065	-1.206105702	3.39E-10	3.31E-08		
SLC12A8 3	125082636	125212864	-	5586	
protein_coding	solute carrier family 12 member 8	[Source:HGNC			
Symbol;Acc:HGNC:15595]	-	424 479	276	793	767
1057	3.717008967	4.063132854	3.07407881		
7.888315997	8.439987293	8.79842779			
ENSG00000162063	1037.895105	845.1703712	1171.791583		
478.6174446	331.0326302	422.6931322	1018.285686		
410.781069	1.308124045	3.45E-10	3.35E-08		CCNF
16	2429394 2458854	+ 6309	protein_coding		cyclin
F [Source:HGNC	Symbol;Acc:HGNC:1591]	-	1144	955	1008
462	290 490	8.879615909	7.172478994		
9.940468452	4.06905436	2.825431812	3.61132497		
ENSG00000181019	1077.814148	1205.363399	1519.376586		
630.9048134	521.6617655	506.3691196	1267.518044		
552.9785661	1.196234425	3.63E-10	3.51E-08		NQ01
16	69706996	69726951	-	3254	
protein_coding	NAD(P)H quinone dehydrogenase 1	[Source:HGNC			
Symbol;Acc:HGNC:2874]	-	1188 1362	1307	609	457
587	17.87835578	19.83288985	24.98992114		
10.39948392	8.632687336	8.38786768			
ENSG00000137804	248.5867647	238.9486913	265.0480962		
65.26601518	68.48950969	61.24737221	250.8611841		
65.00096569	1.949438747	3.65E-10	3.51E-08		NUSAP1
15	41332694	41381050	+	2875	
protein_coding	nucleolar and spindle associated protein 1	[Source:HGNC			
Symbol;Acc:HGNC:18538]	-		274	270	228
63	60 71	4.667038648	4.449921563		
4.93405339	1.21762833	1.282805347	1.148289828		
ENSG00000168140	355.6423787	301.7833472	635.8829325		
134.6759043	78.76293614	66.42320649	431.1028861		
93.28734899	2.208504174	3.81E-10	3.64E-08		VASN
16	4371848 4383528	+ 2806	protein_coding		
vasorin [Source:HGNC	Symbol;Acc:HGNC:18517]	-	392	341	
547	130 69	77	6.841118038	5.758284962	
12.12848363	2.574350815	1.511502202	1.275951235		
ENSG00000162576	3867.610868	4540.025136	7365.547094		
2380.655601	2264.719787	1700.261558	5257.727699		
2115.212316	1.313627719	3.86E-10	3.67E-08		MXRA8
1	1352689 1361777	- 3622	protein_coding		matrix
remodeling associated 8	[Source:HGNC	Symbol;Acc:HGNC:7542]			
4263	5130 6336	2298	1984	1971	57.63623059
67.11125494	108.8362499	35.25442389	33.66980352		

	25.30283576						
ENSG00000136153	3049.270497	2027.523896	2751.617735				
1387.161815	1086.70022	926.4743346	2609.470709				
1133.445457	1.203343345	3.91E-10	3.69E-08			LM07	
13	75620434	75859870	+	14367			
protein_coding	LIM domain 7 [Source:HGNC Symbol;Acc:HGNC:6646] -						
3361	2291	2367	1339	952	1074	11.45594986	
	7.55588672	10.25035751	5.178768872	4.073035701			
	3.475915481						
ENSG00000101384	1885.267507	2067.348678	2500.519539				
1105.378384	898.3540688	1118.842842	2151.045241				
1040.858432	1.046169692	4.00E-10	3.77E-08			JAG1	
20	10637684	10673999	-	9298			
protein_coding	jagged 1 [Source:HGNC Symbol;Acc:HGNC:6188] -						
2078	2336	2151	1067	787	1297	10.94421673	
	11.90446102	14.39321177	6.376566911	5.202745122			
	6.486067326						
ENSG00000170961	573.3826105	742.5109335	594.0332331				
1534.269341	1453.119097	1195.617717	636.642259				
1394.335385	-1.129939304	4.47E-10	4.18E-08			HAS2	
8	121612116	121641390	-	4190			
protein_coding	hyaluronan synthase 2 [Source:HGNC Symbol;Acc:HGNC:4819] -						
1386	7.386381569	9.487993504	7.587762412	511	1481	1273	
19.6405244	18.67504861	15.38084606					
ENSG00000185215	927.2104872	692.0662097	1297.340681				
356.3731622	373.2678278	336.4292277	972.2057928				
355.3567392	1.451298123	4.57E-10	4.25E-08				
TNFAIP2	14	103123442	103137439	+	5029		
protein_coding	TNF alpha induced protein 2 [Source:HGNC Symbol;Acc:HGNC:11895] -						
390	9.951715313	7.368032931	13.80668465	1116	344	327	
3.800921065	3.99680976	3.605902582					
ENSG00000259781	1362.690951	1321.297764	1599.58851				
782.1562137	597.0002261	602.1220536	1427.859075				
660.4261645	1.112069761	4.67E-10	4.32E-08				
HMGB1P6	15	71164770	71165415	-	646		
processed_pseudogene	high mobility group box 1 pseudogene 6 [Source:HGNC Symbol;Acc:HGNC:4998] -						
755	523	698	113.8586678	109.5099878	1502	1493	1376
132.5234589	64.94212231	49.76414319	50.24049651				
ENSG0000013810	2396.957052	2264.702597	2383.107882				
1364.370508	1012.503252	828.1334835	2348.255844				
1068.335748	1.1368083	4.96E-10	4.57E-08			TACC3	
4	1721490	1745176	+	6528			
transforming acidic coiled-coil	containing protein 3 [Source:HGNC Symbol;Acc:HGNC:11524] -						
960	19.81898236	18.57447643	19.53802054	2050	1317	887	
11.2103113	8.352006705	6.837889926					
ENSG00000173207	2068.532202	2567.370939	2497.032064				

1292.888682	1263.631454	1018.776712	2377.645069	
1191.765616	0.996988834	5.70E-10	5.23E-08	CKS1B
1	154974653	154979249	+ 2338	
protein_coding	CDC28 protein kinase regulatory subunit 1B			
[Source:HGNC Symbol;Acc:HGNC:19083]	-		2280 2901	2148
1248	1107 1181	47.75501917	58.79354713	
57.16057868	29.66074958	29.10385207	23.48747922	
ENSG00000123485	1192.127769	1154.918675	1250.841015	
618.4731915	378.975287	297.6104706	1199.29582	
431.6863163	1.475124387	5.84E-10	5.33E-08	HJURP
2	233833416	233854566	- 3821	
protein_coding	Holliday junction recognition protein [Source:HGNC Symbol;Acc:HGNC:25444]			
	-	1314 1305	1076 597	332
345	16.84019093	16.18303282	17.52032186	
8.681791208	5.340825717	4.198296197		
ENSG00000140961	275.8042937	491.17231	315.0352371	
744.8613478	1217.971781	1325.876213	360.6706136	
1096.236447	-1.602944233	5.89E-10	5.34E-08	OSGIN1
16	83948282	83966332	+ 3460	
protein_coding	oxidative stress induced growth inhibitor 1			
[Source:HGNC Symbol;Acc:HGNC:30093]	-		304 555	271
719	1067 1537	4.302552401	7.600520333	
4.8730407	11.54688486	18.95551904	20.65517062	
ENSG00000142192	10641.14658	9008.365664	13612.77722	
5920.559948	5757.684781	4224.343405	11087.42982	
5300.862711	1.064686539	6.55E-10	5.92E-08	APP
21	25880550	26171128	- 6316	
protein_coding	amyloid beta precursor protein [Source:HGNC Symbol;Acc:HGNC:620]			
	-	11729 10179	11710 5715	5044
4897	90.93845019	76.36413449	115.3510681	
50.27894508	49.08856276	36.05113987		
ENSG00000277443	4338.474119	3718.749633	5963.582164	
2054.325525	2481.603234	2067.745792	4673.601972	
2201.22485	1.086113572	6.67E-10	5.98E-08	MARCKS
6	113857362	113863471	+ 4275	
protein_coding	myristoylated alanine rich protein kinase C substrate			
[Source:HGNC Symbol;Acc:HGNC:6759]	-		4782 4202	5130
1983	2174 2397	54.77749101	46.5743036	
74.66001841	25.77499791	31.25869053	26.07131477	
ENSG00000154146	444.5529733	584.9817962	723.0698062	
217.5533839	162.0918396	211.3465661	584.2015253	
196.9972632	1.565593398	6.69E-10	5.98E-08	NRGN
11	124739846	124747210	+ 1309	
protein_coding	neurogranin [Source:HGNC Symbol;Acc:HGNC:8000]			
	-			
490	661 622	210 142	245 18.33095609	
23.92700023	29.56361819	8.914391262	6.668007168	
8.702768997				
ENSG00000169919	941.7265027	945.1748235	1283.390781	
454.7901693	386.9657298	504.6438415	1056.764036	
448.7999135	1.233297713	8.40E-10	7.47E-08	GUSB



7	65960684	65982314	-	3992	
protein_coding	glucuronidase beta [Source:HGNC		Symbol;Acc:HGNC:4696]		
-	1038 1068	1104 439	339	585	
12.73313972	12.67672768	17.20621667	6.11063061		
5.219832004	6.813909351				
ENSG00000169744	468.1414984	248.683638	609.1456245		
99.45297551	119.856642	45.7198694	441.9902537		
88.34316229	2.32780828	8.68E-10	7.67E-08		LDB2
4	16501541	16898809	-	5586	
protein_coding	LIM domain binding 2 [Source:HGNC		Symbol;Acc:HGNC:6533]		
-	-	516 281	524	96	105
53	4.52352978	2.383591507	5.836294553		
0.954953765	1.155408952	0.441169984			
ENSG00000117632	10323.60874	10381.87814	12293.3492		
6625.018525	6579.558898	5615.780185	10999.61203		
6273.452536	0.810153833	8.88E-10	7.82E-08		STMN1
1	25884181	25906991	-	6261	
protein_coding	stathmin 1 [Source:HGNC		Symbol;Acc:HGNC:6510]		-
11379	11731 10575	6395 5764	6510	88.99980953	
88.78053787	105.0856752	56.75562214	56.58842786		
48.34686332					
ENSG00000130635	4477.283517	4568.34498	8067.69205		
1070.155455	1485.080868	853.1500158	5704.440183		
1136.12878	2.328174624	8.97E-10	7.86E-08		COL5A1
9	134641774	134844843	+	11189	
protein_coding	collagen type V alpha 1 chain [Source:HGNC		Symbol;Acc:HGNC:2209]		
-	-	4935 5162	6940	1033	1301
989	21.59854854	21.86015149	38.59002352		
5.130044015	7.147157998	4.109945244			
ENSG00000136271	3226.184435	3955.928334	3436.325317		
5533.107731	7152.587795	8111.394943	3539.479362		
6932.36349	-0.969835747	9.08E-10	7.91E-08		DDX56
7	44565417	44575051	-	4068	
protein_coding	DEAD-box helicase 56 [Source:HGNC		Symbol;Acc:HGNC:18193]		
-	-	3556 4470	2956	5341	6266
9403	42.80647749	52.06585682	45.20956539		
72.95476744	94.67968547	107.4772412			
ENSG00000100242	1432.549275	1559.36146	2145.959586		
747.9692533	850.411412	566.7538527	1712.62344		
721.711506	1.247314795	9.34E-10	8.10E-08		SUN2
22	38734725	38794143	-	6489	
protein_coding	Sad1 and UNC84 domain containing 2 [Source:HGNC		Symbol;Acc:HGNC:14210]		
-	-	1579 1762	1846	722	745
657	11.91606982	12.86632658	17.69949067		
6.18260452	7.057093294	4.707806601			
ENSG00000129195	1004.326819	1106.243941	1243.866065		
545.9553968	352.7209749	236.3630984	1118.145609		
378.34649	1.564607771	9.40E-10	8.11E-08		PIMREG
17	6444415 6451469	+	2823		protein_coding PICALM
interacting mitotic regulator [Source:HGNC	Symbol;Acc:HGNC:25483]				

-	1107	1250	1070	527	309	274	
19.20283836	20.98097062		23.58195173		10.37317682		
6.728139097	4.513055796						
ENSG00000160213	1466.117561		2056.728736		1806.512024		
2728.741016	5156.118588		6135.08889		1776.452774		
4673.316164	-1.395572726		9.47E-10		8.13E-08		CSTB
21	43772511		43776445		-	3935	
protein_coding	cystatin B [Source:HGNC Symbol;Acc:HGNC:2482]					-	
1616	2324	1554	2634	4517	7112	20.11061275	
27.98451779		24.57045078		37.19487278		70.55904825	
84.03844917							
ENSG00000156970	1414.404256		921.2799544		1113.667001		
561.4949242	296.7878753		276.0444945		1149.783737		
378.109098	1.605135091		1.02E-09		8.71E-08		BUB1B
15	40161023		40221136		+	4476	
protein_coding	BUB1 mitotic checkpoint serine/threonine kinase B						
[Source:HGNC Symbol;Acc:HGNC:1149]			-		1559	1041	958
542	260	320	17.05629587		11.02013951		
13.31626036	6.728546411		3.570513096		3.324228883		
ENSG00000138180	1675.692534		1214.21335		1562.388777		
762.4728122	362.9944014		355.4072867		1484.098221		
493.6248334	1.588395404		1.04E-09		8.87E-08		CEP55
10	93496632		93529092		+	3271	
protein_coding	centrosomal protein 55 [Source:HGNC						
Symbol;Acc:HGNC:1161]			-		1847	1372	318
412	27.65126694		19.87467374		25.56380942		
12.50285844	5.975770858		5.856628682				
ENSG00000135476	1046.060364		840.7453955		889.3061122		
380.2004376	357.2869422		171.66517		925.3706238		
303.05085	1.613465641		1.09E-09		9.24E-08		ESPL1
12	53268299		53293643		+	8890	
protein_coding	"extra spindle pole bodies like 1, separase						
[Source:HGNC Symbol;Acc:HGNC:16856]"			-		1153	950	765
367	313	199	6.351206448		5.063470512		
5.353853963	2.293909854		2.164162846		1.040836068		
ENSG00000176945	5.443505796		8.849951531		0	77.69763712	
82.18741163		137.1596082		4.764485776		99.01488565	
-4.323659086		1.12E-09		9.45E-08		MUC20	3
195720882		195741123		+	4249		protein_coding
	"mucin 20, cell surface associated [Source:HGNC						
Symbol;Acc:HGNC:23282]"			-		6	10	72
159	0.069150162		0.111516649		0	75	72
1.041581183		1.739968602			0	0.980813819	
ENSG00000111424	304.8363246		196.468924		189.4861389		
61.1221412	43.37668947		37.09347895		230.2637958		
47.19743654	2.290178512		1.18E-09		9.86E-08		VDR
12	47841537		47943048		-	5674	
protein_coding	vitamin D receptor [Source:HGNC Symbol;Acc:HGNC:12679]						
THR-like		336	222	163	59	38	43
2.89987067		1.853916133		1.787331542		0.577796257	

	0.411662802	0.3523791					
ENSG00000117906	2631.935052	2045.223799	2497.032064				
1367.478413	1181.444042	1048.969079	2391.396972				
1199.297178	0.995927139	1.28E-09	1.07E-07			RCN2	
15	76931619	76954392	+	10019			
protein_coding	reticulocalbin 2 [Source:HGNC Symbol;Acc:HGNC:9935]						
-	2901	2311	2148	1320	1035	1216	
14.17921004	10.92954317	13.33879958	7.320851513				
6.349848057	5.643391978						
ENSG00000228253	992.5325568	1015.089441	666.1077154				
1732.139323	2115.184358	2003.910502	891.2432376				
1950.411394	-1.128410656	1.34E-09	1.11E-07			MT-	
ATP8	MT	8366	8572	+	207	protein_coding	
mitochondrially	encoded ATP synthase membrane subunit 8 [Source:HGNC						
Symbol;Acc:HGNC:7415]	-	1094	1147	573	1672	1853	
2323	258.8067864	262.5545285	172.2229893				
448.8259629	550.2403492	521.8069779					
ENSG00000179820	3000.278944	3336.431727	3522.349699				
5167.410853	6641.199456	5959.973164	3286.353457				
5922.861158	-0.849924015	1.35E-09	1.11E-07			MYADM	
19	53866223	53876437	+	3675			
protein_coding	myeloid associated differentiation marker [Source:HGNC						
Symbol;Acc:HGNC:7544]	-	3307	3770	3030	4988	5818	
6909	44.06619329	48.60830168	51.29701945				
75.41906518	97.31140291	87.41558482					
ENSG00000150991	10653.84809	11516.44193	11720.24081				
16622.1145	22365.24939	21481.43751	11296.84361				
20156.26713	-0.835336924	1.36E-09	1.12E-07			UBC	
12	124911604	124917368	-	3898			
protein_coding	ubiquitin C [Source:HGNC Symbol;Acc:HGNC:12468] -						
11743	13013	10082	16045	19593	24902	147.5250973	
158.1838115	160.9206229	228.7230482	308.9629932				
297.0457972							
ENSG00000244486	1410.775252	1497.411799	1875.099031				
675.4514587	862.9678221	731.5179104	1594.428694				
756.6457304	1.075291146	1.39E-09	1.14E-07			SCARF2	
22	20424815	20437826	-	3341			
protein_coding	scavenger receptor class F member 2 [Source:HGNC						
Symbol;Acc:HGNC:19869]	-	1555	1692	1613	652	756	
848	22.79200866	23.99663379	30.03756602				
10.84384157	13.90889665	11.80185827					
ENSG00000120802	5286.551379	4196.647016	4713.90364				
2904.85566	2424.528643	2254.938464	4732.367345				
2528.107589	0.904664532	1.41E-09	1.15E-07			TMPO	
12	98515512	98550379	+	8593			
protein_coding	thymopoietin [Source:HGNC Symbol;Acc:HGNC:11875]						
-	5827	4742	4055	2804	2124	2614	
33.20694248	26.14828312	29.35978652	18.13198041				
15.19347308	14.14463645						
ENSG00000132002	4173.354444	4894.023197	4553.479793				

6999.003152	8346.588248	8450.412088	4540.285811		
7932.001162	-0.804921451	1.42E-09	1.15E-07		DNAJB1
19	14514770	14529770	-	3672	
protein_coding	DnaJ heat shock protein family (Hsp40) member B1				
[Source:HGNC Symbol;Acc:HGNC:5270]	-	4600	5530	3917	
6756	7312	9796	61.34565992	71.3590237	
66.36784951	102.2348613	122.3998457	124.0443884		
ENSG00000179750	361.9931354	338.0681485	559.1584836		
149.1794633	54.79160775	70.73640171	419.7399225		
91.56915758	2.195347105	1.49E-09	1.20E-07		
APOBEC3B	22	38982347	38992804	+	1896
protein_coding	apolipoprotein B mRNA editing enzyme catalytic				
subunit 3B [Source:HGNC Symbol;Acc:HGNC:17352]	-	399	382		
481	144	48	82	10.30536186	9.546660332
15.78387344	4.2202308	1.556145727	2.010974379		
ENSG00000035499	616.9306569	543.387024	531.258684		
247.5964703	162.0918396	216.5224004	563.8587883		
208.7369034	1.432324551	1.50E-09	1.21E-07		
DEPDC1B 5	60596912	60700190	-	3806	
protein_coding	DEP domain containing 1B [Source:HGNC				
Symbol;Acc:HGNC:24902]	-	680	614	457	239
251	8.749209429	7.644094159	7.470579001		142
3.4893229	2.293331945	3.06645048			
ENSG00000110237	1842.626712	1531.92661	1625.163327		
938.5874564	713.4323926	582.2813556	1666.572216		
744.7670682	1.162874733	1.53E-09	1.22E-07		
ARHGEF17	11	73308289	73369388	+	9908
protein_coding	Rho guanine nucleotide exchange factor 17				
[Source:HGNC Symbol;Acc:HGNC:21726]	-	2031	1731	1398	
906	625	675	10.03812522	8.278230424	
8.778655777	5.081059065	3.877406907	3.167734635		
ENSG00000163535	1402.609993	1011.54946	1118.316967		
570.8186407	422.3519764	274.3192164	1177.49214		
422.4966112	1.48038074	1.54E-09	1.22E-07		SG02
2	200510008	200583782	+	6022	
protein_coding	shugoshin 2 [Source:HGNC Symbol;Acc:HGNC:30812] -				
1546	1143	962	551	370	318
8.993565874	9.938965143	5.084203103	3.776663866		
2.455372497					
ENSG00000162490	160.583421	219.478798	549.8585504		
66.30198367	19.40536108	37.09347895	309.9735898		
40.9336079	2.916295467	1.55E-09	1.23E-07		DRAXIN
1	11691729	11725857	+	7346	
protein_coding	dorsal inhibitory axon guidance protein [Source:HGNC				
Symbol;Acc:HGNC:25054]	-	177	248	473	64
43	1.179915825	1.599658204	4.006056437		17
0.4841067	0.142247734	0.272175199			
ENSG00000196154	7608.206601	8887.121328	9032.56012		
5165.338916	4045.447039	2987.319014	8509.296016		
4066.034989	1.065618791	1.59E-09	1.25E-07		S100A4

1	153543613	153550136	-	1025	
protein_coding	S100 calcium binding protein A4	[Source:HGNC			
Symbol;Acc:HGNC:10494]	-	8386 10042	7770	4986	3544
3463	400.644953	464.2188726	471.6327992		
270.2965188	212.5285152	157.0940167			
ENSG00000163430	5294.716637	4736.494059	7051.674348		
3072.682556	2934.77549	2215.257068	5694.295015		
2740.905038	1.05493922	1.65E-09	1.29E-07		FSTL1
3	120392293	120451253	-	8727	
protein_coding	follistatin like 1	[Source:HGNC			
Symbol;Acc:HGNC:3972]	-	5836 5352	6066	2966	2571 2568
32.74756334	29.05879289	43.24583397	18.88505328		
18.1085827	13.68236153				
ENSG00000168615	4655.104706	3833.799003	5034.751336		
2705.949709	1800.132613	1558.788755	4507.885015		
2021.623692	1.157053574	1.75E-09	1.37E-07		ADAM9
8	38996869	39105144	+	6913	
protein_coding	ADAM metalloproteinase domain 9	[Source:HGNC			
Symbol;Acc:HGNC:216]	-	5131 4332	4331	2612	1577
1807	36.34662927	29.69260712	38.97880078		
20.99513441	14.02208181	12.15409464			
ENSG00000164308	1130.434704	823.0454924	1195.041416		
503.4806885	442.8988293	420.9678541	1049.507204		
455.7824573	1.203014878	1.76E-09	1.37E-07		ERAP2
5	96875939	96919716	+	7422	
protein_coding	endoplasmic reticulum aminopeptidase 2	[Source:HGNC			
Symbol;Acc:HGNC:29499]	-	1246 930	1028	486	388
488	8.221021346	5.937292424	8.617454743		
3.638541753	3.21335077	3.057242513			
ENSG00000146670	2565.705732	2388.601918	2510.981964		
1485.578822	1135.784369	1365.557609	2488.429871		
1328.9736	0.904447263	1.97E-09	1.53E-07		CDCA5
11	65066300	65084164	-	3925	
protein_coding	cell division cycle associated 5	[Source:HGNC			
Symbol;Acc:HGNC:14626]	-	2828 2699	2160	1434	995
1583	35.28323746	32.58289466	34.23898933		
20.30119178	15.58227196	18.75306556			
ENSG00000112655	2582.9435	2871.809272	3459.57515		
1538.413215	1596.947068	1632.113074	2971.442641		
1589.157785	0.902397625	2.03E-09	1.57E-07		PTK7
6	43076268	43161719	+	9024	
protein_coding	protein tyrosine kinase 7 (inactive)	[Source:HGNC			
Symbol;Acc:HGNC:9618]	-	2847 3245	2976	1485	1399
1892	15.44959375	17.03891967	20.51826747		
9.144067234	9.529409458	9.748842713			
ENSG00000131043	1586.781939	1803.620122	1691.425351		
2605.460765	3705.282474	3885.32626	1693.942471		
3398.689833	-1.004676657	2.04E-09	1.57E-07		AAR2
20	36236459	36270918	+	3101	
protein_coding	AAR2 splicing factor homolog	[Source:HGNC			

Symbol;Acc:HGNC:15886]	-	1749	2038	1455	2515	3246
4504	27.61955816	31.14073467		29.19228388		
45.06592263	64.34193379	67.53480244				
ENSG00000146918	2184.660326	1685.915767		2106.43487		
1135.42147	643.8013911	644.3913668		1992.336987		
807.8714094	1.30237454	2.35E-09		1.80E-07		NCAPG2
7	158631311	158704829		-	6988	
protein_coding	non-SMC condensin II complex subunit G2 [Source:HGNC					
Symbol;Acc:HGNC:21904]	-	2408	1905	1812	1096	564
747	16.87455271	12.91720418		16.13288892		
8.715046356	4.961049586	4.970484498				
ENSG00000163808	1437.08553	943.4048332		1095.067134		
571.8546092	276.2410224	376.9732628		1158.519166		
408.3562981	1.503956758	2.63E-09		2.01E-07		KIF15
3	44761717	44873376		+	5285	
protein_coding	kinesin family member 15 [Source:HGNC					
Symbol;Acc:HGNC:17273]	-	1584	1066	942	552	242
437	14.67705322	9.557375599		11.08952024		
5.803715696	2.814606813	3.844744315				
ENSG00000124172	2348.872751	3421.391262		3397.963093		
1628.542474	1220.254764	1526.87111		3056.075702		
1458.556116	1.066604559	2.67E-09		2.02E-07		
ATP5F1E 20	59025467	59032382		-	5126	
protein_coding	ATP synthase F1 subunit epsilon [Source:HGNC					
Symbol;Acc:HGNC:838]	-	2589	3866	2923	1572	1069
1770	24.73330381	35.73630851		35.47783096		
17.04064321	12.8187732	16.05556831				
ENSG00000110811	1136.78546	1107.128937		1246.191049		
635.0486874	543.3501102	571.929687		1163.368482		
583.4428282	0.995096784	2.91E-09		2.20E-07		P3H3
12	6828410	6839851	+	4601		protein_coding
3-hydroxylase 3 [Source:HGNC	Symbol;Acc:HGNC:19318]	-				prolyl
1251	1072	613		476	663	1253
12.88343045	14.49604067	7.403213684		6.35919408		
6.700270147						
ENSG00000179403	1181.240758	959.334746		1053.217435		
508.660531	555.9065203	472.7261968		1064.597646		
512.4310827	1.055789413	3.01E-09		2.27E-07		VWA1
1	1434861	1442882	+	5065		protein_coding
Willebrand factor A domain containing 1 [Source:HGNC						von
Symbol;Acc:HGNC:30910]	-	1302	1084	906	491	487
548	12.58810098	10.1408947		11.12898596		
5.386592054	5.910127794	5.030742946				
ENSG00000122691	662.2932052	790.3006717		778.8694054		
257.9561552	320.7592037	359.7204819		743.8210941		
312.8119469	1.248334079	3.03E-09		2.27E-07		TWIST1
7	19020991	19117672		-	2033	
protein_coding	twist family bHLH transcription factor 1 [Source:HGNC					
Symbol;Acc:HGNC:12428]	bHLH	730	893	670	249	281
417	17.58385788	20.81327973		20.50426805		

6.805718976	8.496035169	9.537393347				
ENSG00000268858	256.7520234	323.0232309	277.8355043			
556.3150818	762.5165412	1022.227269	285.8702529			
780.3529639	-1.449208334	3.21E-09	2.39E-07			
AL118506.1	20	63861212	63864293	-		3082
antisense		"novel transcript, antisense to ABHD16B"				
-	283	365	239	537	668	1185
4.496581659	5.611599539	4.824719987	9.681746227			
13.32266747	17.87790948					
ENSG00000164109	2280.828928	2131.068329	2286.621075			
1357.118728	888.0806423	820.3697321	2232.839444			
1021.856368	1.127993978	3.25E-09	2.42E-07			MAD2L1
4	120055608	120067074	-	5748		
protein_coding	mitotic arrest deficient 2 like 1 [Source:HGNC					
Symbol;Acc:HGNC:6763]	-	2514	2408	1967	1310	778
951	21.41791533	19.85025837	21.29092093			
12.66387397	8.319748493	7.692983051				
ENSG00000177283	1949.682326	2596.575779	2549.344188			
4130.406389	4294.292258	4570.261662	2365.200764			
4331.653436	-0.873256029	3.45E-09	2.55E-07			FZD8
10	35638249	35642278	-	4030		
protein_coding	frizzled class receptor 8 [Source:HGNC					
Symbol;Acc:HGNC:4046]	-	2149	2934	2193	3987	3762
5298	26.11319747	34.49701394	33.85637311			
54.97348039	57.38007417	61.1276818				
ENSG00000136108	3882.126883	2794.814694	3743.223113			
1944.512865	1761.321891	1349.167467	3473.38823			
1685.000741	1.043941045	3.50E-09	2.58E-07			CKAP2
13	52455429	52476628	+	4547		
protein_coding	cytoskeleton associated protein 2 [Source:HGNC					
Symbol;Acc:HGNC:1990]	-	4279	3158	3220	1877	1543
1564	46.08355941	32.90891866	44.05931736			
22.93777889	20.85875255	15.99347415				
ENSG00000154734	3392.211362	3523.165705	2004.135604			
6803.205106	5575.046089	7060.700586	2973.17089			
6479.650593	-1.123462763	3.69E-09	2.71E-07			
ADAMTS1 21	26835747	26845409	-	7063		
protein_coding	ADAM metalloproteinase with thrombospondin type 1 motif					
1 [Source:HGNC Symbol;Acc:HGNC:217]	-		3739	3981	1724	
6567	4884	8185	25.92357796	26.70726478		
15.18640235	51.66421722	42.5043921	53.8840829			
ENSG00000124731	369.2511432	461.9674699	267.3730795			
842.2423864	849.2699202	1142.134096	366.1972309			
944.5488008	-1.365173602	3.89E-09	2.85E-07			TREM1
6	41267926	41286719	-	4329		
protein_coding	triggering receptor expressed on myeloid cells 1					
[Source:HGNC Symbol;Acc:HGNC:17760]	-		407	522	230	
813	744	1324	4.604002035	5.713593753		
3.30557562	10.43554183	10.56410502	14.22104195			
ENSG00000186141	1837.183206	1994.779075	1914.623747			

2980.48136	3709.848442	3485.924382	1915.528676	
3392.084728	-0.824360196	3.92E-09	2.85E-07	POLR3C
1	145824088	145842505	+ 2793	
protein_coding	RNA polymerase III subunit C [Source:HGNC			
Symbol;Acc:HGNC:30076]	-	2025 2254	1647 2877	3250
4041	35.50444886	38.2392545	36.68846232	
57.23754129	71.52531605	67.27426055		
ENSG00000134369	3994.626003	3085.093104	5034.751336	
2147.56269	1985.054289	1616.585571	4038.156814	
1916.40085	1.075278793	3.93E-09	2.85E-07	NAV1
1	201622885	201826969	+ 22453	
protein_coding	neuron navigator 1 [Source:HGNC			
Symbol;Acc:HGNC:15989]	-	4403 3486	4331 2073	1739 1874
9.602912964	7.356639035	12.00108893	5.130231576	
4.760719194	3.880844382			
ENSG0000010292	4866.494182	3595.735307	4933.614562	
2687.302276	1811.547531	1635.56363	4465.28135	
2044.804479	1.126862115	4.02E-09	2.91E-07	NCAPD2
12	6493356 6531955	+ 6487	protein_coding	non-
SMC condensin I complex subunit	D2 [Source:HGNC			
Symbol;Acc:HGNC:24305]	-	5364 4063	4244 2594	1587
1896	40.4924034	29.67764019	40.70411568	
22.21969624	15.03766442	13.59018764		
ENSG00000103043	1794.542411	1801.850132	1664.688043	
2821.97818	3031.802296	3247.836005	1753.693528	
3033.87216	-0.790633305	4.15E-09	2.98E-07	VAC14
16	70687439	70801161	- 8276	
protein_coding	"Vac14, PIKFYVE complex component [Source:HGNC			
Symbol;Acc:HGNC:25507]"	-	1978 2036	1432 2724	2656
3765	11.70400474	11.65691776	10.76538045	
18.28936659	19.72672312	21.15317278		
ENSG00000169499	1310.070395	1018.629421	1338.027889	
573.9265462	641.5184074	488.2536996	1222.242568	
567.8995511	1.106624741	4.18E-09	3.00E-07	
PLEKHA2 8	38901235	38973909	+ 6325	
protein_coding	pleckstrin homology domain containing A2 [Source:HGNC			
Symbol;Acc:HGNC:14336]	-	1444 1151	1151 554	562
566	11.17983379	8.622659461	11.32196063	
4.866999241	5.461640948	4.160896561		
ENSG00000154096	513.5040467	492.0573051	594.0332331	
222.7332264	73.055477	120.7694663	533.198195	
138.8527232	1.939622437	4.28E-09	3.06E-07	THY1
11	119417378	119424985	- 5925	
protein_coding	Thy-1 cell surface antigen [Source:HGNC			
Symbol;Acc:HGNC:11801]	-	566 556	511 215	64
140	4.677962759	4.446444519	5.365860676	
2.016332493	0.66395551	1.098678685		
ENSG00000172985	451.8109811	420.3726977	403.3846025	
174.0427071	151.8184131	157.8629453	425.1894271	
161.2413552	1.399091552	4.38E-09	3.11E-07	SH3RF3



2	109129348	109504632	+	5803	
protein_coding	SH3 domain containing ring finger 3 [Source:HGNC				
Symbol;Acc:HGNC:24699]	-	498	475	347	168 133
183	4.202478069	3.878532901		3.720349587	
1.608676638	1.408790553	1.46632263			
ENSG00000196576	3051.99225	3070.048186		3960.609051	
1939.333022	1732.784595	1338.815798		3360.883162	
1670.311139	1.008917541	4.83E-09		3.42E-07	PLXNB2
22	50274979	50307627	-	7257	
protein_coding	plexin B2 [Source:HGNC Symbol;Acc:HGNC:9104]				
3364	3469	3407	1872	1518	1552 22.70008836
22.65028222	29.20934761	14.33378101		12.85766211	
9.944102953					
ENSG00000001617	811.0823636	741.6259383		1004.392786	
373.9846267	399.5221399	260.5169917		852.3670291	
344.6745861	1.307712812	4.86E-09		3.42E-07	SEMA3F
3	50155045	50189075	+	4826	
protein_coding	semaphorin 3F [Source:HGNC Symbol;Acc:HGNC:10728]				
-	894	838	864	361	350 302
9.071495402	8.227788926	11.13866831		4.156539653	
4.457877057	2.909716277				
ENSG00000196262	25551.81621	28013.63658		32812.48931	
18651.57678	15528.85483	14122.26381		28792.64736	
16100.89847	0.838553601	5.46E-09		3.83E-07	PPIA
7	44796680	44824564	+	4432	
protein_coding	peptidylprolyl isomerase A [Source:HGNC				
Symbol;Acc:HGNC:9253]	-	28164	31654	28226	18004 13604
16371	311.1883053	338.419428		396.2382821	
225.7258495	188.6749449	171.7538476			
ENSG00000076706	2741.712419	2490.376361		2493.544589	
1544.629026	946.2967256	767.7487503		2575.211123	
1086.224834	1.245908365	5.79E-09		4.05E-07	MCAM
11	119308529	119321521	-	7422	
protein_coding	melanoma cell adhesion molecule [Source:HGNC				
Symbol;Acc:HGNC:6934]	-	3022	2814	2145	1491 829
890	19.93894583	17.96509772		17.98097317	
11.16268674	6.865638629	5.575708682			
ENSG00000145431	2044.036426	2111.598435		2183.159318	
1282.528997	1184.868518	1109.353812		2112.931393	
1192.250442	0.825738267	6.48E-09		4.50E-07	PDGFC
4	156760454	156971394	-	5593	
protein_coding	platelet derived growth factor C [Source:HGNC				
Symbol;Acc:HGNC:8801]	-	2253	2386	1878	1238 1038
1286	19.72627376	20.21399067		20.89092237	
12.29951167	11.40774735	10.69121756			
ENSG00000148082	583.3623711	706.2261322		478.9465598	
1210.011202	1256.782503	1251.689255		589.5116877	
1239.49432	-1.070465747	6.49E-09		4.50E-07	SHC3
9	89005771	89178767	-	9929	
protein_coding	SHC adaptor protein 3 [Source:HGNC				

Symbol;Acc:HGNC:18181]	-	643	798	412	1168	1101
1451	3.171276766	3.808235713		2.581657064		
6.536561862	6.815993514	6.795054117				
ENSG00000105447	4168.818189	4954.202867		4097.783066		
6792.845421	7910.538369	9257.842234		4406.934707		
7987.075341	-0.857859106	6.86E-09		4.74E-07		GRWD1
19	48445773	48457022		+	5763	
protein_coding	glutamate rich WD repeat containing 1 [Source:HGNC					
Symbol;Acc:HGNC:21270]	-	4595	5598	3525	6557	6930
10732	39.04501371	46.02679297		38.05549264		
63.22205492	73.91489686	86.58906748				
ENSG00000123384	2758.042937	1665.560878		3638.598864		
1281.493028	971.4095458	693.5617924		2687.400893		
982.1547888	1.452331725	6.89E-09		4.74E-07		LRP1
12	57128493	57213351		+	20839	
protein_coding	LDL receptor related protein 1 [Source:HGNC					
Symbol;Acc:HGNC:6692]	-	3040	1882	3130	1237	851
804	7.143735932	4.279265035		9.344892494		
3.298411748	2.510152145	1.793949412				
ENSG00000204388	2223.672118	3297.491941		2181.996827		
4440.160969	5254.286885	6488.770899		2567.720295		
5394.406251	-1.07077696	7.40E-09		5.07E-07		HSPA1B
6	31827735	31830255		+	2521	
protein_coding	heat shock protein family A (Hsp70) member 1B					
[Source:HGNC Symbol;Acc:HGNC:5233]	-			2451	3726	1877
4286	4603	7522	47.61010608	70.03198653		
46.32317022	94.46944516		112.2316866	138.7367452		
ENSG00000134243	1927.001052		1547.856523	1792.562124		
999.7095976	583.3023242		789.3147264	1755.806566		
790.7755494	1.150145667		7.76E-09	5.30E-07		SORT1
1	109309568		109397951	-	9160	
protein_coding	sortilin 1 [Source:HGNC Symbol;Acc:HGNC:11186]					
2124	1749	1542	965	511	915	11.35501526
	9.047337191	10.47359429		5.853880914		3.429041859
	4.644688987					
ENSG00000084234	5747.434869	5408.205381		7294.635103		
3725.342708	3031.802296	2349.828759		6150.091784		
3035.657921	1.018697909	7.97E-09		5.42E-07		APLP2
11	130068147	130144811		+	7463	
protein_coding	amyloid beta precursor like protein 2 [Source:HGNC					
Symbol;Acc:HGNC:598]	-	6335	6111	6275	3596	2656
2724	41.56826147	38.79942441		52.31269993		
26.77430985	21.87570153	16.97167395				
ENSG00000150687	4300.369579	4168.327171		4456.992986		
2849.949329	2132.306735	2174.713033		4308.563245		
2385.656366	0.852806371	8.77E-09		5.94E-07		PRSS23
11	86791059	86952910		+	11725	
protein_coding	serine protease 23 [Source:HGNC Symbol;Acc:HGNC:14370]					
-	4740	4710	3834	2751	1868	2521
19.79676254	19.03419423	20.34445704		13.03736375		

9.792901375	9.997490783						
ENSG00000140545	498.9880313	527.4571113	702.1449565				
255.8842182	203.1855454	217.3850394	576.1966997				
225.4849344	1.352077027	8.87E-09	5.99E-07			MFGE8	
15	88898683	88913411	-	6837			
protein_coding	milk fat globule-EGF factor 8 protein [Source:HGNC						
Symbol;Acc:HGNC:7036]	-	550	596	604	247	178	
252	3.93936111	4.130542743	5.49639841				
2.007443898	1.600301391	1.713823048					
ENSG00000204389	1297.368881	2193.902985	1163.654142				
3056.10706	3481.550076	4691.893767	1551.642002				
3743.183634	-1.270020187	9.16E-09	6.16E-07			HSPA1A	
6	31815464	31817946	+	2483			
protein_coding	heat shock protein family A (Hsp70) member 1A						
[Source:HGNC Symbol;Acc:HGNC:5232]	-		1430	2479		1001	
2950	3050	5439	28.20252556	47.30709152			
25.08211788	66.01723641	75.5040904	101.8528903				
ENSG00000099998	29.93928188	58.40968011	66.26202404			0	
0	0	51.53699534	0	8.119211766			
1.00E-08	6.73E-07	GGT5	22	24219654			
24245142	-	6054	protein_coding	gamma-			
glutamyltransferase 5	[Source:HGNC Symbol;Acc:HGNC:4260]						-
33	66	57	0	0	0	0.266931733	
0.516568548	0.585786401	0	0	0	0		
ENSG00000087074	2821.550504	3825.834047	2873.679359				
5381.856331	5731.430469	7948.356163	3173.68797				
6353.880988	-1.001467037	1.03E-08	6.88E-07				
PPP1R15A	19	48872392	48876057	+		3093	
protein_coding	protein phosphatase 1 regulatory subunit 15A						
[Source:HGNC Symbol;Acc:HGNC:14375]	-		3110	4323		2472	
5195	5021	9214	49.23899188	66.22649279			
49.72506884	93.32922845	99.78325379	138.5157973				
ENSG00000075223	1347.267684	1056.684213	2070.397628				
687.8830806	589.0097833	433.0448007	1491.449842				
569.9792216	1.387812407	1.06E-08	7.06E-07			SEMA3C	
7	80742538	80922359	-	6268			
protein_coding	semaphorin 3C [Source:HGNC Symbol;Acc:HGNC:10725]						
-	1485	1194	1781	664	516	502	
11.6018207	9.026134065	17.67835205	5.886418498				
5.060204564	3.723966345						
ENSG00000123473	1490.613337	1332.802701	1471.714429				
854.6740083	646.0843747	671.9958163	1431.710155				
724.2513998	0.98307878	1.09E-08	7.20E-07			STIL	
1	47250139	47314147	-	7291			
protein_coding	"STIL, centriolar assembly protein [Source:HGNC						
Symbol;Acc:HGNC:10879]"	-	1643	1506	1266	825	566	
779	11.03517307	9.787331865	10.80322582				
6.28751297	4.771739133	4.967997602					
ENSG00000121621	853.723159	474.3574021	635.8829325				
291.1071471	194.0536108	186.3300338	654.6544978				

223.8302639	1.548954692	1.12E-08	7.41E-07	KIF18A
11	28020620	28108308	- 4668	
protein_coding	kinesin family member 18A [Source:HGNC			
Symbol;Acc:HGNC:29441]	-	941 536	547 281	170
216	9.871597961	5.4407702	7.290600912	
3.344933717	2.238542964	2.15156228		
ENSG00000100065	275.8042937	286.7384296	304.5728123	
102.560881	90.17785443	60.38473317	289.0385118	
84.37448953	1.780434277	1.20E-08	7.91E-07	CARD10
22	37490362	37519542	- 5652	
protein_coding	caspase recruitment domain family member 10			
[Source:HGNC Symbol;Acc:HGNC:16422]	-	304	324	262
99	79 70	2.633905044	2.716247239	
2.884071247	0.973296328	0.859156536	0.575873249	
ENSG00000066056	797.4735991	1061.109189	1394.98998	
498.300846	407.5125827	245.8521279	1084.524256	
383.8885189	1.499347009	1.24E-08	8.11E-07	TIE1
1	43300993	43323108	+ 6694	
protein_coding	tyrosine kinase with immunoglobulin like and EGF like			
domains 1 [Source:HGNC Symbol;Acc:HGNC:11809]	-	879	1199	
1200	481 357	285 6.430309114	8.487111659	
11.15327434	3.992743506	3.278157898	1.979658004	
ENSG00000164105	678.6237226	693.8362	789.3318303	
319.0782964	335.5985975	353.6820086	720.597251	
336.1196342	1.09909893	1.36E-08	8.87E-07	SAP30
4	173369969	173377532	+ 1320	
protein_coding	Sin3A associated protein 30 [Source:HGNC			
Symbol;Acc:HGNC:10532]	-	748 784	679 308	294
410	27.7495759	28.14288217	32.00388415	
12.96548685	13.6905457	14.44245236		
ENSG00000143127	2493.125655	2090.358552	2445.882431	
1350.902917	1183.727026	810.8807026	2343.122213	
1115.170215	1.071956554	1.36E-08	8.87E-07	ITGA10
1	145891208	145910189	- 6320	
protein_coding	integrin subunit alpha 10 [Source:HGNC			
Symbol;Acc:HGNC:6135]	-	2748 2362	2104 1304	1037
940	21.29258226	17.708805	20.71264224	
11.46496034	10.08576949	6.915789938		
ENSG00000117984	1878.916751	2402.761841	3077.115397	
1124.025817	1313.857094	1117.980203	2452.93133	
1185.287705	1.049091731	1.38E-08	8.93E-07	CTSD
11	1752752 1764573	- 3126	protein_coding	
cathepsin D [Source:HGNC Symbol;Acc:HGNC:2529]	-	2071	2715	
2647	1085 1151	1296 32.44291052	41.15354968	
52.68315971	19.28647276	22.63256155	19.27733728	
ENSG00000128590	505.3387881	461.9674699	445.2343019	
943.7672989	1029.625629	872.9907138	470.8468533	
948.7945472	-1.009736186	1.41E-08	9.13E-07	DNAJB9
7	108569568	108574850	+ 2837	
protein_coding	DnaJ heat shock protein family (Hsp40) member B9			

[Source:HGNC Symbol;Acc:HGNC:6968]	-	557	522	383
911	902 1012	9.614452163	8.718416411	
8.399361723	17.84313186	19.54314985	16.5864023	
ENSG00000110203	9.07250966	6.194966072	2.3249833	
62.15810969	69.63100152	127.6705787	5.86415301	
86.4865633	-3.855846662	1.55E-08	1.00E-06	FOLR3
11	72114869	72139892	+ 1396	
protein_coding	folate receptor 3 [Source:HGNC Symbol;Acc:HGNC:3795]			
-	10 7	2 60	61 148	
0.350786818	0.237595966	0.089135648	2.388239493	
2.685911984	4.929550446			
ENSG00000205336	153.3254133	160.1841227	313.8727455	
50.76245625	18.26386925	36.2308399	209.1274271	
35.0857218	2.56852321	1.58E-08	1.01E-06	ADGRG1
16	57610652	57665580	+ 8659	
protein_coding	adhesion G protein-coupled receptor G1 [Source:HGNC Symbol;Acc:HGNC:4512]			
-		169 181	270 49	16
42	0.955757354	0.990460764	1.940005098	
0.31444188	0.113579409	0.225534284		
ENSG00000100109	1498.778596	1694.765718	1487.989312	
2384.799475	3126.546117	3066.681806	1560.511209	
2859.342466	-0.873448079	1.59E-08	1.02E-06	TFIP11
22	26491225	26512505	- 5436	
protein_coding	tuftelin interacting protein 11 [Source:HGNC Symbol;Acc:HGNC:17165]			
-		1652 1915	1280 2302	2739
3555	14.88193072	16.69228423	14.64999135	
23.53086623	30.97133633	30.40823236		
ENSG00000184661	1151.301476	821.2755021	1126.454409	
488.9771296	393.8146807	212.2092051	1033.010462	
365.0003385	1.502696614	1.61E-08	1.02E-06	CDCA2
8	25458997	25507920	+ 3908	
protein_coding	cell division cycle associated 2 [Source:HGNC Symbol;Acc:HGNC:14623]			
-		1269 928	969 472	345
246	15.90141421	11.2517445	15.42680779	
6.711189273	5.426401202	2.926924839		
ENSG00000160049	1841.719461	1918.669492	1385.690047	
3056.10706	3011.255443	3611.007044	1715.359667	
3226.123182	-0.910749405	1.73E-08	1.10E-06	DFFA
1	10456522	10472526	- 6622	
protein_coding	DNA fragmentation factor subunit alpha [Source:HGNC Symbol;Acc:HGNC:2772]			
-		2030 2168	1192 2950	2638
4186	15.01189593	15.51302678	11.19937858	
24.75397131	24.48685305	29.39280718		
ENSG00000093009	1295.554379	1269.968045	1418.239813	
778.0123397	681.4706214	644.3913668	1327.920746	
701.2914426	0.921126069	1.83E-08	1.15E-06	CDC45
22	19479459	19520612	+ 2846	
protein_coding	cell division cycle 45 [Source:HGNC Symbol;Acc:HGNC:1739]			
-		1428 1435	1220 751	597
747	24.57095266	23.89150159	26.67053832	

14.66280588	12.89397416	12.20440818			
ENSG00000168461	4943.610514	4081.597646	5596.234803		
3008.452509	2542.102301	2134.168998	4873.814321		
2561.574603	0.928079152	1.96E-08	1.23E-06		RAB31
18	9708165	9862551 +	5586		
protein_coding	"RAB31, member RAS oncogene family [Source:HGNC				
Symbol;Acc:HGNC:9771]"	-	5449	4612	4814	2904
2474	47.76882514	39.12143783	53.61817171		2227
28.88735139	24.50567367	20.59348189			
ENSG00000130592	445.4602243	478.7823778	867.2187708		
187.5102976	171.2237742	52.62098176	597.153791		
137.1183512	2.126135274	2.17E-08	1.36E-06		LSP1
11	1852970	1892267 +	5399		
lymphocyte specific protein 1	[Source:HGNC Symbol;Acc:HGNC:6707]				
-	491	541	746	181	150
4.453452743	4.747996372	8.596711386	1.862847447	61	
1.707753924	0.525348535				
ENSG00000166963	896.3639544	1085.004058	799.7942551		
1574.672112	1845.792286	2063.432596	927.0540891		
1827.965665	-0.978873579	2.25E-08	1.41E-06		MAP1A
15	43510958	43531620	+ 10629		
protein_coding	microtubule associated protein 1A [Source:HGNC				
Symbol;Acc:HGNC:6835]"	-	988	1226	688	1520
2392	4.55190533	5.46543211	4.027197029		1617
7.946268299	9.351148914	10.46404952			
ENSG00000082781	4528.089571	4186.912069	5209.125083		
2623.072229	2633.421648	1634.700991	4641.375575		
2297.064956	1.015188583	2.30E-08	1.43E-06		ITGB5
3	124761948	124901418	- 6447		
protein_coding	integrin subunit beta 5 [Source:HGNC				
Symbol;Acc:HGNC:6160]"	-	4991	4731	4481	2532
1895	37.91041889	34.7713633	43.24382691		2307
21.82318201	21.99567452	13.6672948			
ENSG00000167693	54.43505796	26.54985459	62.77454909		0
0	0	47.91982055	0	8.013842704	
2.33E-08	1.44E-06	NXN	17	799313	979770
5880	protein_coding nucleoredoxin [Source:HGNC				
Symbol;Acc:HGNC:18008]"	-	60	30	54	0
0	0.499692243	0.241752164	0.571377692		0
0	0				
ENSG00000119865	967.1295297	877.0301967	1012.530227		
509.6964995	472.5776169	364.8963162	952.2299845		
449.0568108	1.085547415	2.34E-08	1.44E-06		CNRIP1
2	68284171	68320051	- 3548		
protein_coding	cannabinoid receptor interacting protein 1				
[Source:HGNC Symbol;Acc:HGNC:24546]"	-		1066	991	871
492	414	423	14.7130353	13.23477262	
15.27359922	7.705370666	7.1723932	5.543547515		
ENSG00000137563	1749.179862	1577.946358	1753.037408		
1025.60881	612.9811117	773.7872236	1693.387876		

804.1257151	1.073902126	2.51E-08	1.55E-06	GGH
8	63015079	63039171	- 3130	
protein_coding	gamma-glutamyl hydrolase [Source:HGNC			
Symbol;Acc:HGNC:4248]	-	1928 1783	1508 990	537
897	30.16416971	26.99189939	29.97532155	
17.57530622	10.54574604	13.3253653		
ENSG00000160113	1625.793731	1754.060393	1915.786239	
890.9329056	1053.596957	974.7821212	1765.213455	
973.1039947	0.859062058	2.62E-08	1.61E-06	NR2F6
19	17231883	17245940	- 2676	
protein_coding	nuclear receptor subfamily 2 group F member 6			
[Source:HGNC Symbol;Acc:HGNC:7977]		RXR-like	1792 1982	
1648	860 923	1130	32.79295702	35.09489779
38.31580416	17.85765325	21.20132249	19.63465852	
ENSG00000210140	626.0031665	1082.349072	805.6067134	
1477.291074	1940.536108	2715.587715	837.9863174	
2044.471632	-1.286871014	2.92E-08	1.79E-06	MT-TC
MT	5761 5826	- 66	Mt_tRNA	
mitochondrially	encoded tRNA cysteine [Source:HGNC			
Symbol;Acc:HGNC:7477]	-	690 1223	693 1426	1700
3148	511.9574164	878.0292064	653.275161	
1200.570405	1583.260387	2217.797075		
ENSG00000109586	757.5545566	544.2720192	656.8077822	
292.1431156	300.2123508	215.6597613	652.8781193	
269.3384092	1.279413491	2.94E-08	1.79E-06	GALNT7
4	173168753	173323967	+ 6865	
protein_coding	polypeptide N-acetylgalactosaminyltransferase 7			
[Source:HGNC Symbol;Acc:HGNC:4129]		-	835 615	565
282	263 250	5.956273308	4.244836969	
5.120528089	2.282551633	2.354846305	1.693286653	
ENSG00000273812	304.8363246	340.723134	569.6209084	
146.0715578	113.007691	67.28584553	405.0601223	
108.7883648	1.898626169	2.94E-08	1.79E-06	
BX640514.2	20 62596732	62603115	-	625
lincRNA	novel transcript	-	336 385	490
141	99 78	26.32618589	29.18818922	
48.77787869	12.53577357	9.736492585	5.802906907	
ENSG00000113368	4524.460567	3762.999391	4158.232632	
2642.75563	2036.421421	1561.376672	4148.564197	
2080.184575	0.996292522	3.08E-08	1.86E-06	LMNB1
5	126776623	126837020	+ 3633	
protein_coding	lamin B1 [Source:HGNC Symbol;Acc:HGNC:6637]			-
4987	4252 3577	2551 1784	1810 67.22064168	
55.45673523	61.257658	39.01729025	30.1840014	
23.16563425				
ENSG00000168393	1457.045051	1827.514991	1785.587174	
993.4937866	882.3731832	849.6994596	1690.049072	
908.5221431	0.895508271	3.77E-08	2.27E-06	DTYMK
2	241675742	241686991	- 2451	
protein_coding	deoxythymidylate kinase [Source:HGNC			

Symbol;Acc:HGNC:3061]	-	1606	2065	1536	959	773
985	32.08713291	39.92116307		38.99013609		
21.74139165	19.38579174	18.68632669				
ENSG00000120738	380.1381547	302.6683424		349.9099866		
1367.478413	775.0729513	650.4298401		344.2388279		
930.9937349	-1.435181749	3.78E-08		2.27E-06		EGR1
5	138465490	138469315		+	3138	
protein_coding	early growth response 1 [Source:HGNC					
Symbol;Acc:HGNC:3238]	zf-C2H2	419	342	301	1320	679
754	6.538675236	5.164159027		5.967884412		
23.37399978	13.30038447	11.17247585				
ENSG00000128595	7017.586222	6099.386595		8132.791583		
4561.369283	3885.638183	3551.484949		7083.2548		
3999.497472	0.82454342	3.95E-08		2.37E-06		CALU
7	128739292	128771807		+	4537	
protein_coding	calumenin [Source:HGNC					
Symbol;Acc:HGNC:1458]	-					
7735	6892	6996	4403	3404	4117	83.48726275
71.97852294	95.93738314	53.92522301		46.1177523		
42.19326234						
ENSG00000213949	448.1819772	247.7986429		466.1591516		
138.8197783	116.4321665	104.3793245		387.3799239		
119.8770898	1.69217015	4.11E-08		2.46E-06		ITGA1
5	52787896	52959210		+	18566	
protein_coding	integrin subunit alpha 1 [Source:HGNC					
Symbol;Acc:HGNC:6134]	-	494	280	401	134	102
121	1.30297861	0.714605124		1.343794543		
0.401049977	0.337698542	0.303038664				
ENSG00000132128	2536.673701	3167.397653		2822.529726		
4247.470829	5378.709494	5328.521383		2842.20036		
4984.900569	-0.81053286	4.27E-08		2.54E-06		LRR41
1	46261196	46303608		-	8606	
protein_coding	leucine rich repeat containing 41 [Source:HGNC					
Symbol;Acc:HGNC:16917]	-	2796	3579	2428	4100	4712
6177	15.90979226	19.70546999		17.55311456		
26.47247572	33.65513215	33.37392439				
ENSG00000130584	288.5058072	296.4733763		365.0223781		
127.4241249	82.18741163	98.34085116		316.6671872		
102.6507959	1.623281686	4.43E-08		2.63E-06		ZBTB46
20	63743666	63831244		-	6084	
protein_coding	zinc finger and BTB domain containing 46 [Source:HGNC					
Symbol;Acc:HGNC:16094]	-	318	335	314	123	72
114	2.559567565	2.60904784		3.211051635		
1.123383264	0.727429068	0.87125777				
ENSG00000129355	371.0656451	428.3376541		611.4706078		
140.8917153	110.7247073	203.5828147		470.2913023		
151.7330791	1.62650701	4.57E-08		2.70E-06		CDKN2D
19	10566462	10569059		-	1503	
protein_coding	cyclin dependent kinase inhibitor 2D [Source:HGNC					
Symbol;Acc:HGNC:1790]	-	409	484	526	136	97
236	13.32579141	15.25853443		21.77376895		



5.027961823	3.96698094	7.301028446				
ENSG00000137809	202.3169654	155.7591469	288.2979292			
39.36680281	60.49906689	17.25278091	215.4580138			
39.0395502	2.475087501	4.79E-08	2.82E-06		ITGA11	
15	68296533	68432162	-	10864		
protein_coding	integrin subunit alpha 11 [Source:HGNC					
Symbol;Acc:HGNC:6136]	-	223	176	248	38	53
20	1.005179886	0.767625427	1.420262991			
0.194359549	0.299870313	0.085599506				
ENSG00000104341	3780.514775	3526.705685	3666.498664			
2477.000671	1867.480631	1903.844373	3657.906375			
2082.775225	0.81255772	5.20E-08	3.06E-06			
LAPTM4B	8	97775057	97853013	+	3197	
protein_coding	lysosomal protein transmembrane 4 beta [Source:HGNC					
Symbol;Acc:HGNC:13646]	-	4167	3985	3154	2391	1636
2207	63.82775182	59.0625414	61.37986082			
41.55745885	31.45487932	32.09894178				
ENSG00000185728	2564.798481	2352.317117	2405.195224			
3787.500817	3867.374314	4156.19492	2440.770274			
3937.02335	-0.68984237	5.22E-08	3.06E-06		YTHDF3	
8	63168553	63212786	+	6163		
protein_coding	YTH N6-methyladenosine RNA binding protein 3					
[Source:HGNC	Symbol;Acc:HGNC:26465]	-	2827	2658		2069
3656	3388	4818	22.462719	20.43568735		
20.88695685	32.96294934	33.79080936	36.35010302			
ENSG00000160957	1538.697638	1709.810636	1422.889779			
698.2427656	835.5720182	925.6116956	1557.132685			
819.8088265	0.925325778	5.24E-08	3.06E-06		RECQL4	
8	144511288	144517845	-	4236		
protein_coding	RecQ like helicase 4 [Source:HGNC					
Symbol;Acc:HGNC:9949]	-	1696	1932	1224	674	732
1073	19.60643257	21.61113675	17.97762483			
8.841297182	10.62190688	11.77808783				
ENSG00000121060	2351.594504	2312.492335	2272.671176			
3403.156506	4277.16988	3938.809881	2312.252671			
3873.045422	-0.744028611	5.55E-08	3.23E-06		TRIM25	
17	56836387	56914080	-	9501		
protein_coding	tripartite motif containing 25 [Source:HGNC					
Symbol;Acc:HGNC:12932]	-	2592	2613	1955	3285	3747
4566	13.35962792	13.03156374	12.80219065			
19.21224426	24.24162536	22.34588746				
ENSG00000130706	4180.612451	5009.072567	4347.718771			
6403.321267	8660.4985	9348.419334	4512.467929			
8137.413034	-0.850646785	5.69E-08	3.30E-06		ADRM1	
20	62302093	62308862	+	2142		
protein_coding	adhesion regulating molecule 1 [Source:HGNC					
Symbol;Acc:HGNC:15759]	-	4608	5660	3740	6181	7587
10837	105.3468823	125.2054996	108.6323019			
160.3434858	217.7198256	235.2451211				
ENSG00000143799	8227.85901	7592.373419	7878.205911			

5503.064645	4479.213934	4293.354528	7899.479447	
4758.544369	0.731319126	6.05E-08	3.50E-06	PARP1
1	226360691	226408079	- 7169	
protein_coding	poly(ADP-ribose) polymerase 1 [Source:HGNC			
Symbol;Acc:HGNC:270]	Others	9069	8579	6777 5312 3924
4977	61.948316	56.70280304	58.81468182	
41.17290684	33.64478664	32.28048703		
ENSG00000129315	1378.114217	1344.307638	1208.991316	
2191.073367	2128.88226	2398.136546	1310.471057	
2239.364057	-0.772761774	6.11E-08	3.52E-06	CCNT1
12	48688458	48716998	- 7381	
protein_coding	cyclin T1 [Source:HGNC Symbol;Acc:HGNC:1599]			-
1519	1519	1040	2115 1865	2780 10.07792802
9.751445758	8.766474636	15.92235161	15.53141381	
17.51300246				
ENSG00000161800	2578.407245	2138.14829	2572.594021	
1550.844837	1231.669683	1236.161752	2429.716519	
1339.558757	0.85893344	6.15E-08	3.53E-06	
RACGAP1 12	49976923	50033136	- 4487	
protein_coding	Rac GTPase activating protein 1 [Source:HGNC			
Symbol;Acc:HGNC:9804]	-	2842	2416	2213 1497 1079
1433	31.01677843	25.51333909	30.68542841	
18.53863588	14.78130353	14.84981827		
ENSG00000105671	2092.120728	2750.564936	2494.707081	
3685.975905	4613.909969	5221.554141	2445.797581	
4507.146672	-0.882072887	6.41E-08	3.67E-06	DDX49
19	18919675	18928633	+ 2780	
protein_coding	DEAD-box helicase 49 [Source:HGNC			
Symbol;Acc:HGNC:18684]	-	2306	3108	2146 3558 4042
6053	40.62030599	52.97398632	48.02769769	
71.11696126	89.37146426	101.2411095		
ENSG00000109971	66121.35765	71464.24361	64555.4863	
97701.15279	105683.8794	102998.2394	67380.36252	
102127.7572	-0.599964183	6.53E-08	3.73E-06	HSPA8
11	123057489	123063230	- 4849	
protein_coding	heat shock protein family A (Hsp70) member 8			
[Source:HGNC Symbol;Acc:HGNC:5241]	-		72881 80751	55532
94309	92584	119399	736.0220451	789.0820532
712.5215065	1080.719529	1173.629767	1144.931551	
ENSG00000136695	29.93928188	50.44472373	43.01219105	
178.1865811	586.7267997	1051.556996	41.13206555	
605.4901257	-3.880254408	6.56E-08	3.73E-06	IL36RN
2	113058638	113065382	+ 3299	
protein_coding	interleukin 36 receptor antagonist [Source:HGNC			
Symbol;Acc:HGNC:15561]	-	33	57	37 172 514
1219	0.489846837	0.818689049	0.697792432	
2.897064571	9.576970808	17.18115707		
ENSG00000104824	4684.136737	4608.169762	5203.312625	
2786.755251	3151.658938	3038.214717	4831.873042	
2992.209635	0.691236646	7.20E-08	4.08E-06	HNRNPL

19	38836388		38852347	-	6821	
protein_coding	heterogeneous nuclear ribonucleoprotein L [Source:HGNC					
Symbol;Acc:HGNC:5045]	-		5163 5207	4476	2690	2761
3522	37.06660065		36.17145419	40.82713219		
21.91372837	24.88087889		24.00890318			
ENSG00000170017	4083.536598		2772.689815	4279.131763		
2238.727917	1578.683198		1224.084805	3711.786059		
1680.49864	1.143402502		7.35E-08	4.16E-06		ALCAM
3	105366909		105576900	+	7179	
protein_coding	activated leukocyte cell adhesion molecule					
[Source:HGNC Symbol;Acc:HGNC:400]	-			4501	3133	3681
2161	1383 1419		30.70250022	20.67868332		
31.9013242	16.72641459		11.84146913	9.190718412		
ENSG00000132561	217.7402318		102.6594378	187.1611556		
43.51067679	11.41491828		11.21430759	169.1869417		
22.04663422	2.942979593		7.47E-08	4.21E-06		MATN2
8	97868840		98036716	+	6933	
protein_coding	matrilin 2 [Source:HGNC Symbol;Acc:HGNC:6908]					-
240	116 161		42 10	13	1.69519134	
0.792799249	1.444812607		0.336620169	0.08865968		
0.087187288						
ENSG00000146648	2683.648357		2155.848193	2953.891282		
1638.902159	918.9009217		1004.111849	2597.795944		
1187.304976	1.129408722		7.51E-08	4.22E-06		EGFR
7	55019021		55211628	+	12521	
protein_coding	epidermal growth factor receptor [Source:HGNC					
Symbol;Acc:HGNC:3236]	-		2958 2436	2541	1582	805
1164	11.56878734		9.218594441	12.62619511		
7.020685315	3.951884335		4.322599341			
ENSG00000185269	98.89035529		182.3090015	272.0230461		
40.4027713	35.38624667		18.11541995	184.4074676		
31.30147931	2.564166742		7.77E-08	4.35E-06		NOTUM
17	81952507		81961840	-	3019	
protein_coding	"notum, palmitoleoyl-protein carboxylesterase					
[Source:HGNC Symbol;Acc:HGNC:27106]"	-			109	206	234
39	31 21		1.768039928	3.233184947		
4.822359586	0.717816666		0.631169408	0.323435138		
ENSG00000117758	1398.073739		1302.712865	1486.82682		
2069.865053	2706.477125		2801.851619	1395.871141		
2526.064599	-0.856182987		7.87E-08	4.38E-06		STX12
1	27773183		27824452	+	3846	
protein_coding	syntaxin 12 [Source:HGNC Symbol;Acc:HGNC:11430]					-
1541	1472 1279		1998 2371	3248	19.62104087	
18.13530947	20.69036305		28.8667737	37.89392876		
39.26790745						
ENSG00000154839	891.8276996		702.6861516	875.3562124		
426.8190199	277.3825142		171.66517	823.2900212		
291.9555681	1.497371856		7.88E-08	4.38E-06		SKA1
18	50374995		50394173	+	2950	
protein_coding	spindle and kinetochore associated complex subunit 1					

[Source:HGNC Symbol;Acc:HGNC:28109]	-	983	794	753
412	243	199	16.31774663	12.75336905
15.88107171	7.76045605	5.06327619	3.136621237	
ENSG00000175745	3296.042759	2781.539766	3292.176352	
2074.008927	1493.071311	1488.914992	3123.252959	
1685.331743	0.890008254	8.49E-08	4.70E-06	NR2F1
5	93583224	93594615	+ 4314	
protein_coding	nuclear receptor subfamily 2 group F member 1			
[Source:HGNC Symbol;Acc:HGNC:7975]	RXR-like	3633	3143	
2832	2002	1308	1726	41.23955218
40.84321823	25.78671237	18.63695529	18.60337193	
ENSG00000186854	184.1719461	172.5740549	172.0487642	
49.72648776	7.990442797	15.52750281	176.2649217	
24.41481112	2.851604551	8.50E-08	4.70E-06	
TRABD2A 2	84821650	84907008	- 8771	
protein_coding	TraB domain containing 2A [Source:HGNC			
Symbol;Acc:HGNC:27013]	-	203	195	148
18	1.133380172	1.053445182	1.049831141	7
0.304091422	0.049056469	0.095423296		
ENSG00000107438	1156.744982	1137.218772	1535.65147	
715.85423	630.1034892	546.0505157	1276.538408	
630.6694116	1.01715787	8.55E-08	4.71E-06	PDLIM1
10	95237572	95291024	- 2239	
protein_coding	PDZ and LIM domain 1 [Source:HGNC			
Symbol;Acc:HGNC:2067]	-	1275	1285	1321
633	27.88590701	27.19414913	36.70756451	552
17.14888932	15.15417661	13.1456067		
ENSG00000130766	476.3067571	585.8667914	549.8585504	
845.3502918	1283.036815	1394.887336	537.344033	
1174.424814	-1.128439338	9.18E-08	5.04E-06	SESN2
1	28259527	28282491	+ 3453	
protein_coding	sestrin 2 [Source:HGNC Symbol;Acc:HGNC:20746]			-
525	662	473	816	1124
9.084224363	8.522586327	13.13123652	20.00861801	
21.77431291				
ENSG00000150093	10702.83965	9232.269437	12508.41015	
7129.535182	5954.021376	5252.609147	10814.50641	
6112.055235	0.823225092	9.51E-08	5.21E-06	ITGB1
10	32900319	33005792	- 6011	
protein_coding	integrin subunit beta 1 [Source:HGNC			
Symbol;Acc:HGNC:6153]	-	11797	10432	10760
6089	96.10667119	82.23321906	111.3710694	5216
63.61799592	53.33818274	47.1010148		
ENSG00000135111	1389.001229	1281.472982	1596.101035	
727.2498834	843.562461	575.3802432	1422.191749	
715.3975292	0.992244761	1.01E-07	5.49E-06	TBX3
12	114670254	114684164	- 5950	
protein_coding	T-box 3 [Source:HGNC Symbol;Acc:HGNC:11602]			T-box
1531	1448	1373	702	739
11.53129379	14.35689149	6.555898031	7.63439863	

5.212425807

ENSG00000138080	2660.059832	3162.087682	3549.087007		
1783.937748	1929.12119	1589.84376	3123.74484		
1767.634233	0.821571485	1.10E-07	6.00E-06		
EMILIN1 2	27078567	27086408	+ 3958		
protein_coding	elastin microfibril interfacier 1 [Source:HGNC				
Symbol;Acc:HGNC:19880]	-	2932 3573	3053 1722	1690	
1843	36.27578837	42.77437447	47.99078579		
24.17516244	26.24570693	21.65112979			
ENSG00000069275	16341.4044	13295.28219	15527.40097		
10111.05251	8966.41831	7372.97592	15054.69585		
8816.81558	0.771969346	1.12E-07	6.09E-06	NUCKS1	
1	205712819	205750276	- 6546		
protein_coding	nuclear casein kinase and cyclin dependent kinase				
substrate 1 [Source:HGNC	Symbol;Acc:HGNC:29923] - 18012 15023				
13357	9760 7855	8547 134.7456088	108.7444515		
126.9520656	82.84873093	73.75942944	60.71118658		
ENSG00000137845	1752.808866	1359.352555	2092.48497		
1035.968495	684.8950969	653.8803963	1734.88213		
791.5813294	1.131834036	1.15E-07	6.19E-06	ADAM10	
15	58588807	58749978	- 16168		
protein_coding	ADAM metallopeptidase domain 10 [Source:HGNC				
Symbol;Acc:HGNC:188]	-	1932 1536	1800 1000	600	
758	5.85166567	4.501542513	6.926646933		
3.436811739	2.281089419	2.179936902			
ENSG00000121152	1729.220341	1287.667948	1615.863393		
931.3356769	460.0212068	436.4953569	1544.250561		
609.2840802	1.342013532	1.16E-07	6.26E-06	NCAPH	
2	96335787	96373845	+ 3278		
protein_coding	non-SMC condensin I complex subunit H [Source:HGNC				
Symbol;Acc:HGNC:1112]	-	1906 1455	1390 899	403	
506	28.47361645	21.03199573	26.38230262		
15.23922166	7.556896204	7.177489829			
ENSG00000108387	40.82629347	29.20484005	49.98714095	0	
0	0 40.00609149	0	7.753743451		
1.17E-07	6.28E-06	4-Sep 17	58520250		
58540818	- 8012	protein_coding	septin 4 [Source:HGNC		
Symbol;Acc:HGNC:9165]	-	45 33	43 0 0		
0	0.275042785	0.195163878	0.333913795	0	
0	0				
ENSG00000000971	555.2375912	341.6081291	463.8341683		
180.2585181	186.063168	146.6486377	453.5599629		
170.9901079	1.408953368	1.22E-07	6.55E-06	CFH	
1	196651878	196747504	+ 8145		
protein_coding	complement factor H [Source:HGNC Symbol;Acc:HGNC:4883]				
-	612 386	399 174	163 170		
3.679501777	2.245549624	3.047815362	1.187053255		
1.230109793	0.970485053				
ENSG00000117122	752.1110508	752.2458802	1181.091516		
370.8767212	393.8146807	426.1436884	895.1494824		

396.9450301	1.171413191	1.25E-07	6.66E-06	MFAP2
1	16974502	16980835	- 2915	
protein_coding	microfibril associated protein 2 [Source:HGNC			
Symbol;Acc:HGNC:7033]	-	829 850	1016 358	345
494	13.92658567	13.81677888	21.68512827	
6.824274871	7.274914544	7.879876446		
ENSG00000173706	2147.463036	1798.310151	2059.935204	
1079.479172	1273.90488	1027.403103	2001.902797	
1126.929052	0.829534143	1.25E-07	6.68E-06	HEG1
3	124965710	125055958	- 9925	
protein_coding	heart development protein with EGF like domains 1			
[Source:HGNC	Symbol;Acc:HGNC:29227]	-	2367 2032	1772
1042	1116 1191	11.67875173	9.701069792	
11.10810685	5.833769253	6.911638886	5.57971818	
ENSG00000145632	510.7822938	528.3421064	441.746827	
203.049825	126.7055929	228.599347	493.6237424	
186.118255	1.404169425	1.27E-07	6.76E-06	PLK2
5	58453982	58460260	- 4768	
protein_coding	polo like kinase 2 [Source:HGNC			
Symbol;Acc:HGNC:19699]	-	563 597	380 196	111 265
5.782302816	5.932865806	4.958544287	2.284188119	
1.430981741	2.584286419			
ENSG00000157613	1585.874689	1593.876271	2243.608884	
935.4795509	1026.201154	770.3366674	1807.786615	
910.6724573	0.989368153	1.28E-07	6.80E-06	
CREB3L1 11	46277661	46321422	+ 4037	
protein_coding	cAMP responsive element binding protein 3 like 1			
[Source:HGNC	Symbol;Acc:HGNC:18856]	TF_bZIP	1748 1801	1930
903	899 893	21.20368591	21.1388523	
29.74441324	12.42913899	13.68826179	10.28546019	
ENSG00000092969	311.1870813	276.1184878	270.8605544	
95.30910153	41.09370581	13.80222472	286.0553745	
50.06834402	2.520528928	1.36E-07	7.19E-06	TGFB2
1	218346235	218444619	+ 5151	
protein_coding	transforming growth factor beta 2 [Source:HGNC			
Symbol;Acc:HGNC:11768]	-	343 312	233 92	36
16	3.260853244	2.870050147	2.81430536	
0.99244928	0.429594103	0.144430678		
ENSG00000166803	805.6388578	762.865822	1067.167335	
493.1210036	312.7687609	299.3357487	878.5573381	
368.4085044	1.253573868	1.37E-07	7.19E-06	PCLAF
15	64364311	64387687	- 3734	
protein_coding	PCNA clamp associated factor [Source:HGNC			
Symbol;Acc:HGNC:28961]	-	888 862	918 476	274
347	11.64574659	10.93854085	15.29590629	
7.083447554	4.510488807	4.321019033		
ENSG00000168385	6661.943843	5354.220676	6612.252505	
4160.449476	3451.871288	3055.467498	6209.472341	
3555.929421	0.804324279	1.42E-07	7.46E-06	2-Sep
2	241315100	241354027	+ 7378	

protein_coding	septin 2 [Source:HGNC Symbol;Acc:HGNC:7729]						-
	7343	6050	5688	4016	3024	3542	48.73753509
	38.85466462		47.96536829		30.24594074		25.19361545
	22.32240195						
ENSG00000198712	36848.90523		37926.46729		30131.78357		
	46783.30126	73794.02222	75779.38957		34969.05203		
	65452.23768	-0.904344816	1.43E-07		7.49E-06		MT-C02
	MT	7586	8269	+	684	protein_coding	
mitochondrially	encoded cytochrome c oxidase II [Source:HGNC						
Symbol;Acc:HGNC:7421]	-	40616	42855	25920	45159	64647	
	87846	2907.834817	2968.737775	2357.684792			
	3668.599126	5809.511749	5971.685225				
ENSG00000124496	956.2425181	738.9709529	863.7312959				
	464.1138857	407.5125827	315.7258906	852.981589			
	395.7841196	1.109118941	1.45E-07	7.57E-06		TRERF1	
	6	42224931	42452051	-	7732		
protein_coding	transcriptional regulating factor 1 [Source:HGNC						
Symbol;Acc:HGNC:18273]	zf-C2H2	1054	835	743	448	357	
	366	6.675402377	5.117066617	5.978659432			
	3.219572523	2.838074104	2.201001093				
ENSG00000204525	1683.857793	2191.247999	3418.887942				
	910.616307	1293.310241	987.7217068	2431.331245			
	1063.882752	1.19226346	1.47E-07	7.67E-06		HLA-C	
	6	31268749	31272130	-	2507		
protein_coding	"major histocompatibility complex, class I, C						
[Source:HGNC Symbol;Acc:HGNC:4933]"	-	1856	2476	2941			
	879	1133	1145	36.25369873	46.79751016		
	72.98734016	19.48258523	27.77940479	21.23646229			
ENSG00000145040	177.8211893	217.7088077	189.4861389				
	41.4387398	41.09370581	6.038473317	195.0053786			
	29.52363964	2.737911513	1.51E-07	7.82E-06		UCN2	
	3	48561727	48563773	-	1481		
protein_coding	urocortin 2 [Source:HGNC Symbol;Acc:HGNC:18414]						-
	196	246	163	40	36	7	6.480816075
	7.870575501	6.847615913	1.500779803	1.494152076			
	0.21977283						
ENSG00000114346	3623.560358	2416.921763	2978.303607				
	1893.750409	1285.319799	1105.040617	3006.261909			
	1428.036941	1.074245438	1.57E-07	8.10E-06		ECT2	
	3	172750682	172821474	+	5499		
protein_coding	epithelial cell transforming 2 [Source:HGNC						
Symbol;Acc:HGNC:3155]	-	3994	2731	2562	1828	1126	
	1281	35.56747414	23.53230244	28.98693204			
	18.4716	12.58641453	10.83169514				
ENSG00000075275	843.7433984	772.6007687	820.7191048				
	468.2577597	382.3997624	344.1929791	812.354424			
	398.2835004	1.029066872	1.60E-07	8.26E-06		CELSR1	
	22	46360834	46537170	-	12806		
protein_coding	cadherin EGF LAG seven-pass G-type receptor 1						
[Source:HGNC Symbol;Acc:HGNC:1850]	-	930	873	706			

452	335	399	3.556297911	3.230183445	
3.43003104	1.961268174		1.607972695	1.448739884	
ENSG00000070614	3629.003864		2969.158739	3576.986807	
2249.087602	1830.952892		1743.393511	3391.71647	
1941.144668	0.805137754		1.63E-07	8.36E-06	NDST1
5	150485818		150558211	+ 9529	
protein_coding	N-deacetylase and N-sulfotransferase 1 [Source:HGNC				
Symbol;Acc:HGNC:7680]	-	4000	3355	3077	2171 1604
2021	20.55612964		16.68290353	20.09032748	
12.65973282	10.34676052		9.861659532		
ENSG00000150990	1997.766627		2204.522926	1918.111222	
2985.661202	3652.77385		3661.902747	2040.133592	
3433.445933	-0.750770812		1.64E-07	8.43E-06	DHX37
12	124946825		124989122	- 6618	
protein_coding	DEAH-box helicase 37 [Source:HGNC				
Symbol;Acc:HGNC:17210]	-	2202	2491	1650	2882 3200
4245	16.29368197		17.83501199	15.51186541	
24.19798802	29.72148986		29.82510284		
ENSG00000113140	8515.457567		8862.341463	14675.29459	
5596.301809	5906.078719		4676.366264	10684.36454	
5392.915598	0.986304079		1.74E-07	8.88E-06	SPARC
5	151661096		151687165	- 4831	
protein_coding	secreted protein acidic and cysteine rich [Source:HGNC				
Symbol;Acc:HGNC:11219]	-	9386	10014	12624	5402 5174
5421	95.14198234		98.21933523	162.5798786	
62.13403905	65.83195419		52.17631314		
ENSG00000100234	7374.135851		7012.701593	5734.571309	
4559.297346	2442.792512		2386.059599	6707.136251	
3129.383153	1.099990063		1.83E-07	9.35E-06	TIMP3
22	32801701		32863043	+ 4603	
protein_coding	TIMP metalloproteinase inhibitor 3 [Source:HGNC				
Symbol;Acc:HGNC:11822]	-	8128	7924	4933	4401 2140
2766	86.47118361		81.56990055	66.67714367	
53.12787401	28.57723187		27.94101761		
ENSG00000130770	833.7636377		1030.134358	926.505845	
485.8692241	406.3710908		515.8581491	930.1346136	
469.3661547	0.985576989		1.87E-07	9.50E-06	
ATP5IF1 1	28236109		28246906	+ 2225	
protein_coding	ATP synthase inhibitory factor subunit 1 [Source:HGNC				
Symbol;Acc:HGNC:871]	-	919	1164	797	469 356
598	20.22619452		24.78845196	22.28615531	
11.71264205	9.834840995		12.4968969		
ENSG00000128567	2375.183029		1819.550035	1760.012358	
1226.586698	788.7708533		954.9414231	1984.915141	
990.0996581	1.003406015		1.88E-07	9.51E-06	PODXL
7	131500262		131558217	- 6874	
protein_coding	podocalyxin like [Source:HGNC Symbol;Acc:HGNC:9171]				
-	2618	2056	1514	1184	691 1107
18.6504278	14.17228977		13.70323779	9.570931726	
6.178967057	7.488056475				



ENSG00000149503	2582.9435	2323.112277	2534.231797		
1409.953122	1189.434485	1626.0746	2480.095858		
1408.487402	0.815343842	1.89E-07	9.54E-06	INCENP	
11	62123973	62153163	+ 4473		
protein_coding	inner centromere protein [Source:HGNC				
Symbol;Acc:HGNC:6058]	-	2847 2625	2180 1361	1042	
1885	31.16859692	27.80717374	30.32246071		
16.90718367	14.31911513	19.59491909			
ENSG00000128487	901.8074602	666.4013503	780.0318971		
439.2506418	222.5909065	215.6597613	782.7469025		
292.5004366	1.420705961	1.95E-07	9.81E-06	SPECC1	
17	20009344	20319026	+ 13676		
protein_coding	sperm antigen with calponin homology and coiled-coil				
domains 1 [Source:HGNC	Symbol;Acc:HGNC:30615]	-	994 753		
671	424 195	250	3.559229365	2.608929388	
3.052602634	1.722736313	0.876441391	0.849986317		
ENSG00000113552	1289.203623	1293.862914	1109.017034		
1908.253968	2185.956851	2254.938464	1230.694524		
2116.383094	-0.781615943	1.97E-07	9.91E-06	GNPDA1	
5	141991749	142013041	- 3961		
protein_coding	glucosamine-6-phosphate deaminase 1 [Source:HGNC				
Symbol;Acc:HGNC:4417]	-	1421 1462	954 1842	1915	
2614	17.56782186	17.48916081	14.98478027		
25.8402569	29.71743326	30.68539788			
ENSG00000183856	1894.340017	1524.846649	1477.526887		
969.6665112	513.6713227	354.5446476	1632.237851		
612.6274938	1.414717532	1.98E-07	9.91E-06	IQGAP3	
1	156525405	156572604	- 6742		
protein_coding	IQ motif containing GTPase activating protein 3				
[Source:HGNC	Symbol;Acc:HGNC:20669]	-	2088 1723	1271	
936	450 411	15.16597828	12.10940962		
11.72907191	7.714346541	4.102712889	2.834549802		
ENSG00000075239	1424.384017	1392.982371	1691.425351		
896.1127481	832.1475427	653.0177573	1502.930579		
793.7593494	0.921473599	2.09E-07	1.05E-05	ACAT1	
11	108121516	108147776	+ 5584		
protein_coding	acetyl-CoA acetyltransferase 1 [Source:HGNC				
Symbol;Acc:HGNC:93]	-	1570 1574	1455 865	729	
757	13.76838262	13.35628751	16.2115459		
8.607613172	8.024712443	6.303496093			
ENSG00000108175	2160.16455	1792.115185	2430.77004		
1188.255864	1118.661992	1273.255231	2127.683258		
1193.391029	0.833335992	2.11E-07	1.05E-05	ZMIZ1	
10	79069035	79316528	+ 11048		
protein_coding	zinc finger MIZ-type containing 1 [Source:HGNC				
Symbol;Acc:HGNC:16493]	zf-MIZ	2381 2025	2091 1147	980	
1476	10.55369195	8.684959605	11.7754419		
5.768883863	5.452425878	6.212032369			
ENSG00000129474	684.0672283	664.63136	732.3697394		
355.3371938	367.5603687	288.9840802	693.6894426		

337.2938809	1.041563223	2.11E-07	1.05E-05	AJUBA
14	22971174	22982642	- 5979	
protein_coding	ajuba LIM protein [Source:HGNC Symbol;Acc:HGNC:20250]			
-	754 751	630 343	322 335	
6.175490757	5.95165604	6.555696548	3.187701232	
3.310355829	2.605237206			
ENSG00000119326	1696.559306	1392.982371	1515.889111	
959.3068263	688.3195724	542.5999595	1535.143596	
730.0754527	1.073086172	2.13E-07	1.06E-05	
CTNNAL1 9	108942569	109013529	- 3131	
protein_coding	catenin alpha like 1 [Source:HGNC			
Symbol;Acc:HGNC:2512]	-	1870 1574	1304 926	603
629	29.24739715	23.82034796	25.91202598	
16.43387437	11.83808911	9.341112358		
ENSG00000168036	11207.27118	9522.547848	11663.27872	
7554.282265	5524.820448	4935.157978	10797.69925	
6004.753564	0.846586752	2.14E-07	1.06E-05	CTNNB1
3	41194741	41260096	+ 11927	
protein_coding	catenin beta 1 [Source:HGNC Symbol;Acc:HGNC:2514]			
-	12353 10760	10033 7292	4840 5721	
50.71890932	42.74718226	52.33671255	33.97249821	
24.94373607	22.30343458			
ENSG00000081803	449.0892282	398.2478189	490.5714763	
181.2944866	166.6578069	70.73640171	445.9695078	
139.5628984	1.680339311	2.17E-07	1.07E-05	CADPS2
7	122318425	122886759	- 6351	
protein_coding	calcium dependent secretion activator 2 [Source:HGNC			
Symbol;Acc:HGNC:16018]	-	495 450	422 175	146
82	3.816732911	3.357351728	4.134063896	
1.531115594	1.413051867	0.600347571		
ENSG00000143815	2440.505098	1881.499696	2087.835003	
1252.48591	1275.046372	980.8205945	2136.613266	
1169.450959	0.87028244	2.20E-07	1.08E-05	LBR
1	225401502	225428925	- 5257	
protein_coding	lamin B receptor [Source:HGNC Symbol;Acc:HGNC:6518]			
-	2690 2126	1796 1209	1117 1137	
25.05780277	19.16248042	21.25568972	12.77910291	
13.06058278	10.05665394			
ENSG00000137834	434.5732127	362.8480128	323.1726787	
151.2514003	155.2428886	100.0661293	373.5313014	
135.5201394	1.467115802	2.22E-07	1.09E-05	SMAD6
15	66702228	66782848	+ 8563	
protein_coding	SMAD family member 6 [Source:HGNC			
Symbol;Acc:HGNC:6772]	MH1	479 410	278 146	136
116	2.739291519	2.268738043	2.019880602	
0.947412162	0.976248376	0.629887606		
ENSG00000168398	78.02358307	97.34946684	198.7860721	
25.89921237	12.55641011	7.763751407	124.7197073	
15.40645796	3.022290111	2.26E-07	1.10E-05	BDKRB2
14	96204679	96244166	+ 6845	

protein_coding	bradykinin receptor B2 [Source:HGNC						
Symbol;Acc:HGNC:1030]	-	86	110	171	25	11	
9	0.615252918	0.761457509	1.55428088				
0.202945114	0.098779448	0.06113643					
ENSG00000163507	1823.574442	1369.972497	1253.165999				
888.8609686	566.1799468	643.5287278	1482.237646				
699.5232144	1.083594615	2.28E-07	1.11E-05			CIP2A	
3	108549869	108589644	-	4579			
protein_coding	cell proliferation regulating inhibitor of protein						
phosphatase 2A [Source:HGNC	Symbol;Acc:HGNC:29302]						-
1548	1078	858	496	746	21.49582399	2010	
16.01868103	14.64721188	10.41186882	6.658223867				
7.575288932							
ENSG00000171310	492.6372745	405.3277801	496.3839345				
184.4023921	183.7801843	226.0114299	464.7829964				
198.0646688	1.228195862	2.32E-07	1.13E-05			CHST11	
12	104455295	104762014	+	6492			
protein_coding	carbohydrate sulfotransferase 11 [Source:HGNC						
Symbol;Acc:HGNC:17422]	-	543	458	427	178	161	
262	4.095906197	3.3428232	4.092193964				
1.523538856	1.524385205	1.876522596					
ENSG00000236509	0	0	0	18.64743291	55.93309958		
40.54403513	0	38.37485587	-7.737154907				
2.34E-07	1.13E-05	RPL21P133	X	134607157			
134607632	+	476	processed_pseudogene				
ribosomal protein L21 pseudogene	133 [Source:HGNC						
Symbol;Acc:HGNC:36003]	-	0	0	0	18	49	
47	0	0	2.101249369	6.32756314			
4.591154665							
ENSG00000101665	937.1902479	1051.374242	1291.528223				
620.5451284	495.4074534	540.8746814	1093.364238				
552.2757544	0.984277231	2.46E-07	1.19E-05			SMAD7	
18	48919853	48952052	-	5033			
protein_coding	SMAD family member 7 [Source:HGNC						
Symbol;Acc:HGNC:6773]	MH1	1033	1188	1111	599	434	
627	10.05083341	11.18448396	13.73390298				
6.613204242	5.300418478	5.792574506					
ENSG00000060656	1232.954063	1038.099315	1508.914162				
594.6459161	728.2717864	577.1055213	1259.98918				
633.3410746	0.992443135	2.52E-07	1.21E-05			PTPRU	
1	29236516	29326813	+	6682			
protein_coding	"protein tyrosine phosphatase, receptor type U						
[Source:HGNC	Symbol;Acc:HGNC:9683]"						-
574	638	669	9.959594782	8.317982104		1298	
12.08579067	4.773286089	5.868965649	4.655332064				
ENSG00000108963	815.6186184	758.4408462	575.4333667				
1128.169691	1633.474806	1658.854884	716.4976104				
1473.499794	-1.039169382	2.52E-07	1.21E-05			DPH1	
17	2030110	2043430	+	5757	protein_coding		
diphthamide biosynthesis 1 [Source:HGNC	Symbol;Acc:HGNC:3003]						-

	899	857	495	1089	1431	1923	7.647018588		
	7.053603338		5.349532325		10.51099172		15.27885342		
	15.53152403								
ENSG00000167004	5004.396328		4227.621846		6239.092685				
3297.487719	2220.201606		1582.942648		5157.036953				
2366.877324	1.123701267		2.55E-07		1.22E-05			PDIA3	
15	43746392		43773279		+	4240			
protein_coding	protein disulfide isomerase family A member 3								
[Source:HGNC Symbol;Acc:HGNC:4606]			-		5516	4777		5367	
3183	1945	1835	63.70698974		53.38457941				
78.75399347	41.71409498		28.19688345		20.12339399				
ENSG00000258791	40.82629347		70.79961225		12.78740815				
270.3877772	181.4972007		226.8740689		41.47110462				
226.2530156	-2.435311201		2.62E-07		1.25E-05				
LINC00520	14	55781132		55796731		-		3482	
	lincRNA long intergenic non-protein coding RNA 520								
[Source:HGNC Symbol;Acc:HGNC:19843]			-		45	80		11	
261	159	263	0.632866971		1.088648456				
0.196548967	4.165084189		2.806827467		3.512028244				
ENSG00000224051	1137.692711		1621.311121		1271.765865				
1873.031039	3175.630266		4012.1342		1343.589899				
3020.265168	-1.168630009		2.65E-07		1.26E-05			CPTP	
1	1324756	1328897	+	2556	protein_coding				
ceramide-1-phosphate transfer protein	[Source:HGNC Symbol;Acc:HGNC:28116]								
			-	1254	1832	1094	1808	2782	
4651	24.02510921		33.9618282		26.62951882				
39.30516469	66.90269867		84.60898949						
ENSG00000138166	995.2543097		987.6545909		842.8064462				
1438.960239	1770.453825		2028.927034		941.9051156				
1746.1137	-0.89018887		2.83E-07		1.34E-05			DUSP5	
10	110497838		110511544		+	2615			
protein_coding	dual specificity phosphatase 5 [Source:HGNC Symbol;Acc:HGNC:3071]								
			-	1097	1116	725	1389	1551	
2352	20.54298826		20.22175956		17.2493669				
29.51498699	36.45754872		41.82121466						
ENSG00000071575	1946.053322		1727.510539		2777.192552				
1073.263361	1228.245207		955.8040622		2150.252138				
1085.770877	0.985689601		2.90E-07		1.38E-05			TRIB2	
2	12716889		12742734		+	4588			
protein_coding	tribbles pseudokinase 2 [Source:HGNC Symbol;Acc:HGNC:30809]								
			-	2145	1952	2389	1036	1076	
1108	22.8945742		20.15964336		32.39661144				
12.54724534	14.41571615		11.22916257						
ENSG00000179776	331.1466026		133.6342681		225.5233801				
59.05020421	63.92354238		43.13195226		230.1014169				
55.36856628	2.058938659		2.91E-07		1.38E-05			CDH5	
16	66366622		66404786		+	6082			
protein_coding	cadherin 5 [Source:HGNC Symbol;Acc:HGNC:1764]								
			-						
365	151	194	57	56	50	2.938834518			
1.1764053		1.984550528		0.520763436		0.565964214			

	0.38225626					
ENSG00000186340	1057.854626	906.2350368	1277.578323			
639.1925614	456.5967313	411.4788246	1080.555995			
502.4227057	1.104744549	2.94E-07	1.39E-05			THBS2
6	169215780	169254044	-	6412		
protein_coding	thrombospondin 2 [Source:HGNC Symbol;Acc:HGNC:11786]					
-	1166	1024	1099	617	400	477
8.904995827	7.567159425	10.66377628	5.346920095			
3.834544992	3.459042384					
ENSG00000153044	1252.006333	1208.903379	1311.290581			
723.1060094	741.9696883	708.2266562	1257.400098			
724.434118	0.795495655	3.02E-07	1.42E-05			CENPH
5	69189548	69210357	+	2244		
protein_coding	centromere protein H [Source:HGNC					
Symbol;Acc:HGNC:17268]	-	1380	1366	1128	698	650
821	30.11514214	28.84392035	31.27469577			
17.28401417	17.80483135	17.0118413				
ENSG00000100526	504.4315371	443.3825717	489.4089846			
164.7189907	239.7132839	106.1046026	479.0743645			
170.1789591	1.497916353	3.09E-07	1.45E-05			CDKN3
14	54396849	54420218	+	1836		
protein_coding	cyclin dependent kinase inhibitor 3 [Source:HGNC					
Symbol;Acc:HGNC:1791]	-	556	501	421	159	210
123	14.82964649	12.92979055	14.2664614			
4.812120469	7.030625711	3.115038744				
ENSG00000067445	83.46708887	71.6846074	32.5497662			
279.7114936	204.3270372	245.8521279	62.56715416			
243.2968863	-1.95106369	3.11E-07	1.45E-05			TR0
X	54920462	54931431	+	6716		
protein_coding	trophinin [Source:HGNC Symbol;Acc:HGNC:12326]					-
92	81	28	270	179	285	0.670819724
	0.571479653	0.259390574	2.233907161	1.638285939		
	1.973173121					
ENSG00000105426	990.7180548	734.5459771	1156.679192			
446.5024213	454.3137476	487.3910606	960.6477412			
462.7357432	1.052488439	3.19E-07	1.49E-05			PTPRS
19	5158495	5340803	-	8565		
protein_coding	"protein tyrosine phosphatase, receptor type S					
[Source:HGNC Symbol;Acc:HGNC:9681]"	-		1092	830		995
431	398	565	6.243440175	4.5917387		
7.227740642	2.796159535	2.856295035	3.067270648			
ENSG00000168268	9185.00878	9016.33062	11007.63343			
6428.184511	5593.309958	3938.809881	9736.324277			
5320.10145	0.872057539	3.28E-07	1.53E-05			NT5DC2
3	52524385	52535054	-	4719		
protein_coding	5'-nucleotidase domain containing 2 [Source:HGNC					
Symbol;Acc:HGNC:25717]	-	10124	10188	9469	6205	4900
4566	105.0584146	102.2975894	124.8420771			
73.06406856	63.8253879	44.99009891				
ENSG00000175264	534.370819	406.2127753	504.5213761			

244.4885648	119.856642	158.7255843	481.7016568	
174.3569304	1.465069354	3.30E-07	1.53E-05	CHST1
11	45648877	45665622	- 3478	
protein_coding	carbohydrate sul	foftransferase 1	[Source:HGNC	
Symbol;Acc:HGNC:1969]	-	589 459	434 236	105
184	8.293052231	6.253304095	7.763668772	
3.770461139	1.855697068	2.459910258		
ENSG00000130522	3120.943323	3910.793582	3759.497996	
4808.965753	8394.530904	7557.580676	3597.0783	
6920.359111	-0.944054936	3.31E-07	1.53E-05	JUND
19	18279760	18281622	- 1863	
protein_coding	"JunD proto-oncogene, AP-1 transcription factor			
subunit [Source:HGNC Symbol;Acc:HGNC:6206]"		TF_bZIP	3440 4419	
3234	4642 7354	8761 90.42203383	112.3925662	
108.0025494	138.4536231	242.6376163	218.6612586	
ENSG00000090530	517.1330506	445.152562	631.2329659	
244.4885648	188.3461516	94.02765594	531.1728595	
175.6207908	1.599393117	3.39E-07	1.56E-05	P3H2
3	189956728	190122437	- 5605	
protein_coding	prolyl 3-hydroxylase 2 [Source:HGNC			
Symbol;Acc:HGNC:19317]	-	570 503	543 236	165
109	4.979983712	4.252250187	6.02741451	
2.339636724	1.809487917	0.90423622		
ENSG00000156113	474.4922552	352.2280709	495.2214429	
210.3016045	166.6578069	141.4728034	440.6472563	
172.8107383	1.351122436	3.54E-07	1.63E-05	KCNMA1
10	76869601	77638369	- 35644	
protein_coding	potassium calcium-activated channel subfamily M alpha			
1 [Source:HGNC Symbol;Acc:HGNC:6284]	-	523 398	426	
203	146 164	0.718528398	0.529082111	
0.743583956	0.316462057	0.251775682	0.213938246	
ENSG00000169045	6544.001218	6568.434026	6141.443386	
4591.412369	3595.699259	3715.386368	6417.959543	
3967.499332	0.69395985	3.56E-07	1.64E-05	
HNRNPH1 5	179614178	179634784	- 9480	
protein_coding	heterogeneous nuclear ribonucleoprotein H1			
[Source:HGNC Symbol;Acc:HGNC:5041]	-	7213 7422	5283	
4432	3150 4307	37.25943615	37.0970225	
34.67201804	25.97786515	20.42441267	21.12504061	
ENSG00000069020	361.0858845	340.723134	352.2349699	
674.4154902	717.9983599	663.3694258	351.3479961	
685.261092	-0.96352682	3.63E-07	1.66E-05	MAST4
5	66596361	67169595	+ 14675	
protein_coding	microtubule associated serine/threonine kinase family			
member 4 [Source:HGNC Symbol;Acc:HGNC:19037]	-	398 385		
303	651 629	769 1.328108774	1.24310857	
1.284610197	2.464988641	2.634631595	2.436571993	
ENSG00000143977	1019.750086	1584.141324	1374.06513	
695.1348601	671.197195	669.4078991	1325.985513	
678.5799847	0.966437886	3.64E-07	1.66E-05	SNRPG

2	70281362	70293771	-	1795	
protein_coding	small nuclear ribonucleoprotein	polypeptide G			
[Source:HGNC Symbol;Acc:HGNC:11163]			-	1124 1790	1182
671	588 776	30.66412255		47.2514368	
40.96942514	20.77160766	20.13539869		20.10149168	
ENSG00000122861	4108.032374	4559.495029		5245.162324	
2681.086465	2192.805802	3080.484031		4637.563242	
2651.458766	0.805926348	3.82E-07		1.74E-05	PLAU
10	73909177	73917497		+ 2950	
protein_coding	"plasminogen activator, urokinase	[Source:HGNC			
Symbol;Acc:HGNC:9052]"	-	4528 5152		4512 2588	1921
3571	75.16455416	82.75233923		95.15988787	
48.74771907	40.02696939	56.28580119			
ENSG00000064666	4212.366235	4028.497937		4746.453407	
2962.869895	2526.121416	2510.279622		4329.10586	
2666.423644	0.699010502	3.84E-07		1.75E-05	CNN2
19	1026581 1039068	+ 3645		protein_coding	
calponin 2 [Source:HGNC Symbol;Acc:HGNC:2156]		-		4643	4552
4083	2860 2213	2910		62.37776854	59.17403191
69.69292527	43.59940315	37.31910686		37.12158186	
ENSG00000168077	386.4889115	331.8731824		670.757682	
123.2802509	34.24475485	161.3135015		463.0399253	
106.2795024	2.116622737	3.91E-07		1.77E-05	SCARA3
8	27633868	27676776		+ 4031	
protein_coding	scavenger receptor class A member 3	[Source:HGNC			
Symbol;Acc:HGNC:19000]"	-	426 375		577 119	30
187	5.175180295	4.408033744		8.905736918	
1.640386577	0.457462835	2.157048085			
ENSG00000029534	224.0909886	195.5839288		226.6858717	
81.8415111	55.93309958	39.68139608		215.4535964	
59.15200225	1.868628009	3.99E-07		1.81E-05	ANK1
8	41653220	41896762		- 10797	
protein_coding	ankyrin 1 [Source:HGNC Symbol;Acc:HGNC:492]				-
247	221 195	79 49		46	1.12026956
0.969874661	1.123668889	0.406570659		0.278958975	
0.198100581					
ENSG00000144724	2950.380141	2241.692723		2987.60354	
1735.247229	1437.138212	1124.881315		2726.558801	
1432.422252	0.928934968	4.08E-07		1.84E-05	PTPRG
3	61561569	62297613		+ 14629	
protein_coding	"protein tyrosine phosphatase, receptor type G	[Source:HGNC Symbol;Acc:HGNC:9671]"			
		-		3252 2533	2570
1675	1259 1304	10.88590602		8.204403112	
10.93013007	6.362271751	5.290033842		4.144708289	
ENSG00000163453	585.1768731	371.6979643		767.2444889	
7.251779464	35.38624667	1.725278091		574.7064421	
14.78776808	5.292256116	4.15E-07		1.87E-05	IGFBP7
4	57030773	57110385		- 1930	
protein_coding	insulin like growth factor binding protein 7	[Source:HGNC Symbol;Acc:HGNC:5476]			
		-		645 420	660

7	31	2	16.36556823	10.31141871	
21.27617105	0.201536065		0.987305929	0.048184095	
ENSG00000100911	1050.596619		1309.792827	1479.85187	
629.8688449	746.5356556		461.5118892	1280.080439	
612.6387966	1.064259321		4.24E-07	1.90E-05	PSME2
14	24143362		24147570	-	3582
protein_coding	proteasome activator subunit 2				
Symbol;Acc:HGNC:9569]	-		1158 1480	1273 608	654
535	15.83112075		19.57774082	22.11106538	
9.431701368	11.22275616		6.944791612		
ENSG00000143641	1496.964094		1745.210442	2122.709753	
1027.680747	1025.059662		831.5840396	1788.294763	
961.4414828	0.89540124		4.36E-07	1.95E-05	GALNT2
1	230057990		230282124	+	7743
protein_coding	polypeptide N-acetylgalactosaminyltransferase 2				
[Source:HGNC	Symbol;Acc:HGNC:4124]		-	1650 1972	1826
992	898 964		10.43526227	12.06768852	
14.67230548	7.118925639		7.128767285	5.788936594	
ENSG00000108821	34404.77113		32846.59511	64901.90881	
12187.13337	10482.31946		6158.380144	44051.09168	
9609.277659	2.196692226		4.45E-07	1.99E-05	COL1A1
17	50183289		50201632	-	9819
protein_coding	collagen type I alpha 1 chain				
Symbol;Acc:HGNC:2197]	-		37922 37115	55830 11764	9183
7139	189.1266184		179.1053859	353.7587694	
66.5732562	57.48634335		33.80657237		
ENSG00000149782	1359.061947		1274.39302	1493.80177	
861.9257878	744.252672		627.1385859	1375.752246	
744.4390152	0.886408133		4.51E-07	2.01E-05	PLCB3
11	64251523		64269150	+	4964
protein_coding	phospholipase C beta 3				
Symbol;Acc:HGNC:9056]	-		1498 1440	1285 832	652
727	14.77776391		13.74539296	16.10564794	
9.313300095	8.07352479		6.809789009		
ENSG00000136824	2502.198164		1685.915767	2343.583166	
1377.838098	950.8626929		929.9248908	2177.232366	
1086.208561	1.003186622		4.55E-07	2.02E-05	SMC2
9	104094260		104141417	+	6468
protein_coding	structural maintenance of chromosomes 2				
Symbol;Acc:HGNC:14011]	-		2758 1905	2016 1330	833
1078	20.88107889		13.95569308	19.39221257	
11.42598563	7.916301937		7.749608583		
ENSG00000020181	753.0183018		643.3914763	1056.70491	
392.6320596	376.6923033		223.4235127	817.7048959	
330.9159585	1.306236979		4.55E-07	2.02E-05	ADGRA2
8	37784191		37844896	+	7061
protein_coding	adhesion G protein-coupled receptor A2				
Symbol;Acc:HGNC:17849]	-		830 727	909 379	330
259	5.756262153		4.878593583	8.009483634	
2.98253152	2.872731844		1.705550452		



ENSG00000176890	1331.844418	1484.136872	1717.000167		
886.7890316	792.1953288	515.8581491	1510.993819		
731.6141698	1.047234729	4.67E-07	2.07E-05	TYMS	
18	657604	673578	+	2470	protein_coding
thymidylate synthetase [Source:HGNC Symbol;Acc:HGNC:12441] -					
1468	1677	1477	856	694	598
32.17085107	37.2040645	19.25700996	17.2706975		
11.25732615					
ENSG00000134247	1452.508797	1585.911314	1822.786907		
966.5586057	883.514675	597.8088584	1620.402339		
815.960713	0.990589627	4.72E-07	2.08E-05	PTGFRN	
1	116910057	116990358	+	6352	
protein_coding prostaglandin F2 receptor inhibitor [Source:HGNC Symbol;Acc:HGNC:9601] -					
693	12.34268161	13.36761585	1568	933	774
8.16174831	7.489931252	5.072870354	15.35827415		
ENSG00000117525	741.2240392	627.4615636	662.6202404		
370.8767212	292.221908	198.4069804	677.1019477		
287.1685365	1.239637922	4.77E-07	2.10E-05	F3	
1	94529225	94541800	-	2875	
protein_coding "coagulation factor III, tissue factor [Source:HGNC Symbol;Acc:HGNC:3541]" -					
230	13.91595101	11.6851644	817	709	570
6.919221304	5.473302815	3.71981212	12.33513348	358	256
ENSG00000182481	7623.629867	6570.204017	7920.055611		
5030.663011	4605.919527	3954.337384	7371.296498		
4530.30664	0.702389394	4.88E-07	2.14E-05	KPNA2	
17	68035519	68046842	+	3140	
protein_coding karyopherin subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC:6395] -					
4584	131.0489058	112.0301083	6813	4856	4035
85.93321765	78.98802431	67.88064792	134.9943486		
ENSG00000173905	2550.282465	2312.492335	2623.743654		
1695.880426	1354.9508	1197.342995	2495.506151		
1416.058074	0.817697224	4.91E-07	2.15E-05	GOLIM4	
3	168008677	168095975	-	4647	
protein_coding golgi integral membrane protein 4 [Source:HGNC Symbol;Acc:HGNC:15448] -					
1388	29.62216909	26.64361675	2811	2613	2257
19.5743816	15.70093106	13.88825915	1637	1187	30.21800114
ENSG00000184557	1134.063707	1315.987793	1585.63861		
550.0992708	815.0251653	396.8139608	1345.230037		
587.312799	1.197171738	4.96E-07	2.16E-05	SOCS3	
17	78356778	78360077	-	2734	
protein_coding suppressor of cytokine signaling 3 [Source:HGNC Symbol;Acc:HGNC:19391] -					
460	22.38928302	25.77145266	1250	1487	1364
10.79215203	16.05266201	7.823306397	531	714	31.04007105
ENSG00000171603	3058.343006	3119.607915	4187.294923		
2097.836202	2060.39275	1749.431984	3455.081948		

1969.220312	0.810989915	4.97E-07	2.17E-05	CLSTN1
1	9729026 9824526	- 5683	protein_coding	
calsyntenin 1 [Source:HGNC Symbol;Acc:HGNC:17447]			-	3371
3525	3602 2025	1805 2028	29.0475682	
29.39056305	39.43418768	19.79973671	19.52301601	
16.59286244				
ENSG00000064225	202.3169654	194.6989337	145.3114562	
306.6466745	600.4247016	611.6110831	180.7757851	
506.2274864	-1.483730682	5.02E-07	2.18E-05	
ST3GAL6 3	98732236	98821201	+ 6288	
protein_coding	"ST3 beta-galactoside alpha-2,3-sialyltransferase 6			
[Source:HGNC Symbol;Acc:HGNC:18080]"		-	223 220	125
296	526 709	1.736684841	1.657816999	
1.236813812	2.615719811	5.141863831	5.242817257	
ENSG00000198492	3008.444203	3447.941117	3180.577154	
4492.995362	5588.743991	5541.593227	3212.320825	
5207.777527	-0.697030161	5.03E-07	2.18E-05	YTHDF2
1	28736621	28769775	+ 3859	
protein_coding	YTH N6-methyladenosine RNA binding protein 2			
[Source:HGNC Symbol;Acc:HGNC:31675]		-	3316 3896	2736
4337	4896 6424	42.07929227	47.8377352	
44.11112774	62.44917239	77.98552331	77.40370905	
ENSG00000157224	1056.040124	940.7498478	867.2187708	
1620.254726	1610.64497	1640.739464	954.669581	
1623.87972	-0.76573995	5.20E-07	2.25E-05	CLDN12
7	90383721	90513402	+ 6741	
protein_coding	claudin 12 [Source:HGNC Symbol;Acc:HGNC:2034]			-
1164	1063 746	1564 1411	1902 8.455851293	
7.471974451	6.88527589	12.89212374	12.86619256	
13.11949757				
ENSG00000118705	3974.666482	3997.523107	4576.729626	
2759.82007	2158.561047	1441.469845	4182.973071	
2119.950321	0.980865152	5.21E-07	2.25E-05	RPN2
20	37178410	37241623	+ 2819	
protein_coding	ribophorin II [Source:HGNC Symbol;Acc:HGNC:10382]			
-	4381 4517	3937 2664	1891 1671	
76.10389085	75.9244152	86.8914782	52.51110874	
41.23289358	27.56210559			
ENSG00000111725	755.7400547	690.2962194	775.3819305	
1132.313565	1389.195555	1553.612921	740.4727349	
1358.374013	-0.876123129	5.44E-07	2.34E-05	PRKAB1
12	119667753	119681630	+ 6246	
protein_coding	protein kinase AMP-activated non-catalytic subunit			
beta 1 [Source:HGNC Symbol;Acc:HGNC:9378]		-	833 780	
667	1093 1217	1801 6.530880016	5.917238355	
6.644016474	9.72367032	11.97666656	13.40734396	
ENSG00000177706	1991.41587	2109.828445	4026.871075	
941.6953619	1309.291127	1330.189408	2709.371797	
1193.725299	1.181817179	5.57E-07	2.39E-05	FAM20C
7	192969 260745	+ 4629		

protein_coding	"FAM20C, golgi associated secretory pathway kinase [Source:HGNC Symbol;Acc:HGNC:22140]"	-	2195	2384	3464
	909	1147	1542	23.22073848	24.40312874
46.55834661	10.91160776	15.23083093	15.48917231		
ENSG00000111799	2395.14255	2805.434635	2946.916332		
1750.786756	1544.438444	1143.859374	2715.831173		
1479.694858	0.876568484	5.63E-07	2.41E-05		
COL12A1	6	75084326	75206051	-	12481
protein_coding	collagen type XII alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:2188]	-	2640	3170	2535
	1326	10.3581746	12.03472913	12.63675097	1353
7.524010017	6.663398299	4.93997964			
ENSG00000170801	490.8227726	484.9773439	782.3568804		
152.2873688	303.6368263	167.3519748	586.0523323		
207.7587233	1.497837199	5.77E-07	2.47E-05		HTRA3
4	8269765	8307111	+	3321	protein_coding
serine peptidase 3	[Source:HGNC Symbol;Acc:HGNC:30406]	-			HtrA
	548	673	147	266	194
7.818764343	12.60819843	2.459577451	4.923343317		
2.716213307					
ENSG00000248323	347.47712	466.3924457	355.7224449		
742.7894108	777.355935	821.2323711	389.8640035		
780.459239	-1.000449066	5.80E-07	2.47E-05		LUCAT1
5	91054834	91314547	-	16538	
antisense	lung cancer associated transcript 1 [Source:HGNC Symbol;Acc:HGNC:48498]	-	383	527	306
	952	1.134082033	1.509920455	1.151185433	681
2.409063301	2.531112709	2.676609277			
ENSG00000146576	1403.517244	1694.765718	1584.476119		
2298.81409	2701.911157	3378.95714	1560.919694		
2793.227463	-0.83990422	5.98E-07	2.54E-05		
C7orf26	7	6590017	6608726	+	2728
chromosome 7 open reading frame 26	[Source:HGNC Symbol;Acc:HGNC:21702]	-	1547	1915	1363
	3917	27.76992017	33.26219101	31.0855343	2219
45.19859968	53.33364332	66.76367336			2367
ENSG00000038427	577.9188653	300.0133569	476.6215765		
208.2296675	133.5545439	107.8298807	451.5179329		
149.871364	1.592339339	6.10E-07	2.59E-05		VCAN
5	83471465	83582303	+	14831	
protein_coding	versican [Source:HGNC Symbol;Acc:HGNC:2464]	-			
	637	339	410	201	117
	1.083067949	1.71996761	0.753074021	0.484911839	
	0.391895788				
ENSG00000152952	5092.399672	4636.489607	7413.209251		
3481.890111	3061.481083	2282.542914	5714.032844		
2941.971369	0.957736334	6.16E-07	2.61E-05		PL0D2
3	146069440	146163653	-	7646	
protein_coding	"procollagen-lysine,2-oxoglutarate 5-dioxygenase 2 [Source:HGNC Symbol;Acc:HGNC:9082]"	-	5613	5239	6377

3361	2682	2646	35.94921671	32.46687923	
51.89063316	24.42565746		21.56114598	16.09113077	
ENSG00000230882	8.165258694		24.77986429	11.6249165	
93.23716454	110.7247073		105.2419635	14.85667983	
103.0679451	-2.78550078		6.30E-07	2.66E-05	
AC005077.4	7	76071469	76074963	-	3495
processed_pseudogene			hypothetical protein LOC285908		
(LOC285908) pseudogene	-		9	28	10
122	0.126102592		0.379609692	0.178016258	97
1.430893705	1.705972061		1.623093987		
ENSG00000162390	234.0707492		267.2685362	202.2735471	
400.9198075	579.8778487		883.3423824	234.5376108	
621.3800129	-1.40543803		6.57E-07	2.77E-05	ACOT11
1	54542257		54639192	+	9768
protein_coding	acyl-CoA thioesterase 11 [Source:HGNC				
Symbol;Acc:HGNC:18156]	-		258	302	174
1024	1.29342943		1.464966632	1.108282419	508
2.201493248	3.196726061		4.874446676		
ENSG00000254139	19.05227029		21.23988367	4.6499666	
78.73360561	86.75337894		198.4069804	14.98070685	
121.2979883	-3.000117187		6.79E-07	2.85E-05	
AC104051.2	8	57746149	57750199	+	2461
lincRNA	uncharacterized LOC286178 [Source:NCBI				
gene;Acc:286178]	-		21	24	4
230	0.417865354		0.462089467	0.101124229	76
1.715987114	1.898232212		4.345574907		
ENSG00000140391	3887.570389		3857.693872	4417.46827	
2713.201488	2610.591811		2283.405553	4054.244177	
2535.732951	0.677104489		6.79E-07	2.85E-05	TSPAN3
15	77041404		77083984	-	8506
protein_coding	tetraspanin 3 [Source:HGNC Symbol;Acc:HGNC:17752]				
-	4285	4359	3800	2619	2287
24.66914692	24.28219439		27.79489673	17.10890299	
16.52677621	14.4697018				
ENSG00000109685	4804.801116		4034.692903	4347.718771	
3077.862398	2479.320251		2226.471376	4395.737596	
2594.551342	0.760844086		6.88E-07	2.87E-05	NSD2
4	1871424	1982207	+	19776	protein_coding
nuclear receptor binding SET domain protein 2 [Source:HGNC					
Symbol;Acc:HGNC:12766]	HMG		5296	4559	3740
2581	13.11409141		10.92339352	11.76630212	2172
8.347880856	6.751009633		6.068489003		
ENSG00000233608	280.3405485		237.178701	315.0352371	
119.1363769	84.47039528		86.26390453	277.5181622	
96.62355891	1.521536154		6.89E-07	2.87E-05	TWIST2
2	238848032		238910543	+	1878
protein_coding	twist family bHLH transcription factor 2 [Source:HGNC				
Symbol;Acc:HGNC:20670]	bHLH		309	268	271
100	8.057337864		6.761851782	8.978019608	74
3.402626626	2.422052162		2.475913285		

ENSG00000136869	501.7097842	362.8480128	539.3961256	
235.1648483	108.4417237	85.40126548	467.9846408	
143.0026125	1.711607665	6.98E-07	2.90E-05	TLR4
9	117704175	117724730	+ 13272	
protein_coding	toll like receptor 4 [Source:HGNC			
Symbol;Acc:HGNC:11850]	-	553 410	464 227	95
99	2.040409993	1.463773648	2.175146206	
0.950389277	0.439981679	0.346840529		
ENSG00000109881	968.0367807	817.7355215	942.7807281	
551.1352393	437.1913702	434.7700788	909.5176767	
474.3655628	0.939108607	7.56E-07	3.14E-05	CCDC34
11	27330827	27363868	- 3733	
protein_coding	coiled-coil domain containing 34 [Source:HGNC			
Symbol;Acc:HGNC:25079]	-	1067 924	811 532	383
504	13.99700485	11.72844464	13.51667	
7.918915085	6.306496285	6.277743465		
ENSG00000144736	1161.281236	1245.18818	1050.892452	
1866.815228	1852.641237	1999.597307	1152.453956	
1906.351257	-0.725650528	7.64E-07	3.17E-05	SHQ1
3	72749277	72861914	- 5841	
protein_coding	"SHQ1, H/ACA ribonucleoprotein assembly factor			
[Source:HGNC Symbol;Acc:HGNC:25543]"	-	1280 1407		904
1802	1623 2318	10.73127803	11.41388078	
9.629152634	17.14271575	17.07963848	18.45258623	
ENSG00000167889	374.6946489	321.2532406	444.0718103	
105.6687865	130.1300684	183.7421166	380.0065666	
139.8469905	1.437796875	7.70E-07	3.18E-05	MGAT5B
17	76868456	76950393	+ 6386	
protein_coding	"alpha-1,6-mannosylglycoprotein 6-beta-N-			
acetylglucosaminyltransferase B [Source:HGNC Symbol;Acc:HGNC:24140]"	-	413 363	382 102	114 213
3.167012817	2.69342044	3.721699425	0.88753053	
1.09729474	1.550892541			
ENSG00000133030	7434.921666	7046.331409	7176.060955	
5042.058665	4631.032347	4843.718239	7219.104677	
4838.936417	0.577089297	7.75E-07	3.20E-05	MPRIIP
17	17042545	17217679	+ 18153	
protein_coding	myosin phosphatase Rho interacting protein			
[Source:HGNC Symbol;Acc:HGNC:30321]	-	8195 7962		6173
4867	4057 5615	22.10697061	20.78261567	
21.15703068	14.89789751	13.73738153	14.38243338	
ENSG00000117385	1453.416047	1508.031741	1821.624415	
1017.321062	823.0156081	660.7815087	1594.357401	
833.7060596	0.93568955	7.89E-07	3.25E-05	P3H1
1	42746335	42767084	- 6766	
protein_coding	prolyl 3-hydroxylase 1 [Source:HGNC			
Symbol;Acc:HGNC:19316]	-	1602 1704	1567 982	721
766	11.59469161	11.93339559	14.40933206	
8.064761676	6.550140738	5.264144406		
ENSG00000149948	1961.476588	2096.553518	1493.80177	

3145.200351	2892.540293	3965.551691	1850.610625	
3334.430778	-0.8491275	8.15E-07	3.34E-05	HMGA2
12	65824131	65966295	+ 15403	
protein_coding	high mobility group AT-hook 2 [Source:HGNC			
Symbol;Acc:HGNC:5009]	HMGI/HMGY	2162	2369	1285 3036
2534	4597	6.873517738	7.287627838	5.190445782
10.9523798	10.11226996	13.87714757		
ENSG00000115414	26922.67242	19873.45116	48314.31546	
8138.568496	6062.463099	3940.535159	31703.47968	
6047.188918	2.39031807	8.16E-07	3.34E-05	FN1
2	215360440	215436172	- 17315	
protein_coding	fibronectin 1 [Source:HGNC Symbol;Acc:HGNC:3778]			
-	29675	22456	41561	7856 5311 4568
83.92607548	61.45204566	149.3380029	25.21105516	
18.85389854	12.26689414			
ENSG00000123146	2145.648535	2369.132025	2967.841182	
1604.715199	1327.554996	1073.985611	2494.207247	
1335.418602	0.901386197	8.20E-07	3.35E-05	ADGRE5
19	14380501	14408725	+ 5382	
protein_coding	adhesion G protein-coupled receptor E5 [Source:HGNC			
Symbol;Acc:HGNC:1711]	-	2365	2677	2553 1549 1163
1245	21.51870517	23.56845526	29.51304146	
15.99262552	13.28260879	10.75614569		
ENSG00000077312	1361.7837	1516.881692	1617.025885	
783.1921821	777.355935	975.6447602	1498.563759	
845.3976258	0.824580668	8.62E-07	3.51E-05	SNRPA
19	40750637	40765389	+ 2361	
protein_coding	small nuclear ribonucleoprotein polypeptide A			
[Source:HGNC Symbol;Acc:HGNC:11151]	-		1501	1714 1391
756	681	1131	31.13245641	34.39863991
36.65540223	17.79253595	17.72958153	22.27397029	
ENSG00000184678	67.13657148	58.40968011	68.58700734	
197.8699825	167.7992987	278.6324116	64.71108631	
214.767231	-1.734027466	8.68E-07	3.53E-05	
HIST2H2BE	1	149884459	149886652	- 2194
protein_coding	histone cluster 2 H2B family member e			
[Source:HGNC Symbol;Acc:HGNC:4760]	-		74	66 59
191	147	323	1.6516719	1.425390149
1.673101294	4.837364216	4.118395699	6.845369843	
ENSG00000126787	1634.866241	1008.009479	1464.739479	
356.3731622	243.1377594	106.1046026	1369.205066	
235.2051747	2.54234296	8.76E-07	3.55E-05	DLGAP5
14	55148112	55191678	- 3667	
protein_coding	DLG associated protein 5 [Source:HGNC			
Symbol;Acc:HGNC:16864]	-	1802	1139	1260 344 213
123	24.06426272	14.71767657	21.37797091	
5.212662132	3.570393257	1.559643069		
ENSG00000115306	3292.413756	2512.50124	3352.625918	
2035.678092	1608.361986	1482.876519	3052.513638	
1708.972199	0.836873676	8.93E-07	3.62E-05	SPTBN1

2	54456285	54671445	+	18504	
protein_coding	"spectrin beta, non-erythrocytic 1 [Source:HGNC				
Symbol;Acc:HGNC:11275]"	-	3629 2839	2884 1965	1409	
1719	9.603953132	7.269862781	9.696979621		
5.900773961	4.680505216	4.319577547			
ENSG00000132780	5641.286506	5346.25572	5023.126419		
3805.112282	2777.249618	3162.43474	5336.889549		
3248.265547	0.716315564	8.97E-07	3.62E-05	NASP	
1	45583846	45618904	+	8304	
protein_coding	nuclear autoantigenic sperm protein [Source:HGNC				
Symbol;Acc:HGNC:7644]"	-	6218 6041	4321 3673	2433	
3666	36.66840849	34.47052803	32.37455238		
24.57794859	18.00951961	20.52750366			
ENSG00000232112	535.2780699	873.4902161	782.3568804		
342.9055718	327.6081547	346.7808962	730.3750555		
339.0982076	1.106398034	9.22E-07	3.71E-05	TMA7	
3	48440257	48444208	+	1139	
protein_coding	translation machinery associated 7 homolog				
[Source:HGNC Symbol;Acc:HGNC:26932]"	-		590 987	673	
331	287 402	25.36629105	41.06008739		
36.7619201	16.14790974	15.48836351	16.41093582		
ENSG00000218336	1639.402496	1323.952749	2180.834335		
1016.285093	831.0060509	700.4629048	1714.72986		
849.2513497	1.013548145	9.57E-07	3.85E-05	TENM3	
4	182143987	182803024	+	11983	
protein_coding	teneurin transmembrane protein 3 [Source:HGNC				
Symbol;Acc:HGNC:29944]"	-	1807 1496	1876 981	728	
812	7.384503094	5.915513844	9.740340102		
4.548995338	3.734334184	3.150804725			
ENSG00000149968	951.7062633	890.305124	924.1808617		
1887.534598	1405.17644	1551.025003	922.064083		
1614.578681	-0.808358373	9.75E-07	3.91E-05	MMP3	
11	102835801	102843803	-	2048	
protein_coding	matrix metalloproteinase 3 [Source:HGNC				
Symbol;Acc:HGNC:7173]"	-	1049 1006	795 1822	1231	
1798	25.08269628	23.27525615	24.15149521		
49.43453621	36.94668355	40.82166865			
ENSG00000104723	23.58852512	42.47976735	34.8747495		
105.6687865	158.6673641	188.0553119	33.64768065		
150.7971542	-2.165243726	9.84E-07	3.94E-05	TUSC3	
8	15417215	15766649	+	5190	
protein_coding	tumor suppressor candidate 3 [Source:HGNC				
Symbol;Acc:HGNC:30242]"	-	26 48	30 102	139	
218	0.24532097	0.438228199	0.359634		
1.09205587	1.646246265	1.953080545			
ENSG00000145781	794.7518462	603.5666944	739.3446893		
306.6466745	400.6636317	339.0171448	712.55441		
348.775817	1.031277544	1.01E-06	4.02E-05		
COMMD10 5	116084991	116412762	+	2464	
protein_coding	COMM domain containing 10 [Source:HGNC				

Symbol;Acc:HGNC:30201]	-	876	682	636	296	351
393	17.40973202	13.11505487		16.05917604		
6.675181076	8.756161702	7.416224448				
ENSG00000198642	1175.797252	1244.303185		1105.529559		
1754.93063	2019.299044	2043.591898		1175.209999		
1939.273858	-0.722257287	1.04E-06		4.14E-05		KLHL9
9	21329671	21335380		-	5710	
protein_coding	kelch like family member 9 [Source:HGNC					
Symbol;Acc:HGNC:18732]	-	1296	1406	951	1694	1769
2369	11.1146957	11.66744207		10.36218294		
16.4850148	19.043163	19.29123229				
ENSG00000164985	2628.306048	2316.917311		2454.019873		
1692.772521	1434.855228	1297.409124		2466.414411		
1475.012291	0.742038149	1.09E-06		4.33E-05		PSIP1
9	15464066	15511019		-	6768	
protein_coding	PC4 and SFRS1 interacting protein 1 [Source:HGNC					
Symbol;Acc:HGNC:9527]	-	2897	2618	2111	1634	1257
1504	20.96123315	18.32887178		19.40594204		
13.41540369	11.41621891	10.33281144				
ENSG00000143870	3476.585702	3061.198235		3879.234636		
2424.166278	1418.874342	1235.299113		3472.339524		
1692.779911	1.036634001	1.10E-06		4.34E-05		PDIA6
2	10783391	10837977		-	4101	
protein_coding	protein disulfide isomerase family A member 6					
[Source:HGNC Symbol;Acc:HGNC:30168]	-			3832	3459	3337
2340	1243	1432	45.75772403	39.96568247		
50.62596144	31.70575736	18.63068056		16.23619531		
ENSG00000175216	7841.370099	5494.934906		7313.234969		
4601.772054	3800.026296	3030.450966		6883.179991		
3810.749772	0.8531361	1.11E-06		4.39E-05		CKAP5
11	46743048	46846308		-	8538	
protein_coding	cytoskeleton associated protein 5 [Source:HGNC					
Symbol;Acc:HGNC:28959]	-	8643	6209	6291	4442	3329
3513	49.57206906	34.45814944		45.84272037		
28.90909175	23.96652149	19.131676				
ENSG00000187244	85.2815908	119.4743457		227.8483634		
22.79130689	36.5277385	12.07694663		144.2014333		
23.79866401	2.609383169	1.15E-06		4.53E-05		BCAM
19	44809059	44821421		+	5009	
protein_coding	basal cell adhesion molecule (Lutheran blood group)					
[Source:HGNC Symbol;Acc:HGNC:6722]	-			94	135	196
22	32	14	0.918978827	1.277053753		
2.434511813	0.244052743	0.392686804		0.129959497		
ENSG00000176692	547.0723325	509.7572082		780.0318971		
260.0280922	302.4953345	272.5939383		612.2871459		
278.372455	1.136227784	1.16E-06		4.56E-05		FOXC2
16	86566829	86569728		+	2900	
protein_coding	forkhead box C2 [Source:HGNC Symbol;Acc:HGNC:3801]					
Fork	603	576	671	251	265	316
10.18234945	9.411328364	14.39565297		4.809365318		



5.616881172	5.066640646								
ENSG00000155368	1192.127769	1701.845679	1446.139612						
882.6451577	674.6216705	761.710277	1446.704354						
772.9923684	0.90403304	1.18E-06	4.64E-05			DBI			
2	119366921	119372560	+	2509					
protein_coding	"diazepam binding inhibitor, acyl-CoA binding protein [Source:HGNC Symbol;Acc:HGNC:2690]"			-	1314	1923	1244		
852	591	883	25.64622142	36.31659006					
30.84796828	18.86909092	14.4788537	16.36405989						
ENSG00000172137	56.24955989	68.14462679	29.06229125						
129.4960619	275.0995306	236.3630984	51.15215931						
213.652897	-2.054233367	1.21E-06	4.74E-05			CALB2			
16	71358713	71390438	+	1703					
protein_coding	calbindin 2 [Source:HGNC Symbol;Acc:HGNC:1435]			-					
62	77	25	125	241	274	1.782812724			
2.142409661	0.91333943	4.078565194	8.698607897						
7.481125373									
ENSG00000174840	2021.355152	2227.5328	1814.649465						
3059.214965	3167.639823	3564.424535	2021.179139						
3263.759775	-0.691074155	1.22E-06	4.76E-05			PDE12			
3	57556276	57566844	+	8947					
protein_coding	phosphodiesterase 12 [Source:HGNC Symbol;Acc:HGNC:25386]			-	2228	2517	1561	2953	2775
4132	12.19456836	13.33006352	10.8550621						
18.33994603	19.06482883	21.47404672							
ENSG00000274012	275.8042937	878.800187	381.2972612						
95.30910153	81.0459198	210.483927	511.9672473						
128.9463161	1.985454239	1.27E-06	4.96E-05			RN7SL2			
14	49862550	49862849	-	300					
misc_RNA	"RNA, 7SL, cytoplasmic 2 [Source:HGNC Symbol;Acc:HGNC:23134]"			-	304	993	328	92	71
244	49.62277103	156.8391336	68.02357233						
17.04035414	14.54736897	37.81808989							
ENSG00000188643	6137.552785	8640.20768	8233.928356						
11028.9206	13639.68585	14179.19799	7670.56294						
12949.26815	-0.755546131	1.28E-06	4.99E-05						
S100A16 1	153606886	153613145	-	1701					
protein_coding	S100 calcium binding protein A16 [Source:HGNC Symbol;Acc:HGNC:20441]			-	6765	9763	7083	10646	11949
16437	194.756594	271.9602405	259.0715806						
347.7716628	431.7920159	449.313285							
ENSG00000198840	7963.848979	12545.69129	8480.376586						
13355.70584	21259.14381	21002.67284	9663.305619						
18539.17416	-0.939926377	1.28E-06	4.99E-05			MT-ND3			
MT	10059	10404	+	346					
mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 3 [Source:HGNC Symbol;Acc:HGNC:7458]				-	8778	14176	7295		
12892	18624	24347	1242.362006	1941.350923					
1311.765015	2070.409452	3308.599687	3271.902662						
ENSG00000128708	1560.471661	1570.866397	1527.514028						

1066.011581	687.1780806	703.9134609	1552.950695	
819.0343743	0.923237303	1.34E-06	5.19E-05	HAT1
2	171922448	171983682	+ 6790	
protein_coding	histone acetyltransferase 1 [Source:HGNC			
Symbol;Acc:HGNC:4821]	-	1720 1775	1314 1029	602
816	12.40473115	12.38668302	12.04016497	
8.42088321	5.449718593	5.587935733		
ENSG00000111247	781.1430817	699.146171	712.6073814	
437.1787048	334.4571057	263.9675479	730.9655447	
345.2011195	1.083895253	1.35E-06	5.23E-05	
RAD51AP1	12 4538798	4560048 +	2558	protein_coding
	RAD51 associated protein 1 [Source:HGNC			Symbol;Acc:HGNC:16956]
-	861 790	613 422	293 306	
16.48281161	14.63366106	14.90962708	9.166930832	
7.040677315	5.562267928			
ENSG00000143384	10721.89192	10837.65065	10683.29826	
14754.2633	16064.2145	16058.88847	10747.61361	
15625.78876	-0.539910569	1.35E-06	5.23E-05	MCL1
1	150574551	150579738	- 4371	
protein_coding	"MCL1, BCL2 family apoptosis regulator [Source:HGNC			
Symbol;Acc:HGNC:6943]"	-	11818 12246	9190 14242	14073
18616	132.4011821	132.7516383	130.8101825	
181.0515381	197.9033936	198.032551		
ENSG00000135862	5987.856375	4764.813904	7398.09686	
3807.184219	3505.521404	3138.280847	6050.255713	
3483.662157	0.796266214	1.37E-06	5.29E-05	LAMC1
1	183023460	183145592	+ 8406	
protein_coding	laminin subunit gamma 1 [Source:HGNC			
Symbol;Acc:HGNC:6492]	-	6600 5384	6364 3675	3071
3638	38.44883927	30.34884072	47.10289844	
24.29293574	22.45627877	20.12353749		
ENSG00000109917	3842.207841	3809.904134	3191.039579	
5092.821121	5970.002261	6242.918771	3614.383851	
5768.580718	-0.674237072	1.38E-06	5.31E-05	ZPR1
11	116773799	116788050	- 7069	
protein_coding	ZPR1 zinc finger [Source:HGNC			
Symbol;Acc:HGNC:13051]"	-	4235 4305	2745 4916	5230 7237
29.33756849	28.85636449	24.15968201	38.64256412	
45.47692248	47.60270249			
ENSG00000148834	1803.61492	2655.870455	2683.030728	
3505.717387	4766.869874	4777.295033	2380.838701	
4349.960765	-0.869821472	1.39E-06	5.34E-05	GST01
10	104235356	104267459	+ 1691	
protein_coding	glutathione S-transferase omega 1 [Source:HGNC			
Symbol;Acc:HGNC:13312]"	-	1988 3001	2308 3384	4176
5538	57.57069284	84.0908667	84.91786048	
111.1984645	151.7973684	152.2791212		
ENSG00000164919	995.2543097	1410.682274	1179.929025	
621.5810969	592.4342588	708.2266562	1195.288536	
640.7473373	0.898875068	1.42E-06	5.44E-05	COX6C

8	99873200	99894062	-	3066	
protein_coding	cytochrome c oxidase subunit 6C [Source:HGNC				
Symbol;Acc:HGNC:2285]	-	1097	1594	1015	600 519
821	17.52117231	24.63443508		20.59684678	
10.87404544	10.40501157	12.45093669			
ENSG00000275832	2404.21506	2277.092529		2796.95491	
1627.506505	1495.354295	1480.288602		2492.754166	
1534.383134	0.699729884	1.44E-06		5.50E-05	
ARHGAP23	17	38419280	38512392	+	8133
protein_coding	Rho GTPase activating protein 23 [Source:HGNC				
Symbol;Acc:HGNC:29293]	-	2650	2573	2406	1571 1310
1716	15.95599109	14.99047708		18.4056728	
10.73340351	9.900745192	9.810644285			
ENSG00000133112	29424.87058	36395.42567		42229.83417	
53202.16206	64777.37827	58498.14158		36016.71014	
58825.89397	-0.707816522	1.46E-06		5.55E-05	TPT1
13	45333471	45341370		-	7269
protein_coding	"tumor protein, translationally-controlled 1				
[Source:HGNC	Symbol;Acc:HGNC:12022]"	-	32433	41125	36327
51355	56748	67813	218.4948157	268.0758446	
310.9293448	392.5727121	479.8696148	433.7797828		
ENSG00000124920	571.5681086	496.4822809	763.757014		
293.1790841	281.9484816	157.8629453	610.6024678		
244.3301703	1.323156796	1.47E-06	5.58E-05		MYRF
11	61752642	61788518	+	10680	
protein_coding	myelin regulatory factor [Source:HGNC				
Symbol;Acc:HGNC:1181]	NDT80/PhoG	630	561	657	283
247	183	2.888670327	2.488960758	3.827374539	
1.472404806	1.421585748	0.796729422			
ENSG00000128951	2101.193237	2442.586623		2973.65364	
1594.355514	1421.157326	1115.392286		2505.811167	
1376.968375	0.863924895	1.54E-06		5.84E-05	DUT
15	48331011	48343373	+	3674	
protein_coding	deoxyuridine triphosphatase [Source:HGNC				
Symbol;Acc:HGNC:3078]	-	2316	2760	2558	1539 1245
1293	30.86939277	35.59560435		43.31798382	
23.27616952	20.82943835	16.36403467			
ENSG00000142185	74.39457921	87.61452016		156.9363727	
10.35968495	17.12237742	0	106.3151574	9.160687457	
3.567370168	1.56E-06		5.90E-05	TRPM2	21
44350163	44443081	+	6705	protein_coding	
transient receptor potential cation channel subfamily M member					
2 [Source:HGNC	Symbol;Acc:HGNC:12339]	-	82	99	135
10	15	0	0.598885439	0.699621026	
1.252684873	0.082873038	0.137511759	0		
ENSG00000198157	577.9188653	465.5074505		428.9594188	
268.3158402	144.9694622	117.3189102		490.7952449	
176.8680708	1.474470234	1.59E-06		6.00E-05	HMGNS
X	81113701	81201942		-	2416
protein_coding	high mobility group nucleosome binding domain 5				

[Source:HGNC Symbol;Acc:HGNC:8013]	-	637	526	369
259	127 136	12.91133608	10.31609315	
9.502465091	5.956825497	3.231127914	2.617417469	
ENSG00000163156	1015.213831	1111.553912	1245.028557	
1636.830222	2043.270372	2150.55914	1123.9321	
1943.553245	-0.790908141	1.59E-06	6.01E-05	SCNM1
1	151156664	151170297	+ 3265	
protein_coding	sodium channel modifier 1 [Source:HGNC			
Symbol;Acc:HGNC:23136]	-	1119 1256	1071 1580	1790
2493	16.78323148	18.22774291	20.40859615	
26.88969926	33.6990149	35.50341353		
ENSG00000179772	48.0843012	10.61994184	40.68720775	0
0	0 33.13048359	0	7.481805536	
1.65E-06	6.20E-05	FOXS1 20	31844301	
31845619	- 1319	protein_coding	forkhead box S1	
[Source:HGNC Symbol;Acc:HGNC:3735]	Fork	53	12	35
0	0 0	1.967703951	0.43108498	
1.650935459	0 0	0		
ENSG00000114315	382.8599076	212.3988367	415.009519	
80.8055426	115.2906746	135.4343301	336.7560878	
110.5101825	1.604465011	1.65E-06	6.20E-05	HES1
3	194136145	194138732	+ 2062	
protein_coding	hes family bHLH transcription factor 1 [Source:HGNC			
Symbol;Acc:HGNC:5192]	bHLH	422 240	357 78	101
157	10.02195558	5.515044507	10.77175338	
2.101928725	3.010787283	3.540315851		
ENSG00000167703	68.04382245	92.03949592	162.748831	
11.39565344	18.26386925	21.56597613	107.6107165	
17.07516628	2.648266592	1.77E-06	6.63E-05	
SLC43A2 17	1569267 1628886	- 10606	protein_coding	solute
carrier family 43 member 2 [Source:HGNC	Symbol;Acc:HGNC:23087]	-		
75	104 140	11 16	25	0.346288703
0.464630973	0.821264895	0.057630595	0.092729031	
0.109602233				
ENSG00000176136	17.23776835	11.50493699	5.812458249	
46.61858227	97.02680539	139.7475253	11.51838786	
94.46430433	-3.021928092	1.80E-06	6.72E-05	MC5R
18	13824149	13827323	+ 1906	
protein_coding	melanocortin 5 receptor [Source:HGNC			
Symbol;Acc:HGNC:6933]	-	19 13	5 45	85
162	0.48815685	0.323181801	0.163212702	
1.311902806	2.74121683	3.952056423		
ENSG00000197256	3160.862365	2948.80385	3788.560287	
2094.728297	1950.809534	1256.865089	3299.408834	
1767.46764	0.900939043	1.81E-06	6.75E-05	KANK2
19	11164267	11197791	- 7638	
protein_coding	KN motif and ankyrin repeat domains 2 [Source:HGNC			
Symbol;Acc:HGNC:29300]	-	3484 3332	3259 2022	1709
1457	22.33711992	20.67053796	26.5467618	
14.7100294	13.75339034	8.869740539		

ENSG00000158402	220.4619847	170.8040646	301.0853373	
65.26601518	86.75337894	37.09347895	230.7837955	
63.03762436	1.87790191	1.82E-06	6.77E-05	CDC25C
5	138285265	138338355	- 3338	
protein_coding	cell division cycle 25C [Source:HGNC			
Symbol;Acc:HGNC:1727]	-	243 193	259 63	76
43	3.564910449	2.739664722	4.827477723	
1.048736204	1.399505534	0.598981131		
ENSG00000105373	4525.367818	5418.825323	5696.209084	
7040.441891	9042.898263	10165.33851	5213.467408	
8749.559555	-0.74716208	1.84E-06	6.85E-05	NOP53
19	47745522	47757058	+ 5341	
protein_coding	NOP53 ribosome biogenesis factor [Source:HGNC			
Symbol;Acc:HGNC:4333]	-	4988 6123	4900 6796	7922
11784	45.73330108	54.32104578	57.07952477	
70.70381305	91.17160921	102.5890892		
ENSG00000187601	114.3136217	115.9343651	58.12458249	
315.9703909	230.5813493	339.8797838	96.12418976	
295.4771747	-1.615076107	1.96E-06	7.25E-05	MAGEH1
X	55452105	55453566	+ 1462	
protein_coding	MAGE family member H1 [Source:HGNC			
Symbol;Acc:HGNC:24092]	-	126 131	50 305	202
394	4.220382913	4.245710363	2.127793502	
11.59216383	8.492808999	12.53083084		
ENSG00000092841	4808.43012	6822.427635	8093.266867	
3329.602743	4222.378272	3319.435046	6574.708207	
3623.805354	0.859420001	1.96E-06	7.25E-05	MYL6
12	56158161	56163496	+ 4609	
protein_coding	myosin light chain 6 [Source:HGNC			
Symbol;Acc:HGNC:7587]	-	5300 7709	6962 3214	3699
3848	56.31159712	79.25337731	93.97972231	
38.74817103	49.33157523	38.82034345		
ENSG00000167549	156.9544171	175.2290403	94.16182364	
43.51067679	25.11282022	23.29125422	142.1150937	
30.63825041	2.218024511	1.97E-06	7.25E-05	COR06
17	29614756	29622907	- 4321	
protein_coding	coronin 6 [Source:HGNC Symbol;Acc:HGNC:21356]			-
173	198 81	42 22	27	1.960606871
	2.171237668	1.166292812	0.540103595	0.312957796
	0.290543067			
ENSG00000164877	1316.421152	1439.887114	1145.054275	
661.9838682	803.610247	432.1821617	1300.45418	
632.5920923	1.04184188	1.97E-06	7.25E-05	
MICALL2	1428465 1459502	- 8843	protein_coding	MICAL
like 2 [Source:HGNC	Symbol;Acc:HGNC:29672]			- 1451 1627
985	639 704	501	8.035195929	8.717949897
	6.930163041	4.015256343	4.893509033	2.634323578
ENSG00000120279	10.88701159	2.654985459	3.48747495	
22.79130689	131.2715602	84.53862644	5.676490667	
79.53383119	-3.794748898	1.99E-06	7.33E-05	MYCT1

6	152697895	152724567	+	3030	
protein_coding	MYC target 1 [Source:HGNC Symbol;Acc:HGNC:23172]				
-	12	3	3	22	115 98
0.19393996	0.046914281	0.061600675		0.403452207	
2.332934642	1.503884438				
ENSG00000226674	101.6121082	132.749273		87.18687374	
15.53952742	15.98088559	27.60444945		107.1827516	
19.70828749	2.434168278	2.03E-06		7.43E-05	TEX41
2	144667967	145262988	+	15056	
lincRNA	testis expressed 41 [Source:HGNC Symbol;Acc:HGNC:48667]				-
112	150	75	15	14	32 0.364281487
0.472071839	0.309926352	0.055359696		0.057156521	
0.098826039					
ENSG00000105968	3964.686721	3838.223979		4702.278724	
2896.567912	2496.442628	2422.290439		4168.396475	
2605.100326	0.677979498	2.04E-06		7.49E-05	H2AFV
7	44826791	44848083	-	4749	
protein_coding	H2A histone family member V [Source:HGNC				
Symbol;Acc:HGNC:20664]	-	4370	4337	4045	2796 2187
2808	45.06173933	43.27267006		52.99357311	
32.71500878	28.30700839	27.49324182			
ENSG00000120708	29736.96491	24710.83467		52539.97261	
9104.091133	10591.90267	5268.13665		35662.59073	
8321.376819	2.099541131	2.05E-06		7.51E-05	TGFBI
5	136028895	136063818	+	7810	
protein_coding	transforming growth factor beta induced [Source:HGNC				
Symbol;Acc:HGNC:11771]	-	32777	27922	45196	8788 9279
6107	205.5165736	169.4033248		360.0441946	
62.52461958	73.02936107	36.35866296			
ENSG00000111252	3292.413756	2513.386235		3721.135771	
2169.318028	1471.382967	1400.06317		3175.645254	
1680.254722	0.918264641	2.23E-06		8.14E-05	SH2B3
12	111405948	111451623	+	5682	
protein_coding	SH2B adaptor protein 3 [Source:HGNC				
Symbol;Acc:HGNC:29605]	-	3629	2840	3201	2094 1289
1623	31.27623174	23.68337281		35.05026383	
20.47799778	13.94437483	13.28153615			
ENSG00000170540	3560.052791	2765.609853		3663.011189	
2307.101838	1752.189956	1602.783346		3329.557944	
1887.35838	0.818984203	2.24E-06		8.15E-05	
ARL6IP1	18791667	18801678	-	3666	
protein_coding	ADP ribosylation factor like GTPase 6 interacting				
protein 1 [Source:HGNC Symbol;Acc:HGNC:697]	-			3924	3125
3151	2227	1535	1858	52.41616244	40.39094386
53.47647709	33.75513118	25.73731746		23.56591284	
ENSG00000164032	6020.51741	7587.063448		7560.845691	
4866.979989	4432.412769	3846.507503		7056.142183	
4381.966754	0.687387715	2.28E-06		8.30E-05	H2AFZ
4	99948086	99950388	-	2303	
protein_coding	H2A histone family member Z [Source:HGNC				

Symbol;Acc:HGNC:4741]	-	6636	8573	6504	4698	3883
4459	141.1045841	176.3864935		175.7087711		
113.352504	103.638427	90.0273678				
ENSG00000243742	108.8701159	144.25421		33.71225785		
330.4739499	313.9102527	420.9678541		95.61219457		
355.1173522	-1.886188595	2.29E-06		8.31E-05		
RPLP0P2 11	61615036	61639449		+	3909	
transcribed_processed_pseudogene						
stalk subunit P0 pseudogene 2						
[Source:HGNC Symbol;Acc:HGNC:17960]						
-	120	163	29	319	275	488
1.50329516	1.975824539	0.461571701		4.534579875		
4.324285741	5.804772047					
ENSG00000079616	1543.233893	1526.616639		1841.386773		
907.5084015	1071.860827	699.6002657		1637.079102		
892.9898313	0.875272193	2.41E-06		8.72E-05		KIF22
16	29790719	29805385		+	4312	
protein_coding kinesin family member 22						
[Source:HGNC						
Symbol;Acc:HGNC:6391]	-	1701	1725	1584	876	939
811	19.31764786	18.95556737		22.85510768		
11.28853016	13.38548773	8.745267942				
ENSG00000270872	244.0505098	123.0143263		151.1239145		
37.29486582	46.80116496	50.03306463		172.7295835		
44.70969847	1.949140186	2.42E-06		8.73E-05		
SRGAP2D 1	143975087	144068350		+	1021	
unprocessed_pseudogene SLIT-R0B0 Rho GTPase activating protein 2D						
(pseudogene) [Source:HGNC Symbol;Acc:HGNC:43932]						
139	130	36	41	58	12.90194605	269
6.450828544	7.921810637	1.959245249		2.468342806		
2.641394502						
ENSG00000102038	4436.457224	3136.422823		3981.533901		
2572.309773	1785.293219	1145.584652		3851.471316		
1834.395881	1.070499647	2.44E-06		8.79E-05		
SMARCA1 X	129446501	129523500		-	4363	
protein_coding "SWI/SNF related, matrix associated, actin dependent						
regulator of chromatin, subfamily a, member 1						
[Source:HGNC						
Symbol;Acc:HGNC:11097]"	-	4890	3544	3425	2483	1564
1328	54.8848308	38.48885053		48.84073708		
31.62303511	22.03428162	14.15284923				
ENSG00000210135	493.5445255	525.687121		475.4590848		
687.8830806	1103.822598	1764.959487		498.2302438		
1185.555055	-1.251179976	2.46E-06		8.86E-05		MT-TN
MT	5657	5729	-	73	Mt_tRNA	
mitochondrially encoded tRNA asparagine						
[Source:HGNC						
Symbol;Acc:HGNC:7493]	-	544	594	409	664	967
2046	364.9259297	385.5582725		348.5838759		
505.4256321	814.2372639	1303.20815				
ENSG00000134014	1270.151352	1400.062332		1371.740147		
1893.750409	2311.520952	2487.851007		1347.317944		
2231.040789	-0.727908043	2.49E-06		8.93E-05		ELP3
8	28089673	28191156		+	5390	

protein_coding	elongator acetyltransferase complex subunit 3					
[Source:HGNC Symbol;Acc:HGNC:20696]	-	1400	1582	1180		
1828	2025	2884	12.71943892	13.90734264		
13.62072074	18.84514441	23.09317372	24.87926288			
ENSG00000171848	3549.165779	3197.487488	3732.760688			
2481.144545	1535.306509	1161.974794	3493.137985			
1726.141949	1.017264416	2.53E-06	9.08E-05	RRM2		
2	10120698	10131419	+	5323		
protein_coding	ribonucleotide reductase regulatory subunit M2					
[Source:HGNC Symbol;Acc:HGNC:10452]	-	3912	3613	3211		
2395	1345	1347	35.98910641	32.16162148		
37.53104751	25.00121387	15.53149204	11.76636043			
ENSG00000178343	69.85832438	44.24975766	61.61205744			
5.179842475	5.707459141	0	58.57337983	3.629100538		
4.061754817	2.54E-06	9.09E-05	SHISA3	4		
42397839	42402487	+	1971	protein_coding		
shisa family member 3	[Source:HGNC Symbol;Acc:HGNC:25159]					
-	77	50	53	5	5	
1.913078471	1.202014816	1.673000582	0.140959848			
0.155930381	0					
ENSG00000128564	63.50756762	65.48964133	89.51185704			
165.7549592	202.0440536	412.3414636	72.83635533			
260.0468255	-1.841679545	2.56E-06	9.12E-05	VGF		
7	101162509	101165593	-	2704		
protein_coding	VGF nerve growth factor inducible [Source:HGNC					
Symbol;Acc:HGNC:12684]	-	70	74	77	160	
478	1.267710351	1.296735717	1.771702853		177	
3.287951018	4.023592031	8.219629222				
ENSG00000182158	1691.115801	1085.889053	1677.475451			
954.1269838	432.6254029	420.9678541	1484.826768			
602.5734136	1.301180652	2.59E-06	9.21E-05			
CREB3L2	7	137874979	138002067	-	8788	
protein_coding	cAMP responsive element binding protein 3 like 2					
[Source:HGNC Symbol;Acc:HGNC:23720]	TF_bZIP	1864	1227	1443		
921	379	488	10.38686635	6.615778484		
10.21605281	5.823467091	2.650919391	2.582027075			
ENSG00000125944	6607.508785	6714.458227	6756.401469			
4954.001343	3548.898094	4076.832128	6692.789494			
4193.243855	0.674441944	2.62E-06	9.30E-05	HNRNPR		
1	23303771	23344336	-	8676		
protein_coding	heterogeneous nuclear ribonucleoprotein R [Source:HGNC					
Symbol;Acc:HGNC:5047]	-	7283	7587	5812	4782	
4726	41.10734711	41.43591958	41.67857951		3109	
30.6268317	22.02665446	25.32825046				
ENSG00000161011	7110.12582	8056.995874	8803.549265			
11209.17911	13138.57094	12318.48557	7990.223653			
12222.07854	-0.613287062	2.63E-06	9.33E-05	SQSTM1		
5	179806398	179838078	+	7654		
protein_coding	sequestosome 1 [Source:HGNC Symbol;Acc:HGNC:11280]					
-	7837	9104	7573	10820	11510	
			14280			



50.14066302	56.35990235	61.55826141	78.55084233		
92.43452758	86.75025652				
ENSG00000108107	18769.20798	21485.91233	23772.95424		
28318.19881	36261.77091	37893.14534	21342.69152		
34157.70502	-0.678523984	2.66E-06	9.40E-05		RPL28
19	55385345	55403250	+	6933	
protein_coding	ribosomal protein L28 [Source:HGNC				
Symbol;Acc:HGNC:10330]	-	20688	24278	20450	27335
43927	146.1254935	165.9274151	183.518123		31767
219.0836267	281.6452058	294.605847			
ENSG00000125740	56.24955989	49.55972857	30.2247829		
310.7905485	215.7419555	91.4397388	45.34469045		
205.9907476	-2.17639692	2.70E-06	9.54E-05		FOSB
19	45467995	45475179	+	5553	
protein_coding	"FosB proto-oncogene, AP-1 transcription factor				
subunit [Source:HGNC	Symbol;Acc:HGNC:3797]"	TF_bZIP	62		56
26	300	189	106	0.54675492	0.477844723
0.291308073	3.001965003	2.09209543	0.887583479		
ENSG00000106991	2165.608056	1984.159133	2349.395624		
1304.284335	1327.554996	1435.431371	2166.387605		
1355.756901	0.675550107	2.73E-06	9.60E-05		ENG
9	127815012	127854756	-	3935	
protein_coding	endoglin [Source:HGNC				
Symbol;Acc:HGNC:3349]	-				
2387	2242	2021	1259	1163	1664
26.99711226	31.9542349	17.77841489	18.16696327		
19.66253929					
ENSG00000102054	2786.167717	2582.415857	2931.803941		
1915.505747	1708.813267	1416.453312	2766.795838		
1680.257442	0.719848666	2.79E-06	9.82E-05		RBBP7
X	16839283	16870414	-	7392	
protein_coding	"RB binding protein 7, chromatin remodeling factor				
[Source:HGNC	Symbol;Acc:HGNC:9890]"	-	3071	2918	2522
1849	1497	1642	20.34447756	18.70465793	
21.22706602	13.89911015	12.44821849	10.32861793		
ENSG00000105880	30.84653284	24.77986429	30.2247829		0
0	0	28.61706001	0	7.271518142	
2.87E-06	0.000100621	DLX5	7	97020392	
97024950	-	1748	protein_coding	distal-less homeobox 5	
[Source:HGNC	Symbol;Acc:HGNC:2918]	Homeobox		34	28
26	0	0	0.952502605	0.759002216	
0.925419755	0	0	0		
ENSG00000163376	246.7722627	229.2137447	144.1489646		
504.516657	418.9275009	533.11093	206.7116573		
485.5183626	-1.2289648	2.89E-06	0.000101302		KBTBD8
3	66998307	67011210	+	4736	
protein_coding	kelch repeat and BTB domain containing 8 [Source:HGNC				
Symbol;Acc:HGNC:30691]	-	272	259	124	487
618	2.812457017	2.591281003	1.628984073		367
5.713856263	4.763231954	6.067472261			
ENSG00000184867	623.2814136	585.8667914	548.6960587		

949.9831098	985.1074477	1182.678131	585.9480879	
1039.25623	-0.826744918	2.95E-06	0.00010325	ARMCX2
X	101655281	101659891	- 3589	
protein_coding	armadillo repeat	containing	X-linked 2	[Source:HGNC
Symbol;Acc:HGNC:16869]	-	687 662	472 917	863
1371	9.373719689	8.739990729	8.182299779	
14.19737066	14.78034929	17.76212878		
ENSG00000166845	788.4010894	574.3618544	730.0447561	
417.4953034	291.0804162	269.1433821	697.6025666	
325.9063673	1.098370139	2.97E-06	0.000103773	
C18orf54	18	54357917	54385218	+ 6165
protein_coding	chromosome 18	open reading	frame 54	
[Source:HGNC Symbol;Acc:HGNC:13796]	-	869	649	628
403	255 312	6.902642468	4.988133368	
6.337725272	3.632319221	2.542461936	2.353165818	
ENSG00000005884	10139.4368	9988.055298	14895.00551	
7910.655427	6339.845614	5557.12073	11674.16587	
6602.54059	0.822165867	3.01E-06	0.000104861	ITGA3
17	50055968	50090481	+ 9802	
protein_coding	integrin subunit	alpha 3	[Source:HGNC	
Symbol;Acc:HGNC:6139]	-	11176 11286	12813 7636	5554
6442	55.83421036	54.55716424	81.32853974	
43.28757581	34.82880209	30.55885237		
ENSG00000240694	23.58852512	28.3198449	33.71225785	0
0	0	28.54020929	0	7.267000502
3.02E-06	0.000105014	PNMA2 8	26504686	
26514092	- 5579	protein_coding	PNMA family member 2	
[Source:HGNC Symbol;Acc:HGNC:9159]	-	26	32	29
0	0 0	0.22821578	0.271781604	
0.323406305	0 0	0		
ENSG00000179300	235.8852512	230.0987398	213.8984636	
91.16522755	29.67878753	15.52750281	226.6274848	
45.45717263	2.322450486	3.07E-06	0.000106487	RTL3
X	78656069	78659328	- 2648	
protein_coding	retrotransposon	Gag like 3	[Source:HGNC	
Symbol;Acc:HGNC:22997]	-	260 260	184 88	26
18	4.808216902	4.652451002	4.323213553	
1.846616599	0.603535371	0.316071649		
ENSG00000179115	5573.242684	6981.726763	6112.381095	
8194.510795	10750.57004	12515.16727	6222.450181	
10486.74937	-0.753058879	3.08E-06	0.000106487	FARSA
19	12922479	12934037	- 2435	
protein_coding	phenylalanyl-tRNA	synthetase	subunit alpha	
[Source:HGNC Symbol;Acc:HGNC:3592]	-	6143	7889	5258
7910	9418 14508	123.5407499	153.5145102	
134.3471515	180.5051352	237.7426399	277.0381634	
ENSG00000198938	36929.65057	43347.94759	32729.9524	
48624.21728	69505.43742	72740.31221	37669.18352	
63623.3223	-0.756152343	3.11E-06	0.000107333	MT-C03
MT	9207 9990	+ 784	protein_coding	

mitochondrially encoded cytochrome c oxidase III [Source:HGNC Symbol;Acc:HGNC:7422]	-	40705	48981	28155	46936	60890
84323	2542.496595	2960.315681		2234.324849		
3326.611283	4773.943465	5001.04779				
ENSG00000078053	465.4197455	351.3430758		499.8714095		
218.5893524	196.3365944	149.2365548		438.8780769		
188.0541672	1.223806456	3.13E-06		0.000107828		AMPH
7	38383704	38631567		-	5636	
protein_coding amphiphysin [Source:HGNC Symbol;Acc:HGNC:471]	-					
513	397	430	211	172	173	4.457332831
3.337689736	4.746836988	2.080288242				1.875879005
1.427269998						
ENSG00000240342	5478.888584	5899.377691		6435.553774		
8202.798543	9125.085674	9451.07338		5937.940016		
8926.319199	-0.588291024	3.20E-06		0.000110011		RPS2P5
12	118246084	118246962		+	879	
processed_pseudogene ribosomal protein S2 pseudogene 5 [Source:HGNC Symbol;Acc:HGNC:31386]	-	6039	6666	5536	7918	7994
10956	336.4378416	359.3377756		391.8447686		
500.5398579	559.0139286	579.5543457				
ENSG00000083223	838.2998926	996.5045424		695.1700066		
1282.528997	1618.635412	1729.591286		843.3248139		
1543.585232	-0.87123528	3.27E-06		0.000112325		TUT7
9	86287733	86354454		-	6707	
protein_coding terminal uridylyl transferase 7 [Source:HGNC Symbol;Acc:HGNC:25817]	-	924	1126	598	1238	1418
2005	6.746404056	7.954932978		5.54727536		
10.25662275	12.99556856	13.90007325				
ENSG00000165805	4.53625483	4.424975766		17.43737475		
40.4027713	97.02680539	115.5936321		8.799535115		
84.34106959	-3.296618021	3.29E-06		0.000112651		
C12orf50	12	87980035	88034037	-		5609
protein_coding chromosome 12 open reading frame 50 [Source:HGNC Symbol;Acc:HGNC:26665]	-			5	5	15
39	85	134	0.043652915	0.042238745		
0.166384423	0.386359158	0.931495682		1.110837101		
ENSG00000155090	1989.601368	1940.794371		2187.809285		
2805.402684	3443.880846	3453.144098		2039.401675		
3234.142543	-0.665597642	3.44E-06		0.000117585		KLF10
8	102648779	102655902		-	4003	
protein_coding Kruppel like factor 10 [Source:HGNC Symbol;Acc:HGNC:11810]	zf-C2H2	2193	2193	1882	2708	3017
4003	26.82759399	25.95849337		29.25101063		
37.5902413	46.32730965	46.4976515				
ENSG00000176393	1332.751669	1269.08305		1598.426019		
859.8538508	837.8550019	776.3751407		1400.086912		
824.6946645	0.763254443	3.47E-06		0.00011861		RNPEP
1	201982372	202006147		+	3479	
protein_coding arginyl aminopeptidase [Source:HGNC Symbol;Acc:HGNC:10078]	-	1469	1434	1375	830	734

900	20.67740578	19.53085085	24.58980677		
13.25670852	12.96847745	12.02871122			
ENSG00000144893	39.01179154	30.97483036	16.2748831	0	
0	0	28.753835	0	7.281136132	
3.52E-06	0.000119801	MED12L	3	151085697	
151437072	+	12619	protein_coding	mediator complex	
subunit 12 like	[Source:HGNC Symbol;Acc:HGNC:16050]	-			43
35	14	0	0	0.166867669	
0.131422446	0.069025561	0	0	0	
ENSG00000183963	970.7585336	1056.684213	900.9310287		
1404.773279	1700.822824	2106.564549	976.1245917		
1737.386884	-0.831802648	3.53E-06	0.000119801		SMTN
22	31064105	31104757	+	10242	
protein_coding	smoothelin	[Source:HGNC Symbol;Acc:HGNC:11126]	-		
1070	1194	775	1356	1490	2442
5.523902394	4.707862581	7.356766326	8.942292205		
11.08643477					
ENSG00000131171	1655.733013	1503.606765	2100.622411		
1090.874825	953.1456765	995.4854582	1753.32073		
1013.168653	0.7904343	3.53E-06	0.000119801		
SH3BGR1 X	81201943	81298547	+	2304	
protein_coding	SH3 domain binding glutamate rich protein like				
[Source:HGNC Symbol;Acc:HGNC:10823]	-	1825	1699		1807
1053	835	1154	38.78904414	34.9411621	
48.79580919	25.39556855	22.27672589	23.28918829		
ENSG00000179598	185.0791971	147.7941906	90.67434869		
257.9561552	504.5393881	471.8635578	141.1825788		
411.4530337	-1.539389018	3.54E-06	0.000119907		PLD6
17	17200995	17206315	-	2560	
protein_coding	phospholipase D family member 6	[Source:HGNC			
Symbol;Acc:HGNC:30447]	-	204	167	78	249
547	3.902284112	3.091028054	1.89566453		442
5.404697921	10.61279228	9.935240379			
ENSG00000255248	851.0014061	817.7355215	978.8179692		
1519.765782	1424.581802	1425.942342	882.5182989		
1456.763308	-0.723941715	3.56E-06	0.000120407		
MIR100HG	11	122028327	122556721	-	19385
processed_transcript		mir-100-let-7a-2-mir-125b-1 cluster			
host gene	[Source:HGNC Symbol;Acc:HGNC:39522]	-	938	924	
842	1467	1248	1653	2.369549124	2.258565067
2.702421782	4.205100233	3.957274169	3.964953208		
ENSG00000101224	1886.174758	1792.115185	2019.247996		
1340.543232	1013.644743	937.6886422	1899.179313		
1097.292206	0.791575171	3.68E-06	0.000124365		CDC25B
20	3786772	3806121	+	4314	protein_coding
division cycle 25B	[Source:HGNC Symbol;Acc:HGNC:1726]	-			cell
2025	1737	1294	888	1087	23.59951252
22.24187151	25.05108406	16.66733557	12.65261185		
11.71602855					
ENSG00000136167	3140.902844	3018.718467	2093.647461		

5180.878443	4295.433749	4602.179307	2751.089591	
4692.8305	-0.769933821	3.70E-06	0.000124629	LCP1
13	46125920	46211871	- 5061	
protein_coding	lymphocyte cytosolic protein 1 [Source:HGNC			
Symbol;Acc:HGNC:6528]	-	3462 3411	1801 5001	3763
5335	33.498041	31.93536049	22.14033675	
54.9076126	45.70305605	49.01501102		
ENSG00000196422	605.1363943	592.0617574	874.1937207	
394.7039966	297.9293672	268.2807431	690.4639575	
320.3047023	1.107651923	3.75E-06	0.000126239	
PPP1R26 9	135479079	135488893	+ 5276	
protein_coding	protein phosphatase 1 regulatory subunit 26			
[Source:HGNC Symbol;Acc:HGNC:29089]	-	667	669	752
381	261 311	6.190842147	6.008246909	
8.867881893	4.012658796	3.040766561	2.740858532	
ENSG00000164535	717.6355141	931.0149011	710.2823981	
1121.95388	1724.794152	1626.0746	786.3109378	
1490.940878	-0.922437954	3.80E-06	0.00012746	DAGLB
7	6409126 6484190	- 5756	protein_coding	
diacylglycerol lipase beta [Source:HGNC Symbol;Acc:HGNC:28923]	-			
791	1052 611	1083 1511	1885 6.72952455	
8.660069859	6.60430728	10.45489595	16.13581995	
15.22725384				
ENSG00000210082	103109.0723	112828.9171	69184.52805	
200352.163	270071.2591	393152.0581	95040.83913	
287858.4934	-1.59873815	3.97E-06	0.000132822	MT-
RNR2 MT	1671 3229	+ 1559	Mt_rRNA	
mitochondrially	encoded 16S RNA [Source:HGNC Symbol;Acc:HGNC:7471]			
-	113650 127491	59514 193396	236595 455755	
3569.866772	3874.894238	2375.088911	6893.081538	
9328.39242	13593.03217			
ENSG00000180340	1046.967615	1156.688665	1297.340681	
753.1490958	630.1034892	605.5726098	1166.998987	
662.9417316	0.815633499	3.97E-06	0.000132822	FZD2
17	44557459	44559570	+ 2112	
protein_coding	frizzled class receptor 2 [Source:HGNC			
Symbol;Acc:HGNC:4040]	-	1154 1307	1116 727	552
702	26.75719468	29.3229807	32.87586038	
19.12725028	16.06543628	15.4551853		
ENSG00000115216	2441.412349	2664.720406	2657.455912	
3279.876255	5285.107164	4878.223801	2587.862889	
4481.069073	-0.792117902	4.10E-06	0.000136734	NRBP1
2	27427790	27442259	+ 5329	
protein_coding	nuclear receptor binding protein 1 [Source:HGNC			
Symbol;Acc:HGNC:7993]	-	2691 3011	2286 3166	4630
5655	24.72843666	26.77265713	26.68931039	
33.01241028	53.4050875	49.34213159		
ENSG00000111716	476.3067571	753.1308753	731.2072478	
231.0209744	305.91981	347.6435352	653.5482934	
294.8614399	1.146828731	4.18E-06	0.000139231	LDHB

12	21635342	21757857	-	2983	
protein_coding	lactate dehydrogenase B [Source:HGNC				
Symbol;Acc:HGNC:6541]	-	525	851	629	223
403	8.61856048	13.51769825	13.11910593		268
4.153972847	5.522413231	6.281781279			
ENSG00000102595	547.9795835	423.0276832	518.4712759		
256.9201867	235.1473166	144.0607206	496.4928475		
212.0427413	1.230034944	4.29E-06	0.000142799		UGGT2
13	95801580	96053482	-	8105	
protein_coding	UDP-glucose glycoprotein glucosyltransferase 2				
[Source:HGNC	Symbol;Acc:HGNC:15664]	-	604	478	446
248	206	167	3.64932551	2.794482011	
3.423644685	1.700241864	1.562289671	0.958063887		
ENSG00000142156	26517.13123	30917.30567	51178.69489		
12966.18168	13119.16558	8346.032763	36204.37726		
11477.12668	1.657413861	4.40E-06	0.000145959		COL6A1
21	45981737	46005050	+	5343	
protein_coding	collagen type VI alpha 1 chain [Source:HGNC				
Symbol;Acc:HGNC:2211]	-	29228	34935	44025	12516
9675	267.8814296	309.8146957	512.6500889		11493
130.1644609	132.219525	84.19703879			
ENSG00000158301	438.2022166	487.6323294	417.3345023		
746.9332848	858.4018548	810.0180635	447.7230161		
805.1177344	-0.845621371	4.43E-06	0.000146597		
GPRASP2 X	102712176	102717733	+	3975	
protein_coding	G protein-coupled receptor associated sorting protein				
2 [Source:HGNC	Symbol;Acc:HGNC:25169]	-	483	551	359
721	752	939	5.950297519	6.568117397	
5.619066375	10.07883129	11.62861703	10.98397352		
ENSG00000141456	2136.576025	2367.362035	2087.835003		
3031.243816	3494.106486	4160.508115	2197.257688		
3561.952806	-0.697030205	4.47E-06	0.000147885		PELP1
17	4669774	4704337	-	6577	
protein_coding	"proline, glutamate and leucine rich protein 1				
[Source:HGNC	Symbol;Acc:HGNC:30134]"	-	2355	2675	1796
2926	3061	4823	17.53443406	19.27180468	
16.9896854	24.72057246	28.60769375	34.09733514		
ENSG00000102317	3490.194466	4032.922913	4218.682197		
2748.424417	2465.622349	2311.010002	3913.933192		
2508.352256	0.64187206	4.48E-06	0.000147932		RBM3
X	48574449	48579066	+	3731	
protein_coding	RNA binding motif protein 3 [Source:HGNC				
Symbol;Acc:HGNC:9900]	-	3847	4557	3629	2653
2679	50.49235428	57.87356296	60.5157703		2160
39.51154796	35.58572861	33.38708345			
ENSG00000176171	2025.891407	2485.06639	2669.080828		
3767.817416	3810.299722	3723.150119	2393.346208		
3767.089086	-0.654780694	4.49E-06	0.000147932		BNIP3
10	131966455	131982013	-	5325	
protein_coding	BCL2 interacting protein 3 [Source:HGNC				

Symbol;Acc:HGNC:1084]	-	2233	2808	2296	3637	3338
4316	20.53514598	24.98641404		26.82619754		
37.95209309	38.53133714	37.68711059				
ENSG00000136891	1445.250789	1393.867366		1205.503841		
2035.678092	2082.081095	2439.54322		1348.207332		
2185.767469	-0.696845617	4.57E-06		0.000150049		TEX10
9	100302077	100352939		-	7261	
protein_coding	testis expressed 10	[Source:HGNC				
Symbol;Acc:HGNC:25988]	-	1593	1575	1037	1965	1824
2828	10.74355528	10.27804612		8.885649255		
15.0375873	15.44101189	18.10981386				
ENSG00000165996	430.9442088	388.5128722		425.4719439		
219.6253209	190.6291353	140.6101644		414.9763416		
183.6215402	1.178503265	4.57E-06		0.000150049		HACD1
10	17589032	17617377		-	3857	
protein_coding	3-hydroxyacyl-CoA dehydratase 1	[Source:HGNC				
Symbol;Acc:HGNC:9639]	-	475	439	366	212	167
163	6.030768452	5.39313538		5.903890488		
3.054205576	2.661424757	1.965029089				
ENSG00000164692	15423.26642	12104.07871		26574.55912		
5643.95636	5142.420686	3047.703747		18033.96808		
4611.360264	1.967480822	4.60E-06		0.000150754		COL1A2
7	94394561	94431232		+	11156	
protein_coding	collagen type I alpha 2 chain	[Source:HGNC				
Symbol;Acc:HGNC:2198]	-	17000	13677	22860	5448	4505
3533	74.62238053	58.09099057		127.4895438		
27.13567549	24.8218216	14.72536776				
ENSG00000164294	1312.792148	1368.202507		1394.98998		
928.2277714	752.2431148	654.7430354		1358.661545		
778.4046405	0.804151856	4.64E-06		0.000151782		GPX8
5	55160118	55167071		+	3868	
protein_coding	glutathione peroxidase 8 (putative)	[Source:HGNC				
Symbol;Acc:HGNC:33100]	-	1447	1546	1200	896	659
759	18.31937907	18.93866949		19.3019696		
12.8716312	10.47240211	9.124022101				
ENSG00000144741	544.3505796	584.0968011		464.99666		
930.2997084	933.7403154	936.8260032		531.1480135		
933.622009	-0.812414282	4.67E-06		0.000152379		
SLC25A26	3	66133610	66388116	+		5850
protein_coding	solute carrier family 25 member 26	[Source:HGNC				
Symbol;Acc:HGNC:20661]	-			600	660	400
898	818	1086	5.022547675	5.345822201		
4.254132103	8.529675596	8.594978562		8.631871714		
ENSG00000197321	1222.974302	1238.993214		1599.58851		
910.616307	609.5566362	542.5999595		1353.852009		
687.5909676	0.977444274	4.70E-06		0.00015324		SVIL
10	29457338	29736781		-	9937	
protein_coding	supervillin	[Source:HGNC				
Symbol;Acc:HGNC:11480]	-					
1348	1400	1376	879	534	629	6.642985216
6.675736508		8.615291782		4.915250193		3.303188268

2.943244721				
ENSG00000242802	1439.807283	1711.580626	1338.027889	
2042.929872	2695.062206	3464.358406	1496.471933	
2734.116828	-0.869464843	4.83E-06	0.000157187	AP5Z1
7	4775615	4794395	+ 8396	protein_coding
adaptor related protein complex 5 subunit zeta 1 [Source:HGNC				
Symbol;Acc:HGNC:22197]	-	1587	1934	1151 1972
4016	9.256209601	10.91466676	8.529228322	2361
13.05108218	17.28506103	22.24089667		
ENSG00000204713	2005.931886	2025.753905	1862.311623	
2623.072229	3658.481309	3328.061437	1964.665805	
3203.204992	-0.704962159	4.87E-06	0.000157865	TRIM27
6	28903002	28923989	- 7986	
protein_coding tripartite motif containing 27 [Source:HGNC				
Symbol;Acc:HGNC:9975]	-	2211	2289	1602 2532
3858	13.55776557	13.58134957	12.48073185	3205
17.61758758	24.66869004	22.46280234		
ENSG00000127152	41.73354444	90.26950562	74.39946559	
121.2083139	287.6559407	411.4788246	68.80083855	
273.4476931	-1.9925284	4.87E-06	0.000157865	BCL11B
14	99169287	99271524	- 7855	
protein_coding B cell CLL/lymphoma 11B [Source:HGNC				
Symbol;Acc:HGNC:13222]	zf-C2H2	46	102	64 117
477	0.286774364	0.615290803	0.506921407	252
0.827659522	1.971976393	2.823600225		
ENSG00000104142	1064.205383	1046.064271	893.9560788	
1362.298571	1878.895549	2610.345751	1001.408578	
1950.51329	-0.961887563	5.01E-06	0.000161889	VPS18
15	40894430	40903975	+ 4049	
protein_coding "VPS18, CORVET/HOPS core subunit [Source:HGNC				
Symbol;Acc:HGNC:15972]"	-	1173	1182	769 1315
3026	14.18661944	13.83235545	11.81640614	1646
18.04637675	24.98788015	34.74978845		
ENSG00000185085	1011.584827	1370.857492	1210.153808	
1801.549213	1977.063846	2633.637005	1197.532042	
2137.416688	-0.836246449	5.02E-06	0.000161889	INTS5
11	62646848	62653302	- 3285	
protein_coding integrator complex subunit 5 [Source:HGNC				
Symbol;Acc:HGNC:29352]	-	1115	1549	1041 1739
3053	16.62142204	22.3430514	19.71615402	1732
29.41550114	32.4085704	43.2137991		
ENSG00000077152	1000.697815	1100.048975	1153.191717	
625.7249709	683.7536051	610.7484441	1084.646169	
640.0756734	0.761114051	5.03E-06	0.000162176	UBE2T
1	202331657	202341980	- 1652	
protein_coding ubiquitin conjugating enzyme E2 T [Source:HGNC				
Symbol;Acc:HGNC:25009]	-	1103	1243	992 604
708	32.69596449	35.65229788	37.36013835	599
20.31603439	22.28764284	19.92756493		
ENSG00000171724	364.7148883	431.8776347	291.7854041	



660.9478997	940.5892664	655.6056744	362.7926424	
752.3809469	-1.049654558	5.13E-06	0.00016492	VAT1L
16	77788530	77980107	+ 4137	
protein_coding	vesicle amine transport 1 like	[Source:HGNC		
Symbol;Acc:HGNC:29315]	-	402 488	251 638	824
760	4.7584906	5.589342746	3.774809568	
8.569336588	12.24303387	8.541990607		
ENSG0000052749	3990.996999	4671.889413	3921.084335	
5410.863449	7376.320194	8124.334528	4194.656916	
6970.506057	-0.732676954	5.26E-06	0.00016878	RRP12
10	97356358	97426076	- 8529	
protein_coding	ribosomal RNA processing 12 homolog	[Source:HGNC		
Symbol;Acc:HGNC:29100]	-	4399 5279	3373 5223	6462
9418	25.25716091	29.32783393	24.60509654	
34.02780654	46.5710682	51.34422345		
ENSG00000171320	1183.962511	899.1550756	886.9811289	
636.0846559	301.3538426	399.401878	990.032905	
445.6134588	1.151579254	5.32E-06	0.000170498	ESC02
8	27771949	27812640	+ 7973	
protein_coding	establishment of sister chromatid cohesion N-			
acetyltransferase 2 [Source:HGNC	Symbol;Acc:HGNC:27230]	-		1305
1016	763 614	264 463	8.015256614	
6.038073353	5.954010833	4.279161236	2.03530511	
2.700164636				
ENSG00000100335	1744.643608	1833.709957	1549.601369	
2474.928734	2628.85568	3288.380041	1709.318311	
2797.388152	-0.71061795	5.40E-06	0.000172715	MIEF1
22	39499432	39518132	+ 7555	
protein_coding	mitochondrial elongation factor 1	[Source:HGNC		
Symbol;Acc:HGNC:25979]	-	1923 2072	1333 2389	2303
3812	12.46446089	12.99516276	10.97747679	
17.57088858	18.7372922	23.46115784		
ENSG00000106799	1755.530619	1923.094468	2150.609552	
1343.651138	920.0424135	1098.139505	1943.078213	
1120.611019	0.79344982	5.43E-06	0.000173255	TGFBR1
9	99104038	99154192	+ 6844	
protein_coding	transforming growth factor beta receptor 1	[Source:HGNC		
Symbol;Acc:HGNC:11772]	-	1935 2173		1850
1297	806 1273	13.84521334	15.04444484	
16.8177764	10.53033091	7.238897065	8.648671882	
ENSG00000168528	648.6844407	472.5874118	432.4468938	
226.8771004	279.6654979	173.3904481	517.9062487	
226.6443488	1.195749483	5.49E-06	0.000174917	
SERINC2 1	31409565	31434680	+ 3549	
protein_coding	serine incorporator 2 [Source:HGNC			
Symbol;Acc:HGNC:23231]	-	715 534	372 219	245
201	9.865718647	7.129543095	6.521444268	
3.428863204	4.243336228	2.63342574		
ENSG00000156976	8719.589034	8302.139531	8340.877588	
11629.78232	12105.52084	12328.83724	8454.202051	

12021.38013	-0.507859569	5.56E-06	0.000176785	EIF4A2
3	186783205	186789900	+ 6133	
protein_coding	eukaryotic translation initiation factor 4A2			
[Source:HGNC Symbol;Acc:HGNC:3284]	-	9611	9381	7175
11226	10605	14292	76.74044197	72.47740112
72.78732975	101.7101083	106.2882039	108.3555251	
ENSG0000040275	1400.795491	1063.764174	1150.866733	
815.3072055	472.5776169	501.1932853	1205.142133	
596.3593692	1.015182721	5.58E-06	0.000177258	SPDL1
5	169583634	169604778	+ 4777	
protein_coding	spindle apparatus coiled-coil protein 1 [Source:HGNC			
Symbol;Acc:HGNC:26010]	-	1544	1202	990 787 414
581	15.82780672	11.92272885	12.89397429	
9.154434776	5.327119756	5.655251313		
ENSG00000186472	259.4737763	200.8938998	54.63710754	
988.3139441	1195.141944	1782.212268	171.6682612	
1321.889385	-2.943368059	5.67E-06	0.000179476	PCL0
7	82754013	83162930	- 22873	
protein_coding	piccolo presynaptic cytomatrix protein [Source:HGNC			
Symbol;Acc:HGNC:13406]	-	286	227	47 954 1047
2066	0.612310331	0.470250394	0.12784436	
2.317593629	2.813655435	4.199892799		
ENSG00000184613	12.70151352	4.424975766	88.34936539	0
0	0	35.15861823	0	7.563420804
5.67E-06	0.000179476	NELL2	12	44508275
44921848	- 6424	protein_coding	neural EGFL like 2	
[Source:HGNC Symbol;Acc:HGNC:7751]	-	14	5	76
0	0	0	0.10672132	0.03688 0.736062863
0	0	0		
ENSG00000239264	569.7536066	554.0069659	503.3588844	
282.8193991	179.214217	291.5719973	542.3731523	
251.2018711	1.10832508	5.73E-06	0.000181001	TXNDC5
6	7881517	7910814	- 4387	protein_coding
thioredoxin domain containing 5	[Source:HGNC Symbol;Acc:HGNC:21073]			
-	628	626	433	273 157 338
7.010043176	6.761345671	6.140830478	3.457857217	
2.199780653	3.582449557			
ENSG00000157227	15906.83119	18162.75553	27596.38928	
12497.92392	12444.54391	9364.809476	20555.32533	
11435.7591	0.845943955	5.75E-06	0.000181198	MMP14
14	22836557	22849027	+ 4464	
protein_coding	matrix metalloproteinase 14 [Source:HGNC			
Symbol;Acc:HGNC:7160]	-	17533	20523	23739 12064 10902
10856	192.3360667	217.8427446	330.8606214	
150.1686188	150.1168186	113.077622		
ENSG00000231925	2662.781585	2606.310726	3495.612391	
1810.872929	1385.771079	1900.393817	2921.568234	
1699.012608	0.78111376	5.77E-06	0.000181498	TAPBP
6	33299694	33314387	- 5056	
protein_coding	TAP binding protein [Source:HGNC			

Symbol;Acc:HGNC:11566]	-	2935	2945	3007	1748	1214	
2203	28.42691454	27.59971991		37.00268251			
19.21084229	14.75906963	20.25995377					
ENSG00000178896	910.8799698	1436.347134		1182.254008			
1657.549592	2298.964542	3065.819167		1176.493704			
2340.777767	-0.992783582	5.86E-06		0.000184046		EXOSC4	
8	144078626	144080647		+ 1407			
protein_coding	exosome component 4 [Source:HGNC						
Symbol;Acc:HGNC:18189]	-	1004	1623	1017	1600	2014	
3554	34.94365259	54.65763841		44.97111983			
63.18848296	87.98582873	117.4503578					
ENSG00000214063	949.8917614	955.7947654		1329.890447			
617.437223	603.8491771	549.5010718		1078.525658			
590.2624906	0.869013926	5.95E-06		0.000186696		TSPAN4	
11	842808	867116	+ 5841	protein_coding			
tetraspanin 4 [Source:HGNC	Symbol;Acc:HGNC:11859]					-	1047
1080	1144	596	529	637	8.777850078		
8.761187807	12.18556484	5.669843834		5.566930841			
5.07087896							
ENSG00000167601	10785.39948	9111.910097		9790.504675			
4200.852247	2199.654753	1696.811002		9895.938085			
2699.106001	1.874418195	6.18E-06		0.00019345		AXL	
19	41219203	41261766		+ 5154			
protein_coding	AXL receptor tyrosine kinase [Source:HGNC						
Symbol;Acc:HGNC:905]	-	11888	10296	8422	4055	1927	
1967	112.9517765	94.65652582		101.6664524			
43.71781903	22.9818328	17.74561127					
ENSG00000151348	1907.948781	1906.27956		2822.529726			
1230.730572	1260.206978	1314.661905		2212.252689			
1268.533152	0.80152878	6.20E-06		0.000193861		EXT2	
11	44095549	44245429		+ 5286			
protein_coding	exostosin glycosyltransferase 2 [Source:HGNC						
Symbol;Acc:HGNC:3513]	-	2103	2154	2428	1188	1104	
1524	19.48232561	19.30834193		28.57777221			
12.48824256	12.83776066	13.40567932					
ENSG00000270647	2973.968666	3847.958926		4031.521042			
2341.288798	2313.803936	2097.075519		3617.816211			
2250.722751	0.684697068	6.24E-06		0.000194554		TAF15	
17	35713791	35864615		+ 5909			
protein_coding	TATA-box binding protein associated factor 15						
[Source:HGNC	Symbol;Acc:HGNC:11547]					-	3278
2260	2027	2431	27.16587155	34.8659888	4348	3468	
36.51505385	21.25232716	21.08565609		19.12942813			
ENSG00000197299	761.1835605	607.106675		734.6947227			
363.6249417	376.6923033	395.0886827		700.9949861			
378.4686426	0.888482162	6.27E-06		0.000195311		BLM	
15	90717327	90816165		+ 6674			
protein_coding	Bloom syndrome RecQ like helicase [Source:HGNC						
Symbol;Acc:HGNC:1058]	-	839	686	632	351	330	
458	6.156082652	4.870396899		5.891660627			

2.922354906	3.039310691	3.190878691			
ENSG00000152377	1860.771731	1415.992245	2553.994155		
1217.262982	918.9009217	683.2101239	1943.586044		
939.7913423	1.04834614	6.38E-06	0.000198229	SPOCK1	
5	136975298	137598379	- 6222		
protein_coding	"SPARC (osteonectin), cwcv and kazal like domains				
proteoglycan 1	[Source:HGNC Symbol;Acc:HGNC:11251]"			-	2051
1600	2197 1175	805 792	16.14225996		
12.18474421	21.96882841	10.4934888	7.952674985		
5.918698166					
ENSG00000162244	17233.2321	21877.96518	22269.85254		
29672.20963	32501.69682	30522.75734	20460.34994		
30898.88793	-0.594754223	6.40E-06	0.000198606	RPL29	
3	51993522	51995942	- 2058		
protein_coding	ribosomal protein L29 [Source:HGNC				
Symbol;Acc:HGNC:10331]	-	18995 24721	19157 28642	28473	
35383	451.9835314	569.1766891	579.1472192		
773.3391801	850.4234319	799.4297391			
ENSG00000108379	352.0133748	361.9630176	427.7969272		
210.3016045	124.4226093	95.75293403	380.5911065		
143.4923826	1.408722051	6.56E-06	0.000203108	WNT3	
17	46762506	46833154	- 4334		
protein_coding	Wnt family member 3 [Source:HGNC				
Symbol;Acc:HGNC:12782]	-	388 409	368 203	109	
111	4.384009657	4.47157832	5.28281933		
2.60267041	1.545912651	1.190872016			
ENSG00000101161	4715.890521	5386.080502	5304.449398		
6782.485736	8362.569133	8282.197474	5135.473474		
7809.084114	-0.604723143	6.63E-06	0.00020503	PRPF6	
20	63981135	64033100	+ 3044		
protein_coding	pre-mRNA processing factor 6 [Source:HGNC				
Symbol;Acc:HGNC:15860]	-	5198 6086	4563 6547	7326	
9601	83.62195383	94.73571577	93.26370565		
119.5115108	147.9345539	146.6570145			
ENSG00000106070	664.1077071	616.8416217	873.0312291		
372.9486582	406.3710908	316.5885296	717.9935193		
365.3027595	0.975042064	6.69E-06	0.00020608	GRB10	
7	50590063	50793462	- 9795		
protein_coding	growth factor receptor bound protein 10 [Source:HGNC				
Symbol;Acc:HGNC:4564]	-	732 697	751 360	356	
367	3.65961437	3.371745438	4.770263214		
2.04225564	2.234050149	1.742178469			
ENSG00000176994	1310.070395	1228.373273	955.5681362		
1957.980455	1777.302776	2168.67456	1164.670601		
1967.985931	-0.75619286	6.69E-06	0.00020608	SMCR8	
17	18315310	18328055	+ 8279		
protein_coding	"Smith-Magenis syndrome chromosome region, candidate 8				
[Source:HGNC Symbol;Acc:HGNC:17921]"	-		1444 1388	822	
1890	1557 2514	8.541182355	7.943977846		
6.177329703	12.68516046	11.56000682	14.11947045		

ENSG00000114251	2963.988906	2691.270261	5648.546927			
1078.443203	994.2393823	489.9789777	3767.935364			
854.2205211	2.141301143	6.77E-06	0.000208134	WNT5A		
3	55465715	55490539	-	7397		
protein_coding	Wnt family member 5A [Source:HGNC					
Symbol;Acc:HGNC:12784]	-	3267	3041	4859	1041	871
568	21.62829076	19.47992329	40.8693873			
7.820007228	7.237855302	3.570456408				
ENSG00000244586	51.71330506	55.75469465	106.9492318			
11.39565344	4.565967313	0	71.4724105	5.320540252		
3.771463398	6.90E-06	0.000211972	WNT5A-AS1			
3	55487699	55488308	+	500		
antisense	WNT5A antisense RNA 1 [Source:HGNC					
Symbol;Acc:HGNC:40616]	-	57	63	92	11	4
0	5.582561741	5.970311431	11.44786949			
1.222460188	0.49174205	0				
ENSG00000076716	319.35234	489.4023197	447.5592852			
118.1004084	127.8470848	230.3246251	418.771315			
158.7573728	1.394913871	7.00E-06	0.000214499	GPC4		
X	133300103	133415490	-	4960		
protein_coding	glypican 4 [Source:HGNC Symbol;Acc:HGNC:4452] -					
352	553	385	114	112	267	3.475278956
5.282869658	4.829319067	1.277130329	1.387981592			
2.502998579						
ENSG00000138587	401.9121779	254.8786041	305.7353039			
160.5751167	87.89487077	104.3793245	320.8420286			
117.6164373	1.447586356	7.01E-06	0.000214499	MNS1		
15	56421544	56465137	-	2504		
protein_coding	meiosis specific nuclear structural 1 [Source:HGNC					
Symbol;Acc:HGNC:29636]	-	443	288	263	155	77
121	8.663593868	5.44985069	6.534739364			
3.439611698	1.890182599	2.246891307				
ENSG00000181588	1679.321538	1931.944419	2142.472111			
942.7313304	1156.331222	1287.057456	1917.912689			
1128.706669	0.76406773	7.46E-06	0.000227894	MEX3D		
19	1554669	1568058	-	2850	protein_coding	mex-3
RNA binding	family member D [Source:HGNC Symbol;Acc:HGNC:16734] -					
1851	2183	1843	910	1013	1492	31.80462229
36.29404025	40.23345436	17.74224516	21.848013			
24.34192843						
ENSG00000092964	2034.963917	1780.610248	2567.944055			
1479.363011	1017.069219	908.3589147	2127.839406			
1134.930381	0.906690242	7.62E-06	0.0002321	DPYSL2		
8	26514022	26658178	+	7305		
protein_coding	dihydropyrimidinase like 2 [Source:HGNC					
Symbol;Acc:HGNC:3014]	-	2243	2012	2209	1428	891
1053	15.03618764	13.05071173	18.81405209			
10.86225592	7.497299219	6.702536212				
ENSG00000132394	697.6759928	939.8648526	802.1192384			
1184.11199	1529.59905	1618.310849	813.220028			

1444.007296	-0.828396727	7.62E-06	0.0002321	EEFSEC
3	128153454	128408646	+ 2421	
protein_coding	"eukaryotic elongation factor, selenocysteine-tRNA specific [Source:HGNC Symbol;Acc:HGNC:24614]"			
690	1143	1340	1876	15.55464966
	17.73213985	26.23393781	34.02180642	20.78529382
ENSG0000094916	5912.554545	5101.997058	5881.045257	36.03039827
4107.615082	3522.643782	3573.050926	5631.86562	
3734.436597	0.592647155	7.64E-06	0.000232287	CBX5
12	54230940	54280133	- 15040	
protein_coding	chromobox 5 [Source:HGNC Symbol;Acc:HGNC:1555]			-
6517	5765	5059	3965	3086
	18.16259572	20.92780547	14.64898044	4142
	12.80540376			21.2191786
ENSG00000160695	1187.591514	1141.643748	1162.49165	12.61233349
1752.858693	1843.509302	1790.838658	1163.908971	
1795.735551	-0.625537572	7.66E-06	0.000232293	VPS11
11	119067692	119081978	+ 5907	
protein_coding	"VPS11, CORVET/HOPS core subunit [Source:HGNC Symbol;Acc:HGNC:14583]"			-
2076	10.85178946	10.3478275	10.53270391	1615
15.91642149	16.80555719	16.34148036		
ENSG0000024526	2199.176342	1282.357977	1676.312959	
615.365286	326.4666629	233.7751813	1719.282426	
391.8690434	2.133753187	7.71E-06	0.000233428	DEPDC1
1	68474152	68497221	- 5904	
protein_coding	DEP domain containing 1 [Source:HGNC Symbol;Acc:HGNC:22949]			-
271	20.10550335	11.62916353	15.1958766	286
5.590519155	2.977604722	2.134292608		
ENSG0000066279	4165.189185	2153.193208	2836.479626	
854.6740083	495.4074534	232.0499032	3051.620673	
527.3771216	2.533030718	7.77E-06	0.0002348	ASPM
1	197084128	197146694	- 10887	
protein_coding	abnormal spindle microtubule assembly [Source:HGNC Symbol;Acc:HGNC:19048]			-
269	20.650366	10.58913114	13.94403455	434
4.210733633	2.450354202	1.148881074		
ENSG00000213347	290.3203091	290.2784102	417.3345023	
69.40988916	167.7992987	43.99459131	332.6444072	
93.73459307	1.833729453	7.78E-06	0.000234885	MXD3
5	177301461	177312757	- 5154	
protein_coding	MAX dimerization protein 3 [Source:HGNC Symbol;Acc:HGNC:14008]			bHLH
51	3.040424669	3.015475959	4.333680411	147
0.722341276	1.753154863	0.460104817		
ENSG00000136295	11910.39068	11566.00166	14009.18687	
8932.120363	8516.67053	7530.838865	12495.19307	
8326.543253	0.585570522	8.02E-06	0.000241755	TTYH3
7	2631951	2664802	+ 6129	protein_coding
				tweety

family member 3 [Source:HGNC Symbol;Acc:HGNC:22222]	-	13128
13069 12051 8622 7461 8730 104.8908561		
101.0367057 122.3320664 78.16825928 74.82638753		
66.23013503		
ENSG00000122966 1417.126009 861.9852791 1083.442218		
733.4656944 336.7400893 344.1929791 1120.851169		
471.4662543 1.249697215 8.18E-06 0.000245981		CIT
12 119685790 119877291 - 13230		
protein_coding citron rho-interacting serine/threonine kinase		
[Source:HGNC Symbol;Acc:HGNC:1985]	- 1562 974	932
708 295 399 5.781624325 3.488394182		
4.382913653 2.973619918 1.370596227 1.402310125		
ENSG00000156467 1667.527275 2227.5328 2302.895958		
1106.414353 1065.011876 1402.651088 2065.985345		
1191.359105 0.793201419 8.20E-06 0.000246319		UQCRB
8 96225920 96235634 - 9715		
protein_coding ubiquinol-cytochrome c reductase binding protein		
[Source:HGNC Symbol;Acc:HGNC:12582]	- 1838 2517	1981
1068 933 1626 9.264700526 12.27628187		
12.68669553 6.108583172 5.903182352 7.782314085		
ENSG00000148848 1763.695878 1427.497182 1792.562124		
1107.450321 918.9009217 645.2540059 1661.251728		
890.5350829 0.900229752 8.27E-06 0.000248035		ADAM12
10 126012381 126388455 - 9860		
protein_coding ADAM metalloproteinase domain 12 [Source:HGNC		
Symbol;Acc:HGNC:190]	- 1944 1613 1542 1069	805
748 9.654905541 7.751466836 9.730032825		
6.024386601 5.018412146 3.527408045		
ENSG00000269378 536.1853209 498.2522712 646.3453573		
242.4166278 292.221908 308.8247782 560.2609831		
281.154438 0.993099282 8.31E-06 0.000248763		
AC022149.1 19 14621634 14622242 - 609		
processed_pseudogene integrin beta 1 pseudogene 1		
591 563 556 234 256 358 47.5224554		
43.80438053 56.80209392 21.35062577 25.83866271		
27.33359481		
ENSG00000196950 822.8766261 521.2621452 785.8443553		
372.9486582 311.6272691 141.4728034 709.9943756		
275.3495769 1.368702637 8.43E-06 0.000251407		
SLC39A10 2 195575977 195737702 + 6917		
protein_coding solute carrier family 39 member 10		
[Source:HGNC Symbol;Acc:HGNC:20861]	- 907 589	676
360 273 164 6.42122954 4.034818096		
6.080450634 2.891989879 2.426008016 1.102445402		
ENSG00000150764 1613.092218 1039.869305 1551.926353		
902.3285591 647.2258666 647.841923 1401.629292		
732.4654495 0.936073374 8.43E-06 0.000251407		DIXDC1
11 111927144 112022584 + 8509		
protein_coding DIX domain containing 1 [Source:HGNC		
Symbol;Acc:HGNC:23695]	- 1778 1175 1335 871	567

751	10.23250385	6.543133537	9.76134334	
5.687896367	4.095924054	4.103859005		
ENSG00000143322	4996.23107	4806.408677	3651.386272	
7714.857382	6320.440253	7425.596902	4484.67534	
7153.631512	-0.673431788	8.44E-06	0.000251407	ABL2
1	179099327	179229684	-	13257
protein_coding	"ABL proto-oncogene 2, non-receptor tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:77]"			
		-	5507	5431
7447	5537	8608	20.34222735	19.41158452
14.74108759	31.21390766	25.67300039	30.19173147	
ENSG00000140450	72.58007728	146.0242003	181.3486974	
234.1288798	552.4820448	454.6107769	133.3176583	
413.7405672	-1.636860653	8.67E-06	0.000257899	ARRDC4
15	97960698	97973838	+	4072
protein_coding	arrestin domain containing 4 [Source:HGNC Symbol;Acc:HGNC:28087]			
	-	80	165	156
527	0.962079368	1.920006132	2.383546757	484
3.083988241	7.306088902	6.017746154		
ENSG00000152818	1226.603306	572.5918641	932.3183032	
545.9553968	238.5717921	226.8740689	910.5044911	
337.1337526	1.433735901	8.82E-06	0.000261794	UTRN
6	144285701	144853034	+	14604
protein_coding	utrophin [Source:HGNC Symbol;Acc:HGNC:12635]			
	-	527	209	263
1352	647	802	4.533499278	
2.099224552	3.416720006	2.00516832	0.879674134	
0.837365266				
ENSG00000137507	52.62055603	29.20484005	41.8496994	
3.107905485	0	0	41.22503183	1.035968495
5.343108154	8.85E-06	0.000262341	LRR32	11
76657524	76670747	-	4459	protein_coding
leucine rich repeat containing	32 [Source:HGNC Symbol;Acc:HGNC:4161]			
	-	58	33	36
0.636970332	0.350673468	0.502310059	0.037384866	0
0				
ENSG00000070081	995.2543097	723.0410401	867.2187708	
536.6316804	351.5794831	216.5224004	861.8380402	
368.2445213	1.228264637	9.20E-06	0.000272131	NUCB2
11	17208153	17349980	+	9025
protein_coding	nucleobindin 2 [Source:HGNC Symbol;Acc:HGNC:8044]			
	-	1097	817	746
5.952345074	4.289446809	5.142786125	308	251
2.097736168	1.293175682		3.189294272	
ENSG00000147416	3531.928011	3846.188935	3838.547428	
5262.719954	5601.300401	5381.142364	3738.888125	
5415.05424	-0.534401697	9.27E-06	0.000273822	
ATP6V1B2	8	20197367	20226819	+
				7816
protein_coding	ATPase H+ transporting V1 subunit B2 [Source:HGNC Symbol;Acc:HGNC:854]			
	-		3893	4346
5080	4907	6238	24.39093993	26.34702673
26.2844785	36.11529821	38.59036333	37.11007549	



ENSG00000170558	1922.464797		1754.945389		2727.205411			
1399.593437	851.5529038		1116.254925		2134.871865			
1122.467088	0.926608414		9.32E-06		0.000274777		CDH2	
18	27950966		28177446		-	4950		
protein_coding	cadherin 2 [Source:HGNC Symbol;Acc:HGNC:1759]						-	
2119	1983	2346	1351	746	1294	20.96304861		
	18.98208685	29.48693656	15.16569068			9.263625483		
	12.15514364							
ENSG00000164949	1330.937167		1520.421673		1213.641282			
2024.282439	2111.759882		2347.240842		1355.000041			
2161.094388	-0.673084676		9.39E-06		0.000276439		GEM	
8	94249253		94262350		-	2648		
protein_coding	GTP binding protein overexpressed in skeletal muscle							
	[Source:HGNC Symbol;Acc:HGNC:4234]						-	
1954	1850	2721	27.12943921		30.7419647		1044	
24.52953777	41.00328221		42.94386292		47.77949763			
ENSG00000181222	4880.102946		4474.535494		4749.940881			
7116.067591	6407.193632		6870.057357		4701.526441			
6797.77286	-0.532023182		9.47E-06		0.00027817		POLR2A	
17	7484366	7514616	+	8355	protein_coding	RNA		
polymerase II subunit A	[Source:HGNC Symbol;Acc:HGNC:9187]						-	
5379	5056	4086	6869	5613	7964	31.5270818		
	28.67391885	30.42697339	45.68347225			41.29485526		
	44.32163932							
ENSG00000108582	2550.282465		1983.274138		2622.581162			
1628.542474	1319.564553		924.7490565		2385.379255			
1290.952028	0.886241008		9.56E-06		0.000280555		CPD	
17	30378905		30469989		+	12532		
protein_coding	carboxypeptidase D [Source:HGNC Symbol;Acc:HGNC:2301]							
-	2811	2241	2256	1572	1156	1072		
10.98421798	8.47320885		11.20019427		6.970183299			
5.670022837	3.977456304							
ENSG00000143319	1754.623368		2164.698145		1798.374582			
2748.424417	3015.82141		3158.121545		1905.898698			
2974.122457	-0.641804568		9.64E-06		0.000282219			
ISG20L2 1	156721891		156728799		-	5262		
protein_coding	interferon stimulated exonuclease gene 20 like 2							
	[Source:HGNC Symbol;Acc:HGNC:25745]						-	
2653	2642	3661	17.998417		1934	2446	1547	
18.29137344	28.01550465		30.86237399		22.02581818			
ENSG00000108861	2619.233539		3129.342861		32.3504185			
3732.594487	4754.313464		4872.185328		2708.605544			
4453.031093	-0.659503712		9.67E-06		2819.060648			
17	43766121		43778988		0.000282219		DUSP3	
protein_coding	dual specificity phosphatase 3 [Source:HGNC							
	Symbol;Acc:HGNC:3069]						-	
5648	28.20748755		2887	3536	2330	3603	4165	
39.94525919	51.08004881		33.42932711		28.92355728			
ENSG00000135916	840.1143945		1144.298733		1225.266199			
504.516657	691.7440479		406.3029903		1069.893109			

534.1878984	1.003356521	9.67E-06	0.000282219	ITM2C
2	230864639	230879248	+ 2611	
protein_coding	integral membrane protein 2C	[Source:HGNC		
Symbol;Acc:HGNC:6175]	-	926 1293	1054 487	606
471	17.36731968	23.46486683	25.11542812	
10.36416058	14.26635782	8.387741806		
ENSG00000135636	29.03203091	22.12487883	54.63710754	0
0	0.862639045	35.26467243	0.287546348	
6.608212879	9.82E-06	0.000286079	DYSF 2	
71453722	71686768	+ 8386	protein_coding	
dysferlin [Source:HGNC	Symbol;Acc:HGNC:3097]	-	32 25	
47	0 0	1 0.186863209	0.141257525	
0.348698313	0	0 0.005544676		
ENSG00000137135	226.8127415	242.488672	280.1604876	
106.704755	107.3002318	76.77487503	249.8206337	
96.92662062	1.368286856	1.01E-05	0.00029415	
ARHGEF39	9 35658875	35675866	- 6496	
protein_coding	Rho guanine nucleotide exchange factor 39			
[Source:HGNC	Symbol;Acc:HGNC:25909]	-	250 274 241	
103	94 89	1.884615141	1.99862349	
2.308223578	0.881055471	0.889465684	0.637052183	
ENSG00000168874	72.58007728	84.9595347	53.4746159	
8.287747959	10.27342645	0 70.33807596	6.187058138	
3.544850405	1.02E-05	0.000297634	ATOH8 2	
85751344	85788066	+ 6076	protein_coding	
atonal bHLH transcription factor 8	[Source:HGNC			
Symbol;Acc:HGNC:24126]	bHLH	80 96	46 8 9	
0	0.644764185	0.748651861	0.471028205	
0.07316178	0.091048355	0		
ENSG00000139289	6566.682492	6787.027829	6797.088677	
8549.847988	10627.28892	11063.34576	6716.932999	
10080.16089	-0.585702094	1.04E-05	0.000301637	PHLDA1
12	76025447	76033932	- 8069	
protein_coding	pleckstrin homology like domain family A member 1			
[Source:HGNC	Symbol;Acc:HGNC:8933]	-	7238 7669 5847	
8253	9310 12825	43.9265957	45.03451222	
45.08376994	56.83347004	70.92140419	73.90412449	
ENSG00000125148	13498.98712	13587.33059	13960.36222	
19978.65242	17744.49047	22997.09431	13682.22664	
20240.07907	-0.565001403	1.04E-05	0.000301637	MT2A
16	56608199	56609497	+ 1299	
protein_coding	metallothionein 2A [Source:HGNC	Symbol;Acc:HGNC:7406]		
-	14879 15353	12009 19285	15545 26659	
560.9101208	560.0290297	575.1810117	824.9403294	
735.5783452	954.257807			
ENSG00000136848	1251.099082	1160.228646	1335.702906	
850.5301343	699.7344907	683.2101239	1249.010211	
744.4915829	0.746343924	1.05E-05	0.000303339	DAB2IP
9	121567057	121785530	+ 9127	
protein_coding	DAB2 interacting protein [Source:HGNC			

Symbol;Acc:HGNC:17294]	-	1379	1311	1149	821	613
792	7.398861524	6.806143195		7.832471527		
4.998355602	4.128381129	4.034857016				
ENSG00000006625	830.1346339	791.1856669		683.5450901		
405.0636815	372.126336	481.3525873		768.2884636		
419.5142016	0.872083092	1.06E-05		0.000304494		GGCT
7	30496621	30504844		-	1597	
protein_coding	gamma-glutamylcyclotransferase	[Source:HGNC				
Symbol;Acc:HGNC:21705]	-	915	894	588	391	326
558	28.05723447	26.52522298		22.90758235		
13.60454072	12.54758205	16.24651818				
ENSG00000114268	746.667545	654.0114182		1276.415832		
318.0423279	519.3787818	206.1707318		892.3649316		
347.8639472	1.360630953	1.06E-05		0.000305711		PFKFB4
3	48517684	48562015		-	6107	
protein_coding	"6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4	[Source:HGNC Symbol;Acc:HGNC:8875]"				
307	455	239	-	823	739	1098
11.18616618	2.79333163	4.579634695		1.819705045		
ENSG00000096746	2185.567577	2479.756419		2660.943387		
1565.348396	1407.459424	1682.146138		2442.089128		
1551.651319	0.653557895	1.06E-05		0.000306261		
HNRNPH3	10	68331174	68343191	+	5373	
protein_coding	heterogeneous nuclear ribonucleoprotein H3	[Source:HGNC Symbol;Acc:HGNC:5043]				
1511	1233	1950	-	2409	2802	2289
26.50548764	15.62642628	14.105666		16.87519457		
ENSG00000170275	8194.290725	7568.478549		8647.775384		
5988.933869	5379.850986	4304.568836		8136.848219		
5224.45123	0.639325579	1.07E-05		0.000307287		CRTAP
3	33113979	33147773		+	6695	
protein_coding	cartilage associated protein	[Source:HGNC				
Symbol;Acc:HGNC:2379]	-	9032	8552	7439	5781	4713
4990	66.06356884	60.52621994		69.13067923		
47.98046269	43.27072966	34.65620328				
ENSG00000182473	1652.104009	1757.600374		1823.949399		
2368.223979	2870.851948	2860.511074		1744.551261		
2699.862334	-0.630286086	1.08E-05		0.000308639		EXOC7
17	76081017	76121576		-	10086	
protein_coding	exocyst complex component 7	[Source:HGNC				
Symbol;Acc:HGNC:23214]	-	1821	1986	1569	2286	2515
3316	8.841372034	9.330109079		9.678561775		
12.59416288	15.32732569	15.28715173				
ENSG00000213085	205.0387183	196.468924		181.3486974		
49.72648776	87.89487077	33.64292277		194.2854466		
57.08809376	1.776063741	1.13E-05		0.000322941		CFAP45
1	159872364	159900163		-	2625	
protein_coding	cilia and flagella associated protein 45	[Source:HGNC				
Symbol;Acc:HGNC:17229]	-	226	222	156	48	77
39	4.21607002	4.007283863		3.697448531		

1.016070806	1.803054182	0.690822251				
ENSG00000231663	26.31027801	23.89486913	23.249833	0		
0	0	24.48499338	0	7.047196772		
1.16E-05	0.000331705	AL355472.1	1	234372807		
234373593	-	575	antisense			
uncharacterized	LOC101927765	[Source:NCBI gene;Acc:101927765]	-			
29	27	20	0	0	0	2.469783226
2.224960782	2.164058505	0	0	0		
ENSG00000210144	19.05227029	87.61452016	49.98714095			
154.3593057	184.9216762	351.0940914	52.21797713			
230.1250244	-2.139876601	1.17E-05	0.000333932			MT-TY
MT	5826	5891	-	66	Mt_tRNA	
mitochondrially	encoded tRNA tyrosine	[Source:HGNC				
Symbol;Acc:HGNC:7502]	-	21	99	43	149	162
407	15.58131267	71.07513608	40.535111			
125.4452948	150.8754016	286.7355176				
ENSG00000132669	1371.763461	1200.053428	1191.553941			
858.8178823	703.1589662	662.5067868	1254.456943			
741.4945451	0.759156153	1.20E-05	0.00034066			RIN2
20	19757606	20002459	+	8273		
protein_coding	Ras and Rab	interactor 2	[Source:HGNC			
Symbol;Acc:HGNC:18750]	-	1512	1356	1025	829	616
768	8.949884906	7.766459932	7.708461145			
5.568055428	4.576832809	4.31647484				
ENSG00000131389	2101.193237	2000.974041	3168.952238			
1493.86657	1386.912571	1240.474947	2423.706505			
1373.751363	0.818688546	1.20E-05	0.000341143			SLC6A6
3	14402576	14489349	+	8254		
protein_coding	solute carrier	family 6 member 6	[Source:HGNC			
Symbol;Acc:HGNC:11052]	-	2316	2261	2726	1442	1215
1438	13.74050752	12.97963676	20.54793738			
9.707621604	9.048137122	8.10075392				
ENSG00000146938	18.14501932	19.46989337	37.1997328	0		
0	0	24.93821516	0	7.070600751		
1.22E-05	0.000345432	NLGN4X	X	5840637	6228863	-
7441	protein_coding	neuroligin 4 X-linked	[Source:HGNC			
Symbol;Acc:HGNC:14287]	-	20	22	32	0	0
0	0.131621663	0.140093446	0.26756267	0		
0	0					
ENSG00000166503	1911.577785	1658.480917	2059.935204			
1268.025438	1118.661992	1145.584652	1876.664635			
1177.424027	0.672106906	1.22E-05	0.000345438			HDGFL3
15	83112738	83208018	-	16253		
protein_coding	HDGF like 3	[Source:HGNC	Symbol;Acc:HGNC:24937]	-		
2107	1874	1772	1224	980	1328	6.348332771
5.463393631	6.783237588	4.184657576	3.70629429			
3.799229754						
ENSG00000135597	899.9929583	878.800187	845.1314295			
1218.29895	1555.853362	1551.887642	874.6415249			
1442.013318	-0.721165992	1.22E-05	0.00034653			REPS1

6	138903493	138988261	-	9602	
protein_coding	RALBP1 associated Eps domain containing 1 [Source:HGNC				
Symbol;Acc:HGNC:	15578]	-	992	993	727 1176 1363
1799	5.05916279	4.90020205	4.710636098		
6.80546279	8.725323029	8.711651224			
ENSG00000147862	332.0538535	284.9684393	363.8598864		
179.2225496	106.15874	105.2419635	326.9607264		
130.2077511	1.328357764	1.23E-05	0.000347646	NFIB	
9	14081843	14398983	-	12765	
protein_coding	nuclear factor I B [Source:HGNC				
CTF/NFI	366	322	313	173	93 122
1.404070613	1.195257544	1.525563766	0.753073434		
0.447826191	0.444395886				
ENSG00000052795	704.0267496	700.0311661	527.7712091		
1120.917911	1047.889498	1171.463823	643.9430416		
1113.423744	-0.788786479	1.24E-05	0.000349347	FNIP2	
4	158769138	158908049	+	10868	
protein_coding	folliculin interacting protein 2 [Source:HGNC				
Symbol;Acc:HGNC:	29280]	-	776	791	454 1082 918
1358	3.49655831	3.448683146	2.599040636		
5.532095576	5.192068477	5.810067237			
ENSG00000126522	412.7991895	488.5173245	549.8585504		
279.7114936	203.1855454	212.2092051	483.7250215		
231.7020814	1.061179245	1.24E-05	0.000350614	ASL	
7	66075798	66093558	+	3195	
protein_coding	argininosuccinate lyase [Source:HGNC				
Symbol;Acc:HGNC:	746]	-	455	552	473 270 178
246	6.973795657	8.18643195	9.210795176		
4.695749764	3.424494713	3.580100867			
ENSG00000148180	2435.968844	2136.3783	3223.589345		
1706.240111	1530.740542	1238.749669	2598.645496		
1491.910107	0.800523799	1.26E-05	0.000354085	GSN	
9	121207794	121332843	+	11018	
protein_coding	gelsolin [Source:HGNC				
Symbol;Acc:HGNC:	4620]	-	2685	2414	2773 1647 1341 1436 11.93356507
10.38151985	15.6586367	8.306209386	7.481236258		
6.060140457					
ENSG00000131724	2086.677222	1735.475495	2120.384769		
1194.471675	1319.564553	1252.551894	1980.845829		
1255.529374	0.657643892	1.26E-05	0.000354087		
IL13RA1 X	118727572	118794539	+	4372	
protein_coding	interleukin 13 receptor subunit alpha 1 [Source:HGNC				
Symbol;Acc:HGNC:	5974]	-	2300	1961	1824 1153 1156
1452	25.76180961	21.25317808	25.9568225		
14.65416906	16.25268211	15.44249542			
ENSG00000073050	780.2358307	900.9250659	918.3684034		
558.3870188	468.0116496	451.1602207	866.5097667		
492.5196297	0.815075638	1.29E-05	0.00036097	XRCC1	
19	43543040	43580473	-	3459	
protein_coding	X-ray repair cross complementing 1 [Source:HGNC				

Symbol;Acc:HGNC:12828]	-	860	1018	790	539	410
523	12.17521314	13.94516499		14.20964984		
8.658651234	7.285857199	7.030434153				
ENSG00000244038	6425.151341	7141.025891		7115.611389		
4785.138478	4939.235141	3683.468723		6893.92954		
4469.280781	0.625549679	1.31E-05		0.000366065		DDOST
1	20651767	20661544		-	2721	
protein_coding	dolichyl-diphosphooligosaccharide--protein glycosyltransferase non-catalytic subunit [Source:HGNC					
Symbol;Acc:HGNC:2728]	-	7082	8069	6121	4619	4327
4270	127.4547614	140.5133586		139.9589528		
94.32601	97.74751237	72.96764862				
ENSG00000119574	664.1077071	858.4452985		735.8572144		
1000.745566	1554.71187	1685.596694		752.8034067		
1413.68471	-0.909187771	1.31E-05		0.000366275		ZBTB45
19	58513530	58538911		-	3418	
protein_coding	zinc finger and BTB domain containing 45 [Source:HGNC					
Symbol;Acc:HGNC:23715]	ZBTB	732	970	633	966	1362
1954	10.48739694	13.44702204		11.52228195		
15.7042468	24.49358805	26.58174694				
ENSG00000138696	228.6272434	249.5686332		122.0616232		
387.4522171	448.6062885	686.66068		200.0858333		
507.5730619	-1.340455974	1.34E-05		0.000373779		BMPR1B
4	94757968	95158448		+	6312	
protein_coding	bone morphogenetic protein receptor type 1B					
[Source:HGNC Symbol;Acc:HGNC:1077]		-		252	282	105
374	393	796		1.955069651	2.116940048	
1.034973322	3.292430799	3.827127407		5.863772274		
ENSG00000125484	1521.45987	1301.82787		1356.627755		
2014.958723	2126.599276	2381.746404		1393.305165		
2174.434801	-0.642283806	1.34E-05		0.000374116		GTF3C4
9	132670035	132694955		+	9043	
protein_coding	general transcription factor IIIC subunit 4					
[Source:HGNC Symbol;Acc:HGNC:4667]		-		1677	1471	1167
1945	1863	2761		9.081324936	7.707731592	
8.029068661	11.95140926	12.66332299		14.19661791		
ENSG00000153214	657.7569503	484.0923488		581.2458249		
336.6897608	276.2410224	260.5169917		574.3650413		
291.1492583	0.98063296	1.36E-05		0.000378395		
TMEM87B 2	112055223	112119318		+	5367	
protein_coding	transmembrane protein 87B [Source:HGNC					
Symbol;Acc:HGNC:25913]	-	725	547	500	325	242
302	6.61507991	4.829277615		5.796225266		
3.364835283	2.77160369	2.616413407				
ENSG00000115268	17403.79528	19991.15551		21638.61957		
26575.6998	30109.12995	29853.34944		19677.85679		
28846.05973	-0.551856096	1.37E-05		0.000379909		RPS15
19	1438358	1440494	+	2137	protein_coding	
ribosomal protein S15 [Source:HGNC Symbol;Acc:HGNC:10388]		-				
19183	22589	18614	25653	26377	34607	439.5827971

	500.8629696	541.9285535	667.0304848	758.6967739	
	752.9921504				
ENSG00000229689	395.5614212	485.8623391	224.3608884		
836.0265754	652.9333257	984.2711507	368.5948829		
824.4103506	-1.159303064	1.39E-05	0.000384834		
AC009237.3	2	95525345	95532405	+	4978
	transcribed_unprocessed_pseudogene		Ankyrin repeat domain-		
	containing protein pseudogene		-	436	549
	572	1141	4.289041817	5.225693011	193
	9.008047884	7.062988461	10.65765777		807
ENSG00000183853	5155.90724	4963.052819	5550.897628		
3906.637194	3398.221172	3197.802941	5223.285896		
3500.887103	0.577241473	1.39E-05	0.000385014		
KIRREL1	1	157993273	158100262	+	7872
	protein_coding kirre like nephrin family adhesion molecule 1				
	[Source:HGNC Symbol;Acc:HGNC:15734]				
	3771	2977	3707	35.35259143	33.75587425
37.73941267	26.61849461	23.24561868	21.89618828		
ENSG00000119227	156.9544171	228.3287495	163.9113226		
381.2364061	439.4743538	376.9732628	183.0648298		
399.2280076	-1.122641157	1.40E-05	0.000387535		PIGZ
	3	196946343	196969060	-	3211
	protein_coding phosphatidylinositol glycan anchor biosynthesis class				
	Z [Source:HGNC Symbol;Acc:HGNC:30596]				
	368	385	437	2.638362594	3.80720131
2.732031194	6.368241971	7.370005028	6.328082748		
ENSG00000100714	3408.541879	3089.51808	3375.875751		
2343.360735	2216.77713	1793.426575	3291.311903		
2117.854814	0.636443985	1.42E-05	0.00039163		MTHFD1
	14	64388031	64463457	+	9377
	protein_coding "methylenetetrahydrofolate dehydrogenase,				
	cyclohydrolase and formyltetrahydrofolate synthetase 1 [Source:HGNC				
	Symbol;Acc:HGNC:7432]"				
	2079	19.62031441	17.64056024	19.26812888	
13.40419472	12.73012505	10.30911992			
ENSG00000136960	160.583421	190.2739579	174.3737475		
74.58973163	50.22564044	46.58250844	175.0770421		
57.13262684	1.617294332	1.45E-05	0.000399312		ENPP2
	8	119557086	119673453	-	6729
	protein_coding ectonucleotide pyrophosphatase/phosphodiesterase 2				
	[Source:HGNC Symbol;Acc:HGNC:3357]				
	72	44	54	1.288105461	1.513959901
1.386907758	0.594557705	0.401929153	0.373142099		
ENSG00000173334	299.3928188	384.0878965	275.510521		
554.2431448	611.8396199	695.2870705	319.6637454		
620.4566117	-0.95562333	1.45E-05	0.000399614		TRIB1
	8	125430321	125438405	+	4138
	protein_coding tribbles pseudokinase 1 [Source:HGNC				
	Symbol;Acc:HGNC:16891]				
	806	3.905279639	4.969648632	3.563401072	536

7.184149137	7.961990656	9.056816604				
ENSG00000106105	5228.487317	5787.868301	6210.030394			
7885.792183	8400.238364	8796.330345	5742.128671			
8360.786964	-0.542249488	1.45E-05	0.000399614	GARS		
7	30594681	30634033	+ 4152			
protein_coding	glycyl-tRNA synthetase [Source:HGNC					
Symbol;Acc:HGNC:4162]	-	5763	6540	5342	7612	7359
10197	67.97042075	74.6357402	80.04853451			
101.8716824	108.9453801	114.194738				
ENSG00000183876	178.7284403	219.478798	261.5606212			
102.560881	63.92354238	58.65945508	219.9226198			
75.04795948	1.551448243	1.48E-05	0.00040457	ARSI		
5	150296343	150339307	- 3269			
protein_coding	arylsulfatase family member I [Source:HGNC					
Symbol;Acc:HGNC:32521]	-	197	248	225	99	56
68	2.951073248	3.594704548	4.282273922			
1.682799281	1.052980835	0.967219426				
ENSG00000145833	3654.406891	2724.900076	3173.602204			
2312.281681	1767.02935	1484.601797	3184.303057			
1854.637609	0.780152791	1.48E-05	0.000405873	DDX46		
5	134758771	134855133	+ 9222			
protein_coding	DEAD-box helicase 46 [Source:HGNC					
Symbol;Acc:HGNC:18681]	-	4028	3079	2730	2232	1548
1721	21.38912544	15.82016511	18.41808088			
13.44872509	10.31794477	8.677343118				
ENSG00000149639	2849.675284	2031.063876	2637.693554			
1752.858693	1303.583668	915.260027	2506.144238			
1323.900796	0.921145451	1.53E-05	0.000417618	SOGA1		
20	36777442	36863686	- 15128			
protein_coding	"suppressor of glucose, autophagy associated 1					
[Source:HGNC	Symbol;Acc:HGNC:16111]"	-	3141	2295	2269	
1692	1142	1061	10.16752161	7.18832352		
9.331679764	6.214853369	4.640149233	3.26110578			
ENSG00000145794	86.18884177	26.54985459	52.31212425			
7.251779464	0	0	55.0169402	2.417259821		
4.525538801	1.54E-05	0.000420138	MEGF10	5		
127290831	127465737	+ 9007	protein_coding			
multiple EGF like domains 10	[Source:HGNC					
Symbol;Acc:HGNC:29634]	-	95	30	45	7	0
0.516502141	0.157821996	0.310841644	0.043184701	0	0	0
0						
ENSG00000255921	63.50756762	54.86969949	20.9248497			
143.9996208	142.6864785	270.0060212	46.43403894			
185.5640402	-1.991438867	1.60E-05	0.000436266			
AC026310.2	12	24949163	24960158	+ 728		
antisense	"novel transcript, antisense to BCAT1"					
70	62	18	139	125	313	4.708638445
4.035401499	1.538324555	10.60951337	10.55421638			
19.99143533						
ENSG00000135506	1038.802356	1217.753331	1671.662993			



664.0558052	751.1016229	759.1223598	1309.406226	
724.7599293	0.852284384	1.64E-05	0.000447365	0S9
12	57693955	57721557	+ 5169	
protein_coding	"OS9, endoplasmic reticulum lectin [Source:HGNC			
Symbol;Acc:HGNC:16994]"	-	1145 1376	1438 641	658
880	10.84744953	12.61357932	17.30849076	
6.89070315	7.824682452	7.916025018		
ENSG00000152767	955.3352672	803.575599	1115.991984	
624.6890024	489.6999943	409.7535465	958.30095	
508.0475144	0.915663513	1.66E-05	0.000452124	FARP1
13	98142562	98455176	+ 36228	
protein_coding	"FERM, ARH/RhoGEF and pleckstrin domain protein 1			
[Source:HGNC Symbol;Acc:HGNC:3591]"	-	1053 908		960
603	429 475	1.423353245	1.187593824	
1.648669944	0.924879166	0.72788085	0.609649566	
ENSG00000135124	221.3692357	292.0484005	263.8856045	
546.9913653	485.134027	483.0778654	259.1010803	
505.0677525	-0.962957551	1.69E-05	0.000458717	P2RX4
12	121209857	121234106	+ 8159	
protein_coding	purinergic receptor P2X 4 [Source:HGNC			
Symbol;Acc:HGNC:8535]"	-	244 330	227 528	425
560	1.4644737	1.916476276	1.73099483	
3.595911818	3.201838019	3.191406403		
ENSG00000198585	703.1194986	723.9260353	734.6947227	
453.7542008	312.7687609	403.7150732	720.5800855	
390.079345	0.88422043	1.69E-05	0.000458717	NUDT16
3	131381671	131388830	+ 7029	
protein_coding	nudix hydrolase 16 [Source:HGNC Symbol;Acc:HGNC:26442]"			
-	775 818	632 438	274 468	
5.399292342	5.514246817	5.59410201	3.462522553	
2.396096913	3.095874364			
ENSG00000182810	418.2426953	497.3672761	420.8219773	
680.6313012	788.7708533	1066.22186	445.4773162	
845.2080048	-0.924333958	1.70E-05	0.000459397	DDX28
16	68021274	68023442	- 2169	
protein_coding	DEAD-box helicase 28 [Source:HGNC			
Symbol;Acc:HGNC:17330]"	-	461 562	362 657	691
1236	10.40806646	12.27730951	10.38378925	
16.83130776	19.58239721	26.49658702		
ENSG00000116786	2405.122311	2918.714015	2578.406479	
3430.091687	4323.971045	4955.861315	2634.080935	
4236.641349	-0.685713765	1.71E-05	0.0004609	
PLEKHM2 1	15684332	15734769	+ 4122	
protein_coding	pleckstrin homology and RUN domain containing M2			
[Source:HGNC Symbol;Acc:HGNC:29131]"	-	2651 3298		2218
3311	3788 5745	31.4941886	37.91133734	
33.47806907	44.63373565	56.48710834	64.80567876	
ENSG00000134910	4392.001926	3732.024561	4722.041082	
3189.746996	2421.104168	1944.388408	4282.022523	
2518.41319	0.765929105	1.75E-05	0.000472879	STT3A

11	125591712	125625215	+	7393	
protein_coding	"STT3A, catalytic subunit of the oligosaccharyltransferase complex [Source:HGNC Symbol;Acc:HGNC:6172]"				
-	4841	4217	4062	3079	2121 2254
32.0658724	27.0277153	34.18425028	23.14200731		
17.63466941	14.17634336				
ENSG00000142694	295.7638149	515.0671791	385.9472278		
137.7838098	213.4589719	145.7859987	398.9260739		
165.6762601	1.27033408	1.76E-05	0.000472879		EVA1B
1	36322031	36324154	-	1211	
protein_coding	eva-1 homolog B [Source:HGNC Symbol;Acc:HGNC:25558]				
-	326	582	332	133	187 169
13.18263236	22.77221536	17.05692686	6.102665155		
9.49171793	6.488937327				
ENSG00000104147	174.1921855	133.6342681	124.3866065		
52.83439324	39.95221399	33.64292277	144.07102		
42.14317666	1.776998672	1.78E-05	0.000478786		OIP5
15	41309268	41332621	-	1236	
protein_coding	Opa interacting protein 5 [Source:HGNC Symbol;Acc:HGNC:20300]				
-		192	151	107	51 35
39	7.606965411	5.788751644	5.386071986		
2.292787203	1.740591802	1.467158907			
ENSG00000165389	1036.080603	1034.559334	1322.915498		
744.8613478	601.5661934	615.9242783	1131.185145		
654.1172732	0.789471282	1.78E-05	0.000478914		SPTSSA
14	34432789	34462356	-	2777	
protein_coding	serine palmitoyltransferase small subunit A [Source:HGNC Symbol;Acc:HGNC:20361]				
-			1142	1169	1138
719	527	714	20.13811923	19.94642518	
25.49606918	14.38682809	11.66492889	11.95510377		
ENSG00000109674	381.0454057	323.908226	495.2214429		
225.8411319	103.8757564	71.59904076	400.0583582		
133.7719763	1.581692157	1.83E-05	0.000490896		NEIL3
4	177309836	177362943	+	2959	
protein_coding	nei like DNA glycosylase 3 [Source:HGNC Symbol;Acc:HGNC:24573]				
-		420	366	426	218 91
83	6.950771453	5.860876379	8.957183688		
4.093771254	1.890356815	1.30425991			
ENSG00000228716	2034.963917	1675.295825	2068.072645		
1429.636523	730.55477	804.8422292	1926.110796		
988.3445074	0.962519519	1.86E-05	0.000497417		DHFR
5	80626228	80654983	-	4409	
protein_coding	dihydrofolate reductase [Source:HGNC Symbol;Acc:HGNC:2861]				
-		2243	1893	1779	1380 640
933	24.91253135	20.34402852	25.10398668		
17.39206025	8.922513944	9.839489419			
ENSG00000185697	1412.589754	1109.783922	1163.654142		
865.0336932	478.285076	372.6600676	1228.675939		
571.9929456	1.103884048	1.86E-05	0.000497485		MYBL1
8	66562175	66614247	-	7239	

protein_coding	MYB proto-oncogene like 1 [Source:HGNC						
Symbol;Acc:HGNC:7547]	MYB	1557	1254	1001	835	419	
432	10.53267587	8.208152199	8.603246123				
6.409437877	3.557810451	2.774828767					
ENSG00000102760	150.6036604	255.7635993	141.8239813				
250.7043758	784.204886	552.951628	182.7304136				
529.2869632	-1.53206583	1.86E-05	0.000497485			RGCC	
13	41457559	41470882	+	1032			
protein_coding	regulator of cell cycle [Source:HGNC						
Symbol;Acc:HGNC:20369]	-	166	289	122	242	687	
641	7.876931601	13.2691953	7.355072873				
13.03009891	40.91894237	28.88080873					
ENSG00000081923	470.8632513	261.0735702	406.8720775				
179.2225496	114.1491828	168.2146138	379.6029663				
153.8621154	1.300391728	1.89E-05	0.000502251			ATP8B1	
18	57646426	57803315	-	7028			
protein_coding	ATPase phospholipid transporting 8B1 [Source:HGNC						
Symbol;Acc:HGNC:3706]	-	519	295	350	173	100	
195	3.616298644	1.988917202	3.098440339				
1.367811951	0.874612354	1.290131196					
ENSG00000140534	817.4331203	594.7167429	688.1950567				
443.3945158	324.1836792	246.7147669	700.1149733				
338.097654	1.05154475	1.91E-05	0.000508503			TICRR	
15	89575482	89631056	+	8402			
protein_coding	TOPBP1 interacting checkpoint and replication						
regulator [Source:HGNC	Symbol;Acc:HGNC:28704]	-	901	672			
592	428	284	286	5.251347975	3.789771598		
4.383750982	2.830565021	2.077700877	1.582757478				
ENSG00000117640	938.0974988	961.1047363	926.505845				
1395.449563	1563.843805	1438.881928	941.9026934				
1466.058432	-0.637937173	1.94E-05	0.000515776			MTFR1L	
1	25818640	25832942	+	5817			
protein_coding	mitochondrial fission regulator 1 like [Source:HGNC						
Symbol;Acc:HGNC:28836]	-	1034	1086	797	1347	1370	
1668	8.70462685	8.846209133	8.524444827				
12.86709702	14.4766763	13.33300373					
ENSG00000180758	416.4281934	399.1328141	476.6215765				
214.4454784	240.8547757	163.0387796	430.727528				
206.1130112	1.065350372	1.95E-05	0.000517651			GPR157	
1	9100305	9129170	-	5372		protein_coding	G
protein-coupled	receptor 157 [Source:HGNC						
Symbol;Acc:HGNC:23687]	-	459	451	410	207	211	189
4.184131884	3.978020151	4.748480942	2.141146509				
2.414314327	1.635900248						
ENSG00000179604	1464.303059	1307.137841	1889.048931				
1076.371266	751.1016229	747.9080523	1553.49661				
858.4603138	0.855241169	1.96E-05	0.000518555				
CDC42EP4	17	73283624	73312175	-		5007	
protein_coding	CDC42 effector protein 4 [Source:HGNC						
Symbol;Acc:HGNC:17147]	-	1614	1477	1625	1039	658	

	867	15.78536479	13.97749497	20.19215264	
11.53054937		8.077847732	8.051420781		
ENSG00000197183	392.8396683		425.6826687	425.4719439	
204.0857935	136.9790194		229.461986	414.6647603	
190.1755996	1.121259806		2.01E-05	0.000532395	NOL4L
	20	32443059	32585074	- 9448	
protein_coding	nucleolar protein 4 like [Source:HGNC				
Symbol;Acc:HGNC:16106]	-	433	481	366 197	120
	266	2.244278223	2.412301754	2.410172059	
1.158612968	0.780708165		1.309099841		
ENSG00000164904	1393.537484		1323.067754	1512.401637	
1018.35703	720.2813436		736.6937447	1409.668958	
825.1107062	0.77253755		2.03E-05	0.000536386	
ALDH7A1 5	126531200		126595418	- 17970	
protein_coding	aldehyde dehydrogenase 7 family member A1 [Source:HGNC				
Symbol;Acc:HGNC:877]	-	1536	1495	1301 983	631
	854	4.185735892	3.942026653	4.504390834	
3.039607339	2.158383649		2.20973814		
ENSG00000130764	2735.361662		3387.761446	2663.26837	
3831.011494	4785.133744		6173.045008	2928.797159	
4929.730082	-0.751210733		2.07E-05	0.000544583	LRRC47
	1	3778558 3796504	- 4516	protein_coding	
leucine rich repeat containing 47 [Source:HGNC	Symbol;Acc:HGNC:29207]				
	-	3015 3828	2291 3698	4192 7156	
32.69354896	40.1646916		31.56298018	45.50142702	
57.05775777	73.67962669				
ENSG00000051825	591.5276298		435.4176153	468.4841349	
250.7043758	263.6846123		250.1653231	498.47646	
254.8514371	0.968535134		2.08E-05	0.000546846	
MPHOSPH9	12	123152320	123244014	-	10304
protein_coding	M-phase phosphoprotein 9 [Source:HGNC				
Symbol;Acc:HGNC:7215]	-	652	492	403 242	231
	290	3.098635051	2.262484922	2.433358196	
1.305033198	1.378013557		1.308648965		
ENSG00000198853	688.6034832		693.8362	698.6574816	
936.5155194	1292.168749		1375.909277	693.6990549	
1201.531182	-0.792822581		2.09E-05	0.000549103	RUSC2
	9	35490127	35561898	+ 5682	
protein_coding	RUN and SH3 domain containing 2 [Source:HGNC				
Symbol;Acc:HGNC:23625]	-	759	784	601 904	1132
	1595	6.54137776	6.537945171	6.580821169	
8.840549185	12.24595214		13.05240305		
ENSG00000138942	300.3000697		342.4931243	333.6351035	
587.3941366	667.7727195		539.1494033	325.4760992	
598.1054198	-0.877302717		2.10E-05	0.000551741	RNF185
	22	31160183	31207019	+ 3447	
protein_coding	ring finger protein 185 [Source:HGNC				
Symbol;Acc:HGNC:26783]	-	331	387	287 567	585
	625	4.702354797	5.319810011	5.180211121	
9.140160441	10.43186463		8.430818737		

ENSG00000123416	15526.69303	13191.73775	17594.31112	
11137.69729	10185.53158	7780.141549	15437.58064	
9701.123474	0.670264577	2.11E-05	0.000552073	TUBA1B
12	49127782	49131397	- 3574	
protein_coding	tubulin alpha 1b [Source:HGNC Symbol;Acc:HGNC:18809]			
-	17114 14906	15135 10751	8923 9019	
234.4907216	197.6209622	263.472155	167.1499909	
153.4630075	117.3369667			
ENSG00000205581	5138.669471	5768.398408	5972.882097	
4034.061319	3563.737488	3956.925301	5626.649992	
3851.574702	0.546586951	2.11E-05	0.000552758	HMG1
21	39342315	39349647	- 5102	
protein_coding	high mobility group nucleosome binding domain 1			
[Source:HGNC Symbol;Acc:HGNC:4984]	-	5664	6518	5138
3894	3122 4587	54.36400878	60.53413524	
62.65568643	42.40992814	37.61315855	41.80414101	
ENSG00000213442	1640.309746	2033.718862	2440.069973	
2746.35248	3717.838884	3946.573632	2038.03286	
3470.254999	-0.768462785	2.14E-05	0.000558146	
RPL18AP3	12 104265309	104265836	+ 528	
processed_pseudogene	ribosomal protein L18a pseudogene 3			
[Source:HGNC Symbol;Acc:HGNC:31387]	-	1808	2298	2099
2651	3257 4575	167.6846031	206.2255842	
247.3348779	278.9894938	379.1675796	402.8915826	
ENSG00000214866	5.443505796	10.61994184	6.974949899	
40.4027713	79.90442797	61.24737221	7.679465844	
60.5181905	-2.972622619	2.17E-05	0.000566673	DCDC2C
2	3703592 3847411	+ 2242	protein_coding	
doublecortin domain containing 2C	[Source:HGNC Symbol;Acc:HGNC:32696]			
-	6 12	6 39	70 71	
0.131052203	0.253613331	0.166503163	0.966587206	
1.919153852	1.472494762			
ENSG00000146676	4830.204143	4540.025136	4089.645624	
6320.443787	6342.128597	6768.265949	4486.624968	
6476.946111	-0.529532706	2.24E-05	0.000583299	PURB
7	44876293	44885361	- 9069	
protein_coding	purine rich element binding protein B [Source:HGNC			
Symbol;Acc:HGNC:9702]	Others	5324 5130	3518 6101	5556
7846	28.74797963	26.80306157	24.13477641	
37.38123683	37.6573882	40.22721068		
ENSG00000154920	465.4197455	494.7122906	365.0223781	
228.9490374	224.8738902	129.3958568	441.7181381	
194.4062614	1.188175064	2.24E-05	0.000583894	EME1
17	50373220	50381483	+ 3294	
protein_coding	essential meiotic structure-specific endonuclease 1			
[Source:HGNC Symbol;Acc:HGNC:24965]	-	513	559	314
221	197 150	7.626450466	8.041085017	
5.930794824	3.728041365	3.67612264	2.117379394	
ENSG00000085662	4683.229486	5716.183694	6869.163159	
3424.911844	3800.026296	3771.457906	5756.192113	

3665.465349	0.650865396	2.25E-05	0.00058488	AKR1B1
7	134442350	134459284	- 3660	
protein_coding	aldo-keto reductase family 1 member B [Source:HGNC			
Symbol;Acc:HGNC:381]	-	5162 6459	5909 3306	3329
4372	69.0662058	83.6200918	100.4476432	
50.19191981	55.90878701	55.54309627		
ENSG00000127824	1231.139561	1081.464077	1290.365731	
1693.808489	1957.658485	1991.833556	1200.98979	
1881.100177	-0.647942607	2.26E-05	0.000586193	TUBA4A
2	219249711	219278170	- 4079	
protein_coding	tubulin alpha 4a [Source:HGNC Symbol;Acc:HGNC:12407]			
-	1357 1222	1110 1635	1715 2309	
16.29126567	14.19527928	16.930747	22.27286554	
25.84388377	26.32093094			
ENSG00000129173	489.0082707	348.6880903	390.5971944	
242.4166278	141.5449867	134.5716911	409.4311851	
172.8444352	1.245177861	2.28E-05	0.000589315	E2F8
11	19224063	19241620	- 4140	
protein_coding	E2F transcription factor 8 [Source:HGNC			
Symbol;Acc:HGNC:24727]	E2F	539 394	336 234	124
156	6.375541949	4.509436975	5.049469844	
3.140707994	1.84106323	1.752085419		
ENSG00000143742	4958.126529	4903.758143	4992.901636	
3713.947054	3386.806254	3225.40739	4951.595436	
3442.053566	0.524719622	2.28E-05	0.000589325	SRP9
1	225777813	225790466	+ 1728	
protein_coding	signal recognition particle 9 [Source:HGNC			
Symbol;Acc:HGNC:11304]	-	5465 5541	4295 3585	2967
3739	154.8727863	151.939556	154.6415794	
115.2809284	105.5409911	100.6103698		
ENSG00000112893	603.3218924	574.3618544	707.9574148	
271.4237457	337.8815811	383.0117361	628.5470538	
330.7723543	0.924353004	2.29E-05	0.000590094	MAN2A1
5	109689366	109869625	+ 11815	
protein_coding	mannosidase alpha class 2A member 1 [Source:HGNC			
Symbol;Acc:HGNC:6824]	-	665 649	609 262	296
444	2.756237282	2.602779705	3.206936889	
1.232195473	1.53994548	1.74735144		
ENSG00000122545	6741.781928	5953.362395	7770.094188	
5157.051168	3752.083639	2832.043986	6821.74617	
3913.726264	0.801700164	2.31E-05	0.00059513	7-Sep
7	35800932	35907105	+ 10906	
protein_coding	septin 7 [Source:HGNC Symbol;Acc:HGNC:1717]			
7431	6727 6684	4978 3287	3283 33.36648448	-
29.22687453	38.13096484	25.36304794	18.52599621	
13.99704657				
ENSG00000145860	1645.753252	1498.296794	2349.395624	
1085.694983	1060.445908	1055.870191	1831.148557	
1067.337027	0.777926738	2.34E-05	0.000601667	RNF145
5	159157409	159210053	- 4614	

protein_coding	ring finger protein 145	[Source:HGNC				
Symbol;Acc:HGNC:20853]	-	1814	1693	2021	1048	929
1224	19.25255515	17.38624554		27.25182365		
12.62105723	12.37614771	12.33487764				
ENSG00000165480	938.0974988	754.0158705		856.756346		
588.4301051	281.9484816	320.0390858		849.6232384		
396.8058908	1.098419058	2.34E-05		0.000601667		SKA3
13	21153595	21176602		-	3048	
protein_coding	spindle and kinetochore associated complex subunit 3	[Source:HGNC				
Symbol;Acc:HGNC:20262]	-	1034	852	737		
568	247	371	16.61247191	13.24497287		
15.04386307	10.35488826	4.981146912		5.659655087		
ENSG00000123700	31.75378381	39.82478189		20.9248497		
1.035968495	0	0	30.8344718	0.345322832		
6.419805767	2.34E-05	0.000601667		KCNJ2	17	
70168673	70180048	+	5577	protein_coding		
potassium voltage-gated channel subfamily J member 2	[Source:HGNC					
Symbol;Acc:HGNC:6263]	-	35	45	18	1	0
0	0.307323721	0.382329941		0.200806935		
0.009963488	0	0				
ENSG00000216775	329.3321007	246.0286526		262.7231129		
98.41700702	122.1396256	31.91764468		279.3612887		
84.15809244	1.738254766	2.35E-05		0.000603638		
AL109918.1	6	52664366	52669155	+		3821
transcribed_unprocessed_pseudogene				uncharacterized		
LOC730101	[Source:NCBI	gene;Acc:730101]	-	363	278	226
95	107	37	4.652198864	3.447420018		
3.679918904	1.381524564	1.721290216		0.450252056		
ENSG00000100632	2264.498411	2793.044703		2969.003674		
1666.873308	1817.25499	1686.459334		2675.515596		
1723.529211	0.634311909	2.37E-05		0.000607282		ERH
14	69380123	69398627		-	1446	
protein_coding	"ERH, mRNA splicing and mitosis factor	[Source:HGNC				
Symbol;Acc:HGNC:3447]"	-	2496	3156	2554	1609	1592
1955	84.52885216	103.4177637		109.8903222		
61.83007806	67.67404419	62.86508208				
ENSG00000175352	880.940688	772.6007687		826.5315631		
1164.428588	1342.39439	2067.745792		826.6910066		
1524.856257	-0.884029679	2.38E-05		0.000607282		NRIP3
11	8980576	9004049	-	4123	protein_coding	
nuclear receptor interacting protein 3	[Source:HGNC					
Symbol;Acc:HGNC:1167]	-	971	873	711	1124	1176
2397	11.53279517	10.03292001		10.72909554		
15.14833916	17.53239906	27.03246923				
ENSG00000001461	423.6862011	370.8129692		394.0846693		
669.2356477	679.1876378	715.1277685		396.1946132		
687.8503513	-0.796120128	2.39E-05		0.000609078		NIPAL3
1	24415794	24472976		+	9404	
protein_coding	NIPA like domain containing 3	[Source:HGNC				
Symbol;Acc:HGNC:25233]	-	467	419	339	646	595

829	2.431828499	2.111192544	2.242817439	
3.817085968	3.88912324	4.098952902		
ENSG00000141429	1499.685847	1244.303185	1610.050935	
986.2420071	861.8263303	775.5125017	1451.346656	
874.5269464	0.730795266	2.44E-05	0.000621051	GALNT1
18	35581117	35711834	+ 5126	
protein_coding	polypeptide N-acetylgalactosaminyltransferase 1			
[Source:HGNC Symbol;Acc:HGNC:4123]	-	1653	1406	1385
952	755 899	15.79148366	12.99670196	
16.81039886	10.31977884	9.053483407	8.15477735	
ENSG00000122483	662.2932052	440.7275863	320.8476954	
236.2008168	194.0536108	182.8794776	474.6228289	
204.3779684	1.217441322	2.45E-05	0.000623521	CCDC18
1	93179919	93278730	+ 5633	
protein_coding	coiled-coil domain containing 18 [Source:HGNC			
Symbol;Acc:HGNC:30370]	-	730 498	276 228	170
212	6.346171326	4.18905471	3.048429653	
2.249091579	1.855053889	1.749955995		
ENSG00000221866	328.4248497	188.5039676	440.5843353	
142.9636523	97.02680539	108.6925197	319.1710509	
116.2276591	1.455179463	2.48E-05	0.000630646	PLXNA4
7	132123332	132648688	- 16372	
protein_coding	plexin A4 [Source:HGNC Symbol;Acc:HGNC:9102]			-
362	213 379	138 85	126	1.082768264
0.616459157	1.440271346	0.46837035	0.319127735	
0.357849016				
ENSG00000164465	1083.257653	997.3895376	1232.241149	
756.2570013	600.4247016	584.8692727	1104.296113	
647.1836585	0.770581793	2.50E-05	0.000635395	DCBLD1
6	117453817	117569858	+ 6819	
protein_coding	"discoidin, CUB and LCCL domain containing 1			
[Source:HGNC Symbol;Acc:HGNC:21479]"	-	1194	1127	1060
730	526 678	8.574569403	7.83122436	
9.671459587	5.948592419	4.741463524	4.623171685	
ENSG00000167526	50101.12009	69211.04595	74994.66132	
85556.49412	113704.001	114486.8662	64768.94245	
104582.4538	-0.691283472	2.52E-05	0.000638212	RPL13
16	89560657	89566828	+ 6172	
protein_coding	ribosomal protein L13 [Source:HGNC			
Symbol;Acc:HGNC:10303]	-	5523 78205	64512 82586	99610
132717	438.1499457	600.3922032	650.3115019	
743.5198339	992.0290339	999.8426465		
ENSG00000164761	652.3134445	668.1713406	1024.155144	
385.3802801	408.6540745	429.5942445	781.5466429	
407.8761997	0.936457207	2.53E-05	0.000639433	
TNFRSF11B	8 118923557	118952200	-	2827
protein_coding	TNF receptor superfamily member 11b			
[Source:HGNC Symbol;Acc:HGNC:11909]	-	719	755	881
372	358 498	12.45465682	12.65457558	
19.38906857	7.311882016	7.784031385	8.190955234	



ENSG00000100664	6970.409172	7096.776133	6525.065631	
9226.335416	10109.05163	9593.408823	6864.083645	
9642.931956	-0.490278641	2.53E-05	0.000639433	EIF5
14	103333544	103345025	+ 8505	
protein_coding	eukaryotic translation initiation factor 5			
[Source:HGNC Symbol;Acc:HGNC:3299]	-	7683	8019	5613
8906	8856	11121	44.23695231	44.67579982
41.06081553	58.18625642	64.00452076	60.79957464	
ENSG00000146374	34.47553671	29.20484005	33.71225785	
90.12925906	120.9981338	150.0991939	32.46421154	
120.4088622	-1.893407944	2.55E-05	0.000643804	RSP03
6	127118604	127197765	+ 3179	
protein_coding	R-spondin 3 [Source:HGNC Symbol;Acc:HGNC:20866]			-
38	33	29	87	106
0.491869454	0.567563315	1.520690274	2.049569726	
2.545011438				
ENSG00000167900	3031.125477	3151.46774	4111.732966	
2235.620012	2163.127014	1230.985918	3431.442061	
1876.577648	0.871098852	2.59E-05	0.000653146	TK1
17	78174075	78187233	- 1861	
protein_coding	thymidine kinase 1 [Source:HGNC Symbol;Acc:HGNC:11830]			
-	3341	3561	3537	2158
87.91415093	90.66758359	118.2484708	64.43429942	
62.5907566	35.65402939			
ENSG00000163481	501.7097842	727.4660159	697.4949899	
934.4435824	1231.669683	1340.541076	642.2235967	
1168.88478	-0.864715342	2.63E-05	0.000661233	RNF25
2	218663864	218672411	- 2323	
protein_coding	ring finger protein 25 [Source:HGNC Symbol;Acc:HGNC:14662]			-
1554	11.65747801	16.76675617	16.06974137	1079
21.5759224	28.55088634	31.10518744		
ENSG00000005893	4769.418328	3471.835986	5028.938877	
3176.279405	2518.130973	1908.157568	4423.39773	
2534.189315	0.803769178	2.64E-05	0.000662856	LAMP2
X	120427827	120469365	- 5526	
protein_coding	lysosomal associated membrane protein 2 [Source:HGNC Symbol;Acc:HGNC:6501]			-
2212	46.58603836	33.63828675	48.70600187	2206
30.82998501	24.53815965	18.61252355		
ENSG00000115648	1666.620025	1749.635418	2322.658316	
1390.26972	833.2890346	891.9687728	1912.971253	
1038.509176	0.880904348	2.65E-05	0.000664615	MLPH
2	237485428	237555318	+ 7514	
protein_coding	melanophilin [Source:HGNC Symbol;Acc:HGNC:29643]			
-	1837	1977	1998	1342
11.97199837	12.46699885	16.54364262	9.924151117	
5.971714405	6.398532293			
ENSG00000258807	3.629003864	7.079961225	3.48747495	
47.65455077	25.11282022	84.53862644	4.73214668	

52.43533247	-3.460531141	2.65E-05	0.000664615		
AL359237.1	14	87710419	87872291	-	1845
lincRNA	novel transcript	-	4	8	3
46	22	98	0.106167674	0.205456581	
0.101165337	1.385394646	0.732948855	2.469793955		
ENSG00000126777	5439.876792	3929.37848	4362.831162		
3460.134773	2372.020019	2193.691092	4577.362145		
2675.281961	0.775004152	2.67E-05	0.000668593		KTN1
14	55559072	55701526	+	17575	
protein_coding	kinectin 1 [Source:HGNC Symbol;Acc:HGNC:6467]				-
5996	4440	3753	3340	2078	2543
11.97054924	13.28587241	10.55998197	7.267709669		
6.727938991					
ENSG00000158480	458.1617378	516.8371694	460.3466934		
752.1131273	818.4496408	862.6390453	478.4485335		
811.0672711	-0.761241525	2.70E-05	0.000674173		SPATA2
20	49903391	49915508	-	4270	
protein_coding	spermatogenesis associated 2 [Source:HGNC Symbol;Acc:HGNC:14681]				
1000	5.791515015	6.480543243	5.769978003		717
9.447584595	10.32140075	10.88937974			
ENSG00000008283	775.6995759	746.0509141	762.5945223		
388.4881856	431.483911	496.017451	761.4483374		
438.6631826	0.794587842	2.70E-05	0.000674173		CYB561
17	63432304	63446378	-	5320	
protein_coding	cytochrome b561 [Source:HGNC Symbol;Acc:HGNC:2571]				
-	855	843	656	375	378
7.87015283	7.508313248	7.671831465	3.916802552		
4.367445837	5.025592032				
ENSG00000234883	312.0943323	358.423037	213.8984636		
473.4376022	660.9237685	722.0288809	294.8052776		
618.7967505	-1.067527286	2.73E-05	0.000680545		
MIR155HG	21	25561909	25575168	+	1600
lincRNA	MIR155 host gene [Source:HGNC Symbol;Acc:HGNC:35460]				
-	344	405	184	457	579
10.52851556	11.99392921	7.154918431	15.87114506		
22.24364428	24.32408394				
ENSG00000117054	1319.142905	1143.413738	1256.653474		
854.6740083	732.8377537	709.0892952	1239.736705		
765.5336857	0.695655885	2.75E-05	0.000683998		ACADM
1	75724347	75787575	+	4783	
protein_coding	acyl-CoA dehydrogenase medium chain [Source:HGNC Symbol;Acc:HGNC:89]				
822	14.88650368	12.79936941	14.06151646		642
9.584415025	8.250533032	7.991024364			
ENSG00000133142	960.778773	1055.799218	1143.891783		
663.0198367	482.8510433	671.9958163	1053.489925		
605.9555654	0.796298959	2.85E-05	0.000706891		TCEAL4
X	103576231	103587736	+	2518	
protein_coding	transcription elongation factor A like 4 [Source:HGNC				

Symbol;Acc:HGNC:26121]	-	1059	1193	984	640	423
779	20.59533772	22.44973189		24.31342935		
14.1233035	10.32599717	14.38509552				
ENSG00000174276	356.5496296	619.4966072		365.0223781		
807.0194575	755.6675903	1339.678437		447.0228716		
967.4551617	-1.113580731	2.89E-05		0.000716145		ZNHIT2
11	65116403	65117708		-	1306	
protein_coding	zinc finger HIT-type containing	2	[Source:HGNC			
Symbol;Acc:HGNC:1177]	-	393	700	314	779	662
1553	14.73594721	25.39693479		14.95868158		
33.14410716	31.15746908	55.29161775				
ENSG00000116171	1496.056843	1350.502604		1679.800434		
967.5945742	989.673415	907.4962756		1508.786627		
954.9214216	0.659720825	2.92E-05		0.000722226		SCP2
1	52927229	53051703		+	8305	
protein_coding	sterol carrier protein 2	[Source:HGNC				
Symbol;Acc:HGNC:10606]	-	1649	1526	1445	934	867
1052	9.723210823	8.706454559		10.82517827		
6.249126025	6.416922895	5.889889148				
ENSG00000162852	1056.947375	1015.089441		1027.642619		
1511.478034	1714.520726	1532.909583		1033.226478		
1586.302781	-0.618204695	2.93E-05		0.000723718		CNST
1	246566444	246668584		+	5922	
protein_coding	"consortin, connexin sorting protein	[Source:HGNC				
Symbol;Acc:HGNC:26486]"	-	1165	1147	884	1459	1502
1777	9.633546674	9.177437925		9.287326392		
13.68985766	15.5900996	13.95243612				
ENSG00000164161	111.5918688	29.20484005		82.53690714		
9.323716454	10.27342645	0	74.44453867	6.532380969		
	3.540441302	2.93E-05	0.000723718	HHIP	4	
	144646021	144745271	+	12074	protein_coding	
	hedgehog interacting protein	[Source:HGNC				
Symbol;Acc:HGNC:14866]	-	123	33	71	9	9
0	0.498864527	0.129505797		0.365859237		
0.04141936	0.045818271	0				
ENSG00000065183	5485.23934	5632.99415		4688.328824		
7648.555398	7584.071706	7473.042049		5268.854105		
7568.556384	-0.522275909	2.93E-05		0.000723718		WDR3
1	117929720	117966542		+	10275	
protein_coding	WD repeat domain 3	[Source:HGNC	Symbol;Acc:HGNC:12755]			
-	6046	6365	4033	7383	6644	8663
28.81475928	29.35235952	24.42042613		39.92666919		
39.74615789	39.20283746					
ENSG00000072864	840.1143945	685.8712437		971.8430193		
500.372783	477.1435842	419.242576		832.6095525		
465.5863144	0.838350166	2.94E-05		0.000724003		NDE1
16	15643267	15726353		+	5512	
protein_coding	nudE neurodevelopment protein 1	[Source:HGNC				
Symbol;Acc:HGNC:17619]	-	926	775	836	483	418
486	8.226790944	6.662219456		9.436347271		

4.869114255	4.661379191	4.099756645			
ENSG00000171658	4.53625483	5.309970919	3.48747495		
35.22292883	38.81072216	66.42320649	4.444566899		
46.81895249	-3.388746975	3.01E-05	0.000739546		
NMRAL2P 3	185959943	185980872	+	2628	
transcribed_unprocessed_pseudogene	"NmrA like redox sensor 2, pseudogene [Source:HGNC Symbol;Acc:HGNC:52332]"				
	3	34	34	77	0.093169406
	0.07102361	0.718895226	0.795244943	0.108181333	1.362374112
ENSG00000148773	8504.570555	5434.755235	7228.373079		
3087.186115	1662.012102	1280.156343	7055.899623		
2009.784853	1.811860275	3.04E-05	0.000745851	MKI67	
10	128096659	128126385	-	12807	
protein_coding	marker of proliferation Ki-67 [Source:HGNC Symbol;Acc:HGNC:7107]				
	-	9374	6141	6218	2980
	1484	35.84315441	22.72051278	30.207178	1456
12.92947522	6.988135633	5.387874977			
ENSG00000156509	121.5716294	115.9343651	105.7867401		
33.15099184	36.5277385	25.01653231	114.4309115		
31.56508755	1.863886113	3.12E-05	0.00076579	FBX043	
8	100133360	100145800	-	3950	
protein_coding	F-box protein 43 [Source:HGNC Symbol;Acc:HGNC:28521]				
	-	134	131	91	32
	1.661255326	1.571450266	1.433346345	0.450157952	
0.497966633	0.341375163				
ENSG00000130508	1789.098905	1189.433486	2613.281229		
580.1423571	485.134027	219.1103175	1863.937873		
428.1289005	2.122670969	3.16E-05	0.000773361	PXDN	
2	1631887	1744852	-	11257	protein_coding
peroxidase [Source:HGNC Symbol;Acc:HGNC:14966]	-			1972	1344
	2248	560	425	254	8.578531061
	12.42454483	2.764250549	2.320671262	5.657219679	1.049160832
ENSG00000124795	5883.522514	4919.688056	5197.500167		
4216.391774	2703.052649	2640.538118	5333.570246		
3186.660847	0.743164836	3.17E-05	0.000775752	DEK	
6	18223868	18264823	-	4361	
protein_coding	DEK proto-oncogene [Source:HGNC Symbol;Acc:HGNC:2768]				
	-	6485	5559	4471	4070
	72.82031903	60.40001246	63.786009	2368	3061
	33.37666745	32.63685192		51.85854961	
ENSG00000169855	1813.594681	1354.042584	1889.048931		
1165.464557	952.0041847	763.4355551	1685.562065		
960.3014322	0.811931205	3.22E-05	0.000787186	ROB01	
3	78597240	79767815	-	10875	
protein_coding	roundabout guidance receptor 1 [Source:HGNC Symbol;Acc:HGNC:10249]				
	-	1999	1530	1625	1125
	885	9.001444581	6.666357591	9.296745587	834
5.7482454	4.713941029	3.783946812			
ENSG00000129038	2848.768033	2927.563967	4104.758016		
2050.181651	2236.182491	1647.640576	3293.696672		

1978.001573	0.735698286	3.23E-05	0.000787889	LOXL1
15	73925989	73952137	+ 3637	
protein_coding	lysyl oxidase like 1 [Source:HGNC			
Symbol;Acc:HGNC:6665]	-	3140 3308	3531 1979	1959
1910	42.27805803	43.09715886	60.40338305	
30.23531773	33.108423	24.41861819		
ENSG00000105825	424.5934521	436.3026105	402.2221109	
546.9913653	901.7785443	1078.298807	421.0393911	
842.3562387	-1.00071947	3.26E-05	0.000793583	TFPI2
7	93885396	93890991	- 2682	
protein_coding	tissue factor pathway inhibitor 2 [Source:HGNC			
Symbol;Acc:HGNC:11761]	-	468 493	346 528	790
1250	8.545072722	8.709928434	8.026462332	
10.93924106	18.10571492	21.67116494		
ENSG00000163932	598.7856375	566.396898	791.6568136	
382.2723746	355.0039586	241.5389327	652.279783	
326.2717553	1.000279002	3.27E-05	0.000796117	PRKCD
3	53156009	53192717	+ 3396	
protein_coding	protein kinase C delta [Source:HGNC			
Symbol;Acc:HGNC:9399]	-	660 640	681 369	311
280	9.517106681	8.929738338	12.47631344	
6.037688852	5.629114306	3.833728628		
ENSG00000171135	909.0654679	1400.062332	970.6805277	
1571.564207	2012.450093	2191.103175	1093.269443	
1925.039158	-0.815866407	3.29E-05	0.000798388	JAGN1
3	9890572 9894349	+ 1781	protein_coding	
jagunal homolog 1 [Source:HGNC	Symbol;Acc:HGNC:26926]	-		1002
1582	835 1517	1763 2540	27.55069035	
42.0890381	29.16952806	47.32969491	60.84652118	
66.31332668				
ENSG00000150403	1389.001229	1266.428064	1710.025217	
882.6451577	965.7020866	798.8037559	1455.151503	
882.3836667	0.721616797	3.30E-05	0.000799764	TMC03
13	113490995	113554590	+ 10407	
protein_coding	transmembrane and coiled-coil domains 3 [Source:HGNC			
Symbol;Acc:HGNC:20329]	-	1531 1431	1471 852	846
926	7.204076562	6.515391546	8.794151939	
4.549106286	4.996802322	4.137294637		
ENSG00000133835	1536.883136	1217.753331	1397.314963	
993.4937866	740.8281965	673.7210944	1383.98381	
802.6810258	0.786315599	3.32E-05	0.000805397	
HSD17B4 5	119452443	119637199	+ 10664	
protein_coding	hydroxysteroid 17-beta dehydrogenase 4 [Source:HGNC			
Symbol;Acc:HGNC:5213]	-	1694 1376	1202 959	649
781	7.77896743	6.113990201	7.012795552	
4.997013404	3.740864009	3.405351259		
ENSG00000142856	954.4280162	809.7705651	848.6189044	
550.0992708	533.0766838	470.1382797	870.9391619	
517.7714114	0.751116309	3.33E-05	0.000805574	
ITGB3BP 1	63440770	63593721	- 5459	

protein_coding	integrin subunit beta 3 binding protein [Source:HGNC					
Symbol;Acc:HGNC:6157]	-	1052	915	730	531	467
545	9.436942939	7.942083351		8.31987138		
5.404972273	5.258370059	4.642099298				
ENSG00000140937	280.3405485	131.8642778		219.7109218		
97.38103852	35.38624667	27.60444945		210.6385827		
53.45724488	1.980652748	3.39E-05		0.000820037		CDH11
16	64943753	65126112		-	13381	
protein_coding	cadherin 11 [Source:HGNC					
Symbol;Acc:HGNC:1750]	-					
309	149	189	94	31	32	1.130833309
0.52762351	0.87877983	0.390347432		0.142403441		
0.111196835						
ENSG00000205542	20069.29862	23058.54871		28245.05962		
17515.11934	13826.89051	15098.77121		23790.96898		
15480.26036	0.619909906	3.42E-05		0.000825766		TMSB4X
X	12975108	12977227		+	1705	
protein_coding	thymosin beta 4 X-linked [Source:HGNC					
Symbol;Acc:HGNC:11881]	-	22121	26055	24297	16907	12113
17503	635.34418	724.0909758		886.6150866		
551.0033166	436.6914552	477.3304365				
ENSG00000162627	1220.252549	1192.973466		1803.024549		
901.2925906	794.4783124	650.4298401		1405.416855		
782.0669144	0.845393979	3.44E-05		0.00082875		SNX7
1	98661701	98760500		+	2067	
protein_coding	sorting nexin 7 [Source:HGNC					
Symbol;Acc:HGNC:14971]	-	1345	1348	1551	870	696
31.86474822	30.90123639	46.6850865		23.387878		
20.69741574	16.96140747					
ENSG00000074410	2651.894574	3166.512658		3857.147294		
5071.065783	5871.833964	4499.52526		3225.184842		
5147.475002	-0.674694518	3.52E-05		0.000847415		CA12
15	63321378	63382161		-	7313	
protein_coding	carbonic anhydrase 12 [Source:HGNC					
Symbol;Acc:HGNC:1371]	-	2923	3578	3318	4895	5144
5216	19.57320413	23.18308372		28.22849048		
37.19368138	43.23672063	33.16446742				
ENSG00000100162	479.935761	492.9423003		474.2965932		
287.9992416	255.6941695	223.4235127		482.3915515		
255.7056413	0.917004959	3.54E-05		0.000851838		CENPM
22	41938721	41947164		-	1778	
protein_coding	centromere protein M [Source:HGNC					
Symbol;Acc:HGNC:18352]	-	529	557	408	278	224
259	14.56976674	14.84396355		14.2769439		
8.68810544	7.743969288	6.773279943				
ENSG00000005022	10933.28139	10302.22858		12699.05878		
8457.646792	7642.28779	7132.299626		11311.52292		
7744.078069	0.546575788	3.55E-05		0.000853222		
SLC25A5 X	119468400	119471319		+	1500	
protein_coding	solute carrier family 25 member 5 [Source:HGNC					
Symbol;Acc:HGNC:10991]	-	12051	11641	10924	8164	6695

	8268	393.4236932	367.7269596	453.1033561	
	302.4292418	274.3510853	256.2950551		
	ENSG00000178913	2038.592921	1993.009085	2231.983968	
	2740.136669	3470.135158	3241.797532	2087.861991	
	3150.689786	-0.593869659	3.57E-05	0.00085508	TAF7
	5	141260225	141320821	- 2723	
protein_coding	TATA-box binding protein associated factor 7				
	[Source:HGNC Symbol;Acc:HGNC:11541]				
	2645	3040	3758	40.40955935	39.18746639
	43.86927266	53.97468031	68.62356919	64.1711988	
	ENSG00000214160	1685.672295	1900.084594	1587.963594	
	2497.720041	2501.008596	2753.543833	1724.573494	
	2584.090823	-0.583177365	3.58E-05	0.00085508	ALG3
	3	184242301	184249548	- 3464	
protein_coding	"ALG3, alpha-1,3- mannosyltransferase [Source:HGNC				
	Symbol;Acc:HGNC:23056]"				
	3192	26.26615543	29.36842132	24.53463846	1920
	38.67509335	38.8787107	42.8465657		
	ENSG00000143499	1134.063707	1077.039101	1016.017702	
	764.5447492	575.3118814	568.4791308	1075.706837	
	636.1119205	0.758460192	3.58E-05	0.00085508	SMYD2
	1	214281102	214337131	+ 4889	
protein_coding	SET and MYND domain containing 2 [Source:HGNC				
	Symbol;Acc:HGNC:20982]				
	659	12.52041313	11.79497383	11.12239314	504
	8.387805826	6.336622854	6.267529625		
	ENSG00000131408	1976.899855	2703.660193	2347.070641	
	3009.488478	4179.001583	4335.623842	2342.543563	
	3841.371301	-0.713594073	3.58E-05	0.00085508	NR1H2
	19	50329653	50382982	+ 3753	
protein_coding	nuclear receptor subfamily 1 group H member 2				
	[Source:HGNC Symbol;Acc:HGNC:7965]				
	2019	2905	3661	5026	28.431996
	33.47068504	43.01100753	59.96095271	62.26943683	3055
	ENSG00000182446	5103.286684	5242.711287	4637.179191	
	6254.141804	7838.624384	8411.59333	4994.392387	
	7501.453173	-0.586805316	3.59E-05	0.00085508	NPL0C4
	17	81556887	81648465	- 9574	
protein_coding	"NPL4 homolog, ubiquitin recognition factor				
	[Source:HGNC Symbol;Acc:HGNC:18261]"				
	6037	6867	9751	28.77118749	29.31892669
	25.92253442	35.03803938	44.08805953	47.35728011	
	ENSG00000166965	578.8261163	707.1111273	782.3568804	
	420.6032089	373.2678278	350.2314524	689.4313747	
	381.3674964	0.853931851	3.61E-05	0.000859684	RCCD1
	15	90954870	90963125	+ 4969	
protein_coding	RCC1 domain containing 1 [Source:HGNC				
	Symbol;Acc:HGNC:30457]				
	406	6.287534275	7.619109644	8.426610382	327
	4.54013828	4.045070695	3.799164119		

ENSG00000122565	7286.132508	6954.291913	6758.726452		
5496.848834	4478.072442	4188.112565	6999.716958		
4721.01128	0.568349707	3.63E-05	0.000862405	CBX3	
7	26201162	26213356	+ 4641		
protein_coding	chromobox 3 [Source:HGNC Symbol;Acc:HGNC:1553]			-	
8031	7858	5814	5306	3923	4855
80.22817199		77.94177746	63.52837124	84.73966466	51.95820031
48.64169318					
ENSG00000136270	2555.725971	3244.392231	2677.21827		
3795.788565	4478.072442	4653.937649	2825.778824		
4309.266219	-0.608682852	3.64E-05	0.000864554	TBRG4	
7	45100100	45112047	- 5803		
protein_coding	transforming growth factor beta regulator 4				
[Source:HGNC Symbol;Acc:HGNC:17443]			-	2817	3666
3664	3923	5395	23.77184884	29.93410867	2303
24.69154207	35.08447144	41.5540251	43.22847318		
ENSG00000149273	25603.52951	35628.13487	35733.83083		
42832.11742	51934.45371	56534.77511	32321.83174		
50433.78208	-0.641912398	3.69E-05	0.000875326	RPS3	
11	75399486	75422280	+ 5894		
protein_coding	ribosomal protein S3 [Source:HGNC				
Symbol;Acc:HGNC:10420]			-	28221	40258
65537	234.47198	323.644704	30739	41345	45497
389.7848081	474.4822709	517.0201198	324.4788918		
ENSG00000150556	126.1078843	130.0942875	172.0487642		
25.89921237	61.64055872	21.56597613	142.750312		
36.36858241	1.982396574	3.72E-05	0.000881357	LYPD6B	
2	149038107	149215262	+ 3771		
protein_coding	LY6/PLAUR domain containing 6B [Source:HGNC				
Symbol;Acc:HGNC:27018]			-	139	147
25	1.805040503	1.847086538	148	25	54
0.368379556	0.880206533	0.308258098	2.441810909		
ENSG00000138092	712.1920083	645.1614666	684.7075818		
402.9917445	424.6349601	334.7039496	680.6870189		
387.4435514	0.814403099	3.74E-05	0.000883507	CENPO	
2	24793136	24822376	+ 5518		
protein_coding	centromere protein 0 [Source:HGNC				
Symbol;Acc:HGNC:28152]			-	785	729
388	6.966532125	6.259970304	589	389	372
3.91723791	4.143893678	3.269497786	6.641106506		
ENSG00000067955	3852.187602	3907.253601	4173.345023		
2829.22996	2794.371995	2780.285643	3977.595409		
2801.295866	0.505673665	3.76E-05	0.000887476	CBFB	
16	67029116	67101058	+ 4129		
protein_coding	core-binding factor subunit beta [Source:HGNC				
Symbol;Acc:HGNC:1539]	CBF	4246	4415	3590	2731
3223	50.35745699	50.66549218	54.09491121	2448	
36.75266711	36.44298068	36.29496992			
ENSG00000196449	918.1379776	1157.57366	995.0928523		
1652.369749	1656.304643	1512.206246	1023.601497		



1606.960213	-0.650193501	3.79E-05	0.000893116	YRDC
1	37802944	37808185	- 1826	
protein_coding	yrDC N6-threonylcarbamoyltransferase domain containing			
[Source:HGNC Symbol;Acc:HGNC:28905]	-	1012	1308	856
1595	1451 1753	27.13991123	33.94168602	
29.16619923	48.53689138	48.84431231	44.63876401	
ENSG00000227051	966.2222788	896.5000901	1246.191049	
643.3364353	626.6790137	520.1713443	1036.304473	
596.7289311	0.796163483	3.83E-05	0.000901391	
C14orf132	14 96039324	96093889	+	7775
protein_coding	chromosome 14 open reading frame 132			
[Source:HGNC Symbol;Acc:HGNC:20346]	-	1065	1013	1072
621	549 603	6.707765842	6.173557372	
8.578300078	4.438162976	4.340295584	3.606184419	
ENSG00000166670	53.52780699	40.70977704	39.5247161	
290.0711786	141.5449867	86.26390453	44.58743338	
172.6266899	-1.950019127	3.83E-05	0.000901901	MMP10
11	102770503	102780628	- 1758	
protein_coding	matrix metalloproteinase 10 [Source:HGNC			
Symbol;Acc:HGNC:7156]	-	59 46	34 280	124
100	1.643470165	1.23983931	1.203280539	
8.85016167	4.335609654	2.644917605		
ENSG00000142798	1429.827522	1272.62303	2122.709753	
932.3716454	999.9468415	692.6991534	1608.386768	
875.0058801	0.878309732	3.85E-05	0.000904528	HSPG2
1	21822245	21937297	- 18104	
protein_coding	heparan sulfate proteoglycan 2 [Source:HGNC			
Symbol;Acc:HGNC:5273]	-	1576 1438	1826 900	876
803	4.262951148	3.763663488	6.27527957	
2.762358318	2.974246269	2.062395833		
ENSG00000019549	1090.515661	868.1802452	1274.090848	
600.861727	695.1685234	554.6769061	1077.595585	
616.9023855	0.804731212	3.87E-05	0.000908747	SNAI2
8	48917604	48921740	- 3392	
protein_coding	snail family transcriptional repressor 2 [Source:HGNC			
Symbol;Acc:HGNC:11094]	zf-C2H2	1202 981	1096 580	609
643	17.35310952	13.7037556	20.10303169	
9.501325436	11.03592675	8.814265895		
ENSG00000106397	1886.174758	2055.843741	2286.621075	
1272.169312	1512.476672	1196.480356	2076.213191	
1327.042113	0.646041629	3.92E-05	0.000917777	PL0D3
7	101205977	101218420	- 5671	
protein_coding	"procollagen-lysine,2-oxoglutarate 5-dioxygenase 3			
[Source:HGNC Symbol;Acc:HGNC:9083]"	-	2079	2323	1967
1228	1325 1387	17.95244172	19.40957399	
21.58000591	12.0323585	14.36162529	11.37228754	
ENSG00000165424	1555.028156	1314.217802	1915.786239	
889.8969371	1103.822598	715.9904076	1595.010732	
903.2366475	0.820897677	3.97E-05	0.000929706	
ZCCHC24 10	79382325	79445627	- 5051	

protein_coding	zinc finger CCHC-type containing 24 [Source:HGNC					
Symbol;Acc:HGNC:26911]	-	1714	1485	1648	859	967
830	16.61736398	13.93078296		20.29956285		
9.449913625	11.76783216	7.640675261				
ENSG00000142230	5036.150112	5088.72213		5757.821142		
3822.723746	3633.368489	3687.781919		5294.231128		
3714.624718	0.511002963	3.99E-05		0.000932508		SAE1
19	47113274	47210636		+ 3396		
protein_coding	SUM01 activating enzyme subunit 1 [Source:HGNC					
Symbol;Acc:HGNC:30660]	-	5551	5750	4953	3690	3183
4275	80.04463513	80.22811788		90.74182155		
60.37688852	57.61244642	58.53282101				
ENSG00000198440	88.0033437	56.6396898		58.12458249		
225.8411319	165.5163151	179.4289214		67.58920533		
190.2621228	-1.490981623	4.03E-05		0.000940736		ZNF583
19	56397966	56436035		+ 8060		
protein_coding	zinc finger protein 583 [Source:HGNC					
Symbol;Acc:HGNC:26427]	zf-C2H2	97	64	50	218	145
208	0.589339263	0.376245551		0.385959566		
1.502911804	1.10580951	1.199939394				
ENSG00000204619	1022.471839	1149.608704		1019.505177		
1456.571704	1769.312334	1766.684765		1063.861907		
1664.189601	-0.64526414	4.04E-05		0.000940736		
PPP1R11 6	30066709	30070333		+ 2538		
protein_coding	protein phosphatase 1 regulatory inhibitor subunit 11					
[Source:HGNC Symbol;Acc:HGNC:9285]	-			1127	1299	877
1406	1550	2048		21.7450786	24.25179978	
21.49882983	30.78263172	37.53940983		37.52056354		
ENSG00000189326	0.907250966	3.539980612		2.3249833		
21.75533839	20.54685291	84.53862644		2.257404959		
42.28027258	-4.230450857	4.04E-05		0.000940736		
SPANXN4 X	143025918	143034702		+ 625		
protein_coding	SPANX family member N4 [Source:HGNC					
Symbol;Acc:HGNC:33177]	-	1	4	2	21	18
98	0.078351744	0.303253914		0.199093382		
1.867030106	1.770271379	7.290831755				
ENSG00000140511	342.9408651	308.8633084		418.496994		
165.7549592	190.6291353	151.824472		356.7670558		
169.4028555	1.07493996	4.08E-05		0.000947439		HAPLN3
15	88877288	88895626		- 3524		
protein_coding	hyaluronan and proteoglycan link protein 3					
[Source:HGNC Symbol;Acc:HGNC:21446]	-			378	349	360
160	167	176		5.252724023	4.692626276	
6.355847197	2.522877285	2.912915803		2.322243662		
ENSG00000100836	635.9829272	1080.579082		828.8565464		
306.6466745	392.6731889	540.8746814		848.4728518		
413.3981816	1.03601478	4.10E-05		0.000951073		PABPN1
14	23321289	23326185		+ 3876		
protein_coding	poly(A) binding protein nuclear 1 [Source:HGNC					
Symbol;Acc:HGNC:8565]	-	701	1221	713	296	344

627	8.85651644	14.92651207	11.44491596	
4.243458765	5.455342657	7.521678919		
ENSG00000144152	137.9021468	157.5291373	165.0738143	
50.76245625	18.26386925	1.725278091	153.5016995	
23.58386786	2.710819276	4.12E-05	0.000956017	FBLN7
2	112138385	112188216	+ 6578	
protein_coding	fibulin 7 [Source:HGNC Symbol;Acc:HGNC:26740]			-
152	178	142	49	16
2	2	2	2	2
1.282190557	1.343078268	0.413917944	0.149511113	
0.014137322				
ENSG00000132481	509.8750429	538.0770531	789.3318303	
379.1644691	260.2601368	251.8906012	612.4279754	
297.1050691	1.042722254	4.14E-05	0.000957757	TRIM47
17	75874161	75878575	- 3142	
protein_coding	tripartite motif containing 47 [Source:HGNC Symbol;Acc:HGNC:19020]			-
292	8.759086564	9.16903941	13.44529824	228
6.472721905	4.460422794	4.321233048		
ENSG00000205544	64.41481858	110.6243941	155.7738811	
4.14387398	19.40536108	31.05500563	110.2710313	
18.20141356	2.5872261	4.17E-05	0.000965061	
TMEM256	17	7402975	7404137	- 707
transmembrane protein 256	[Source:HGNC Symbol;Acc:HGNC:28618]			-
71	125	134	4	17
36	36	36	36	36
8.377550222	11.79212926	0.314378343	1.478008283	
2.367631477				
ENSG00000141756	4665.991718	6018.852036	6215.842852	
3568.911465	4096.814171	3439.341874	5633.562202	
3701.68917	0.605922148	4.19E-05	0.000966842	FKBP10
17	41812680	41823217	+ 4273	
protein_coding	FK506 binding protein 10 [Source:HGNC Symbol;Acc:HGNC:18169]			-
3987	58.94029634	75.41649122	77.85457493	3589
44.79900591	51.62831198	43.38547543		
ENSG00000234741	3235.256945	4194.877026	2915.529058	
5814.891162	5303.371034	4973.114096	3448.554343	
5363.792097	-0.636849912	4.21E-05	0.000971452	GAS5
1	173863900	173868882	- 3631	
processed_transcript	growth arrest specific 5 [Source:HGNC Symbol;Acc:HGNC:16355]			-
5765	48.09321092	61.85553016	42.97423257	4646
85.89756188	78.65028791	73.82510628		
ENSG00000166734	2385.16279	1872.649744	2329.633266	
1591.247608	1294.451733	1256.00245	2195.815267	
1380.567264	0.66944449	4.23E-05	0.000975392	CASC4
15	44288729	44415758	+ 7095	
protein_coding	cancer susceptibility 4 [Source:HGNC Symbol;Acc:HGNC:24892]			-
1456	18.14541352	14.13154691	17.5732531	1134
12.02959094	9.824444757	9.542012767		

ENSG00000173465	689.5107341	1015.089441	888.1436205		
1044.256243	1872.046598	2171.262477	864.2479318		
1695.855106	-0.972802782	4.30E-05	0.000988017	SSSCA1	
11	65570430	65573942	+ 2008		
protein_coding	Sjogren syndrome/scleroderma autoantigen 1				
[Source:HGNC Symbol;Acc:HGNC:11328]	-	760	1147	764	
1008	1640 2517	18.53440153	27.06612918		
23.67208419	27.89387609	50.2027491	58.28415778		
ENSG00000081059	88.91059467	58.40968011	166.2363059		
27.97114936	15.98088559	3.450556181	104.5188602		
15.80086371	2.735497414	4.30E-05	0.000988017	TCF7	
5	134114711	134151865	+ 10063		
protein_coding	transcription factor 7 [Source:HGNC				
Symbol;Acc:HGNC:11639]	HMG	98 66	143 27	14	
4	0.476899961	0.310772731	0.884128543		
0.149089938	0.085516107	0.01848262			
ENSG00000023902	1917.021291	2294.792432	2327.308283		
1456.571704	1506.769213	1322.425656	2179.707335		
1428.588858	0.609710298	4.34E-05	0.0009949		
PLEKH01 1	150149183	150164720	+ 6565		
protein_coding	pleckstrin homology domain containing 01 [Source:HGNC				
Symbol;Acc:HGNC:24310]	-	2113 2593	2002 1406	1320	
1533	15.76135134	18.71518943	18.97300798		
11.90042945	12.35909188	10.85771512			
ENSG000000236938	1.814501932	4.424975766	1.16249165		
60.0861727	39.95221399	20.70333709	2.467323116		
40.24724126	-3.99387745	4.40E-05	0.001008025		
AC003092.2	7 94071759	94077157	-	446	
lincRNA	novel transcript		- 2 5	1	
58	35 24	0.219595694	0.531204306		
0.139499287	7.226120152	4.823702842	2.502115776		
ENSG000000251361	73.48732824	55.75469465	56.96209084		
10.35968495	0 8.626390453	62.06803791	6.328691801		
3.271115085	4.42E-05	0.001011586	AC012625.1		
5	93019663	93068669	- 625		
lincRNA	novel transcript		- 81 63	49 10	
0	10 6.346491242	4.776249145	4.877787869		
0.889061955	0	0.743962424			
ENSG00000164077	650.4989426	816.8505263	691.6825317		
1068.083518	1119.803483	1552.750281	719.6773335		
1246.879094	-0.793349521	4.47E-05	0.001020262	MON1A	
3	49907160	49930173	- 6446		
protein_coding	"MON1 homolog A, secretory trafficking associated				
[Source:HGNC Symbol;Acc:HGNC:28207]"	-	717	923	595	
1031	981 1800	5.447002041	6.784812349		
5.742929847	8.887516249	9.35461819	12.98414097		
ENSG00000177565	3371.34459	2755.874907	3124.777555		
2290.526342	1965.648928	1683.871416	3083.999017		
1980.015562	0.639584377	4.47E-05	0.001020262		
TBL1XR1 3	177019340	177228000	- 11603		

protein_coding	transducin beta like 1 X-linked receptor 1					
[Source:HGNC Symbol;Acc:HGNC:29529]	-		3716	3114	2688	
2211	1722	1952	15.6831789	12.71670969		
14.4133794	10.58840377		9.122423185	7.822409353		
ENSG00000081320	2656.430828		1843.444904	2372.645457		
1642.010064	1246.509076		882.4797433	2290.840397		
1256.999628	0.866401589		4.49E-05	0.00102358	STK17B	
2	196133566		196176503	-	6580	
protein_coding	serine/threonine kinase 17b [Source:HGNC					
Symbol;Acc:HGNC:11396]	-	2928	2083	2041	1585	1092
1023	21.7908345		14.9999502	19.29851793		
13.38490881	10.20103188		7.229042171			
ENSG00000178773	3.629003864		14.15992245	1.16249165		
30.04308635	78.76293614		89.71446071	6.317139321		
66.1734944	-3.358994427		4.50E-05	0.001024554	CPNE7	
16	89575768		89597246	+	3048	
protein_coding	copine 7 [Source:HGNC Symbol;Acc:HGNC:2320]				-	
4	16	1	29	69	104	0.064264882
0.248731885	0.020412297		0.528682675	1.391494481		
1.586534041						
ENSG00000173039	2517.621431		2899.244122	3241.02672		
3598.954551	5355.879658		4955.861315	2885.964091		
4636.898508	-0.684340463		4.51E-05	0.001024554	RELA	
11	65653596		65663094	-	5464	
protein_coding	"RELA proto-oncogene, NF-kB subunit [Source:HGNC					
Symbol;Acc:HGNC:9955]"	RHD	2775	3276	2788	3474	4692
5745	24.8702975		28.4092418	31.74599367		
35.32898555	52.78307324		48.88891066			
ENSG00000074696	2680.926604		2699.235217	3024.803273		
1936.225117	2013.591585		1728.728647	2801.655032		
1892.84845	0.565854154		4.53E-05	0.001029582	HACD3	
15	65530418		65578352	+	7097	
protein_coding	3-hydroxyacyl-CoA dehydratase 3 [Source:HGNC					
Symbol;Acc:HGNC:24175]	-	2955	3050	2602	1869	1764
2004	20.38972477		20.36345546	22.81073786		
14.63344366	15.27816288		13.12967361			
ENSG00000035862	10141.2513		8144.610394	12948.99449		
5159.123105	3863.949838		2424.878356	10411.61873		
3815.983766	1.448121648		4.60E-05	0.001043146	TIMP2	
17	78852977		78925387	-	5633	
protein_coding	TIMP metalloproteinase inhibitor 2 [Source:HGNC					
Symbol;Acc:HGNC:11821]	-	11178	9203	11139	4980	3385
2811	97.17466175		77.41339456	123.0306446		
49.12489501	36.93739656		23.20342595			
ENSG00000259807	51.71330506		51.32971888	58.12458249		
4.14387398	5.707459141		10.35166854	53.72253548		
6.734333888	2.977811496		4.61E-05	0.001043146		
AC009093.1	16	29217170	29220031	-	2099	
lincRNA	novel transcript				57	58
4	5	12	1.329814612	1.309308526	50	

1.482055312	0.105891133	0.146421525	0.26582745	
ENSG00000168939	71.67282631	42.47976735	49.98714095	
112.9205659	182.6386925	232.0499032	54.71324487	
175.8697205	-1.684621077	4.63E-05	0.001048396	SPRY3
X	155767812	155782459	+ 9019	
protein_coding	sprouty RTK signaling antagonist 3 [Source:HGNC			
Symbol;Acc:HGNC:11271]	-	79 48	43 109	160
269	0.42894083	0.252179217	0.296631259	
0.671552785	1.090458033	1.386835376		
ENSG00000140525	2172.866064	1762.02535	2156.422011	
1546.700963	978.2584967	827.2708444	2030.437808	
1117.410101	0.861917788	4.72E-05	0.001065642	FANCI
15	89243949	89317261	+ 7766	
protein_coding	FA complementation group I [Source:HGNC			
Symbol;Acc:HGNC:25568]	-	2395 1991	1855 1493	857
959	15.10208169	12.14787501	14.86118273	
10.68253846	6.783140237	5.741855239		
ENSG00000140612	1643.031499	1777.955263	2350.558116	
1319.823863	1155.18973	958.3919793	1923.848293	
1144.468524	0.749217047	4.72E-05	0.001065642	SEC11A
15	84669538	84716716	- 5748	
protein_coding	"SEC11 homolog A, signal peptidase complex subunit			
[Source:HGNC Symbol;Acc:HGNC:17718]"	-		1811 2009	2022
1274	1012 1111	15.42873694	16.56111672	
21.88624409	12.31585911	10.8220893	8.987280935	
ENSG00000106333	1799.985917	2024.86891	3010.853373	
715.85423	725.9888027	264.8301869	2278.5694	
568.8910732	2.002387646	4.74E-05	0.001067805	PCOLCE
7	100602177	100608175	+ 3532	
protein_coding	procollagen C-endopeptidase enhancer [Source:HGNC			
Symbol;Acc:HGNC:8738]	-	1984 2288	2590 691	636
307	27.5074072	30.69458501	45.62321812	
10.87099751	11.06837286	4.041556911		
ENSG00000186416	910.8799698	889.4201289	769.5694722	
1325.003705	1225.962223	1644.19002	856.6231903	
1398.385316	-0.707043023	4.87E-05	0.001096182	NKRF
X	119588337	119606443	- 4552	
protein_coding	NFKB repressing factor [Source:HGNC			
Symbol;Acc:HGNC:19374]	Others	1004 1005	662 1279	1074
1906	10.80090492	10.46141063	9.048208147	
15.6127834	14.50271753	19.46935935		
ENSG00000136068	1417.126009	1214.21335	1613.53841	
913.7242125	909.7689871	600.3967755	1414.959256	
807.963325	0.809126646	4.95E-05	0.001111229	FLNB
3	58008400	58172251	+ 13952	
protein_coding	filamin B [Source:HGNC Symbol;Acc:HGNC:3755]			-
1562	1372 1388	882 797	696 5.482431896	
4.659551161	6.189560968	3.512725078	3.511310329	
2.319550276				
ENSG00000116977	535.2780699	463.7374602	463.8341683	

833.9546384	786.4878696	804.8422292	487.6165662	
808.4282458	-0.728958014	4.95E-05	0.001111229	LGALS8
1	236518000	236552981	+ 9710	
protein_coding	galectin 8 [Source:HGNC Symbol;Acc:HGNC:6569]			-
590	524	399	805	689
	2.557045747	2.556586624	4.606686882	2.97551035
	4.467796998			4.361615246
ENSG00000114023	1066.927136	1223.063302	1406.614896	
1706.240111	2055.826783	2102.251353	1232.201778	
1954.772749	-0.666581067	4.96E-05	0.001111229	
FAM162A	3	122384176	122412334	+ 3793
protein_coding	family with sequence similarity 162 member A			
[Source:HGNC Symbol;Acc:HGNC:17865]	-	1176	1382	1210
1647	1801	2437	15.18284515	17.26440602
19.84766286	24.128082	29.18624544	29.87471044	
ENSG00000167658	56230.50762	55801.59939	64778.6847	
74669.50121	87307.00248	89552.28457	58936.93057	
83842.92942	-0.508540129	5.04E-05	0.001127522	EEF2
19	3976056	3985469	- 4027	protein_coding
eukaryotic translation elongation factor 2	[Source:HGNC			
Symbol;Acc:HGNC:3214]	-	61979	63053	55724
	103812	753.6880315	741.9088743	72077
			860.9293241	76485
994.5511322	1167.459979	1198.662577		
ENSG00000151503	3546.444026	3113.412949	3170.114729	
2572.309773	1795.566646	1794.289214	3276.657235	
2054.055211	0.673904962	5.11E-05	0.001142526	NCAPD3
11	134150119	134225454	- 9114	
protein_coding	non-SMC condensin II complex subunit D3 [Source:HGNC			
Symbol;Acc:HGNC:28952]	-	3909	3518	2727
	2080	21.00319332	18.28998089	2483
			18.61585383	1573
15.13839172	10.60881946	10.61170892		
ENSG00000143756	2103.91499	2000.089046	1668.175518	
2827.158023	2762.410224	3073.582918	1924.059851	
2887.717055	-0.585378061	5.12E-05	0.001143019	FBX028
1	224114087	224162047	+ 6044	
protein_coding	F-box protein 28 [Source:HGNC Symbol;Acc:HGNC:29046]			
-	2319	2260	1435	2729
			2420	3563
18.78905668	17.71782567	14.7718297	25.089449	
24.6115106	27.41084254			
ENSG0000010404	5944.308329	5872.827836	5790.370908	
8903.113245	7564.666345	8254.593024	5869.169024	
8240.790872	-0.489649541	5.15E-05	0.001148024	IDS
X	149476990	149521096	- 9292	
protein_coding	iduronate 2-sulfatase [Source:HGNC			
Symbol;Acc:HGNC:5389]	-	6552	6636	4981
	9569	34.529745	33.83947504	8594
			33.35140907	6627
51.39231626	43.83844387	47.88377391		
ENSG00000152234	6901.458098	6482.589497	8498.976452	
5433.654756	4732.62512	3789.573326	7294.341349	
4651.951067	0.648971882	5.16E-05	0.001148024	

ATP5F1A 18	46080248	46104334	-	10908	
protein_coding	ATP synthase F1 subunit alpha	[Source:HGNC			
Symbol;Acc:HGNC:823]	-	7607 7325	7311 5245	4146	
4393	34.15049245	31.81917686	41.70023489		
26.71852055	23.36315707	18.72608939			
ENSG00000166130	920.8597305	659.3213891	795.1442885		
511.7684365	430.3424192	365.7589552	791.775136		
435.9566036	0.861706403	5.16E-05	0.001148024	IKBIP	
12	98613405	98645113	- 4163		
protein_coding	IKBKB interacting protein	[Source:HGNC			
Symbol;Acc:HGNC:26430]	-	1015 745	684 494	377	
424	11.9395598	8.479618285	10.22248631		
6.59375159	5.566501104	4.735768493			
ENSG0000010165	2202.805345	2508.961259	2105.272378		
3002.236698	3487.257535	3740.4029	2272.346327		
3409.965711	-0.585416614	5.22E-05	0.001160138		
METTL13 1	171781664	171814023	+ 3827		
protein_coding	methyltransferase like 13	[Source:HGNC			
Symbol;Acc:HGNC:24248]	-	2428 2835	1811 2898	3055	
4336	31.06840113	35.10112548	29.44196789		
42.07769706	49.06819839	52.6819485			
ENSG00000158321	949.8917614	945.1748235	756.7820641		
595.6818846	463.4456822	319.1764468	883.9495497		
459.4346712	0.946059384	5.23E-05	0.001160138	AUTS2	
7	69598296	70793495	+ 24197		
protein_coding	"AUTS2, activator of transcription and developmental	regulator [Source:HGNC			
Symbol;Acc:HGNC:14262]"	-	1047 1068	2.091395499		
651	575 406	370 2.11891649	0.711002647		
1.673887671	1.320439063	1.031363765			
ENSG00000124813	1100.495422	946.0598187	1163.654142		
726.2139149	597.0002261	634.0396983	1070.069794		
652.4179464	0.71320401	5.31E-05	0.001177005	RUNX2	
6	45328157	45664349	+ 8192		
protein_coding	runt related transcription factor 2	[Source:HGNC			
Symbol;Acc:HGNC:10472]	Runt	1213 1069	1001 701	523	
735	7.251027309	6.183212929	7.602404625		
4.754886098	3.924272034	4.171847394			
ENSG00000138411	609.6726491	650.4714375	452.2092518		
1039.0764	908.6274952	992.0349021	570.7844462		
979.9129326	-0.778156216	5.35E-05	0.001184421	HECW2	
2	196189099	196593692	- 23683		
protein_coding	"HECT, C2 and WW domain containing E3 ubiquitin	protein ligase 2 [Source:HGNC			
Symbol;Acc:HGNC:29853]"	-	796 1150	1.389508608	672	
735	389 1003	2.353294402	2.065968583		
1.470540754	1.021926669				
2.257834701					
ENSG00000083845	25465.62736	30269.48922	33112.41216		
38855.03437	46667.61041	44098.10799	29615.84291		
43206.91759	-0.54492582	5.37E-05	0.001187215	RPS5	
19	58386400	58394806	+ 3617		



protein_coding	ribosomal protein S5 [Source:HGNC						
Symbol;Acc:HGNC:10426]	-	28069	34203	28484	37506	40883	
51120	380.020579	448.0661468		489.9585209			
576.1880995	694.7708813	657.1633798					
ENSG00000130487	1.814501932	1.769990306		6.974949899			
38.33083431	30.82027936	60.38473317		3.519814046			
43.17861561	-3.669003967	5.38E-05		0.001187215			
KLHDC7B 22	50545891	50551023		+	5133		
protein_coding	kelch domain containing 7B [Source:HGNC						
Symbol;Acc:HGNC:25145]	-	2	2	6	37	27	
70	0.019080397	0.018462273		0.07272552			
0.400536873	0.323325427	0.634100059					
ENSG00000162772	141.5311507	90.26950562		73.23697394			
295.251021	307.0613018	199.2696195		101.6792101			
267.1939808	-1.388925056	5.49E-05		0.001210663		ATF3	
1	212565334	212620777		+	4040		
protein_coding	activating transcription factor 3 [Source:HGNC						
Symbol;Acc:HGNC:785]	TF_bZIP	156	102	63	285	269	
231	1.890914607	1.196314172		0.970210635			
3.91990497	4.092778818	2.658652846					
ENSG00000236453	55.34230892	69.02962194		27.8997996			
152.2873688	254.5526777	124.2200225		50.75724349			
177.020023	-1.79259661	5.50E-05		0.001211947			
AC003092.1	7	94022833		94066661	+	1064	
lincRNA	novel transcript		-	61	78	24	
147	223	144		2.807481419	3.473596876		
1.403383805	7.676933002	12.88280981		6.292915241			
ENSG00000113070	792.0300933	896.5000901		1052.054943			
581.1783256	454.3137476	555.5395452		913.5283755			
530.3438728	0.78299066	5.55E-05		0.001222148		HBEGF	
5	140332843	140346631		-	3018		
protein_coding	heparin binding EGF like growth factor [Source:HGNC						
Symbol;Acc:HGNC:3059]	-	873	1013	905	561	398	
644	14.165232	15.9043766		18.65675852			
10.32893797	8.10608581	9.921964071					
ENSG00000151693	575.1971124	428.3376541		570.7834001			
337.7257293	186.063168	222.5608737		524.7727222			
248.783257	1.076032398	5.58E-05		0.001225859		ASAP2	
2	9206765	9405683	+	7257			
protein_coding	"ArfGAP with SH3 domain, ankyrin repeat and PH domain						
2 [Source:HGNC	Symbol;Acc:HGNC:2721]"	-		634	484	491	
326	163	258		4.278197389	3.160200805		
4.209506802	2.496160581	1.380631702		1.65307897			
ENSG00000229056	268.5462859	247.7986429		266.2105878			
141.9276838	59.35757507	94.89029498		260.8518389			
98.72518462	1.3997431	5.70E-05		0.001251055			
AC020571.1	2	196260024		196264204	+	1607	
antisense	uncharacterized LOC101927482 [Source:NCBI						
gene;Acc:101927482]	-	296	280	229	137	52	
110	9.019958052	8.2559793		8.865973976			

4.737145608	1.989000201	3.182788839				
ENSG00000144366	300.3000697	189.3889628	225.5233801			
533.5237749	461.1626986	438.220635	238.4041375			
477.6357028	-1.001855008	5.71E-05	0.001251788			GULP1
2	188291669	188595931	+	11979		
protein_coding	"GULP, engulfment adaptor PTB domain containing				1	
[Source:HGNC Symbol;Acc:HGNC:18649]"	-		331	214		194
515	404	508	1.353119374	0.846485746		
1.007599658	2.388904056	2.073042283	1.97185132			
ENSG00000196235	4262.265038	4898.448173	4537.20491			
5807.639382	6722.245376	8098.455357	4565.972707			
6876.113372	-0.590799149	5.73E-05	0.001253569			SUPT5H
19	39436156	39476670	+	8568		
protein_coding	"SPT5 homolog, DSIF elongation factor subunit					
[Source:HGNC Symbol;Acc:HGNC:11469]"	-		4698	5535		3903
5606	5889	9388	26.85110966	30.61009012		
28.34170283	36.35680235	42.24832124	50.94770685			
ENSG00000152661	5962.453348	5674.588922	9070.922344			
4564.477189	4423.280834	3547.171754	6902.654871			
4178.309926	0.724139454	5.74E-05	0.001254944			GJA1
6	121435577	121449727	+	3413		
protein_coding	gap junction protein alpha 1 [Source:HGNC					
Symbol;Acc:HGNC:4274]"	-	6572	6412	7803	4406	3875
4112	94.29527904	89.01919574	142.2434133			
71.73320713	69.78832562	56.0206103				
ENSG00000100442	719.450016	669.9413309	803.2817301			
404.027713	436.0498784	453.7481378	730.8910257			
431.2752431	0.760002739	5.75E-05	0.001256279			FKBP3
14	45115600	45135319	-	2262		
protein_coding	FK506 binding protein 3 [Source:HGNC					
Symbol;Acc:HGNC:3719]"	-	793	757	691	390	382
526	17.16758753	15.85731742	19.00606864			
9.580409	10.38049641	10.81245123				
ENSG00000153774	892.7349505	1133.678791	1175.279058			
695.1348601	609.5566362	630.5891421	1067.230933			
645.0935461	0.725760681	5.78E-05	0.001261353			CFDP1
16	75293698	75433485	-	3317		
protein_coding	craniofacial development protein 1 [Source:HGNC					
Symbol;Acc:HGNC:1873]"	-	984	1281	1011	671	534
731	14.52707941	18.29911553	18.96323953			
11.24058961	9.8956231	10.24714599				
ENSG00000078177	411.8919386	284.0834442	328.9851369			
607.077538	614.1226036	643.5287278	341.6535065			
621.5762898	-0.86334193	5.80E-05	0.001262444			N4BP2
4	40056826	40158252	+	9835		
protein_coding	NEDD4 binding protein 2 [Source:HGNC					
Symbol;Acc:HGNC:29851]"	-	454	321	283	586	538
746	2.260529465	1.546525584	1.790271582			
3.310817907	3.362445638	3.526918965				
ENSG00000108055	3451.182675	2739.944994	3070.140447			

2395.15916	1575.258723	1697.673641	3087.089372	
1889.363841	0.708340524	5.91E-05	0.0012851	SMC3
10	110567691	110604636	+ 4275	
protein_coding	structural maintenance of chromosomes 3 [Source:HGNC			
Symbol;Acc:HGNC:2468]	-	3804 3096	2641 2312	1380
1968	43.57456625	34.31557447	38.43608355	
30.05133393	19.84222306	21.40523466		
ENSG00000178999	1659.362017	1762.910345	1990.185705	
716.8901985	574.1703896	237.2257375	1804.152689	
509.4287752	1.824989804	5.92E-05	0.001287552	AURKB
17	8204733 8210600	- 2241	protein_coding	aurora
kinase B [Source:HGNC	Symbol;Acc:HGNC:11390]			
	-	1829	1992	
1712	692 503	275	39.96690632	42.11859916
47.53010245	17.15837999	13.79664497	5.705869774	
ENSG00000144559	389.2106644	364.6180031	428.9594188	
554.2431448	773.9314595	819.507093	394.2626954	
715.8938991	-0.861798816	6.01E-05	0.001305061	TAMM41
3	11790442	11846919	- 5925	
protein_coding	TAM41 mitochondrial translocator assembly and			
maintenance homolog	[Source:HGNC Symbol;Acc:HGNC:25187]			
	-			429
412	369 535	678 950	3.545664352	
3.294847377	3.874760449	5.017385507	7.033778686	
7.45531965				
ENSG00000168542	113.4063707	115.0493699	254.5856713	
34.18696033	60.49906689	12.07694663	161.013804	
35.58765795	2.186895072	6.12E-05	0.001326927	COL3A1
2	188974320	189012746	+ 6811	
protein_coding	collagen type III alpha 1 chain [Source:HGNC			
Symbol;Acc:HGNC:2201]	-	125 130	219 33	53
14	0.898727056	0.904396583	2.000507027	
0.269224825	0.478313182	0.095575851		
ENSG00000154133	700.3977457	762.865822	749.8071142	
1136.457439	1041.040547	1671.79447	737.6902273	
1283.097485	-0.799576129	6.14E-05	0.001328433	ROB04
11	124883691	124898500	- 7033	
protein_coding	roundabout guidance receptor 4 [Source:HGNC			
Symbol;Acc:HGNC:17985]	-	772 862	645 1097	912
1938	5.375332909	5.807551761	5.705923488	
8.667184744	7.970793925	12.81280373		
ENSG00000141543	2618.326288	3320.501815	3122.452572	
4297.197317	4528.298082	4403.772326	3020.426891	
4409.755908	-0.545996994	6.16E-05	0.001331451	EIF4A3
17	80135214	80147183	- 4967	
protein_coding	eukaryotic translation initiation factor 4A3			
[Source:HGNC	Symbol;Acc:HGNC:18683]			
	-	2886	3752	2686
4148	3967 5105	28.45318256	35.79275358	
33.64485763	46.40412963	49.09252847	47.78951297	
ENSG00000125648	594.2493827	631.8865393	530.0961924	
997.6376606	924.6083808	917.8479442	585.4107048	
946.6979952	-0.692419709	6.16E-05	0.001331451	

SLC25A23	19	6436079	6465203	-	4859	protein_coding
	solute carrier family 25 member 23 [Source:HGNC					
Symbol;Acc:HGNC:19375]	-	655	714	456	963	810
1064	6.601202941	6.962701127	5.83881601			
11.01263973	10.24673442	10.18182778				
ENSG00000083857	2778.002458	2193.902985	3352.625918			
1950.728676	1566.126788	1597.607512	2774.843787			
1704.820992	0.702362507	6.24E-05	0.001344392			FAT1
4	186587783	186726722	-	16177		
protein_coding	FAT atypical cadherin 1 [Source:HGNC					
Symbol;Acc:HGNC:3595]	-	3062	2479	2884	1883	1372
1852	9.269064076	7.261142872	11.0918533			
6.467916107	5.21318919	5.323215094				
ENSG00000128342	108.8701159	130.9792827	125.5490982			
32.11502334	34.24475485	4.313195226	121.7994989			
23.5576578	2.384629368	6.24E-05	0.001344392			LIF
22	30240447	30246851	-	3969		
protein_coding	"LIF, interleukin 6 family cytokine [Source:HGNC					
Symbol;Acc:HGNC:6596]"	-	120	148	108	31	30
5	1.480569609	1.76688001	1.692970939			
0.434002907	0.464608891	0.058576029				
ENSG00000129460	661.3859542	750.4758898	670.757682			
978.9902277	1244.226093	1140.408818	694.2065087			
1121.208379	-0.691116405	6.45E-05	0.001387002			NGDN
14	23469688	23509862	+	4654		
protein_coding	neuroguidin [Source:HGNC Symbol;Acc:HGNC:20271] -					
729	848	577	945	1090	1322	7.670608775
8.633679329	7.713585199	11.28281515	14.396187			
13.20797062						
ENSG00000129116	3074.673524	2062.923702	2734.180361			
1762.18241	1526.174574	797.9411169	2623.925862			
1362.099367	0.946560131	6.45E-05	0.001387002			PALLD
4	168497066	168928457	+	10114		
protein_coding	"palladin, cytoskeletal associated protein					
[Source:HGNC Symbol;Acc:HGNC:17068]"	-		3389	2331	2352	
1701	1337	925	16.40881819	10.92058152		
14.46842358	9.345303452	8.125607086	4.252553652			
ENSG00000117597	2024.076905	2264.702597	2073.885103			
3258.120916	2938.199966	2989.044292	2120.888202			
3061.788391	-0.529580091	6.48E-05	0.001391585			UTP25
1	209828007	209857565	+	10376		
protein_coding	"UTP25, small subunit processor component [Source:HGNC					
Symbol;Acc:HGNC:28440]"	-	2231	2559	1784	3145	2574
3465	10.52927069	11.68602372	10.69723985			
16.84235164	15.24845841	15.52759854				
ENSG00000033327	178.7284403	153.9891566	210.4109886			
348.0854143	432.6254029	333.8413105	181.0428619			
371.5173759	-1.038500685	6.50E-05	0.001394457			GAB2
11	78215297	78418348	-	6771		
protein_coding	GRB2 associated binding protein 2 [Source:HGNC					

Symbol;Acc:HGNC:14458]	-	197	174	181	336	379
387	1.424761253	1.217651128		1.663154548		
2.757391975	3.440596604	2.657597272				
ENSG00000115946	983.4600471	1180.583534		1034.617568		
1511.478034	1828.669909	1619.173488		1066.220383		
1653.107144	-0.632189582	6.52E-05		0.00139675		PN01
2	68157844	68176238		+	2674	
protein_coding	partner of NOB1	homolog [Source:HGNC				
Symbol;Acc:HGNC:32790]	-	1084	1334	890	1459	1602
1877	19.85164786	23.63855187		20.70787097		
30.31837586	36.82548447	32.63877781				
ENSG00000143036	13.60876449	21.23988367		25.5748163		0
0	0	20.14115482	0	6.763697208		
6.54E-05	0.001398556	SLC44A3	1	94820342		
94895246	+	2869	protein_coding	solute carrier family		
44 member 3 [Source:HGNC	Symbol;Acc:HGNC:28689]	-	15	24		
22	0	0	0	0.256029138	0.396375802	
0.477088534	0	0	0			
ENSG00000134291	1993.230372	2066.463683		2190.134268		
1579.851955	1152.906746	832.4466787		2083.276108		
1188.401793	0.810390847	6.55E-05		0.001399056		
TMEM106C	12	47963569	47968878	+		3475
protein_coding	transmembrane protein 106C [Source:HGNC					
Symbol;Acc:HGNC:28775]	-	2197	2335	1884	1525	1010
965	30.96021241	31.83893386		33.73128889		
24.38524248	17.86544857	12.91229747				
ENSG00000120437	1319.142905	1176.158558		1536.813961		
821.5230165	883.514675	482.2152263		1344.038475		
729.0843059	0.883519138	6.58E-05		0.001403644		ACAT2
6	159760328	159779055		+	4299	
protein_coding	acetyl-CoA acetyltransferase 2 [Source:HGNC					
Symbol;Acc:HGNC:94]	-	1454	1329	1322	793	774
559	16.56249061	14.64819041		19.13246188		
10.24985651	11.06676979	6.046100765				
ENSG00000112029	1069.648889	755.7858608		947.4306947		
661.9838682	366.4188768	314.0006125		924.2884814		
447.4677859	1.04715495	6.59E-05		0.001404053		FBX05
6	152970519	152983579		-	3833	
protein_coding	F-box protein 5 [Source:HGNC	Symbol;Acc:HGNC:13584]				
-	1179	854	815	639	321	364
15.06272924	10.55712083	13.22895795		9.263478173		
5.147704082	4.415639224					
ENSG00000183955	1064.205383	871.7202258		869.5437541		
625.7249709	517.0957982	543.4625985		935.1564543		
562.0944559	0.734655148	6.62E-05		0.001408238		KMT5A
12	123383773	123409358		+	4579	
protein_coding	lysine methyltransferase 5A [Source:HGNC					
Symbol;Acc:HGNC:29489]	-	1173	985	748	604	453
630	12.54457788	10.19276538		10.16337151		
7.329567331	6.080998814	6.397361967				

ENSG00000132376	826.50563	1002.699508	778.8694054		
1194.471675	1451.977605	1678.695582	869.3581813		
1441.714954	-0.729472825	6.63E-05	0.001408238	INPP5K	
17	1494571	1516888	-	5325	protein_coding
inositol polyphosphate-5-phosphatase K [Source:HGNC					
Symbol;Acc:HGNC:33882] -					
1946	8.377751002	10.08176891	7.828202243	670	1153 1272
12.03155439	14.68300205	16.99238119			
ENSG00000079974	373.787398	377.0079352	338.2850701		
495.1929406	722.5643272	851.4247377	363.0268011		
689.7273352	-0.925994972	6.63E-05	0.001408238	RABL2B	
22	50767501	50783663	-	5870	
protein_coding "RAB, member of RAS oncogene family like 2B					
[Source:HGNC Symbol;Acc:HGNC:9800]" -					
478	633	987	3.437065419	3.438728901	291
3.084336365	4.524825539	6.628465023	7.81825929		
ENSG00000139343	832.8563868	1163.768626	1005.555277		
624.6890024	523.9447491	621.9627516	1000.726763		
590.1988344	0.761173475	6.67E-05	0.001412564	SNRPF	
12	95858928	95903828	+	3043	
protein_coding small nuclear ribonucleoprotein polypeptide F					
[Source:HGNC Symbol;Acc:HGNC:11162] -					
603	459	721	14.77302431	20.47624142	865
17.68564901	11.01101625	9.271672726	11.01702489		
ENSG00000163041	3734.244976	3812.55912	4480.242819		
2831.301897	2854.871062	2597.406165	4009.015638		
2761.193041	0.537854396	6.67E-05	0.001412564	H3F3A	
1	226061851	226072001	+	3146	
protein_coding H3 histone family member 3A [Source:HGNC					
Symbol;Acc:HGNC:4764] -					
3011	64.06861435	64.88486676	76.21840192	3854	2733 2501
48.27174038	48.86549851	44.50236131			
ENSG00000101150	6085.83948	7600.338375	7047.024382		
8517.732965	10938.91619	12300.37015	6911.067412		
10585.6731	-0.615209178	6.68E-05	0.001412564		
TPD52L2 20	63865228	63891545	+	4694	
protein_coding tumor protein D52 like 2 [Source:HGNC					
Symbol;Acc:HGNC:12007] -					
14259	69.98075961	86.6912752	80.3488552	6062	8222 9583
97.32993444	125.4890302	141.2462745			
ENSG00000111885	605.1363943	521.2621452	696.3324983		
387.4522171	318.4762201	267.418104	607.5770126		
324.4488471	0.905328715	6.72E-05	0.001420271	MAN1A1	
6	119177209	119349761	-	5014	
protein_coding mannosidase alpha class 1A member 1 [Source:HGNC					
Symbol;Acc:HGNC:6821] -					
310	6.514336491	5.566182044	7.432746813	599	374 279
4.144759315	3.42032389	2.874804939			
ENSG00000102226	2288.086936	2246.117699	2715.580494		
2965.977801	4537.430017	4076.832128	2416.595043		

3860.079982	-0.675918988	6.77E-05	0.001429041	USP11
X	47232690	47248328	+ 5269	
protein_coding	ubiquitin specific peptidase 11	[Source:HGNC		
Symbol;Acc:HGNC:12609]	-	2522 2538	2336 2863	3975
4726	23.43935017	22.82390022	27.58363431	
30.19292534	46.37204991	41.70580774		
ENSG00000165672	2435.061593	2632.860581	2614.443721	
1944.512865	1659.729118	1525.145832	2560.788631	
1709.795938	0.582991055	6.82E-05	0.001437055	PRDX3
10	119167703	119178833	- 3417	
protein_coding	peroxiredoxin 3	[Source:HGNC	Symbol;Acc:HGNC:9354]	
-	2684 2975	2249 1877	1454 1768	
38.46504247	41.25422492	40.94975646	30.52328962	
26.15572653	24.05848635			
ENSG00000145414	441.8312204	407.0977704	464.99666	
681.6672696	698.5929988	869.5401576	437.9752169	
749.9334754	-0.777418503	6.91E-05	0.001454859	NAF1
4	163110073	163166921	- 4808	
protein_coding	nuclear assembly factor 1	ribonucleoprotein		
[Source:HGNC	Symbol;Acc:HGNC:25126]	-	487 460	400
658	612 1008	4.960131447	4.533355879	
5.176096673	7.604549274	7.824098753	9.748259715	
ENSG00000196365	4712.261517	5345.370725	4727.85354	
6338.055252	7040.721596	8849.813965	4928.495261	
7409.530271	-0.588320013	6.92E-05	0.00145527	LONP1
19	5691834 5720572	- 5085	protein_coding	"lon
peptidase 1, mitochondrial	[Source:HGNC	Symbol;Acc:HGNC:9479]"	-	
5194	6040 4067	6118 6168	10259 50.01953748	
56.28237587	49.76111027	66.85448675	74.55911905	
93.8091262				
ENSG00000083720	1005.23407	882.3401677	856.756346	
673.3795217	370.9848442	340.7424229	914.7768613	
461.7022629	0.987223365	6.93E-05	0.00145527	OXCT1
5	41730065	41870519	- 4194	
protein_coding	3-oxoacid CoA-transferase 1	[Source:HGNC		
Symbol;Acc:HGNC:8527]	-	1108 997	737 650	325
395	12.93719183	11.26401378	10.93316515	
8.61186026	4.763238143	4.379249486		
ENSG00000100353	5451.671055	6121.511474	6264.667501	
7447.57751	8959.569359	9531.298811	5945.95001	
8646.14856	-0.540287558	7.06E-05	0.001482087	EIF3D
22	36510850	36529436	- 4070	
protein_coding	eukaryotic translation initiation factor 3	subunit D		
[Source:HGNC	Symbol;Acc:HGNC:3278]	-	6009 6917	5389
7189	7849 11049	72.29969719	80.52853666	
82.3797787	98.149054	118.5406434	126.2291281	
ENSG00000127948	878.2189351	1171.733583	1062.517368	
1407.881185	1975.922355	1725.278091	1037.489962	
1703.02721	-0.71489018	7.07E-05	0.001482087	POR
7	75899200	75986855	+ 6112	

protein_coding	cytochrome p450 oxidoreductase	[Source:HGNC					
Symbol;Acc:HGNC:9208]	-	968	1324	914	1359	1731	
2000	7.755694528	10.26434121		9.303999894			
12.35515377	17.4084892	15.2152001					
ENSG00000179409	1909.763283	2200.982946		1965.77338			
2569.201867	3204.167562	3557.523423		2025.506536			
3110.297617	-0.618836009	7.13E-05		0.001492174		GEMIN4	
17	744414	753999	-	5751		protein_coding	gem
nuclear organelle associated protein 4	[Source:HGNC						
Symbol;Acc:HGNC:15717]	-	2105	2487	1691	2480	2807	
4124	17.92410239	20.49079736		18.2939331			
23.96185065	30.00173739	33.34312551					
ENSG00000079308	511.6895448	434.5326202		770.7319639			
258.9921237	262.5431205	324.352281		572.318043			
281.9625084	1.018438085	7.14E-05		0.001492174		TNS1	
2	217799588	218033982		-	16281		
protein_coding	tensin 1	[Source:HGNC					
Symbol;Acc:HGNC:11973]	-	564	491	663	250	230	376
1.428982324	2.533607283	0.853239546		0.868348623			
1.073835573							
ENSG00000203760	410.9846876	390.2828625		437.0968604			
258.9921237	111.8661992	168.2146138		412.7881368			
179.6909789	1.198469475	7.14E-05		0.001492174		CENPW	
6	126340174	126348875		+	795		
protein_coding	centromere protein W	[Source:HGNC					
Symbol;Acc:HGNC:21488]	-	195	27.90356911	26.28438995	29.42575149	98	
17.47370195	7.57715737	11.40508433					
ENSG00000124788	531.6490661	450.4625329		625.4205076			
237.2367853	248.8452185	339.8797838		535.8440355			
275.3205959	0.957614055	7.21E-05		0.001503171		ATXN1	
6	16299112	16761491		-	17812		
protein_coding	ataxin 1	[Source:HGNC					
Symbol;Acc:HGNC:10548]	-	586	509	538	229	218	394
1.354040133	1.879214851	0.714389133		0.752300183			
1.028524292							
ENSG00000170037	757.5545566	726.5810207		714.9323647			
453.7542008	436.0498784	450.2975816		733.0226473			
446.7005536	0.714547367	7.24E-05		0.00150773		CNTROB	
17	7932101	7949918	+	6234			
protein_coding	"centrobin, centriole duplication and spindle assembly	protein	[Source:HGNC				
Symbol;Acc:HGNC:29616]"	-	615	438	382	522	6.559162056	6.240261654
6.137834365	3.904085824	3.766551632		3.893451088			
ENSG00000215030	2561.169477	2826.674519		3236.376753			
3778.177101	4657.286659	4429.651497		2874.74025			
4288.371752	-0.577328157	7.25E-05		0.00150773			
RPL13P12	17	17383377		17384012		-	636
processed_pseudogene	ribosomal protein L13	pseudogene 12	[Source:HGNC				
Symbol;Acc:HGNC:35701]	-	2823	3194	2784			



3647	4080	5135	217.3614117	237.9601516	
272.3447212	318.6329551		394.321455	375.4173592	
ENSG00000198805	842.8361474		1142.528743	840.4814629	
1236.946383	1739.633546		1912.470763	941.9487843	
1629.683564	-0.790541976		7.31E-05	0.001519236	PNP
14	20468954		20477094	+ 4139	
protein_coding	purine nucleoside phosphorylase		[Source:HGNC		
Symbol;Acc:HGNC:7892]	-		929 1291	723 1194	1524
2217	10.99129771		14.77941543	10.8680022	
16.02953574	22.63272783		24.90584522		
ENSG00000106976	1283.760117		1085.889053	1221.778724	
820.487048	722.5643272		745.3201351	1197.142631	
762.7905034	0.650034117		7.36E-05	0.001528069	DNM1
9	128191655		128255248	+ 10775	
protein_coding	dynamin 1		[Source:HGNC		
Symbol;Acc:HGNC:2972]	-				-
1415	1227 1051		792 633	864 6.430842075	
5.395773672	6.068652695		4.084321743	3.611052407	
3.728442775					
ENSG00000168916	176.9139384		98.234462	284.8104542	
45.58261378	42.23519764		74.18695789	186.6529515	
54.00158977	1.781459919		7.39E-05	0.001532339	ZNF608
5	124636913		124748807	- 6922	
protein_coding	zinc finger protein 608		[Source:HGNC		
Symbol;Acc:HGNC:29238]	-		195 111	245 44	37
86	1.379531749		0.759832429	2.202121799	
0.353210109	0.328562118		0.577694023		
ENSG00000168778	246.7722627		200.0089046	274.3480294	
108.776692	105.0172482		100.0661293	240.3763989	
104.6200231	1.199422996		7.63E-05	0.001579514	TCTN2
12	123671113		123708403	+ 5106	
protein_coding	tectonic family member 2		[Source:HGNC		
Symbol;Acc:HGNC:25774]	-		272 226	236 105	92
116	2.608655784		2.097268671	2.875663328	
1.142669229	1.107527139		1.056350876		
ENSG00000166450	247.6795137		194.6989337	281.3229793	
68.37392066	133.5545439		64.6979284	241.2338089	
88.87546432	1.445018309		7.63E-05	0.001579514	PRTG
15	55611546		55743090	- 14566	
protein_coding	protogenin		[Source:HGNC		
Symbol;Acc:HGNC:26373]	-				-
273	220 242		66 117	75 0.91780628	
0.715663414	1.033669988		0.251776779	0.493733865	
0.239415341					
ENSG00000153885	960.778773		948.7148041	1145.054275	
674.4154902	614.1226036		611.6110831	1018.182617	
633.3830589	0.684207294		7.74E-05	0.001600006	KCTD15
19	33795933		33815763	+ 6388	
protein_coding	potassium channel tetramerization domain containing 15		[Source:HGNC		
Symbol;Acc:HGNC:23297]	-			1059 1072	985
651	538 709		8.118199809	7.951632841	
9.593524072	5.662759597		5.176839832	5.160744351	

ENSG00000124201	1451.601546	1477.941906	1431.027221		
1945.548833	2112.901374	2579.290745	1453.523557		
2212.580318	-0.60652348	7.90E-05	0.001631014	ZNFX1	
20	49237946	49278426	- 9340		
protein_coding	zinc finger NFX1-type containing 1 [Source:HGNC				
Symbol;Acc:HGNC:29271]	-	1600 1670	1231 1878	1851	
2990	8.388837659	8.472196807	8.200078752		
11.17276734	12.18167203	14.88522248			
ENSG00000104881	1301.905136	1619.54113	1633.300768		
2604.424796	1972.497879	2587.917136	1518.249011		
2388.279937	-0.654181668	8.00E-05	0.001648715		
PPP1R13L	19 45379634	45406349	-	5032	
protein_coding	protein phosphatase 1 regulatory subunit 13				
like [Source:HGNC	Symbol;Acc:HGNC:18838]	-	1435 1830		
1405	2514 1728	3000	13.96496824	17.2320481	
17.37170871	27.7611009	21.1081643	27.72117538		
ENSG00000184164	554.3303402	573.4768592	591.7082498		
398.8478705	229.4398575	232.0499032	573.1718164		
286.7792104	0.999320531	8.01E-05	0.00164925	CRELD2	
22	49918167	49927540	+ 5165		
protein_coding	cysteine rich with EGF like domains 2 [Source:HGNC				
Symbol;Acc:HGNC:28150]	-	611 648	509 385	201	
269	5.792947171	5.944716125	6.131324519		
4.141927066	2.392065634	2.421658907			
ENSG00000168175	2410.565817	2314.262325	2209.896626		
3298.523688	3080.886444	3561.836618	2311.574923		
3313.748917	-0.51964047	8.02E-05	0.001650209		
MAPK1IP1L	14 55051631	55070192	+ 6988		
protein_coding	mitogen-activated protein kinase 1 interacting				
protein 1 like [Source:HGNC	Symbol;Acc:HGNC:19840]	-	2657		
2615	1901 3184	2699 4129	18.61947116		
17.73149026	16.92528799	25.31816387	23.74090928		
27.47407027					
ENSG00000072682	347.47712	293.8183908	601.008183		
163.6830222	219.166431	149.2365548	414.1012313		
177.3620027	1.223202607	8.03E-05	0.0016506	P4HA2	
5	132191838	132295315	- 8502		
protein_coding	prolyl 4-hydroxylase subunit alpha 2 [Source:HGNC				
Symbol;Acc:HGNC:8547]	-	383 332	517 158	192	
173	2.206004311	1.850305432	3.783347988		
1.032637827	1.388121524	0.946141344			
ENSG00000106049	973.4802865	928.3599156	1013.692719		
665.0917737	522.8032573	304.511583	971.8443069		
497.4688713	0.967589428	8.05E-05	0.0016506	HIBADH	
7	27525442	27662995	- 2323		
protein_coding	3-hydroxyisobutyrate dehydrogenase [Source:HGNC				
Symbol;Acc:HGNC:4907]	-	1073 1049	872 642	458	
353	22.61930183	21.39699175	23.35469079		
15.35669865	12.1189119	7.065721472			
ENSG00000138758	4300.369579	3307.226887	4243.094522		

3039.531564	2320.652887	1974.580775	3950.230329	
2444.921742	0.692272034	8.05E-05	0.0016506	11-Sep
4	76949703	77040384	+	9787
protein_coding	septin 11 [Source:HGNC Symbol;Acc:HGNC:25589]			-
4740	3737	3650	2934	2033
18.09255703	23.20331964	16.65798876	2289	23.71687349
10.87494884				12.76836093
ENSG00000115361	30.84653284	8.849951531	20.9248497	0
0	0	20.20711136	0	6.769438563
8.10E-05	0.001658585	ACADL	2	210187939
210225491	-	4383	protein_coding	acyl-CoA dehydrogenase
long chain [Source:HGNC Symbol;Acc:HGNC:88]			-	34
18	0	0	0	0.379870991
0.255509988	0	0	0	0.108107287
ENSG00000236552	1940.609816	2043.453809	2079.697562	
2696.625992	2963.312786	3033.038883	2021.253729	
2897.65922	-0.519848111	8.12E-05	0.00166114	
RPL13AP5	10	96750288	96750899	+
	processed_pseudogene	ribosomal protein L13a	pseudogene 5	612
[Source:HGNC Symbol;Acc:HGNC:23736]		-	2139	2309
2603	2596	3516	171.1543912	178.7717747
181.8719675	236.3386713	260.7357764	267.1335665	
ENSG00000165119	13479.0276	12949.24908	15133.3163	
11007.16526	9125.085674	7799.119608	13853.86433	
9310.456847	0.573395511	8.24E-05	0.001682333	HNRNPK
9	83968083	83980616	-	5114
protein_coding	heterogeneous nuclear ribonucleoprotein K [Source:HGNC Symbol;Acc:HGNC:5044]			-
9041	142.2653325	135.5718148	13018	10625
115.4463638	96.08393493	82.20282894	158.376372	7994
ENSG00000171943	686.7889812	512.4121937	702.1449565	
427.8549884	277.3825142	221.6982346	633.7820438	
308.9785791	1.037174051	8.25E-05	0.001682333	
SRGAP2C 1	121184810	121392822	+	7311
protein_coding	SLIT-ROBO Rho GTPase activating protein 2C [Source:HGNC Symbol;Acc:HGNC:30584]			-
413	243	257	5.070464882	3.752564974
5.140045949	3.138956602	2.043039907	1.634509155	
ENSG00000253500	1.814501932	0	0	13.46759043
14.83939377	75.91223598	0.604833977		
34.73974006	-5.780349687	8.26E-05	0.001683632	
AF121898.1	8	87540835	87755718	-
	antisense	"novel transcript, antisense to CNBD1"		2910
2	0	0	13	13
0	0	0.248234652	0.274598224	1.406114547
ENSG00000183751	1149.486974	1367.317512	1360.11523	
1717.635765	2006.742634	2383.471682	1292.306572	
2035.950027	-0.656346088	8.27E-05	0.001683632	TBL3
16	1972037	1982933	+	7139
transducin beta like 3 [Source:HGNC Symbol;Acc:HGNC:11587]			protein_coding	-

	1267	1545	1170	1658	1758	2763	8.69096331	
	10.25457209		10.19659868		12.90503503		15.13661793	
	17.99593936							
ENSG00000170456	473.5850042			273.4635023		409.1970608		
219.6253209	158.6673641			111.2804368		385.4151891		
163.1910406	1.241575659			8.31E-05		0.001690392		
DENND5B 12	31382223			31591097		-	11310	
protein_coding	DENN domain containing 5B [Source:HGNC							
Symbol;Acc:HGNC:28338]	-			522	309	352	212	139
129	2.260146454			1.294560392		1.936363578		
1.041562414	0.755439267			0.530344566				
ENSG00000188612	3570.032551			4074.517685		4738.315965		
2791.935094	2894.823276			2712.999797		4127.622067		
2799.919389	0.559725891			8.39E-05		0.001704665		SUM02
17	75165586			75182983		-	3372	
protein_coding	small ubiquitin-like modifier 2 [Source:HGNC							
Symbol;Acc:HGNC:11125]	-			3935	4604	4076	2695	2536
3145	57.14600229			64.6955173		75.20616722		
44.41025299	46.22841927			43.36747152				
ENSG00000198732	1536.883136			1655.825931		2145.959586		
1349.866949	779.6389186			833.3093177		1779.556218		
987.6050617	0.849146443			8.44E-05		0.001710683		SMOC1
14	69854131			70032366		+	4369	
protein_coding	SPARC related modular calcium binding 1 [Source:HGNC							
Symbol;Acc:HGNC:20318]	-			1694	1871	1846	1303	683
966	18.98716152			20.29168835		26.28793659		
16.57198054	9.609173151			10.28078081				
ENSG00000105323	9966.151861			9734.061689		11286.63143		
7597.792942	7418.555391			7369.525364		10328.94833		
7461.957899	0.468963376			8.44E-05		0.001710683		
HNRNPUL1	19	41262496		41307598		+	6543	
protein_coding	heterogeneous nuclear ribonucleoprotein U like							
1 [Source:HGNC	Symbol;Acc:HGNC:17011]							
7334	6499	8543		82.21514451		79.65310732		
92.32183487	62.28393302			61.05440129		60.71059709		
ENSG00000177946	439.1094675			505.3322324		520.7962592		
775.9404027	768.2240004			870.4027967		488.412653		
804.8557332	-0.72174185			8.50E-05		0.001720537		
CENPBD1 16	89969773			89972832		-	3060	
protein_coding	CENPB DNA-binding domain containing 1 [Source:HGNC							
Symbol;Acc:HGNC:28272]	-			484	571	448	749	673
1009	7.745556366			8.841808868		9.108847561		
13.60104993	13.51888887			15.33206875				
ENSG00000127528	848.2796532			810.6555603		820.7191048		
580.1423571	412.07855			469.2756406		826.5514394		
487.1655159	0.762376631			8.54E-05		0.00172733		KLF2
19	16324817			16327874		+	2018	
protein_coding	Kruppel like factor 2 [Source:HGNC							
Symbol;Acc:HGNC:6347]	zf-C2H2							
544	22.68919735			935	916	706	560	361
				21.50803589		21.76658944		

15.41980596	10.9959663	12.53455026			
ENSG00000178381	362.9003864	459.3124845	373.1598196		
671.3075847	714.5738844	660.7815087	398.4575635		
682.2209926	-0.774722211	8.65E-05	0.001747489		
ZFAND2A 7	1152071 1160759	- 2281	protein_coding zinc		
finger AN1-type	containing 2A [Source:HGNC Symbol;Acc:HGNC:28073]				
-	400 519	321 648	626 766		
8.587433552	10.78123502	8.755613732	15.78562437		
16.86927461	15.61473084				
ENSG00000104415	2076.697461	1382.362429	2111.084836		
373.9846267	456.5967313	89.71446071	1856.714909		
306.7652729	2.598369437	8.71E-05	0.001754571	WISP1	
8	133191039	133231690	+ 5190		
protein_coding	WNT1 inducible signaling pathway protein 1				
[Source:HGNC Symbol;Acc:HGNC:12769]		-	2289 1562	1816	
361	400 104	21.5976808	14.26067599		
21.7698448	3.865021265	4.737399323	0.931744847		
ENSG00000151623	123.3861314	114.1643748	82.53690714		
397.811902	220.3079228	206.1707318	106.6958044		
274.7635189	-1.361262036	8.71E-05	0.001754571	NR3C2	
4	148078762	148444698	- 6607		
protein_coding	nuclear receptor subfamily 3 group C member 2				
[Source:HGNC Symbol;Acc:HGNC:7979]		ESR-like	136 129		
71	384 193	239	1.00800639	0.925149342	
0.668591558	3.229527308	1.795561821	1.681994658		
ENSG00000228526	118.8498765	193.8139385	242.9607548		
19.6834014	87.89487077	17.25278091	185.20819		
41.61035103	2.164300867	8.82E-05	0.001774048		
MIR34AHG	1 9148011	9198906 -	8702	lincRNA MIR34A	
host gene [Source:HGNC Symbol;Acc:HGNC:51913]			-	131 219	
209	19 77	20	0.737192487	1.192481024	
1.494287122	0.121323957	0.543899934	0.106866586		
ENSG00000069399	389.2106644	389.3978674	716.0948563		
143.9996208	289.9389244	200.9948975	498.2344627		
211.6444809	1.235060144	8.85E-05	0.001778389	BCL3	
19	44747705	44760044	+ 3242		
protein_coding	B cell CLL/lymphoma 3 [Source:HGNC				
Symbol;Acc:HGNC:998]		-	429 440	616 139	254
233	6.479969552	6.430816343	11.8215534		
2.382395354	4.81579583	3.341749784			
ENSG00000211459	22400.9336	30353.56376	17439.69973		
46647.58939	60275.33449	96296.39662	23398.0657		
67739.7735	-1.533606893	8.95E-05	0.001796359	MT-	
RNR1 MT	648 1601	+ 954	Mt_rRNA		
mitochondrially	encoded 12S RNA [Source:HGNC Symbol;Acc:HGNC:7470]				
-	24691 34298	15002 45028	52804 111630		
1267.415425	1703.518531	978.3801504	2622.686171		
3402.24675	5440.810102				
ENSG00000167657	1544.141144	1809.815088	1615.863393		
2045.001809	2656.251484	3858.58445	1656.606542		

2853.279248	-0.78470685	9.04E-05	0.001813247	DAPK3
19	3958453	3971123	-	3549
protein_coding	associated protein kinase 3 [Source:HGNC Symbol;Acc:HGNC:2676]			death
1702	2045	1390	1974	2327
27.30321279	24.36776218	30.90673957	4473	23.48454984
58.60354893				40.3030343
ENSG00000172638	1240.21207	1223.948297	1510.076653	
601.8976955	988.5319232	698.7376267	1324.745673	
763.0557485	0.796352205	9.09E-05	0.001821688	EFEMP2
11	65866441	65873592	-	5397
protein_coding	EGF containing fibulin extracellular matrix protein 2 [Source:HGNC Symbol;Acc:HGNC:3219]			
581	866	810	12.40351511	12.14216703
14.97488789	5.981853298	9.863086323	6.978524683	
ENSG00000263465	1036.080603	1202.708413	979.9804609	
1516.657877	1727.077136	1676.107665	1072.923159	
1639.947559	-0.611450091	9.11E-05	0.001822994	SRSF8
11	95067197	95071224	+	4028
protein_coding	serine and arginine rich splicing factor 8 [Source:HGNC Symbol;Acc:HGNC:16988]			
1464	1513	1943	13.88370335	15.98661204
13.0210186	20.19592078	23.08855888	22.42922961	
ENSG00000182718	16401.28296	17152.97606	24976.1331	
12295.91007	13865.70124	11456.70916	19510.13071	
12539.44015	0.637707004	9.12E-05	0.001822994	ANXA2
15	60347134	60402883	-	8824
protein_coding	annexin A2 [Source:HGNC Symbol;Acc:HGNC:537]			
18078	19382	21485	11869	12147
104.078142	151.4874675	74.74130459	13281	100.3260159
69.98360263				84.61568844
ENSG00000087995	909.9727189	1097.39399	935.8057782	
1380.946004	1739.633546	1488.914992	981.0574956	
1536.498181	-0.646572725	9.16E-05	0.001827896	
METTL2A	17	62423867	62450822	+
protein_coding	methyltransferase like 2A [Source:HGNC Symbol;Acc:HGNC:25755]			
1726	12.78083512	15.28895286	13.03263831	1524
19.27399796	24.37597202	20.88341048		
ENSG00000184640	6208.31836	6127.70644	7416.696726	
4419.441599	4855.906237	4596.140833	6584.240509	
4623.829557	0.509780417	9.32E-05	0.001858711	9-Sep
17	77280569	77500596	+	12844
protein_coding	septin 9 [Source:HGNC Symbol;Acc:HGNC:7323]			
6843	6924	6380	4266	4254
25.5436646	30.90489187	18.45578821	5328	26.09005092
19.28834376				20.35844246
ENSG00000197043	2391.513546	2184.168038	3281.713928	
1711.419954	1753.331448	1362.969692	2619.131837	
1609.240364	0.70262802	9.36E-05	0.001863955	ANXA6
5	151100712	151157882	-	5427

protein_coding	annexin A6 [Source:HGNC Symbol;Acc:HGNC:544]	-				
2636	2468	2823	1652	1536	1580	23.78560859
21.54823854		32.36368036		16.91462076		17.39717589
13.53718249						
ENSG00000224321	14.51601546		28.3198449		15.11239145	0
0	0	19.31608393	0		6.706246754	
9.41E-05	0.001872126		RPL12P14		1	15792796
15793285	+	490				processed_pseudogene
ribosomal protein L12 pseudogene 14 [Source:HGNC Symbol;Acc:HGNC:36495]	-	16	32	13	0	0
0	1.599015178	3.094427693		1.650646665		0
0	0					
ENSG00000165801	1691.115801		1579.716348		2218.034068	
1079.479172	1299.0177		1007.562405		1829.622072	
1128.686426	0.696877518		9.43E-05		0.001873498	
ARHGEF40	14	21070270		21090240	+	8189
protein_coding	Rho guanine nucleotide exchange factor 40 [Source:HGNC Symbol;Acc:HGNC:25516]	-		1864	1785	1908
1042	1138	1168	11.14663347		10.32841763	
14.4962058	7.070479892		8.541983951		6.63197667	
ENSG00000149177	796.5663481		610.6466557		681.2201068	
343.9415403	479.4265678		304.511583		696.1443702	
375.959897	0.890938793		9.46E-05		0.001878651	PTPRJ
11	47980558		48170841		+	9620
protein_coding	"protein tyrosine phosphatase, receptor type J [Source:HGNC Symbol;Acc:HGNC:9673]"	-		878	690	586
332	420	353	4.469388708		3.398603181	
3.789914309	1.917675215		2.683623452		1.706202805	
ENSG00000131174	1542.326642		1836.364943		2138.984636	
1320.859831	1099.256631		797.9411169		1839.225407	
1072.685859	0.778221615		9.55E-05		0.001894537	COX7B
X	77899438		77907373		+	3024
protein_coding	cytochrome c oxidase subunit 7B [Source:HGNC Symbol;Acc:HGNC:2291]	-		1700	2075	963
925	27.52934118		32.51342755		37.85671127	
23.42828193	19.57455332		14.22299194			
ENSG00000142173	32765.36864		37224.66613		66339.91098	
16321.68364	19471.5676		11951.86397		45443.31525	
15915.0384	1.513682791		9.67E-05		0.001914573	COL6A2
21	46098097		46132849		+	5386
protein_coding	collagen type VI alpha 2 chain [Source:HGNC Symbol;Acc:HGNC:2212]	-		36115	42062	17058
13855	328.3597782		370.0411405		659.212661	
162.5414397	194.6745239		119.6110215			
ENSG00000197019	545.2578306		731.0059965		942.7807281	
1044.256243	1402.893457		1576.041536		739.6815184	
1341.063745	-0.859955357		9.72E-05		0.001922541	
SERTAD1	19	40421592	40426025		-	2114
protein_coding	SERTA domain containing 1 [Source:HGNC Symbol;Acc:HGNC:17932]	-		601	826	811
					1008	1229

1827	13.92188919	18.51405311	23.8683676	
26.49522383	35.73503898	40.18505643		
ENSG00000140795	15.42326642	38.93978674	6.974949899	0
0	0	20.44600102	0	6.790471523
9.73E-05	0.001922541	MYLK3	16	46703369
46790407	-	9522	protein_coding	myosin light chain
kinase 3 [Source:HGNC Symbol;Acc:HGNC:29826]	-	17	44	
6	0	0	0.087427775	0.21895302
0.039203958	0	0	0	
ENSG00000127580	463.6052436	708.8811176	594.0332331	
895.0767796	1005.654301	1160.249516	588.8398648	
1020.326865	-0.793425767	9.75E-05	0.001924013	WDR24
16	684622	690444	-	3651
repeat domain 24 [Source:HGNC Symbol;Acc:HGNC:20852]	-	511	864	881
801	511	864	881	1345
10.39554168	8.707949741	13.14964272	14.83240023	6.853899796
17.12937312				
ENSG00000131747	12303.23035	8156.115331	11707.45341	
4541.685882	2765.8347	1403.513727	10722.26636	
2903.678103	1.884729788	9.76E-05	0.001924013	TOP2A
17	40388516	40417950	-	6437
protein_coding	DNA topoisomerase II alpha [Source:HGNC			
Symbol;Acc:HGNC:11989]	-	13561	9216	10071
1627	103.1660708	67.83993104	97.34102912	4384
37.8441783	23.1375444	11.75262995		2423
ENSG00000156876	871.8681783	864.6402646	660.2952571	
506.588594	406.3710908	481.3525873	798.9345667	
464.7707574	0.781846987	9.77E-05	0.001925003	SASS6
1	100083563	100132955	-	3972
protein_coding	SAS-6 centriolar assembly protein [Source:HGNC			
Symbol;Acc:HGNC:25403]	-	961	977	568
558	11.8479396	11.65498623	8.897048182	489
6.840875128	5.509194666	6.532147416		356
ENSG00000196739	1254.728086	1026.594378	1035.78006	
731.3937574	703.1589662	659.0562306	1105.700841	
697.8696514	0.664575399	9.92E-05	0.001949732	
COL27A1	9	114155560	114312511	+
protein_coding	collagen type XXVII alpha 1 chain [Source:HGNC			
Symbol;Acc:HGNC:22986]	-	1383	1160	891
764	4.84167061	3.929423213	3.9630443	706
2.804536658	2.706901475	2.539620085		616
ENSG00000142546	2460.46462	3561.220496	3185.227121	
3649.717008	5977.992704	5815.912443	3068.970746	
5147.874052	-0.746277429	9.92E-05	0.001949732	NOSIP
19	49555711	49590262	-	4248
protein_coding	nitric oxide synthase interacting protein [Source:HGNC			
Symbol;Acc:HGNC:17946]	-	2712	4024	2740
6742	31.26323108	44.88486309	40.13034574	3523
46.08294004	75.77839909	73.79641394		5237
ENSG00000102978	2610.161029	3029.338409	2819.042251	



3643.501197	4202.972911	4360.640374	2819.513896	
4069.038161	-0.529299516	0.00010165	0.001995653	POLR2C
16	57462387	57472010	+ 3940	
protein_coding	RNA polymerase II subunit C [Source:HGNC			
Symbol;Acc:HGNC:9189]	-	2877 3423	2425 3517	3682
5055	35.75792619	41.16585293	38.2932624	
49.60074392	57.44271025	59.65625085		
ENSG00000183255	9366.458973	10031.42006	11051.80812	
7305.649826	7738.173103	6045.374429	10149.89572	
7029.732453	0.530019787	0.000102265	0.002005507	
PTTG1IP 21	44849585	44873903	- 3537	
protein_coding	PTTG1 interacting protein [Source:HGNC			
Symbol;Acc:HGNC:13524]	-	10324 11335	9507 7052	6779
7008	142.9359984	151.8493389	167.2304201	
110.7871238	117.8088548	92.12766234		
ENSG00000111110	204.1314673	159.2991276	166.2363059	
88.05732207	37.66923033	21.56597613	176.5556336	
49.09750951	1.850906489	0.000102399	0.002005902	PPM1H
12	62643982	62935037	- 7063	
protein_coding	"protein phosphatase, Mg2+/Mn2+ dependent 1H			
[Source:HGNC Symbol;Acc:HGNC:18583]"	-		225 180	143
85	33 25	1.55999065	1.207562839	
1.259660984	0.668716075	0.287191838	0.164581805	
ENSG00000161381	265.824533	106.1994184	116.249165	
64.23004668	5.707459141	8.626390453	162.7577055	
26.18796543	2.63828709	0.000103629	0.002027761	PLXDC1
17	39063303	39154394	- 9277	
protein_coding	plexin domain containing 1 [Source:HGNC			
Symbol;Acc:HGNC:20945]	-	293 120	100 62	5
10	1.546638253	0.612914831	0.67065519	
0.371360901	0.033129113	0.050121431		
ENSG00000178202	3876.683378	2647.905498	3581.636773	
2600.280922	1763.604875	1479.425963	3368.741883	
1947.770586	0.790547253	0.00010548	0.002061688	KDEL2
11	108472105	108498432	- 4993	
protein_coding	KDEL motif containing 2 [Source:HGNC			
Symbol;Acc:HGNC:28496]	-	4273 2992	3081 2510	1545
1715	41.90829674	28.39399254	38.39166779	
27.93342564	19.0201649	15.97105394		
ENSG00000189320	318.4450891	377.0079352	146.4739479	
640.2285298	632.3864728	574.5176042	280.6423241	
615.7108689	-1.129786481	0.000105694	0.002063606	
FAM180A 7	135728348	135748846	- 2526	
protein_coding	family with sequence similarity 180 member A			
[Source:HGNC Symbol;Acc:HGNC:33773]	-		351 426	126
618	554 666	6.804597696	7.99102876	
3.103444946	13.59462313	13.48105184	12.25947581	
ENSG00000265763	7.258007728	12.38993214	41.8496994	0
0	0 20.49921309	0	6.785352663	
0.000106021	0.002067707	ZNF488 10	47365496	

47384273	-	3496	protein_coding	zinc finger protein		
488	[Source:HGNC Symbol;Acc:HGNC:23535]	zf-C2H2	8	14	36	
0	0	0	0.11205913	0.189750554		
0.640675215	0	0	0			
ENSG00000136143	919.9524795		831.8954439	924.1808617		
613.293349	489.6999943		545.1878766	892.009595		
549.39374	0.698601279		0.000106414	0.002071511		SUCLA2
13	47745736		48037968	-	8928	
protein_coding	succinate-CoA ligase ADP-forming beta subunit					
[Source:HGNC Symbol;Acc:HGNC:11448]	-		1014	940	795	
592	429	632	5.561762723	4.988846171		
5.540127934	3.684508551		2.953591781	3.29150042		
ENSG00000259863	54.43505796		56.6396898	72.07448229		
16.57549592	5.707459141		6.038473317	61.04974335		
9.440476125	2.695002142		0.000106451	0.002071511		
SH3RF3-AS1	2	109127327	109128930	-	1604	
lincRNA	SH3RF3 antisense RNA 1 [Source:HGNC					
Symbol;Acc:HGNC:44168]	-	60	64	62	16	5
7	1.83178952		1.890610436	2.404884217		
0.554278027	0.191607719		0.202919925			
ENSG00000112559	1650.289507		1308.022836	2027.385437		
265.2079347	504.5393881		97.47821212	1661.89926		
289.0751783	2.524303276		0.000107105	0.002081958		MDFI
6	41636882		41654246	+	2523	
protein_coding	MyoD family inhibitor [Source:HGNC					
Symbol;Acc:HGNC:6967]	-	1819	1478	1744	256	442
113	35.30564354		27.75770938	43.00669577		
5.638125757	10.76842975		2.08253453			
ENSG00000087253	284.8768033		334.5281679	466.1591516		
159.5391482	204.3270372		127.6705787	361.8547076		
163.8455881	1.144376246		0.000107861	0.002094356		LPCAT2
16	55508998		55586670	+	7439	
protein_coding	lysophosphatidylcholine acyltransferase 2 [Source:HGNC					
Symbol;Acc:HGNC:26032]	-	314	378	401	154	179
148	2.067015689		2.407707258	3.35379614		
1.150318769	1.479060138		0.925077621			
ENSG00000185896	5025.263101		5061.287281	6437.878757		
4040.27713	3760.074082		3411.737424	5508.143046		
3737.362879	0.559418707		0.000108163	0.002097914		LAMP1
13	113297241		113323672	+	5739	
protein_coding	lysosomal associated membrane protein 1 [Source:HGNC					
Symbol;Acc:HGNC:6499]	-	5539	5719	5538	3900	3294
3955	47.26327632		47.21829625	60.0376346		
37.76073385	35.28049991		32.04359848			
ENSG00000072778	4757.624066		5745.388534	5412.561122		
3395.904726	4000.928858		3698.133587	5305.191241		
3698.32239	0.520596233		0.000108487	0.002101887		ACADVL
17	7217125	7225273	+	4865		
CoA dehydrogenase very long chain [Source:HGNC						
Symbol;Acc:HGNC:92]						
-	5244	6492	4656	3278	3505	4287

52.78475644	63.22984357	59.54385846	37.44019899	
44.28458079	40.97336731			
ENSG00000110697	1528.717878	1333.687696	1755.362391	
1054.615928	1010.220268	879.0291871	1539.255988	
981.288461	0.649390584	0.000108854	0.002106687	
PITPNM1 11	67491768	67506263	- 6449	
protein_coding	phosphatidylinositol transfer protein		membrane	
associated 1 [Source:HGNC Symbol;Acc:HGNC:9003]	-		1685 1507	
1510	1018 885	1019	12.79487984	11.07254149
14.56771435	8.771370275	8.435255738	7.34704712	
ENSG00000124225	2931.327871	3072.703172	5196.337675	
1797.405339	2185.956851	2468.010309	3733.456239	
2150.457499	0.795252037	0.00010955	0.002116514	PMEPA1
20	57648392	57711536	- 5619	
protein_coding	"prostate transmembrane protein, androgen induced 1			
[Source:HGNC Symbol;Acc:HGNC:14107]"	-		3231 3472 4470	
1735	1915 2861	28.15831153	29.27838553	
49.49431724	17.15744007	20.9487014	23.67499216	
ENSG00000158483	302.1145717	258.4185847	261.5606212	
405.0636815	546.7745857	584.8692727	274.0312592	
512.2358466	-0.902451796	0.000109601	0.002116514	
FAM86C1 11	71787510	71801236	+ 2972	
protein_coding	family with sequence similarity 86 member C1			
[Source:HGNC Symbol;Acc:HGNC:25561]	-		333 292 225	
391	479 678	5.486862942	4.655437357	
4.71021314	7.310380731	9.906815353	10.60747231	
ENSG00000188549	522.5765564	284.9684393	396.4096526	
202.0138565	157.5258723	201.8575366	401.3182161	
187.1324218	1.09931444	0.000110178	0.002125336	CCDC9B
15	40331452	40340967	- 7510	
protein_coding	coiled-coil domain containing 9B [Source:HGNC			
Symbol;Acc:HGNC:33488]	-	576 322	341 195 138	
234	3.755875865	2.031619513	2.825018451	
1.442801941	1.129500713	1.448795		
ENSG00000170185	767.5343172	707.9961225	661.4577488	
1081.551109	1122.086467	1095.551588	712.3293962	
1099.729721	-0.625834101	0.000111442	0.002145716	USP38
4	143184917	143223830	+ 7787	
protein_coding	ubiquitin specific peptidase 38 [Source:HGNC			
Symbol;Acc:HGNC:20067]	-	846 800	569 1044 983	
1270	5.320211185	4.867951617	4.546204194	
7.449761472	7.75944579	7.58341048		
ENSG00000179833	743.0385411	710.651108	564.9709418	
1078.443203	1050.172482	1102.4527	672.8868636	
1077.022795	-0.677415093	0.000111516	0.002145716	
SERTAD2 2	64631621	64751005	- 6274	
protein_coding	SERTA domain containing 2 [Source:HGNC			
Symbol;Acc:HGNC:30784]	-	819 803	486 1041 920	
1278	6.392460762	6.06453451	4.819462457	
9.219731186	9.013442098	9.471469336		

ENSG00000125304	2987.577431	2456.746545	3156.164829	
2215.936611	1690.549398	1469.936933	2866.829602	
1792.14098	0.67785671	0.000111598	0.002145716	TM9SF2
13	99446311	99564006	+ 5524	
protein_coding	transmembrane 9	superfamily member 2	[Source:HGNC	
Symbol;Acc:HGNC:11865]	-	3293 2776	2715 2139	1481
1704	29.19219453	23.81180036	30.57898111	
21.51637765	16.47967903	14.34322921		
ENSG00000168159	2261.776658	2718.70511	2567.944055	
2820.942212	4838.78386	4973.114096	2516.141941	
4210.946722	-0.743023584	0.000111928	0.002148175	RNF187
1	228487061	228495766	+ 3285	
protein_coding	ring finger protein 187	[Source:HGNC		
Symbol;Acc:HGNC:27146]	-	2493 3072	2209 2723	4239
5765	37.16341269	44.31107419	41.83764096	
46.06004003	79.31866625	81.60090134		
ENSG00000145386	2818.828751	2083.27859	2781.842518	
1095.018699	574.1703896	335.5665886	2561.31662	
668.2518924	1.938675515	0.000111969	0.002148175	CCNA2
4	121816444	121823933	- 2798	
protein_coding	cyclin A2	[Source:HGNC		
Symbol;Acc:HGNC:1578]	-	3107 2354 2393 1057 503 389	54.37787432	
3107	2354 2393 1057 503 389	54.37787432		
39.86439608	53.21105076	20.99129929	11.0501363	
6.464469776				
ENSG00000126062	1258.35709	1800.965137	1292.690715	
1707.27608	3016.962902	3020.099298	1450.67098	
2581.446093	-0.831197725	0.000113091	0.002165774	
TMEM115 3	50354749	50359610	- 2197	
protein_coding	transmembrane protein 115	[Source:HGNC		
Symbol;Acc:HGNC:30055]	-	1387 2035	1112 1648	2643
3501	30.9154155	43.88951659	31.49064651	
41.68110213	73.94596253	74.09571138		
ENSG00000148841	2126.596264	2397.45187	2120.384769	
2655.187252	3648.207883	4188.112565	2214.810968	
3497.169233	-0.659068885	0.000113131	0.002165774	ITPRIP
10	104309698	104338448	- 7279	
protein_coding	"inositol 1,4,5-trisphosphate receptor interacting	protein	[Source:HGNC	
Symbol;Acc:HGNC:29370]"	-	1824 2563 3196 4855 15.76937829	17.63452339	
1824	2563 3196 4855 15.76937829	17.63452339		
15.59049704	19.56540898	26.98872769	31.01333947	
ENSG00000101146	2147.463036	2239.922733	2326.145791	
2807.474621	3431.324435	3618.770795	2237.843853	
3285.856617	-0.554432186	0.000114384	0.002187395	RAE1
20	57351010	57379211	+ 5855	
protein_coding	ribonucleic acid export 1	[Source:HGNC		
Symbol;Acc:HGNC:9828]	-	2367 2531	2001 2710	3006
4195	19.79703004	20.48291141	21.26312224	
25.71902112	31.55799747	33.31471359		
ENSG00000196123	478.1212591	407.0977704	421.9844689	
236.2008168	260.2601368	209.621288	435.7344995	

235.3607472	0.890335418	0.000114859	0.002194098	
KIAA0895L	16	67175602	67184040	4780
protein_coding	KIAA0895 like [Source:HGNC			
Symbol;Acc:HGNC:34408]	-	527	460	228
243	5.398976065	4.559911102	4.724823341	
2.650446205	2.931934816	2.363792744		
ENSG00000171222	1159.466735	1727.510539	1604.238477	
1857.491511	2625.431205	3465.221045	1497.071917	
2649.381254	-0.823956953	0.000115912	0.002210511	SCAND1
20	35953617	35959472	-	1996
protein_coding	SCAN domain containing 1 [Source:HGNC			
Symbol;Acc:HGNC:10566]	-	1278	1952	2300
4017	31.35443653	46.33889968	43.01554167	
49.91508285	70.82957881	93.57768841		
ENSG00000170373	7.258007728	26.54985459	24.41232465	0
0	0	19.40672899	0	6.710404485
0.000115968	0.002210511	CST1	20	23747553
23751268	-	872	protein_coding	cystatin SN
[Source:HGNC	Symbol;Acc:HGNC:2473]	-	8	30
0	0	0	0.449264586	1.630163672
1.498337525	0	0	0	
ENSG00000138600	1660.269268	1689.455747	1800.699566	
1226.586698	1196.283436	1007.562405	1716.808194	
1143.477513	0.58672232	0.000116872	0.002225341	SPPL2A
15	50702266	50765808	-	8144
protein_coding	signal peptide peptidase like 2A [Source:HGNC			
Symbol;Acc:HGNC:30227]	-	1830	1909	1048
1168	11.00378277	11.10694456	11.83369848	
8.078411676	7.909897903	6.668621924		
ENSG00000162512	2654.616326	2300.102403	2172.696894	
1795.333402	1450.836114	1470.799572	2375.805208	
1572.323029	0.595822749	0.000117246	0.002230078	SDC3
1	30869467	30908761	-	7067
protein_coding	syndecan 3 [Source:HGNC			
Symbol;Acc:HGNC:10660]	-	1733	1271	-
2926	2599	1869	1705	20.27532918
17.42599676	16.45436234	13.62622372	11.05497639	
11.21812591				
ENSG0000012048	2461.371871	1919.554487	1833.249332	
1605.751167	1043.323531	948.9029498	2071.391897	
1199.325883	0.78888869	0.000117666	0.002235653	BRCA1
17	43044295	43170245	-	9187
protein_coding	"BRCA1, DNA repair associated [Source:HGNC			
Symbol;Acc:HGNC:1100]"	-	2713	2169	914
1100	14.46121427	11.18696493	10.6798419	
9.374972996	6.115329181	5.567368744		
ENSG00000204628	20435.82801	23283.33748	24635.52304	
28994.68624	34081.52151	32539.60743	22784.89618	
31871.93839	-0.484241653	0.000117873	0.002237191	RACK1
5	181236909	181248096	-	5990
protein_coding	receptor for activated C kinase 1 [Source:HGNC			

Symbol;Acc:HGNC:4399]	-	22525	26309	21192	27988	29857
37721	184.1478535	208.115276		220.1161811		
259.6313231	306.3844403	292.8110037				
ENSG00000142731	989.8108039	739.855948		673.0826653		
562.5308927	310.4857773	203.5828147		800.9164724		
358.8664949	1.159807471	0.000118295		0.002242783		PLK4
4	127880861	127899195		+	4482	
protein_coding	polo like kinase 4 [Source:HGNC	Symbol;Acc:HGNC:11397]				
-	1091 836	579 543		272	236	
11.9201462	8.838139784	8.037362535		6.731936659		
3.730305598	2.448336848					
ENSG00000170004	3050.177748	2788.619727		3758.335504		
1978.699825	1857.207204	2396.411268		3199.044326		
2077.439432	0.621990677	0.000118592		0.00224601		CHD3
17	7884806 7912760	+	9758	protein_coding		
chromodomain helicase DNA binding protein 3 [Source:HGNC						
Symbol;Acc:HGNC:1918]	-	3362	3151	3233	1910	1627
2778	16.87196162	15.30079619		20.61349999		
10.87638562	10.24882551	13.23739248				
ENSG00000091317	2637.378558	2489.491366		2430.77004		
1882.354755	1717.945201	1666.618635		2519.213321		
1755.639531	0.521238004	0.000119189		0.002254908		CMTM6
3	32481312	32503408		-	4413	
protein_coding	CKLF like MARVEL transmembrane domain containing 6					
[Source:HGNC	Symbol;Acc:HGNC:19177]	-		2907	2813	2091
1817	1505 1932	32.25817457		30.20384588		
29.47996421	22.87878955	20.96283098		20.35655171		
ENSG00000174442	1815.409183	1397.407347		1401.96493		
1185.147958	565.0384549	697.8749876		1538.260486		
816.0204669	0.914678677	0.000120729		0.002281591		ZWILCH
15	66504959	66550128		+	4849	
protein_coding	zwilch kinetochore protein [Source:HGNC					
Symbol;Acc:HGNC:25468]	-	2001	1579	1206	1144	495
809	20.20801186	15.42966108		15.47397783		
13.10949264	6.274807038	7.757599518				
ENSG00000260231	13.60876449	15.0449176		16.2748831		
75.62570013	74.19696883	59.52209412		14.9761884		
69.78158769	-2.22173385	0.000121986		0.002302887		KDM7A-
DT	7	140177184		140179640	+	2457
bidirectional_promoter_lncRNA	KDM7A divergent transcript					
[Source:HGNC	Symbol;Acc:HGNC:48959]	-		15	17	14
73	65 69	0.298961171		0.327846239		
0.354511009	1.650934135	1.626131117		1.305794853		
ENSG00000013563	257.6592743	234.5237156		291.7854041		
139.8557468	118.7151501	93.16501689		261.322798		
117.2453046	1.157639562	0.000122216		0.002303346		
DNASE1L1	X	154401238		154412112	-	4130
protein_coding	deoxyribonuclease 1 like 1 [Source:HGNC					
Symbol;Acc:HGNC:2957]	-	284	265	251	135	104
108	3.367417557	3.040340769		3.78120755		

1.8163342	1.547856331	1.215919216			
ENSG00000136827	1343.638681	1571.751392	1341.515364		
2059.505368	2115.184358	2055.668845	1418.968479		
2076.78619	-0.54907947	0.000122377	0.002303346	TOR1A	
9	129812944	129824134	- 3766		
protein_coding	torsin family 1 member A [Source:HGNC				
Symbol;Acc:HGNC:3098]	-	1481 1776	1154 1988	1853	
2383	19.25765608	22.34544905	19.06480378		
29.3324344	30.24422525	29.422173			
ENSG00000111412	1131.341955	1161.998636	1092.742151		
1470.039294	1733.926087	2033.24023	1128.694247		
1745.735204	-0.629409876	0.000122401	0.002303346		
C12orf49	12 116710185	116738070	-	8664	
protein_coding	chromosome 12 open reading frame 49				
[Source:HGNC	Symbol;Acc:HGNC:26128]	-	1247 1313	940	
1419	1519 2357	7.048175239	7.180798221		
6.750194031	9.100725087	10.77672226	12.64946498		
ENSG00000185262	1710.168071	1970.884206	2302.895958		
1035.968495	1406.317932	1321.563017	1994.649412		
1254.616482	0.668507324	0.000123545	0.002322411	UBALD2	
17	76265202	76271299	+ 1797		
protein_coding	UBA like domain containing 2 [Source:HGNC				
Symbol;Acc:HGNC:28438]	-	1885 2227	1981 1000	1232	
1532	51.36791769	58.7216947	68.58722707		
30.92174302	42.14150009	39.64073572			
ENSG00000118523	1280.131113	1220.408316	1698.4003		
1082.587077	429.2009274	477.9020311	1399.646577		
663.2300119	1.077277678	0.000124256	0.002333299	CTGF	
6	131948176	131951373	- 2339		
protein_coding	connective tissue growth factor [Source:HGNC				
Symbol;Acc:HGNC:2500]	-	1411 1379	1461 1045	376	
554	29.54101924	27.93575963	38.86215152		
24.82550618	9.881092919	11.01312481			
ENSG00000164574	2163.793554	1653.170946	1919.273714		
1319.823863	1255.641011	1218.046332	1912.079405		
1264.503735	0.596635728	0.00012449	0.002335202		
GALNT10 5	154190730	154420984	+ 10496		
protein_coding	polypeptide N-acetylgalactosaminyltransferase 10				
[Source:HGNC	Symbol;Acc:HGNC:19873]	-	2385 1868	1651	
1274	1100 1412	11.12738834	8.432949327		
9.786560784	6.744622541	6.441933293	6.255209977		
ENSG00000272899	64.41481858	86.72952501	52.31212425		
132.6039673	214.6004637	212.2092051	67.81882261		
186.4712121	-1.455241803	0.000125062	0.002343447		
ATP6V1FNB	7 128866308	128872044	+ 3902		
protein_coding	ATP6V1F neighbor [Source:HGNC				
Symbol;Acc:HGNC:52392]	-	71 98	45 128	188	
246	0.891045266	1.190050117	0.717516835		
1.822782071	2.961542329	2.931425492			
ENSG00000076924	1608.555963	1675.295825	2044.822812		

2203.504989	2979.293672	3279.75365	1776.224867	
2820.85077	-0.667981599	0.000125745	0.002353762	XAB2
19	7619525 7629565	- 4673	protein_coding	XPA
binding protein	2 [Source:HGNC	Symbol;Acc:HGNC:14089]	-	1773
1893	1759 2127	2610 3802	18.57982581	
19.19469757	23.41946151	25.29203374	34.33144527	
37.83095891				
ENSG00000164604	448.1819772	309.7483036	391.759686	
216.5174154	187.2046598	103.5166854	383.2299889	
169.0795869	1.183526916	0.000126332	0.002361097	GPR85
7	113078331	113087778	- 7396	
protein_coding	G protein-coupled receptor 85	[Source:HGNC		
Symbol;Acc:HGNC:4536]	-	494 350	337 209	164
120	3.270835705	2.242319959	2.834913715	
1.570223336	1.362995135	0.754423767		
ENSG00000162851	1221.1598	1260.233098	1061.354876	
1867.851196	1561.560821	1989.245638	1180.915925	
1806.219219	-0.612933394	0.000126404	0.002361097	TFB2M
1	246540560	246566324	- 1848	
protein_coding	"transcription factor B2, mitochondrial	[Source:HGNC		
Symbol;Acc:HGNC:18559]"	-	1346 1424	913 1803	1368
2306	35.66742663	36.51190252	30.73800361	
54.21329496	45.50210525	58.02142011		
ENSG00000143420	2772.558952	3298.376936	3270.089011	
2105.087982	1950.809534	2330.8507	3113.674966	
2128.916072	0.547992605	0.000126594	0.002362162	ENSA
1	150600851	150629612	- 5493	
protein_coding	endosulfine alpha [Source:HGNC	Symbol;Acc:HGNC:3360]		
-	3056 3727	2813 2032	1709 2702	
27.24409804	32.14964891	31.86155589	20.55541022	
19.12404795	22.87213806			
ENSG00000136122	427.315205	347.8030952	370.8348363	
220.6612894	173.5067579	81.9507093	381.9843788	
158.7062522	1.270780226	0.000126747	0.002362523	BORA
13	72727749	72756198	+ 3189	
protein_coding	"bora, aurora kinase A activator	[Source:HGNC		
Symbol;Acc:HGNC:24724]"	-	471 393	319 213	152
95	7.232610398	5.839349531	6.223619178	
3.711394569	2.929789572	1.385160518		
ENSG00000119537	2204.619847	2396.566875	2200.596693	
3291.271908	3610.538653	2925.209003	2267.261138	
3275.673188	-0.530393888	0.000128058	0.002384431	KDSR
18	63327726	63367510	- 9313	
protein_coding	3-ketodihydrosphingosine reductase	[Source:HGNC		
Symbol;Acc:HGNC:4021]	-	2430 2708	1893 3177	3163
3391	12.77748425	13.77797835	12.64642747	
18.95569253	20.8764644	16.93047742		
ENSG00000198695	4759.438568	6035.666944	4161.720107	
7410.282644	6820.413673	8405.554857	4985.608539	
7545.417058	-0.597683222	0.000128854	0.002396733	MT-ND6



MT	14149	14673	-	525	protein_coding		
mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 6 [Source:HGNC Symbol;Acc:HGNC:7462]						5246	6820 3580
7153	5975	9744	489.3252948	615.533242			
424.2585173	757.0785912		699.5616065	862.9964118			
ENSG00000112186	443.6457224		310.6332987	344.0975284			
217.5533839	138.1205112		70.73640171	366.1255165			
142.1367656	1.368286157		0.00013027	0.002420525			CAP2
6	17393216		17557792	+		3637	
protein_coding cyclase associated actin cytoskeleton regulatory protein 2 [Source:HGNC Symbol;Acc:HGNC:20039]						489	351
296	210	121	82	6.584067		4.572884752	
5.063551794	3.208396525		2.044981716	1.048338582			
ENSG00000111602	1870.751492		1655.825931	1553.088844			
1144.745187	1206.556862		1001.523932	1693.222089			
1117.60866	0.600321027		0.00013352	0.002478309			
TIMELESS	12	56416373		56449403			5818
protein_coding timeless circadian regulator [Source:HGNC Symbol;Acc:HGNC:11813]						1336	1105 1057
1161	17.35575967		15.23794885	14.28695207			
10.5535994	11.1673115		9.278751013				
ENSG00000266028	1327.308163		1121.288859	1300.828156			
887.8250001	760.2335576		772.0619455	1249.808393			
806.7068344	0.631383917		0.000133927	0.002483264			SRGAP2
1	206203345		206464443	+		15675	
protein_coding SLIT-ROBO Rho GTPase activating protein 2 [Source:HGNC Symbol;Acc:HGNC:19751]						1119	857 666
895	4.570518384		3.829971182	4.441497108			
3.037982837	2.611644379		2.65488983				
ENSG00000182149	2363.388766		2393.026894	2674.893286			
3292.307877	3853.676412		3470.396879	2477.102982			
3538.793723	-0.514782537		0.000134438	0.002490136			IST1
16	71845996		71931199	+		7806	
protein_coding "IST1, ESCRT-III associated factor [Source:HGNC Symbol;Acc:HGNC:28977]"						2301	3178 3376
4023	16.34210002		16.41362781	18.33981364			
22.62233293	26.58405649		23.96362439				
ENSG00000065534	4007.327517		3290.411979	3122.452572			
2827.158023	1670.002545		1585.530565	3473.397356			
2027.563711	0.776867205		0.000135169	0.002501042			MYLK
3	123610049		123884331	-		22167	
protein_coding myosin light chain kinase [Source:HGNC Symbol;Acc:HGNC:7590]						2686	2729 1463
1838	9.757738194		7.947470142	7.538864432			
6.840827795	4.056810906		3.855401428				
ENSG00000151718	1229.325059		1130.138811	1132.266867			
855.7099768	704.300458		646.1166449	1163.910245			
735.3756932	0.663045399		0.000135469	0.002503982			WWC2
4	183099293		183320777	+		9966	
protein_coding WW and C2 domain containing 2 [Source:HGNC							

Symbol;Acc:HGNC:24148]	-	1355	1277	974	826	617
749	6.658050669	6.071506374	6.080578795			
4.605440843	3.805499256	3.494555586				
ENSG00000139880	272.1752898	253.9936089	319.6852037			
103.5968495	78.76293614	167.3519748	281.9513675			
116.5705868	1.267945692	0.000137263	0.002534485			CDH24
14	23047062	23057538	-	3748		
protein_coding	cadherin 24 [Source:HGNC	Symbol;Acc:HGNC:14265]	-			
300	287	275	100	69	194	3.919677681
3.628346506	4.564991342	1.482560624	1.13161024			
2.406762111						
ENSG00000173846	400.097676	583.2118059	614.9580828			
615.365286	1281.895323	1341.403715	532.7558549			
1079.554775	-1.019729874	0.000138008	0.002545444			PLK3
1	44800225	44805990	+	3479		
protein_coding	polo like kinase 3 [Source:HGNC	Symbol;Acc:HGNC:2154]				
-	441	659	529	594	1123	1555
6.207444486	8.975474692	9.460369296	9.487331155			
19.84141714	20.78293995					
ENSG00000198890	1437.992781	1406.257298	1211.316299			
1800.513244	2052.402307	2252.350547	1351.85546			
2035.088699	-0.589835358	0.000138144	0.002545444			PRMT6
1	107056679	107067636	+	4335		
protein_coding	protein arginine methyltransferase 6 [Source:HGNC	Symbol;Acc:HGNC:18241]	-			
2611	17.90477419	17.36845694	14.95496716			1798
22.2778212	25.49458493	28.00585192				
ENSG00000186642	89.81784563	69.9146171	159.261356			
278.6755251	229.4398575	290.7093583	106.3312729			
266.2749136	-1.331692805	0.000138858	0.002555942			PDE2A
11	72576141	72674591	-	7182		
protein_coding	phosphodiesterase 2A [Source:HGNC	Symbol;Acc:HGNC:8777]	-			
337	0.675022855	0.52120447	1.18681223			201
2.081224467	1.72027555	2.181802918				
ENSG00000103995	703.1194986	470.8174215	502.1963928			
335.6537923	214.6004637	307.0995001	558.7111043			
285.7845854	0.966206331	0.000140148	0.002577005			CEP152
15	48712928	48811146	-	8168		
protein_coding	centrosomal protein 152 [Source:HGNC	Symbol;Acc:HGNC:29298]	-			
356	4.646379269	3.086187757	3.290598265			188
2.204150905	1.414781852	2.026587161				
ENSG00000136717	1422.569515	1811.585078	2039.010354			
1192.399738	1136.925861	1016.188795	1757.721649			
1115.171465	0.656274821	0.000141416	0.002597623			BIN1
2	127048027	127107355	-	6929		
protein_coding	bridging integrator 1 [Source:HGNC	Symbol;Acc:HGNC:1052]	-			
1178	11.08164365	13.99824925	15.74946749			996

9.230321028	8.835601847	7.905070496				
ENSG00000148331	678.6237226	736.3159674	618.4455577			
865.0336932	1288.744274	1256.00245	677.7950826			
1136.593472	-0.745247102	0.000141877	0.002603381	ASB6		
9	129634604	129642169	- 4622			
protein_coding	ankyrin repeat and SOCS box containing 6 [Source:HGNC					
Symbol;Acc:HGNC:17181]	-	748 832	532 835	1129		
1456	7.925019514	8.529426399	7.161245094			
10.03849433	15.01451683	14.64746443				
ENSG00000145649	19.05227029	14.15992245	20.9248497	0		
0	0	18.04568081	0	6.605670376		
0.000143419	0.002628959	GZMA 5	55102648			
55110252	+ 894	protein_coding	granzyme A			
[Source:HGNC	Symbol;Acc:HGNC:4708]	-	21 16	18		
0	0	0	1.150298251	0.848025486		
1.252684873	0	0	0			
ENSG00000231500	25533.67119	36767.12364	38090.2014			
43196.77833	55392.03245	55453.02575	33463.66541			
51347.27884	-0.617720225	0.000144392	0.00264404	RPS18		
6	33272010	33276510	+ 1898			
protein_coding	ribosomal protein S18 [Source:HGNC					
Symbol;Acc:HGNC:10401]	-	28144 41545	32766 41697	48526		
64283	726.1365502	1037.16773	1074.073658			
1220.732888	1571.540747	1574.82009				
ENSG00000173848	974.3875375	938.0948623	977.6554776			
728.2858519	471.436125	383.8743751	963.3792924			
527.8654507	0.868745418	0.000144614	0.002645381	NET1		
10	5412551 5458463	+ 4175	protein_coding			
neuroepithelial	cell transforming 1 [Source:HGNC					
Symbol;Acc:HGNC:14592]	-	1074 1060	841 703	413		
445	12.59727137	12.03028251	12.5327496			
9.356445427	6.080522951	4.956037106				
ENSG00000181894	91.63234756	64.60464618	75.56195724			
250.7043758	159.8088559	179.4289214	77.26631699			
196.6473844	-1.34770108	0.000145133	0.002652126	ZNF329		
19	58126252	58155110	- 4309			
protein_coding	zinc finger protein 329 [Source:HGNC					
Symbol;Acc:HGNC:14209]	zf-C2H2	101 73	65 242	140		
208	1.147819407	0.802736123	0.938520383			
3.120692057	1.997095816	2.244490952				
ENSG00000204116	697.6759928	631.8865393	512.6588176			
1145.781155	1019.352203	885.0676605	614.0737833			
1016.733673	-0.72579387	0.000146504	0.00267373	CHIC1		
X	73563200	73687102	+ 6939			
protein_coding	cysteine rich hydrophobic domain 1 [Source:HGNC					
Symbol;Acc:HGNC:1934]	-	769 714	441 1106	893		
1026	5.426978935	4.875596595	3.954108195			
8.856666329	7.910463511	6.875139132				
ENSG00000041357	3105.520057	3122.2629	3503.749833			
2144.454784	2260.15382	2436.092664	3243.844263			

2280.233756	0.508068958	0.000146618	0.00267373	PSMA4
15	78540405	78552419	+ 6996	
protein_coding	proteasome subunit alpha 4 [Source:HGNC			
Symbol;Acc:HGNC:9533]	-	3423 3528	3014 2070	1980
2824	23.95994307	23.89489995	26.80404225	
16.44116502	17.39653478	18.76920638		
ENSG00000105640	17809.33646	23634.68056	27175.5673	
29050.62853	37757.1252	39145.69724	22873.19477	
35317.81699	-0.626796959	0.000147664	0.002690039	RPL18A
19	17859876	17864153	+ 3527	
protein_coding	ribosomal protein L18a [Source:HGNC			
Symbol;Acc:HGNC:10311]	-	19630 26706	23377 28042	33077
45379	272.5483289	358.781322	412.3729445	
441.7896823	576.4584555	598.2469315		
ENSG00000102265	3473.863949	5479.004993	5699.696559	
6206.487253	9415.024599	8712.654357	4884.1885	
8111.388736	-0.731967361	0.000148237	0.0026977	TIMP1
X	47582313	47586789	+ 1541	
protein_coding	TIMP metalloproteinase inhibitor 1 [Source:HGNC			
Symbol;Acc:HGNC:11820]	-	3829 6191	4903 5991	8248
10100	121.6778175	190.3639055	197.9548292	
216.0273432	328.9980878	304.7542376		
ENSG00000087266	1199.385777	1208.903379	1275.25334	
873.3214412	733.9792455	812.6059807	1227.847499	
806.6355558	0.605580059	0.000148833	0.002704406	SH3BP2
4	2793023 2841098	+ 13968	protein_coding	SH3
domain binding	protein 2 [Source:HGNC Symbol;Acc:HGNC:10825]			-
1322	1366 1097	843 643	942 4.634745723	
4.633860056	4.886290103	3.35355468	2.829593875	
3.135795226				
ENSG00000120868	381.0454057	274.3484975	442.9093186	
180.2585181	181.4972007	179.4289214	366.1010739	
180.3948801	1.019631129	0.000148911	0.002704406	APAF1
12	98645141	98735433	+ 7908	
protein_coding	apoptotic peptidase activating factor 1 [Source:HGNC			
Symbol;Acc:HGNC:576]	-	420 310	381 174	159
208	2.600826091	1.857468571	2.997541204	
1.222628827	1.235884325	1.223003479		
ENSG00000107815	1036.987854	1168.193602	973.005511	
1309.464178	1808.123056	2089.311768	1059.395656	
1735.633	-0.712152543	0.000149167	0.002706268	TWNK
10	100987367	100994401	+ 4133	
protein_coding	twinkle mtDNA helicase [Source:HGNC			
Symbol;Acc:HGNC:1160]	-	1143 1320	837 1264	1584
2422	13.54283255	15.13334618	12.59989423	
16.99392559	23.55793028	27.2483213		
ENSG00000160299	2357.03801	1866.454778	1829.761857	
1533.233372	1101.539614	1169.738545	2017.751548	
1268.170511	0.670229904	0.000149652	0.002712286	PCNT
21	46324122	46445769	+ 11660	

protein_coding	pericentrin [Source:HGNC Symbol;Acc:HGNC:16068] -						
	2598	2109	1574	1480	965	1356	10.91111869
	8.570466667		8.39871848		7.053021515		5.087168504
	5.407445578						
ENSG00000108106	5878.98626		6815.347674		7007.499666		
4419.441599	4624.183396		4991.229516		6567.277866		
4678.284837	0.489106917		0.0001521		0.002753827		UBE2S
19	55399745		55407777		-	2788	
protein_coding	ubiquitin conjugating enzyme E2 S [Source:HGNC						
Symbol;Acc:HGNC:17895]	-		6480	7701	6028	4266	4051
	5786	113.8179921	130.8822628		134.5201432		
85.02372447	89.31344349		96.49763686				
ENSG00000187514	20080.18563		20545.16248		25140.04442		
15766.40452	15792.53944		15647.40964		21921.79751		
15735.4512	0.478276818		0.000152675		0.002758116		PTMA
2	231706895		231713541		+	3378	
protein_coding	prothymosin alpha [Source:HGNC Symbol;Acc:HGNC:9623]						
-	22133	23215	21626	15219	13835	18139	
320.8553774	325.6383036		398.3120086		250.3447657		
251.7484924	249.6805508						
ENSG00000188501	124.2933823		74.33959286		75.56195724		
6.215810969	30.82027936		18.11541995		91.39831081		
18.38383676	2.321036068		0.000152785		0.002758116		LCTL
15	66547179		66565979		-	3518	
protein_coding	lactase like [Source:HGNC Symbol;Acc:HGNC:15583]						
-	137	84	65	6	27	21	
1.907011955	1.131383633		1.149540742		0.094769253		
0.471753672	0.277558465						
ENSG00000272129	25.40302705		17.69990306		27.8997996		
1.035968495	0	0	23.66757657		0.345322832		
6.034923652	0.000152804		0.002758116		AL359715.3		6
80355424	80356859		+		1436		lincRNA novel
transcript	-	28	20	24	1	0	0
	0.954843674	0.659936268	1.039833125		0.038695245		
	0	0					
ENSG00000197081	2700.886126		2198.32796		2700.468103		
1910.325905	1627.767347		1512.206246		2533.227396		
1683.433166	0.589585227		0.000153449		0.002766937		IGF2R
6	159969099		160113507		+	17843	
protein_coding	insulin like growth factor 2 receptor [Source:HGNC						
Symbol;Acc:HGNC:5467]	-		2977	2484	2323	1844	1426
	1753	8.17033084	6.596448207		8.100058975		
5.742553962	4.912459809		4.568199466				
ENSG00000131018	1284.667368		1557.591469		1069.492318		
2444.885648	1841.226319		1975.443414		1303.917052		
2087.185127	-0.677943965		0.000153907		0.002772355		SYNE1
6	152121684		152637801		-	46064	
protein_coding	spectrin repeat containing nuclear envelope protein 1						
[Source:HGNC Symbol;Acc:HGNC:17089]	-				1416	1760	920
	2360	1613	2290	1.505325052	1.810412173		

1.242604799	2.846835672	2.152385611	2.311558309		
ENSG00000090863	2932.235122	2568.255934	3865.284736		
2306.06587	1890.310467	1529.459027	3121.925264		
1908.611788	0.709849228	0.000154407	0.002778535	GLG1	
16	74447427	74607144	- 14111		
protein_coding	golgi glycoprotein 1 [Source:HGNC				
Symbol;Acc:HGNC:4316]	-	3232	2902	3325	2226 1656
1773	11.21610958	9.744645781	14.66022732		
8.765554852	7.213564191	5.842274545			
ENSG00000099783	9323.818177	9013.675635	9690.530394		
7158.5423	6338.704122	7041.722527	9342.674735		
6846.322983	0.448365421	0.000154694	0.002780868	HNRNPM	
19	8444767	8489114 +	5614	protein_coding	
heterogeneous nuclear ribonucleoprotein M	[Source:HGNC				
Symbol;Acc:HGNC:5046]	-	10277	10185	8336	6910 5553
8163	89.64428998	85.96369327	92.38301767		
68.3939494	60.79986646	67.6096062			
ENSG00000169826	914.5089737	846.9403615	846.2939211		
1279.421091	1261.34847	1347.442189	869.2477521		
1296.070583	-0.576322669	0.000157319	0.002825187		
CSGALNACT2	10	43138486	43185308	+	3730
protein_coding	chondroitin sulfate N-				
acetylgalactosaminyltransferase 2	[Source:HGNC Symbol;Acc:HGNC:24292]				
-	1008	957	728	1235	1105 1562
13.23367253	12.15708762	12.14309504	18.39798114		
18.20961679	19.47167068				
ENSG00000102794	0	5.309970919	16.2748831	62.15810969	
42.23519764	95.75293403	7.194951339	66.71541379		
-3.252007866	0.00015873	0.002847647	ACOD1	13	
76948497	76958642	+	2177	protein_coding	
aconitate decarboxylase 1	[Source:HGNC Symbol;Acc:HGNC:33904]				
-	0	6	14	60	37 111 0
0.130592809	0.40010728	1.531457204	1.04469774		
2.370803545					
ENSG00000083937	1670.249028	1369.972497	1438.002171		
2085.40458	2255.587852	2209.218595	1492.741232		
2183.403676	-0.548437159	0.000161063	0.002886573	CHMP2B	
3	87227271	87255548	+	3106	
protein_coding	charged multivesicular body protein 2B [Source:HGNC				
Symbol;Acc:HGNC:24537]	-	1841	1548	1237	2013 1976
2561	29.02558761	23.61543478	24.77850471		
36.01259087	39.10505032	38.3388556			
ENSG00000168404	326.6103478	330.9881873	248.7732131		
492.0850351	547.9160775	574.5176042	302.123916		
538.1729056	-0.831102747	0.000161828	0.002897349	MLKL	
16	74671855	74700960	-	5692	
protein_coding	mixed lineage kinase domain like pseudokinase				
[Source:HGNC Symbol;Acc:HGNC:26617]	-		360	374	214
475	480	666	3.097178907	3.113387315	
2.339137377	4.637039142	5.183507201	5.440519308		

ENSG0000072062	1342.73143		1375.282468	1770.474783	
1137.493407	784.204886		733.2431885	1496.162893	
884.9804939	0.757340615		0.000162015	0.002897767	PRKACA
19	14091688		14118084	- 6144	
protein_coding	protein kinase cAMP-activated catalytic subunit alpha				
[Source:HGNC Symbol;Acc:HGNC:9380]			-	1480 1554	1523
1098	687 850		11.79612027	11.98467464	
15.42252713	9.93031847		6.873103601	6.432780562	
ENSG0000099139	339.3118613		185.8489822	556.8335003	
101.5249125	191.7706271		100.0661293	360.6647812	
131.1205563	1.460858954		0.000162193	0.002898008	PCSK5
9	75890644		76362339	+ 12705	
protein_coding	proprotein convertase subtilisin/kexin type 5				
[Source:HGNC Symbol;Acc:HGNC:8747]			-	374 210	479
98	168 116		1.441536411	0.783197092	
2.345674198	0.428611135		0.812796776	0.424535818	
ENSG00000182578	375.6018999		309.7483036	318.5227121	
203.049825	136.9790194		151.824472	334.6243052	
163.9511055	1.029351165		0.000163089	0.002911082	CSF1R
5	150053291		150113372	- 5151	
protein_coding	colony stimulating factor 1 receptor [Source:HGNC				
Symbol;Acc:HGNC:2433]			-	414 350 274 196	120
176	3.935840359		3.219607536	3.309526474	
2.114348467	1.431980343		1.588737461		
ENSG00000213853	1398.073739		1329.26272	1487.989312	
1053.579959	866.3922976		684.9354019	1405.10859	
868.3025529	0.695002874		0.000163816	0.002921107	EMP2
16	10528422		10580698	- 8718	
protein_coding	epithelial membrane protein 2 [Source:HGNC				
Symbol;Acc:HGNC:3334]			-	1541 1502 1280 1017	759
794	8.655944389		8.163558492	9.134819106	
6.482106048	5.35145985		4.234817079		
ENSG00000083457	283.0623014		347.8030952	337.1225785	
175.0786756	144.9694622		168.2146138	322.6626583	
162.7542505	0.986033259		0.000164875	0.00293704	ITGAE
17	3714628 3801243		- 6657	protein_coding	
integrin subunit alpha E [Source:HGNC Symbol;Acc:HGNC:6147]			-		
312	393 290		169 127	195 2.295116423	
2.797308946	2.710355683		1.410652982	1.172661115	
1.362031252					
ENSG00000109089	1387.186727		1291.207928	1474.039412	
926.1558344	834.4305264		987.7217068	1384.144689	
916.1026892	0.594396537		0.000165705	0.002948844	CDR2L
17	74987632		75005800	+ 3536	
protein_coding	cerebellar degeneration related protein 2 like				
[Source:HGNC Symbol;Acc:HGNC:29999]			-	1529 1459	1268
894	731 1145		21.17502407	19.55102254	
22.31073325	14.04873777		12.70727653	15.05650763	
ENSG00000103512	1555.028156		1669.985854	2627.231129	
953.0910153	1104.96409		1331.914686	1950.748379	

1129.98993	0.786545233	0.00016613	0.002953446	NOM01
16	14833681	14896160	+ 5819	
protein_coding	NODAL modulator	1 [Source:HGNC	Symbol;Acc:HGNC:30060]	
-	1714 1887	2260 920	968 1544	
14.42418035	15.36561629	24.16389437	8.785197186	
10.22526001	12.33757929			
ENSG00000115355	1810.872928	1108.013932	1192.716433	
983.1341017	603.8491771	671.9958163	1370.534431	
752.9930317	0.864263214	0.000167575	0.002976144	
CCDC88A 2	55287842	55419895	- 33942	
protein_coding	coiled-coil domain containing	88A [Source:HGNC	Symbol;Acc:HGNC:25523]	
-	779	1996 1252	1026 949	529
1.553605775	2.879730137	1.747806462	1.880688107	
ENSG00000276043	0.958000207	1.067163706		
5358.224205	5319.705865	5842.683032		
4476.419866	2849.163603	3472.984796	5506.871034	
3599.522755	0.613242149	0.000168233	0.002984825	UHRF1
19	4903080 4962154 +	5145	protein_coding	
ubiquitin like with PHD and ring finger domains	1 [Source:HGNC	Symbol;Acc:HGNC:12556]	-	
-	4026	5906 6011	5026 4321	2496
46.66711259	56.21299787	55.35894305	60.77765671	
29.81992605	36.3847512			
ENSG00000151388	670.4584639	554.0069659	805.6067134	
462.0419487	223.7323983	328.6654763	676.6907144	
338.1466078	0.999262632	0.000169453	0.003003454	
ADAMTS12	5 33523535	33892192	-	9778
protein_coding	ADAM metalloproteinase with thrombospondin type			
1 motif	12 [Source:HGNC	Symbol;Acc:HGNC:14605]	-	
-	693 446	196 381	3.701034121	739 626
4.409507121	2.534526693	1.232121111	3.033547091	
ENSG00000176438	847.3724022	784.9907008	926.505845	
637.1206244	414.3615336	377.8359018	852.956316	
476.4393533	0.840424881	0.000171919	0.003044115	SYNE3
14	95407266	95475836	-	18164
protein_coding	spectrin repeat containing nuclear envelope family			
member 3	[Source:HGNC	Symbol;Acc:HGNC:19861]	-	
-	797 615	363 438	2.51804836	934 887
2.7299436	1.881376289	1.228407592	2.313867933	
ENSG00000217801	38.10454057	36.28480128	48.8246493	
3.107905485	6.848950969	0	41.07133038	3.318952151
3.680722717	0.000172225	0.003046482	AL390719.1	
1	1059734 1069355 +	2171		
transcribed_unprocessed_pseudogene	uncharacterized	LOC100288175		
[Source:NCBI	gene;Acc:100288175]	-	42 41 42	
3	6 0	0.947366777	0.894850477	
1.203639173	0.076784485	0.169878645	0	
ENSG00000116459	4617.000166	4720.564147	5436.973447	
3876.594108	3045.500198	3284.929484	4924.84592	
3402.341263	0.533316726	0.000172416	0.003046821	ATP5PB
1	111448864	111462773	+ 3383	



protein_coding	ATP synthase peripheral stalk-membrane subunit b						
[Source:HGNC Symbol;Acc:HGNC:840]	-	5089	5334	4677			
3742	2668	3808	73.66465117	74.70977946			
86.01460885	61.46301058	48.47649234	52.339065				
ENSG00000100029	1461.581306	2120.448387	1844.874248				
2286.382468	2980.435163	3574.776204	1808.96798				
2947.197945	-0.704421029	0.000172953	0.003053252			PES1	
22	30576625	30607083	-	4557			
protein_coding	pescadillo ribosomal biogenesis factor 1						
[Source:HGNC Symbol;Acc:HGNC:8848]	-	1611	2396	1587	2207	2611	
4144	17.31191836	24.91347027	21.66729742				
26.91134155	35.21885264	42.28357863					
ENSG00000140264	1455.230549	2622.240639	2541.206747				
823.5949534	1164.321665	1557.926116	2206.225978				
1181.947578	0.899675326	0.000173221	0.00305495			SERF2	
15	43777087	43802589	+	7347			
protein_coding	small EDRK-rich factor 2						
[Source:HGNC Symbol;Acc:HGNC:10757]	-	1604	2963	2186	795	1020	
1806	10.69111516	19.10944406	18.51172817				
6.01269442	8.533702374	11.42980245					
ENSG00000125630	2383.348288	2376.211986	1940.198564				
3194.926838	3006.689475	3596.34218	2233.252946				
3265.986164	-0.548135727	0.000173552	0.00305676			POLR1B	
2	112541915	112577150	+	6329			
protein_coding	RNA polymerase I subunit B						
[Source:HGNC Symbol;Acc:HGNC:20454]	-	2627	2685	1669	3084	2634	
4169	20.32608141	20.10183182	16.4069588				
27.07642469	25.58161951	30.62864735					
ENSG00000260966	84.37433984	83.18954439	112.76169				
199.9419195	214.6004637	226.0114299	93.44185809				
213.5179377	-1.196230981	0.00017367	0.00305676				
AP001486.2	11	103050687	103055799	-		5113	
	sense_overlapping	"novel transcript, overlapping to					
DCUN1D5"	-	93	94	97	193	188	262
	0.890708998	0.871121037	1.180328213	2.097459385			
	2.260109167	2.382629512					
ENSG00000162521	4803.893865	4222.311876	4933.614562				
3587.558898	3268.091104	2840.670376	4653.273434				
3232.106793	0.52587615	0.000174522	0.003066568			RBBP4	
1	32651142	32686211	+	9470			
protein_coding	"RB binding protein 4, chromatin remodeling factor						
[Source:HGNC Symbol;Acc:HGNC:9887]"	-	5295	4771	4244			
3463	2863	3293	27.3807077	23.87183909			
27.88253415	20.31957201	18.58312419	16.16861314				
ENSG00000107249	591.5276298	543.387024	784.6818637				
397.811902	311.6272691	365.7589552	639.8655058				
358.3993754	0.834253488	0.000174686	0.003066568			GLIS3	
9	3824127	4348392	-	11826	protein_coding	GLIS	
family zinc finger 3	[Source:HGNC Symbol;Acc:HGNC:28510]					zf-	
C2H2	652	614	675	384	273	424	2.699842345

	2.460123657	3.55118048	1.804286058	1.418966468	
	1.667089822				
ENSG00000173744	1706.539067	1556.706474	1589.126085		
2387.907381	2163.127014	2377.433209	1617.457209		
2309.489201	-0.513950013	0.000174747	0.003066568	AGFG1	
2	227472152	227561214	+ 9321		
protein_coding	ArfGAP with FG repeats 1 [Source:HGNC				
Symbol;Acc:HGNC:5175]	-	1881 1759	1367 2305	1895	
2756	9.88223031	8.94189925	9.124579369		
13.74106726	12.49666324	13.74825958			
ENSG00000104695	1819.945438	2058.498726	2059.935204		
2686.266307	2827.475258	2896.741914	1979.459789		
2803.494493	-0.502361478	0.000175179	0.003071098	PPP2CB	
8	30774457	30814314	- 4516		
protein_coding	protein phosphatase 2 catalytic subunit beta				
[Source:HGNC	Symbol;Acc:HGNC:9300]	-	2006 2326	1772	
2593	2477 3358	21.75232478	24.4051914		
24.41274591	31.90513798	33.7147104	34.57464875		
ENSG00000180891	1355.432943	1308.022836	1338.027889		
924.0838975	848.1284283	929.0622518	1333.82789		
900.4248592	0.566493827	0.000175628	0.003075929	CUEDC1	
17	57861243	57955323	- 5577		
protein_coding	CUE domain containing 1 [Source:HGNC				
Symbol;Acc:HGNC:31350]	-	1494 1478	1151 892	743	
1077	13.11833256	12.55741452	12.84048789		
8.887431236	8.189087838	8.979374335			
ENSG00000237973	137.9021468	143.3692148	77.88694054		
186.4743291	335.5985975	376.1106237	119.7194341		
299.3945168	-1.318924419	0.000176253	0.003083818		
MTC01P12	1 631074	632616 +	1543		
unprocessed_pseudogene	MT-C01 pseudogene 12 [Source:HGNC				
Symbol;Acc:HGNC:52014]	-	152 162	67 180	294	
436	4.823989407	4.974798896	2.701566879		
6.482143225	11.711938	13.13867534			
ENSG00000196659	189.6154519	201.7788949	211.5734803		
342.9055718	326.4666629	577.9681603	200.9892757		
415.7801317	-1.051136923	0.000176518	0.003085401	TTC30B	
2	177548998	177553014	- 4017		
protein_coding	tetratricopeptide repeat domain 30B [Source:HGNC				
Symbol;Acc:HGNC:26425]	-	209 228	182 331	286	
670	2.547845787	2.689425114	2.818878796		
4.578658003	4.376345103	7.755396192			
ENSG00000072501	5915.276298	5248.021258	5746.196225		
4607.987865	3306.901826	3524.743139	5636.497927		
3813.210944	0.563751956	0.00017679	0.003087101	SMC1A	
X	53374149	53422728	- 10484		
protein_coding	structural maintenance of chromosomes 1A [Source:HGNC				
Symbol;Acc:HGNC:11111]	-	6520 5930	4943 4448	2897	
4086	30.45434526	26.80119274	29.33394307		
23.57489733	16.98512875	18.12184319			

ENSG0000064393	1956.033083	1695.650713	1521.70157		
2374.43979	2539.819318	2704.373407	1724.461789		
2539.544172	-0.558045427	0.000178088	0.003103797	HIPK2	
7	139561570	139777778	- 15402		
protein_coding	homeodomain interacting protein kinase 2 [Source:HGNC				
Symbol;Acc:HGNC:14402]	-	2156 1916	1309 2292	2225	
3135	6.854887331	5.89447088	5.287731252		
8.268934235	8.879740137	9.464364203			
ENSG00000102241	3433.944906	3085.978099	3163.139779		
2458.353238	2277.276197	2080.685377	3227.687595		
2272.104938	0.506756351	0.000178097	0.003103797		
HTATSF1 X	136497079	136512346	+ 3136		
protein_coding	HIV-1 Tat specific factor 1 [Source:HGNC				
Symbol;Acc:HGNC:5276]	-	3785 3487	2721 2373	1995	
2412	59.10422314	52.68686214	53.98328818		
42.04687539	39.1033717	35.76286206			
ENSG00000279095	170.5631816	206.2038707	106.9492318		
323.2221704	386.9657298	332.1160324	161.2387614		
347.4346442	-1.102858344	0.00017949	0.003125002		
AC243964.3	19 44664131	44666158	+ 2028		
TEC	TEC -	188 233	92 312	339	
385	4.539610399	5.443953553	2.82245303		
8.548672647	10.27493558	8.827216877			
ENSG00000143479	626.9104175	459.3124845	394.0846693		
729.3218204	867.5337894	1050.694357	493.4358571		
882.5166557	-0.837974597	0.000181823	0.003162512	DYRK3	
1	206635536	206684419	+ 4336		
protein_coding	dual specificity tyrosine phosphorylation regulated				
kinase 3 [Source:HGNC	Symbol;Acc:HGNC:3094]	-	691 519		
339	704 760	1218 7.804003534	5.671586044		
4.864265498	9.021846409	10.77386871	13.06137904		
ENSG00000186594	303.0218226	282.3134538	141.8239813		
406.09965	675.7631623	504.6438415	242.3864193		
528.8355513	-1.121713105	0.00018456	0.003206962		
MIR22HG 17	1711493 1717174	- 2986	lincRNA MIR22 host		
gene [Source:HGNC	Symbol;Acc:HGNC:28219]	-	334 319		
122	392 592	585 5.477537342	5.062060373		
2.542007771	7.294714636	12.1865076	9.109553291		
ENSG00000177000	257.6592743	445.152562	309.2227789		
542.8474913	721.4228354	644.3913668	337.3448717		
636.2205645	-0.914170087	0.000184882	0.003209396	MTHFR	
1	11785723	11806920	- 11978		
protein_coding	methylenetetrahydrofolate reductase [Source:HGNC				
Symbol;Acc:HGNC:7436]	-	284 503	266 524	632	
747	1.161081525	1.989803164	1.381669512		
2.43085482	3.243247782	2.899795097			
ENSG00000101463	156.9544171	123.8993214	146.4739479		
39.36680281	34.24475485	0.862639045	142.4425621		
24.82473223	2.53221037	0.000185376	0.003214816		
SYNDIG1 20	24469199	24666616	+ 2847		

protein_coding	synapse differentiation inducing 1 [Source:HGNC					
Symbol;Acc:HGNC:15885]	-	173	140	126	38	30
1	2.975687492	2.33005949	2.75353071			
0.741665663	0.647710814	0.016332157				
ENSG00000131899	2545.746211	2698.350222	3021.315798			
1914.469779	2052.402307	1767.547404	2755.13741			
1911.473163	0.527495933	0.000185966	0.003221895			LLGL1
17	18225587	18244875	+	6638		
protein_coding	"LLGL1, scribble cell polarity complex component					
[Source:HGNC Symbol;Acc:HGNC:6628]"	-	2806	3049			2599
1848	1798	2049	20.70041738	21.76439589		
24.35992114	15.4695173	16.64944647	14.3527701			
ENSG00000245532	4277.688305	5623.259203	3005.040915			
6011.725176	7727.899677	7483.393718	4301.996141			
7074.339523	-0.717238787	0.000188146	0.003256189			NEAT1
11	65422774	65445540	+	22767		
lincRNA	nuclear paraspeckle assembly transcript 1 [Source:HGNC					
Symbol;Acc:HGNC:30815]	-	4715	6354	2585	5803	6770
8675	10.14155553	13.22415235	7.064177229			
14.16311582	18.27806516	17.71718394				
ENSG00000131116	422.7789501	723.0410401	757.9445557			
265.2079347	404.0881072	288.1214411	634.588182			
319.139161	0.992240629	0.000188314	0.003256189			ZNF428
19	43607219	43619874	-	1803		
protein_coding	zinc finger protein 428 [Source:HGNC					
Symbol;Acc:HGNC:20804]	-	466	817	652	256	354
334	12.656653	21.47102466	22.49876687			
7.889623563	12.06854448	8.613541653				
ENSG00000163590	301.2073207	292.0484005	217.3859385			
522.1281214	554.7650285	422.6931322	270.2138866			
499.862094	-0.884286615	0.000188903	0.003261425			PPM1L
3	160755602	161078907	+	12447		
protein_coding	"protein phosphatase, Mg2+/Mn2+ dependent 1L					
[Source:HGNC Symbol;Acc:HGNC:16381]"	-	332	330			187
504	486	490	1.306177137	1.25624889		
0.934724796	2.249976026	2.400042542	1.830469128			
ENSG00000168913	0	0.884995153	0	40.4027713		
18.26386925	12.07694663	0.294998384				
23.58119573	-6.072247533	0.000188985	0.003261425			ENHO
9	34521040	34523041	-	1082		
protein_coding	energy homeostasis associated [Source:HGNC					
Symbol;Acc:HGNC:24838]	-	0	1	0	39	16
14	0	0.043792444	0	2.002854451		
0.908950184	0.601633199					
ENSG00000008441	3364.993833	2524.006177	3638.598864			
2323.677334	1961.082961	1932.311461	3175.866291			
2072.357252	0.615625441	0.000189286	0.003263436			NFIX
19	12995608	13098796	+	6302		
protein_coding	nuclear factor I X [Source:HGNC Symbol;Acc:HGNC:7788]					
CTF/NFI	3709	2852	3130	2243	1718	2240

28.82087209	21.44359337	30.90101788	19.77711407		
16.75683992	16.52725156				
ENSG00000174233	806.5461088	738.9709529	1005.555277		
466.1858227	578.7363569	481.3525873	850.3574463		
508.7582556	0.74087207	0.000191295	0.003294855	ADCY6	
12	48766194	48789037	- 8410		
protein_coding	adenylate cyclase 6 [Source:HGNC Symbol;Acc:HGNC:237]				
-	889 835	865 450	507 558		
5.176478907	4.704537347	6.399218779	2.973230379		
3.705606707	3.085099826				
ENSG00000063177	13172.37678	17557.41884	19168.32482		
21384.46167	26027.15517	27105.84408	16632.70681		
24839.15364	-0.578667858	0.000193609	0.003331465	RPL18	
19	48615328	48619536	- 4209		
protein_coding	ribosomal protein L18 [Source:HGNC				
Symbol;Acc:HGNC:10310]	-	14519 19839	16489 20642	22801	
31422	168.9220966	223.3404015	243.7374363		
272.511536	332.9832049	347.1250191			
ENSG00000091137	110.6846178	74.33959286	87.18687374		
21.75533839	15.98088559	0 90.73702815	12.57874133		
2.868036452	0.000194299	0.0033401	SLC26A4 7		
107660635	107717809	+	5800	protein_coding	
	solute carrier family 26 member 4 [Source:HGNC				
Symbol;Acc:HGNC:8818]	-	122 84	75 21	14	
0	1.030055252	0.686242693	0.80452606		
0.201188589	0.148370446	0			
ENSG00000002586	4064.484328	5263.066176	6814.526052		
3573.055339	3347.995532	3447.105625	5380.692185		
3456.052165	0.63835796	0.000194757	0.003344154	CD99	
X	2691133 2741309	+	4912	protein_coding	CD99
molecule (Xg blood group) [Source:HGNC Symbol;Acc:HGNC:7082]	-				
4480	5947 5862	3449 2933	3996 44.6630461		
57.3675128	74.2496315	39.01637169	36.70295786		
37.82667251					
ENSG00000162231	1504.222102	1627.506087	1406.614896		
2238.727917	1927.979698	2895.879275	1512.781028		
2354.19563	-0.638311588	0.000194913	0.003344154	NXF1	
11	62792123	62806302	- 6194		
protein_coding	nuclear RNA export factor 1 [Source:HGNC				
Symbol;Acc:HGNC:8071]	-	1658 1839	1210 2161	1689	
3357	13.1081683	14.06814931	12.15404992		
19.38633037	16.76122704	25.20061609			
ENSG00000076201	2208.248851	2381.521957	2229.658984		
2869.632731	3260.100661	3807.688746	2273.143264		
3312.474046	-0.543401668	0.000196288	0.003364476	PTPN23	
3	47381011	47413441	+ 5981		
protein_coding	"protein tyrosine phosphatase, non-receptor type 23				
[Source:HGNC Symbol;Acc:HGNC:14406]"	-		2434 2691	1918	
2770	2856 4414	19.92853873	21.31897578		
19.95177998	25.73463484	29.35159869	34.31543784		

ENSG00000198483	264.9172821		347.8030952		311.5477622	
143.9996208	180.3557089		119.9068273		308.0893798	
148.0873856	1.059931103		0.00019758		0.003383346	
ANKRD35 1	145866560		145885866	-	3363	
protein_coding	ankyrin repeat domain 35 [Source:HGNC					
Symbol;Acc:HGNC:26323]	-		292	393	268	139
139	4.251915918		5.537224399		4.958094195	158
2.296677293	2.887869605		1.921847624			
ENSG00000083444	3701.583941		4578.079927		5833.383099	
2923.503093	3434.748911		2680.219514		4704.348989	
3012.823839	0.642834945		0.000198759		0.003400246	PL0D1
1	11934205		11975538	+	5320	
protein_coding	"procollagen-lysine,2-oxoglutarate 5-dioxygenase 1					
[Source:HGNC	Symbol;Acc:HGNC:9081]"					
2822	3009	3107	37.55581701		46.07414523	5018
58.68483276	29.4752448		34.76625535		27.1556773	
ENSG00000188641	1858.049978		1346.962623		1990.185705	
1365.406476	740.8281965		658.1935915		1731.732769	
921.4760881	0.910268204		0.000203058		0.003470245	DPYD
1	97077743		97995000	-	7131	
protein_coding	dihydropyrimidine dehydrogenase [Source:HGNC					
Symbol;Acc:HGNC:3012]	-		2048	1522	1712	1318
763	14.06397868		10.11324799		14.93688958	649
10.27015546	5.59424678		4.975137862			
ENSG00000120658	103.4266101		157.5291373		224.3608884	
302.5028005	413.2200418		362.308399		161.7722119	
359.3437471	-1.155241759		0.000203243		0.003470245	ENOX1
13	43213518		43786908	-	3101	
protein_coding	ecto-NOX disulfide-thiol exchanger 1 [Source:HGNC					
Symbol;Acc:HGNC:25474]	-		114	178	193	292
420	1.800245644		2.719848269		3.872241092	362
5.232305928	7.175532974		6.297650316			
ENSG00000086475	1589.503692		1563.786436		1859.98664	
1168.572462	1101.539614		1131.782427		1671.092256	
1133.964835	0.558809431		0.000204499		0.003488314	SEPHS1
10	13317424		13348298	-	3888	
protein_coding	selenophosphate synthetase 1 [Source:HGNC					
Symbol;Acc:HGNC:19685]	-		1752	1767	1600	1128
1312	22.06665622		21.53459627		25.60357284	965
16.12110798	15.2562718		15.69056553			
ENSG00000124784	1892.525515		1838.134933		1569.363727	
2622.036261	2360.605101		2694.884377		1766.674725	
2559.175246	-0.53433122		0.000204785		0.003489825	RIOK1
6	7389496	7418037	+	3237	protein_coding	RI0
kinase 1 [Source:HGNC	Symbol;Acc:HGNC:18656]					
1350	2531	2068	3124	31.55733268	30.40326591	2077
25.9476431		43.44716962		39.26948405	44.8744712	
ENSG00000146950	409.1701857		248.683638		281.3229793	
178.1865811	127.8470848		119.9068273		313.0589343	
141.9801644	1.142052857		0.000205349		0.003496076	

SHROOM2 X	9786456	9949443	+	8191	protein_coding	shroom
family member 2	[Source:HGNC Symbol;Acc:HGNC:630]				-	451
281	242	172	112	139	2.696300545	
1.625533166	1.838168361		1.166819194		0.840482077	
0.789057937						
ENSG00000148411	535.2780699		498.2522712		611.4706078	
356.3731622	310.4857773		271.7312993		548.3336497	
312.8634129	0.809681221		0.00020579		0.003500214	NACC2
9	136006537		136095285		- 7212	
protein_coding	NACC family member 2 [Source:HGNC					
Symbol;Acc:HGNC:23846]	-	590	563	526	344	272
315	4.006129437		3.698955594		4.537711416	
2.650420416	2.318251483		2.030887441			
ENSG00000116830	2092.120728		1662.020898		1655.388109	
1443.104113	856.1188711		714.2651295		1803.176578	
1004.496038	0.844647852		0.000208928		0.003550167	TTF2
1	117060303		117107453		+ 10181	
protein_coding	transcription termination factor 2 [Source:HGNC					
Symbol;Acc:HGNC:12398]	-	2306	1878	1424	1393	750
828	11.09168556		8.740405695		8.702146663	
7.602785235	4.528122696		3.78155932			
ENSG00000058799	470.8632513		492.0573051		548.6960587	
671.3075847	886.9391505		973.0568431		503.8722051	
843.7678594	-0.744959038		0.000209951		0.003564131	YIPF1
1	53851719		53889834		- 2072	
protein_coding	Yip1 domain family member 1 [Source:HGNC					
Symbol;Acc:HGNC:25231]	-	519	556	472	648	777
1128	12.26609405		12.71485703		14.17291212	
17.37790019	23.05040858		25.31339329			
ENSG00000242299	244.0505098		443.3825717		402.2221109	
743.8253793	665.4897358		621.1001126		363.2183975	
676.8050759	-0.898375948		0.000210472		0.003567495	
AC073861.1	3	101576489	101576947		-	459
	processed_pseudogene	ribosomal protein S18 (RPS18)				
pseudogene	-	269	501	346	718	583
28.69910003	51.7191622		46.89972108		86.92081752	
78.07342457	72.93749255					
ENSG00000188766	224.0909886		232.7537253		265.0480962	
344.9775088	454.3137476		613.3363612		240.6309367	
470.8758725	-0.970760333		0.000210694		0.003567495	SPRED3
19	38388421		38399587		+ 5864	
protein_coding	sprouty related EVH1 domain containing 3 [Source:HGNC					
Symbol;Acc:HGNC:31041]	-	247	263	228	333	398
711	2.062679133		2.125143337		2.419066081	
3.155457357	4.171924791		5.637760951			
ENSG00000025039	33.56828574		26.54985459		34.8747495	
105.6687865	90.17785443		113.0057149		31.66429661	
102.9507853	-1.704729535		0.000210754		0.003567495	RRAGD
6	89364636		89412270		- 5072	
protein_coding	Ras related GTP binding D [Source:HGNC					

Symbol;Acc:HGNC:19903]	-	37	30	30	102	79
131	0.357232664	0.280264732	0.368000879			
1.117462532	0.957403932	1.200944863				
ENSG00000102158	2531.230195	2167.35313	2512.144455			
1976.627888	1188.292993	1133.507705	2403.575927			
1432.809529	0.746450868	0.000211062	0.003569291			MAGT1
X	77826364	77895593	-	4862		
protein_coding	magnesium transporter 1 [Source:HGNC					
Symbol;Acc:HGNC:28880]	-	2790	2449	2161	1908	1041
1314	28.10075136	23.867134	27.6532805			
21.80597247	13.16082563	12.56641589				
ENSG00000122863	537.9998228	537.1920579	652.1578156			
298.3589265	222.5909065	393.3634046	575.7832321			
304.7710792	0.914335704	0.000211519	0.003571669			CHST3
10	71964365	72013564	+	6970		
protein_coding	carbohydrate sulfotransferase 3 [Source:HGNC					
Symbol;Acc:HGNC:1971]	-	593	607	561	288	195
456	4.166300577	4.126504792	5.007684161			
2.295999311	1.71968615	3.042027128				
ENSG00000109332	4795.728606	5330.325807	5006.851536			
6364.990433	7112.635581	7323.805494	5044.301983			
6933.810503	-0.459010989	0.000211607	0.003571669			UBE2D3
4	102794383	102868896	-	10069		
protein_coding	ubiquitin conjugating enzyme E2 D3 [Source:HGNC					
Symbol;Acc:HGNC:12476]	-	5286	6023	4307	6144	6231
8490	25.70807164	28.34346639	26.61309459			
33.90602749	38.03809604	39.20598483				
ENSG00000132357	163.3051739	142.4842197	188.3236473			
337.7257293	300.2123508	326.9401982	164.7043469			
321.6260928	-0.968079459	0.0002129	0.003590073			CARD6
5	40841184	40860175	+	4399		
protein_coding	caspase recruitment domain family member 6					
[Source:HGNC Symbol;Acc:HGNC:16394]	-		180	161		162
326	263	379	2.003767031	1.734196698		
2.291225843	4.117898917	3.67493064	4.006049084			
ENSG00000146834	2161.071801	2519.581201	2014.598029			
2612.712544	3661.905785	4545.24513	2231.750344			
3606.621153	-0.692467766	0.000214431	0.003612447			MEPCE
7	100428790	100434126	+	3420		
protein_coding	methylphosphate capping enzyme [Source:HGNC					
Symbol;Acc:HGNC:20247]	-	2382	2847	1733	2522	3208
5269	34.10706388	39.44462231	31.52675728			
40.97613763	57.65747426	71.63629408				
ENSG00000112578	1428.920271	1920.439482	1723.975117			
1876.138944	3189.328168	3684.331362	1691.111623			
2916.599492	-0.786514487	0.000214953	0.00361779			BYSL
6	41921188	41933046	+	2248		
protein_coding	bystin like [Source:HGNC Symbol;Acc:HGNC:1157]					
1575	2170	1483	1811	2794	4271	34.30938511
45.73933728	41.04419013	44.76454629	76.39720235			



	88.34140105					
ENSG00000088305	137.9021468		125.6693117		149.9614228	
60.0861727	46.80116496		43.13195226		137.8442938	
50.00642997	1.46348735		0.0002166		0.003642055	DNMT3B
20	32762385		32809356		+ 4630	
protein_coding	DNA methyltransferase 3 beta [Source:HGNC					
Symbol;Acc:HGNC:2979]	-		152 142		129 58	41
50	1.607649169		1.453228124		1.73346695	
0.696079825	0.544314904		0.502134465			
ENSG00000260454	27.21752898		6.194966072		4.6499666	
62.15810969	86.75337894		81.08807026		12.68748722	
76.66651963	-2.580812978		0.00021693		0.003644143	
AL355607.2	9	90997054	91001871		+ 1395	
lincRNA	novel transcript					
60	76	94	-		30 7	4
0.178399088	2.389951493		1.053114835		0.237766286	
ENSG00000140350	2139.297778		3.348780984		3.133175083	
1576.744049	1382.346604		2001.859036		2801.604876	
1515.161286	1382.346604		1586.393204		2314.253897	
15	0.610192297		0.000217473		0.003649783	ANP32A
15	68778535		68820897		- 7544	
protein_coding	acidic nuclear phosphoprotein 32 family member A					
[Source:HGNC Symbol;Acc:HGNC:13233]	-				2358 2262	2410
1522	1211	1839	15.30632056		14.20749009	
19.87568977	11.21050086		9.867106678		11.33472708	
ENSG00000171033	674.0874677		712.4210983		642.8578824	
872.2854727	1140.350336		1262.040923		676.4554828	
1091.558911	-0.690335632		0.00022068		0.003700106	PKIA
8	78516139		78605267		+ 4216	
protein_coding	cAMP-dependent protein kinase inhibitor alpha					
[Source:HGNC Symbol;Acc:HGNC:9017]	-				743 805	553
842	999	1463	8.630121204		9.047356823	
8.160774466	11.09745859		14.56505893		16.13521446	
ENSG00000259431	37.19728961		43.3647625		23.249833	
95.30910153	126.7055929		117.3189102		34.6039617	
113.1112015	-1.701079313		0.000220904		0.003700358	THTPA
14	23555988		23560271		+ 2894	
protein_coding	thiamine triphosphatase [Source:HGNC					
Symbol;Acc:HGNC:18987]	-		41 49		20 92	111
136	0.6937676		0.802276358		0.429970159	
1.76644998	2.357609171		2.185100416			
ENSG00000144659	1133.156457		1353.157589		1059.029893	
1506.298192	1833.235876		2472.323504		1181.781313	
1937.285857	-0.713125411		0.000222968		0.003731391	
SLC25A38	3	39383324	39397351		+ 2708	
protein_coding	solute carrier family 25 member 38					
[Source:HGNC Symbol;Acc:HGNC:26054]	-				1249 1529	911
1454	1606	2866	22.5861632		26.75378707	
20.93035351	29.83512008		36.45392042		49.21058685	
ENSG00000232679	30.84653284		38.05479158		20.9248497	
139.8557468	77.62144432		100.9287683		29.94205804	

106.1353198	-1.819225231	0.000224664	0.003756225		
LINC01705	1	222041705	222064763	-	562
	lincRNA long intergenic non-protein coding RNA 1705				
	[Source:HGNC Symbol;Acc:HGNC:52493]				
				34 43	18
	135	68 117	2.962588175	3.625422125	
1.992705118	13.34779403		7.437379756	9.68011606	
ENSG00000182667	1451.601546		1279.702991	1611.213427	
1052.543991	933.7403154		686.66068	1447.505988	
890.9816621	0.700623609		0.000225402	0.003765005	NTM
	11	131370478	132336822	+ 6956	
protein_coding	neurotrimin [Source:HGNC Symbol;Acc:HGNC:17941]				-
	1600	1446 1386	1016 818	796 11.26390795	
	9.849975731	12.39682594	8.116077366	7.228381913	
	5.32089284				
ENSG00000139926	1956.940334		1614.231159	2186.646793	
1254.557847	1399.468981		961.8425355	1919.272762	
1205.289788	0.671631393		0.000226279	0.003776091	FRMD6
	14	51489100	51730727	+ 9416	
protein_coding	FERM domain containing 6 [Source:HGNC				
	Symbol;Acc:HGNC:19839]				
			2157 1824	1881 1211	1226
	1115	11.21792104	9.178777132	12.42879979	
7.146439755	8.003342091		5.506040933		
ENSG00000152217	305.7435755		216.8238125	332.4726119	
161.6110852	123.2811174		83.67598739	285.0133333	
122.8560633	1.215739033		0.000226531	0.00377672	SETBP1
	18	44680173	45068510	+ 14025	
protein_coding	SET binding protein 1 [Source:HGNC				
	Symbol;Acc:HGNC:15573]				
			337 245	286 156	108
	97	1.1766728	0.827731828	1.268732339	
0.618064461	0.473334593		0.321588035		
ENSG00000081692	176.0066874		184.0789918	203.4360387	
354.3012253	315.0517446		393.3634046	187.8405727	
354.2387915	-0.917372521		0.000228748	0.003809764	JMJD4
	1	227730425	227735411	- 4315	
protein_coding	jumonji domain containing 4 [Source:HGNC				
	Symbol;Acc:HGNC:25724]				
			194 208	175 342	276
	456	2.201656762	2.284067718	2.523272155	
4.404101806	3.931657177		4.913772673		
ENSG00000144554	1411.682503		974.3796636	1016.017702	
867.1056302	482.8510433		450.2975816	1134.026623	
600.0847517	0.918846211		0.000228943	0.003809764	FANCD2
	3	10026414	10101930	+ 8378	
protein_coding	FA complementation group D2 [Source:HGNC				
	Symbol;Acc:HGNC:3585]				
			1556 1101	874 837	423
	522	9.09489983	6.226921686	6.490496547	
5.551331288	3.103468713		2.897084517		
ENSG00000263528	451.8109811		284.0834442	394.0846693	
183.3664236	178.0727252		208.758649	376.6596982	
190.0659326	0.985183341		0.0002292	0.003810447	IKBKE
	1	206470476	206496889	+ 3791	

protein_coding	inhibitor of nuclear factor kappa B kinase subunit					
epsilon	[Source:HGNC Symbol;Acc:HGNC:14552]					
	-	498	321			
	339	177	156	242	6.432862104	4.012154873
	5.563559799	2.594367681	2.529403843	2.968196165		
ENSG00000178719	3078.302528	3849.728916	3805.997662			
4660.822259	5181.231408	5559.708647	3578.009702			
5133.920771	-0.521126403	0.00022984	0.003817505			GRINA
	8	143990058	143993415	+	2527	
protein_coding	glutamate ionotropic receptor NMDA type subunit					
associated protein 1	[Source:HGNC Symbol;Acc:HGNC:4589]					
	-					3393
	4350	3274	4499	4539	6445	65.75174774
81.56624244	80.60839608	98.92881224	110.408447			
118.5901717						
ENSG00000004700	1329.122665	1057.569208	1249.678524			
918.904055	583.3023242	361.44576	1212.123466			
621.2173797	0.96530806	0.00023347	0.003871528			RECQL
	12	21468911	21501669	-	3778	
protein_coding	RecQ like helicase [Source:HGNC Symbol;Acc:HGNC:9948]					
	-	1465	1195	1075	887	511
						419
18.98909882	14.98761031	17.70326447	13.04588993			
8.313928912	5.156833239					
ENSG00000271334	15.42326642	8.849951531	27.8997996			0
	0	17.39100585	0	6.549881974		
0.00023353	0.003871528	LINC02104	5	39520431		
	39524708	+	599	lincRNA long intergenic non-		
protein_coding	RNA 2104 [Source:HGNC Symbol;Acc:HGNC:52959]					
	-					
	17	10	24	0	0	1.38979512
	0.791042138	2.492821983	0	0	0	
ENSG00000265415	225.9054905	139.8292342	156.9363727			
92.20119605	26.25431205	38.81875704	174.2236992			
52.42475504	1.73265788	0.000233811	0.003872557			
AC099850.3	17	59202677	59203829	-		321
	antisense	"novel transcript, antisense to PRR11"				-
	249	158	135	89	23	45
	23.32268225	26.1658943	15.40625273	4.404231754		
	6.51836236					
ENSG00000002822	2304.417454	2568.255934	2429.607548			
2968.049738	3578.576881	4603.904585	2434.093645			
3716.843735	-0.610972603	0.0002353	0.003893566			MAD1L1
	7	1815793	2233243	-	7230	protein_coding
mitotic arrest deficient 1 like 1	[Source:HGNC Symbol;Acc:HGNC:6762]					
	-	2540	2902	2090	2865	3135
						5337
17.20378882	19.01890686	17.98518193	22.01903961			
26.65303122	34.32337013					
ENSG00000162618	3.629003864	0.884995153	1.16249165			
19.6834014	29.67878753	43.13195226	1.892163556			
30.8313804	-4.009757419	0.000236399	0.003908089			ADGRL4
	1	78889764	79006718	-	3677	
protein_coding	adhesion G protein-coupled receptor L4 [Source:HGNC					
Symbol;Acc:HGNC:20822]	-	4	1	1	19	26

50	0.053271515	0.012886436	0.016920501	
0.287125665	0.434637384	0.632277013		
ENSG00000156642	1627.608233	1551.396503	2157.584502	
1268.025438	1152.906746	901.4578023	1778.86308	
1107.463329	0.683707506	0.000238135	0.003933111	NPTN
15	73560014	73634134	- 4032	
protein_coding	neuroplastin	[Source:HGNC Symbol;Acc:HGNC:17867]		
-	1794 1753	1856 1224	1010 1045	
21.78866385	20.60097777	28.63942505	16.86836299	
15.39742901	12.05110263			
ENSG00000077097	4812.966375	3448.826112	4218.682197	
3279.876255	2515.847989	2146.245945	4160.158228	
2647.323396	0.652286407	0.000238845	0.003941173	TOP2B
3	25597905	25664907	- 6044	
protein_coding	DNA topoisomerase II beta	[Source:HGNC		
Symbol;Acc:HGNC:11990]	-	5305 3897	3629 3166	2204
2488	42.98229654	30.55148967	37.35677349	
29.10707055	22.41478073	19.14066131		
ENSG00000178401	317.5378381	294.703386	263.8856045	
165.7549592	92.46083808	31.91764468	292.0422762	
96.71114731	1.598743231	0.000239568	0.003949411	
DNAJC22 12	49346917	49357546	+ 5109	
protein_coding	DnaJ heat shock protein family (Hsp40) member C22	[Source:HGNC Symbol;Acc:HGNC:25802]		
160	81 37	3.354755126	3.088408732	227
2.76437401	1.740187816	0.974532835	0.336741653	
ENSG00000168569	777.5140778	936.324872	696.3324983	
1067.04755	1462.251032	1351.755384	803.3904827	
1293.684655	-0.686341609	0.000241771	0.003982011	
TMEM223 11	62771629	62792021	- 2280	
protein_coding	transmembrane protein 223	[Source:HGNC		
Symbol;Acc:HGNC:28464]	-	857 1058	599 1030	1281
1567	18.40664594	21.98757134	16.34552304	
25.10235235	34.53517356	31.95693855		
ENSG00000101938	33.56828574	3.539980612	18.5998664	0
0	0 18.56937758	0	6.647600468	
0.000242042	0.003982771	CHRDL1 X	110673856	
110795819	- 3920	protein_coding	chordin like 1	
[Source:HGNC Symbol;Acc:HGNC:29861]	-	-	37 4	16
0	0 0	0.462215325	0.048350433	
0.253945641	0 0	0		
ENSG00000203666	330.2393516	324.7932212	392.9221777	
161.6110852	180.3557089	46.58250844	349.3182502	
129.5164342	1.436036296	0.00024336	0.003996996	EFCAB2
1	244969705	245127164	+ 8607	
protein_coding	EF-hand calcium binding domain 2	[Source:HGNC		
Symbol;Acc:HGNC:28166]	-	364 367	338 156	158
54	2.070991251	2.020415549	2.443271583	
1.007128391	1.128372892	0.291724548		
ENSG00000143368	3863.074613	4942.69793	4531.392451	

5687.467037	6520.201323	6875.233191	4445.721665	
6360.967183	-0.516907217	0.000243382	0.003996996	SF3B4
1	149923317	149928344	- 2245	
protein_coding	splicing factor 3b subunit 4	[Source:HGNC		
Symbol;Acc:HGNC:10771]	-	4258 5585	3898 5490	5712
7970	92.87909933	117.8781396	108.0270051	
135.8839124	156.3936853	165.0718407		
ENSG00000132153	4342.103123	4969.247785	4189.619906	
5624.272959	6422.033025	7233.228395	4500.323605	
6426.51146	-0.513972919	0.000243584	0.003996996	DHX30
3	47802909	47850195	+ 7744	
protein_coding	DExH-box helicase 30	[Source:HGNC		
Symbol;Acc:HGNC:16716]	-	4786 5615	3604 5429	5626
8385	30.26467632	34.35665368	28.95518104	
38.9552989	44.65619789	50.34643696		
ENSG00000149781	196.8734596	229.2137447	184.8361723	
351.1933198	352.7209749	447.7096645	203.6411255	
383.8746531	-0.914336509	0.000243949	0.003999063	FERMT3
11	64206678	64223886	+ 3066	
protein_coding	fermitin family member 3	[Source:HGNC		
Symbol;Acc:HGNC:23151]	-	217 259	159 339	309
519	3.465901906	4.002709338	3.226501122	
6.143835674	6.194891282	7.87093318		
ENSG00000082497	658.6642013	435.4176153	445.2343019	
343.9415403	221.4494147	163.0387796	513.1053728	
242.8099115	1.081388675	0.000244162	0.003999063	
SERTAD4 1	210232799	210246631	+ 5467	
protein_coding	SERTA domain containing 4	[Source:HGNC		
Symbol;Acc:HGNC:25236]	-	726 492	383 332	194
189	6.50303708	4.26424815	4.358695666	
3.374434895	2.181222738	1.607473227		
ENSG00000125845	16.33051739	20.35488852	15.11239145	
48.69051926	78.76293614	99.20349021	17.26593245	
75.5523152	-2.127289603	0.000245342	0.004014661	BMP2
20	6767664 6780280	+ 3601	protein_coding bone	
morphogenetic protein 2	[Source:HGNC Symbol;Acc:HGNC:1069]			-
18	23 13	47 69	115 0.244781204	
	0.302643364	0.22460896	0.725248401 1.177804826	
	1.484929165			
ENSG00000172037	2236.373631	2165.58314	2598.168838	
1630.614411	1648.3142	966.1557307	2333.375203	
1415.028114	0.722237406	0.000248385	0.00406071	LAMB2
3	49121114	49133118	- 6865	
protein_coding	laminin subunit beta 2	[Source:HGNC		
Symbol;Acc:HGNC:6487]	-	2465 2447	2235 1574	1444
1120	17.58348947	16.88961962	20.25554032	
12.74019954	12.92927021	7.585924207		
ENSG00000135334	1001.605066	931.8998962	1067.167335	
1230.730572	2255.587852	1574.316258	1000.224099	
1686.878227	-0.753880817	0.000250163	0.004085989	

AKIRIN2	6	87675072	87702209	-	1999	
protein_coding		akirin 2 [Source:HGNC Symbol;Acc:HGNC:21407]			-	
	1104	1053	918	1188	1976	1825
	24.95985269	28.57174291	33.02293656	60.76052341		
	42.45033216					
ENSG0000046774		33.56828574	316.8282648	249.9357047		
	23.82727538	61.64055872	46.58250844	200.1107518		
	44.01678085	2.185478059	0.000250511	0.004087909		MAGEC2
	X	142202345	142205290	-	1991	
protein_coding		MAGE family member C2 [Source:HGNC				
Symbol;Acc:HGNC:	13574]	-	37	358	215	23
	54	0.910037204	8.519972783	6.718526686		54
	0.641901839	1.66713151	1.261111593			
ENSG00000189171		421.8716992	492.0573051	625.4205076		
	328.4020129	269.3920714	188.9179509	513.116504		
	262.2373451	0.96918923	0.000250891	0.004090331		
S100A13	1	153618787	153631360	-	2216	
protein_coding		S100 calcium binding protein A13 [Source:HGNC				
Symbol;Acc:HGNC:	10490]	-	465	556	538	317
	219	10.27571098	11.88862084	15.10495258		236
	7.948799634	6.546205085	4.595210144			
ENSG00000130589		542.5360777	652.2414278	783.519372		
	904.400496	1283.036815	1107.628534	659.4322925		
	1098.355282	-0.736991457	0.000253018	0.004121215		HELZ2
	20	63558086	63574239	-	12066	
protein_coding		helicase with zinc finger 2 [Source:HGNC				
Symbol;Acc:HGNC:	30021]	-	598	737	674	873
	1284	2.426981951	2.894213785	3.475389		1124
	4.020341698	5.725986905	4.948034521			
ENSG00000110841		4014.585524	3163.857672	4148.932698		
	2944.222463	2390.283888	2204.042761	3775.791965		
	2512.849704	0.587423038	0.000254571	0.004142685		
PPFIBP1	12	27523431	27695564	+	11690	
protein_coding		PPFIA binding protein 1 [Source:HGNC				
Symbol;Acc:HGNC:	9249]	-	4425	3575	3569	2842
	2555	18.5364877	14.49065364	18.99498187		2094
	13.50895037	11.010563	10.16266036			
ENSG00000074855		886.3841938	935.4398768	1086.929693		
	640.2285298	636.9524401	596.0835803	969.5845878		
	624.4215168	0.634466378	0.000256628	0.004169673		AN08
	19	17323223	17334829	-	4979	
protein_coding		anoctamin 8 [Source:HGNC Symbol;Acc:HGNC:29329]			-	
	977	1057	935	618	558	691
	10.05910408	11.68359062	6.896970882	6.888734278		
	6.453078366					
ENSG00000089818		555.2375912	566.396898	570.7834001		
	727.2498834	981.6829722	1057.59547	564.1392964		
	922.1761084	-0.709446603	0.0002567	0.004169673		NECAP1
	12	8076939	8097859	+	8763	protein_coding
endocytosis associated 1 [Source:HGNC Symbol;Acc:HGNC:24539]						NECAP
						-

	612	640	491	702	860	1226	3.420009355	
	3.460617528		3.486065373		4.451397157		6.032439844	
	6.50532018							
ENSG00000241468	698.5832438			1277.933001		1319.428023		
524.2000584	684.8950969			605.5726098		1098.648089		
604.889255	0.860729647			0.000257436		0.004177783		ATP5MF
7	99448475			99466331		-	2275	
protein_coding	ATP synthase membrane subunit f [Source:HGNC							
Symbol;Acc:HGNC:848]	-		770	1444		1135	506	600
702	16.57440733			30.07545685		31.03997102		
12.35893817	16.21127637			14.34784675				
ENSG00000130816	8001.046269			7330.414853		6933.1002		
6016.905018	4370.77221			5023.147161		7421.520441		
5136.941463	0.530802626			0.000257912		0.004181666		DNMT1
19	10133345			10231286		-	9796	
protein_coding	DNA methyltransferase 1 [Source:HGNC							
Symbol;Acc:HGNC:2976]	-		8819	8283		5964	5808	3829
5823	44.08585315			40.06501648		37.87875577		
32.94502754	24.02613705			27.63942677				
ENSG00000103154	0.907250966			0.884995153		3.48747495		
42.47470829	17.12237742			29.32972754		1.759907023		
29.64227108	-4.13590648			0.000258931		0.004193007		NECAB2
16	83968632			84002776		+	2520	
protein_coding	N-terminal EF-hand calcium binding protein 2							
[Source:HGNC Symbol;Acc:HGNC:23746]	-			-		1	1	3
41	15	34		0.019432476		0.018802946		
0.074067479	0.904056056			0.365879501		0.627349266		
ENSG00000129810	632.3539233			381.432911		387.1097194		
303.538769	101.5927727			172.5278091		466.9655179		
192.5531169	1.27765872			0.000259085		0.004193007		SG01
3	20160593			20186292		-	3828	
protein_coding	shugoshin 1 [Source:HGNC Symbol;Acc:HGNC:25088]							
Symbol;Acc:HGNC:25088]	-			-				
697	431	333		293	89	200	8.916399781	
5.334967546	5.412266225			4.253120965		1.429109275		
2.429344383								
ENSG00000100243	2836.06652			3370.061543		4048.958417		
2107.159919	2247.59741			2503.378509		3418.36216		
2286.045279	0.579872734			0.000262196		0.00423948		CYB5R3
22	42617840			42649568		-	5973	
protein_coding	cytochrome b5 reductase 3 [Source:HGNC							
Symbol;Acc:HGNC:2873]	-			3126	3808	3483	2034	1969
2902	25.62861532			30.20861858		36.2800441		
18.92214985	20.2628515			22.59102372				
ENSG00000165891	2578.407245			2508.076264		2290.10855		
3609.314236	3250.968727			3397.935199		2458.86402		
3419.406054	-0.475516181			0.000263276		0.004253049		E2F7
12	77021247			77065580		-	6303	
protein_coding	E2F transcription factor 7 [Source:HGNC							
Symbol;Acc:HGNC:23820]	E2F			2842	2834	1970	3484	2848
3939	22.08032442			21.30487447		19.4457978		

30.7144599	27.77410276	29.05826579				
ENSG00000189159	2556.633222	2954.113821	3084.090347			
1852.311669	2229.33354	1827.069498	2864.945797			
1969.571569	0.540831199	0.000264786	0.004273539	JPT1		
17	75135248	75168281	- 3414			
protein_coding	Jupiter microtubule associated homolog 1 [Source:HGNC					
Symbol;Acc:HGNC:14569]	-	2818 3338	2653 1788	1953		
2118	40.42091642	46.32860852	48.34823004			
29.10154467	35.16301344	28.84652193				
ENSG00000123992	922.6742324	1172.618578	1069.492318			
1276.313186	1806.981564	2086.723851	1054.928376			
1723.339533	-0.70840469	0.00026504	0.004273744	DNPEP		
2	219373527	219400022	- 4753			
protein_coding	aspartyl aminopeptidase [Source:HGNC					
Symbol;Acc:HGNC:2981]	-	1017 1325	920 1232	1583		
2419	10.47808271	13.20913883	12.04278297			
14.40306555	20.47200886	23.66459478				
ENSG00000132467	1115.918688	1303.597861	976.4929859			
1573.636144	1596.947068	2321.361671	1132.003178			
1830.648294	-0.693464249	0.000266201	0.004288545	UTP3		
4	70688479	70690551	+ 2073			
protein_coding	"UTP3, small subunit processome component [Source:HGNC					
Symbol;Acc:HGNC:24477]"	-	1230 1473	840 1519	1399		
2691	29.05591075	33.66897426	25.21081181			
40.71650718	41.48258126	60.35946946				
ENSG00000204356	1758.252372	2165.58314	2115.734803			
2606.496733	2958.746819	3278.891011	2013.190105			
2948.044854	-0.550628756	0.000266625	0.004291469	NELFE		
6	31952087	31959110	- 2719			
protein_coding	negative elongation factor complex member E					
[Source:HGNC Symbol;Acc:HGNC:13974]	-	1938 2447	1820			
2516	2592 3801	34.90384318	42.64333897			
41.64559075	51.41779789	58.59669883	65.00094643			
ENSG00000213694	485.3792668	265.4985459	596.3582164			
282.8193991	114.1491828	150.0991939	449.0786764			
182.3559253	1.29887195	0.000267187	0.004296608	S1PR3		
9	88990863	89005010	+ 13578			
protein_coding	sphingosine-1-phosphate receptor 3 [Source:HGNC					
Symbol;Acc:HGNC:3167]	-	535 300	513 273	100		
174	1.929508345	1.04691613	2.350652369			
1.117220475	0.452701106	0.595860315				
ENSG00000112992	1408.96075	973.4946684	1183.4165			
759.3649068	816.1666571	546.9131547	1188.623973			
707.4815729	0.749716125	0.000271753	0.004366069	NNT		
5	43602692	43707405	+ 8245			
protein_coding	nicotinamide nucleotide transhydrogenase [Source:HGNC					
Symbol;Acc:HGNC:7863]	-	1553 1100	1018 733	715		
634	9.223791541	6.32162116	7.681817135			
4.939981907	5.330436106	3.575441001				
ENSG00000234323	14.51601546	23.89486913	11.6249165	0		



0	0	16.67860036	0	6.494904691		
0.000272688	0.004377113	LINC01505	9	105993310		
106740875	+	10944	lincRNA	long intergenic non-		
protein coding RNA	1505	[Source:HGNC Symbol;Acc:HGNC:51186]	-			
16	27	10	0	0	0	0.071593333
0.116899895	0.056850038	0	0	0	0	
ENSG00000144749	1342.73143	1362.892536	2348.233133			
959.3068263	1090.124696	892.8314119	1684.619033			
980.7543113	0.779951009	0.000272942	0.004377212			LRIG1
3	66378797	66501263	-	7032		
protein_coding	leucine rich repeats and immunoglobulin like domains 1					
[Source:HGNC Symbol;Acc:HGNC:17360]	-	1480	1540	2020		
926	955	1035	10.30650781	10.37691596		
17.87225507	7.317187238	8.347796813	6.843724304			
ENSG00000107551	220.4619847	219.478798	576.5958583			
155.3952742	120.9981338	117.3189102	338.845547			
131.2374394	1.366139539	0.000273894	0.004388502			RASSF4
10	44959407	44995891	+	9481		
protein_coding	Ras association domain family member 4					
[Source:HGNC Symbol;Acc:HGNC:20793]	-	243	248	496	150	106
136	1.25510717	1.239435626	3.254875464			
0.879122016	0.687225204	0.666984559				
ENSG00000259974	0	0	0	7.251779464	13.69790194	
30.19236658	0	17.04734933	-6.570455713			
0.00027442	0.004392959	LINC00261	20	22547671		
22578642	-	5552	lincRNA	long intergenic non-		
protein coding RNA	261	[Source:HGNC Symbol;Acc:HGNC:16189]	-			
0	0	0	7	12	35	0
0	0.070058466	0.132855381	0.293122803			
ENSG00000159111	1314.60665	1463.781983	1596.101035			
1767.362252	2487.310694	2467.147669	1458.163223			
2240.606872	-0.620174502	0.000276747	0.004426195			MRPL10
17	47823272	47831534	-	2764		
protein_coding	mitochondrial ribosomal protein L10					
[Source:HGNC Symbol;Acc:HGNC:14055]	-	1449	1654	1373	1706	2179
2860	25.67196017	28.35462496	30.90575412			
34.29675506	48.45811896	48.11262058				
ENSG00000145247	880.940688	1302.712865	991.6053774			
1282.528997	2066.100209	2034.102869	1058.419644			
1794.244025	-0.761223379	0.000278573	0.004451375			OCIAD2
4	48885019	48906937	-	2483		
protein_coding	OCIA domain containing 2					
[Source:HGNC Symbol;Acc:HGNC:28685]	-	971	1472	853	1238	1810
2358	19.15010651	28.09037463	21.37367288			
27.70486057	44.80734545	44.15685148				
ENSG00000168476	1084.164904	1117.748878	1229.916166			
730.3577889	654.0748175	840.2104301	1143.943316			
741.5476788	0.623939407	0.000279525	0.004462561			REEP4
8	22138020	22141951	-	2266		
protein_coding	receptor accessory protein 4					
[Source:HGNC						

Symbol;Acc:HGNC:26176]	-	1195	1263	1058	705	573
974	25.82478314	26.41009028		29.04909513		
17.28786072	15.54325874	19.98619266				
ENSG00000137055	1336.380673	1239.87821		1095.067134		
1877.174913	1986.195781	1605.371263		1223.775339		
1822.913986	-0.573876922	0.000282075		0.004499216		PLAA
9	26904083	26947463		-	4825	
protein_coding	phospholipase A2 activating protein					
[Source:HGNC						
Symbol;Acc:HGNC:9043]	-	1473	1401	942	1812	1740
1861	14.94975628	13.75837867		12.14675947		
20.86761999	22.16661053	17.93412009				
ENSG00000261499	41.73354444	35.39980612		33.71225785		
6.215810969	2.282983656	0	36.94853614	2.832931542		
3.7361436	0.00028408		0.004527103	AC233699.1		
17	36274191	36320547		+	1168	
unprocessed_pseudogene	aminopeptidase puromycin sensitive (NPEPPS)					
pseudogene	-	46	40	29	6	2
						0
1.928606706	1.622720002		1.544763509	0.285443693		
0.105253007	0					
ENSG00000059122	588.8058769	664.63136		717.257348		
829.8107644	1246.509076	1159.386877		656.898195		
1078.568906	-0.715919491	0.000286786		0.004566121		
FLYWCH1 16	2911937 2951208 +	8419		protein_coding		
FLYWCH-type zinc finger 1	[Source:HGNC					
Symbol;Acc:HGNC:25404]	-					
649	751	617	801	1092	1344	3.774964491
4.226743255	4.559649934		5.286692497	7.972774652		
7.422834495						
ENSG00000112667	391.9324173	686.7562388		717.257348		
235.1648483	352.7209749	325.2149201		598.648668		
304.3669144	0.97529761	0.000287413		0.004571984		DNPH1
6	43225629	43229484		-	1250	
protein_coding	2'-deoxynucleoside 5'-phosphate N-hydrolase 1					
[Source:HGNC						
Symbol;Acc:HGNC:21218]	-			432	776	617
227	309	377	16.92397665	29.41562965		
30.71015424	10.09085319	15.19482934		14.02369169		
ENSG00000181467	1992.323121	1762.910345		1675.150467		
1252.48591	1243.084601	1267.216758		1810.127978		
1254.262423	0.529505005	0.000288299		0.004581959		RAP2B
3	153162270	153170620		+	8351	
protein_coding	"RAP2B, member of RAS oncogene family					
[Source:HGNC						
Symbol;Acc:HGNC:9862]"	-	2196	1992	1441	1209	1089
1469	12.87723246	11.30257223		10.73574886		
8.044514908	8.015613283	8.179265963				
ENSG00000103042	465.4197455	451.3475281		418.496994		
692.0269546	719.1398517	703.9134609		445.0880892		
705.0267558	-0.662838839	0.000289179		0.004591823		
SLC38A7 16	58665109	58685104		-	6991	
protein_coding	solute carrier family 38 member 7					
[Source:HGNC						
Symbol;Acc:HGNC:25582]	-	513	510	360	668	630
816	3.593409789	3.456665179		3.20383429		

5.309445949	5.539219914	5.427275586				
ENSG0000049860	3034.754481	2592.150803	2793.467435			
2207.648863	1876.612566	1585.530565	2806.790906			
1889.930664	0.570969236	0.000291615	0.004625164	HEXB		
5	74640023	74722647	+	5067		
protein_coding	hexosaminidase subunit beta [Source:HGNC					
Symbol;Acc:HGNC:4879]	-	3345	2929	2403	2131	1644
1838	32.32763257	27.39018138	29.50595754			
23.36924002	19.94335726	16.86652525				
ENSG00000256663	281.2477995	298.2433666	280.1604876			
171.9707702	136.9790194	107.8298807	286.5505512			
138.9265567	1.046773987	0.000291802	0.004625164			
AC112777.1	12	20551590	20553012	+		1423
processed_pseudogene	ubiquitin-like with PHD and ring					
finger domains 1 (UHRF1) pseudogene	-	310	337			241
166	120	125	10.66806068	11.22151364		
10.53704874	6.482092611	5.183507201	4.084473955			
ENSG00000137404	984.3672981	901.810061	995.0928523			
710.6743875	541.0671266	573.6549651	960.4234038			
608.4654931	0.658218771	0.000292243	0.004628009	NRM		
6	30688047	30691420	-	2045		
protein_coding	nurim [Source:HGNC Symbol;Acc:HGNC:8003]					-
1085	1019	856	686	474	665	25.98155316
23.6106157	26.04277741	18.63986862	14.24729411			
15.1202632						
ENSG00000187123	477.2140081	374.3529498	416.1720107			
277.6395566	208.8930046	182.8794776	422.5796562			
223.1373463	0.922450054	0.000293126	0.00463784	LYPD6		
2	149329985	149474148	+	5033		
protein_coding	LY6/PLAUR domain containing 6 [Source:HGNC					
Symbol;Acc:HGNC:28751]	-	526	423	358	268	183
212	5.117849345	3.982354138	4.425506091			
2.958829277	2.234969082	1.958573836				
ENSG00000138668	5900.760283	7031.286492	7249.297929			
4825.541249	4894.716959	4897.20186	6727.114901			
4872.486689	0.465213069	0.000293513	0.004639808	HNRNPD		
4	82352498	82374503	-	6981		
protein_coding	heterogeneous nuclear ribonucleoprotein D [Source:HGNC					
Symbol;Acc:HGNC:5036]	-	6504	7945	6236	4658	4288
5677	45.62381296	53.92655839	55.5770275			
37.07608677	37.75587146	37.81222856				
ENSG00000105011	1909.763283	1987.699114	2229.658984			
1571.564207	1338.969914	1012.738239	2042.373794			
1307.757453	0.643573048	0.000294543	0.004651942	ASF1B		
19	14119509	14136956	-	2304		
protein_coding	anti-silencing function 1B histone chaperone					
[Source:HGNC Symbol;Acc:HGNC:20996]	-	2105	2246			1918
1517	1173	1174	44.74023995	46.19061217		
51.79322747	36.5860185	31.2941311	23.69281374			
ENSG00000120742	4137.064405	4933.847979	4060.583333			

5706.11447	6101.273822	6556.056744	4377.165239	
6121.148345	-0.483702128	0.00029665	0.004681042	SERP1
3	150541994	150603228	- 5747	
protein_coding	stress associated endoplasmic reticulum protein 1			
[Source:HGNC Symbol;Acc:HGNC:10759]	-	4560	5575	3493
5508	5345 7600	38.85548454	45.96530174	
37.81501135	53.25553821	57.16811502	61.48984712	
ENSG00000134775	735.7805334	715.9610789	892.7935871	
517.9842475	458.8797149	236.3630984	781.5117331	
404.4090203	0.95201766	0.000297105	0.004684032	FHOD3
18	36297714	36780055	+ 7965	
protein_coding	formin homology 2 domain containing 3 [Source:HGNC			
Symbol;Acc:HGNC:26178]	-	811 809	768 500	402
274	4.98613184	4.812704339	5.999047304	
3.488158958	3.102327433	1.599542563		
ENSG00000116584	3521.94825	3666.534919	4765.053273	
4700.189061	6725.669852	7065.013781	3984.512147	
6163.624231	-0.629717649	0.000298292	0.004698566	
ARHGEF2 1	155946851	156007070	- 9135	
protein_coding	Rho/Rac guanine nucleotide exchange factor 2			
[Source:HGNC Symbol;Acc:HGNC:682]	-	3882	4143	4099
4537	5892 8190	20.81017167	21.48982221	
27.91747997	27.59766072	39.6461981	41.68754962	
ENSG00000143167	39.01179154	23.89486913	22.08734135	
3.107905485	0 0	28.33133401	1.035968495	
4.798701157	0.000300688	0.004732092	GPA33 1	
167052836	167166479	- 3200	protein_coding	
glycoprotein A33	[Source:HGNC Symbol;Acc:HGNC:4445]			43
27	19 3	0 0	0.658032223	
0.39979764	0.369411549	0.052093474	0 0	
ENSG00000121058	694.046989	657.5513988	613.7955911	
951.0190783	1033.050104	994.6228192	655.1313263	
992.897334	-0.599175528	0.000301771	0.004744918	COIL
17	56938187	56961054	- 3030	
protein_coding	coilin [Source:HGNC Symbol;Acc:HGNC:2184]			-
765	743 528	918 905	1153	12.36367243
11.61910365	10.84171884	16.83496029	18.35918131	
17.69366079				
ENSG00000086062	1944.23882	1742.555456	2270.346192	
1467.967357	1336.686931	1111.941729	1985.71349	
1305.532006	0.605058907	0.000302822	0.00475528	
B4GALT1 9	33104082	33167356	- 4901	
protein_coding	"beta-1,4-galactosyltransferase 1 [Source:HGNC			
Symbol;Acc:HGNC:924]"	-	2143 1969	1953 1417	1171
1289	21.41243966	19.0365154	24.79273209	
16.06560894	14.68654204	12.22923338		
ENSG00000145730	1801.800418	1753.175398	2925.991483	
1297.032556	1501.061754	1016.188795	2160.322433	
1271.427702	0.764769681	0.000302968	0.00475528	PAM
5	102753981	103031105	+ 8846	

protein_coding	peptidylglycine alpha-amidating monooxygenase							
[Source:HGNC Symbol;Acc:HGNC:8596]		-		1986	1981	2517		
1252	1315	1178	10.99413316	10.61118732				
17.70284746	7.86446959		9.1374745	6.191977557				
ENSG00000159055	554.3303402		512.4121937	526.6087174				
378.1285006	253.4111859		255.3411574	531.1170838				
295.626948	0.845647185		0.000303626	0.004761385		MIS18A		
21	32268219		32279069	-	1723			
protein_coding	MIS18 kinetochore protein A							
[Source:HGNC Symbol;Acc:HGNC:1286]		-	611	579	453	365	222	
296	17.365393		15.92281052	16.35760705				
11.77116997	7.919815369		7.987988882					
ENSG00000140632	1130.434704		1106.243941	1160.166667				
787.3360561	801.3272634		645.2540059	1132.281771				
744.6391085	0.605461567		0.000305995	0.004793412		GLYR1		
16	4803203	4847342	-	5470		protein_coding		
glyoxylate reductase 1 homolog								
[Source:HGNC Symbol;Acc:HGNC:24434]								
-	1246	1250	998	760	702	748		
11.15473865	10.82802195		11.35141657	7.720373469				
7.888549336	6.358362582							
ENSG00000112096	2026.798658		2770.034829	3377.038243				
3309.919341	4681.257987		5648.560468	2724.62391				
4546.579266	-0.739214854		0.00030621	0.004793412		SOD2		
6	159669057		159745186	-	16493			
protein_coding	superoxide dismutase 2							
[Source:HGNC Symbol;Acc:HGNC:11180]		-	2234	3130	2905	3195	4101	
6548	6.633033541		8.992306875	10.95855583				
10.7642369	15.28401554		18.46035421					
ENSG00000198786	29527.38994		34543.13082	20674.91399				
40897.96424	40473.87575		47214.82287	28248.47825				
42862.22095	-0.601484467		0.000309149	0.004835136		MT-ND5		
MT	12337	14148	+	1812		protein_coding		
mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 5								
[Source:HGNC Symbol;Acc:HGNC:7461]								
39478	35457	54733	879.5653461	1020.678702				
610.6642878	1210.623202		1202.793726	1404.501081				
ENSG00000186432	3962.872219		3589.540341	3288.688878				
5499.956739	4898.141435		4749.690583	3613.700479				
5049.262919	-0.48230877		0.000310856	0.004857538		KPNA4		
3	160494995		160565588	-	9413			
protein_coding	karyopherin subunit alpha 4							
[Source:HGNC Symbol;Acc:HGNC:6397]		-	4368	4056	2829	5309	4291	
5506	22.72392015		20.41720684	18.69871384				
31.33983534	28.02062487		27.19813759					
ENSG00000135074	2336.171237		2111.598435	2723.717936				
1509.406097	1599.230051		1780.486989	2390.495869				
1629.707713	0.551926228		0.000312453	0.004878187		ADAM19		
5	157395534		157575775	-	7704			
protein_coding	ADAM metalloproteinase domain 19							
[Source:HGNC Symbol;Acc:HGNC:197]		-	2575	2386	2343	1457	1401	

2064	16.36777487	14.67508435	18.92181801	
10.5088531	11.17813168	12.45731473		
ENSG00000092203	1081.443151	1088.544038	1354.302772	
1643.046033	1743.058022	1826.206859	1174.763321	
1737.436971	-0.56565047	0.000317196	0.004947866	TOX4
14	21476597	21499175	+ 7091	
protein_coding	TOX high mobility group box family member 4			
[Source:HGNC Symbol;Acc:HGNC:20161]	HMG	1192	1230	1165
1586	1527 2117	8.231850103	8.219096261	
10.22175075	12.42818591	13.23667519	13.8817555	
ENSG00000248774	18.14501932	15.0449176	15.11239145	0
0	0	16.10077612	0	6.442467413
0.000318687	0.004966749	AC097534.1	4	173322206
173329694	-	521	antisense	novel
transcript	-	20	17	13
1.879840301	1.546100209	1.552431605	0	0
0				
ENSG00000197557	185.0791971	222.1337834	240.6357715	
392.6320596	408.6540745	373.5227066	215.949584	
391.6029469	-0.859803364	0.000322314	0.005018848	TTC30A
2	177612992	177618966	- 5975	
protein_coding	tetratricopeptide repeat domain 30A [Source:HGNC			
Symbol;Acc:HGNC:25853]	-	204 251	207 379	358
433	1.671940975	1.990500324	2.155456598	
3.524628463	3.682921628	3.369620602		
ENSG00000111328	534.370819	359.3080322	517.3087842	
257.9561552	277.3825142	233.7751813	470.3292118	
256.3712836	0.875716566	0.000324601	0.005050017	
CDK2AP1 12	123260971	123272334	- 3117	
protein_coding	cyclin dependent kinase 2 associated protein 1			
[Source:HGNC Symbol;Acc:HGNC:14002]	-	589	406	445
249	243 271	9.253524434	6.171854401	
8.882394447	4.438892101	4.792000244	4.042625459	
ENSG00000174080	223.1837376	268.1535314	212.7359719	
109.8126605	107.3002318	118.1815492	234.6910803	
111.7648138	1.070269508	0.000326031	0.005067808	CTSF
11	66563463	66568841	- 2896	
protein_coding	cathepsin F [Source:HGNC Symbol;Acc:HGNC:2531]			-
246	303 183	106 94	137	4.15973087
4.957588912	3.931509947	2.033852021	1.995155071	
2.199647188				
ENSG00000104907	1189.406016	1609.806184	1156.679192	
1793.261465	1951.951026	2505.103787	1318.630464	
2083.438759	-0.65978596	0.000331901	0.005154516	TRMT1
19	13104902	13117567	- 3364	
protein_coding	tRNA methyltransferase 1 [Source:HGNC			
Symbol;Acc:HGNC:25980]	-	1311 1819	995 1731	1710
2904	19.08426279	25.62141747	18.4023777	
28.59256548	31.24550034	40.13947085		
ENSG00000125520	1849.88472	1987.699114	2304.05845	

1108.48629	1655.163151	1116.254925	2047.214095		
1293.301455	0.663089562	0.000333063	0.00516803		
SLC2A4RG	20	63739861	63743505	+	2244
protein_coding	SLC2A4 regulator [Source:HGNC				
Symbol;Acc:HGNC:15930]	Others	2039	2246	1982	1070 1450
1294	44.49621364	47.42565527	54.95252395		
26.49555181	39.71846993	26.81281686			
ENSG00000247679	8.165258694	7.964956378	22.08734135		
44.54664528	74.19696883	79.36279217	12.73918547		
66.03546876	-2.39548499	0.000334548	0.00518652		
AC139795.2	5	177611253	177619754	+	1751
antisense	novel transcript				
19	43	65	92	0.251701061	0.243547011
0.675109628	1.364565394	2.281784211	2.443051935		
ENSG00000151445	577.0116144	660.2063842	557.9959919		
780.0842767	1014.786235	1104.177978	598.4046635		
966.3494966	-0.691214785	0.000336829	0.005217316		
VIPAS39 14	77426675	77457952	-	3695	
protein_coding	"VPS33B interacting protein, apical-basolateral				
polarity regulator, spe-39 homolog [Source:HGNC	Symbol;Acc:HGNC:20347]"				
1280	8.428908832	9.566450432	8.082275335	480	753 889
11.32381009	14.78885934	16.10744084			
ENSG00000148840	2245.446141	2472.676458	1846.03674		
3183.531185	2915.370129	3498.001329	2188.053113		
3198.967548	-0.547632705	0.000337475	0.005222749		PPRC1
10	102132994	102150331	+	6095	
protein_coding	"peroxisome proliferator-activated receptor gamma,				
coactivator-related 1 [Source:HGNC Symbol;Acc:HGNC:30025]"	-				
2475	2794	1588	3073	2554	4055 19.88520978
21.72096584	16.21002314	28.01566231	25.75695642		
30.93486084					
ENSG00000140807	88.0033437	46.01974796	61.61205744		
2.07193699	0	18.11541995	65.21171637	6.72911898	
3.234459683	0.000339535	0.0052464	NKD1	16	
50548330	50649249	+	17425	protein_coding	
naked cuticle homolog 1 [Source:HGNC Symbol;Acc:HGNC:17045]	-				
-	97	52	53	2	0 21
0.272601117	0.141402471	0.189238688	0.006377776		0
0.056037342					
ENSG00000160014	5683.020051	5718.838679	6286.754843		
4437.053064	4443.827687	4246.77202	5896.204524		
4375.884257	0.430144955	0.000339597	0.0052464		CALM3
19	46601074	46610793	+	3667	
protein_coding	calmodulin 3 [Source:HGNC Symbol;Acc:HGNC:1449] -				
6264	6462	5408	4283	3893	4923 83.65068904
83.49923268	91.75560848	64.90067416	65.2560608		
62.42376284					
ENSG00000196155	26.31027801	41.5947722	34.8747495		0
5.707459141	0	34.25993324	1.90248638		

4.252078009	0.000340872	0.005261505	PLEKHG4 16		
67277510	67289499	+ 7328	protein_coding		
pleckstrin homology and RhoGEF domain containing G4 [Source:HGNC					
Symbol;Acc:HGNC:24501]	-	29 47	30 0	5	
0	0.193794399	0.303905695	0.254708032	0	
0.041940336	0				
ENSG00000144567	1735.571098	1814.240064	1868.124081		
2238.727917	2741.863371	2771.659252	1805.978414		
2584.083514	-0.517101661	0.00034452	0.00530997		
RETREG2 2	219176225	219185479	+ 5689		
protein_coding reticulophagy regulator family member 2 [Source:HGNC					
Symbol;Acc:HGNC:28450]	-	1913 2050	1607 2161	2402	
3213	16.46674347	17.07435741	17.57465424		
21.10721222	25.95281252	26.26067046			
ENSG00000119950	488.1010197	441.6125814	667.270207		
992.4578181	864.1093139	807.4301464	532.327936		
887.9990928	-0.739991747	0.000344612	0.00530997	MXI1	
10	110207605	110287365	+ 4607		
protein_coding "MAX interactor 1, dimerization protein [Source:HGNC					
Symbol;Acc:HGNC:7534]"	bHLH	538 499	574 958	757	
936	5.718639859	5.132261472	7.751763723		
11.55471773	10.10008497	9.446885566			
ENSG00000158792	520.7620545	675.2513018	676.5701402		
658.8759628	1308.149635	1634.700991	624.1944988		
1200.57553	-0.944384186	0.000349291	0.005377386		
SPATA2L 16	89696343	89701705	- 2482		
protein_coding spermatogenesis associated 2 like [Source:HGNC					
Symbol;Acc:HGNC:28393]	-	574 763	582 636	1146	
1895	11.32501534	14.56629837	14.58908498		
14.23860303	28.38116383	35.50082578			
ENSG00000139737	304.8363246	323.908226	305.7353039		
486.9051926	583.3023242	500.3306463	311.4932848		
523.512721	-0.748172343	0.000350963	0.005398417	SLAIN1	
13	77697854	77764242	+ 4133		
protein_coding SLAIN motif family member 1 [Source:HGNC					
Symbol;Acc:HGNC:26387]	-	336 366	263 470	511	
580	3.981095133	4.196064168	3.959106549		
6.318943851	7.599812105	6.525196678			
ENSG00000278981	0 0.884995153	0	8.287747959		
18.26386925	38.81875704	0.294998384			
21.79012475	-5.962907164	0.000352271	0.005413826		
AC079298.1	4 154235980	154237598	+ 1619		
antisense "novel transcript, antisense to DCHS2" -					
0	1 0	8 16	45 0		
0.029267093	0 0.274571327	0.607463928	1.292399208		
ENSG00000163719	992.5325568	1316.872788	992.767869		
1425.492649	1744.199513	2058.256762	1100.724405		
1742.649641	-0.662667332	0.000352589	0.005414011	MTMR14	
3	9649433 9702393	+ 6019	protein_coding		
myotubularin related protein 14 [Source:HGNC Symbol;Acc:HGNC:26190]					



-	1094	1488	854	1376	1528	2386		
8.900648742	11.71399485		8.827553818		12.70299521			
15.60437473	18.43219745							
ENSG00000100567	1578.616681		1571.751392		1607.725952			
1229.694603	1026.201154		979.9579554		1586.031342			
1078.617904	0.556447736		0.000353003		0.005415667		PSMA3	
14	58244831		58272012		+	3119		
protein_coding	proteasome subunit alpha 3 [Source:HGNC							
Symbol;Acc:HGNC:9532]	-		1740	1776	1383	1187	899	
1136	27.31885903		26.9807506		27.58758295			
21.14693293	17.71706087		16.93534213					
ENSG00000108468	2562.983979		2575.335896		2364.508016			
1955.908518	1731.643103		1415.590673		2500.94263			
1701.047432	0.556708738		0.000354672		0.005436568		CBX1	
17	48070052		48101521		-	3087		
protein_coding	chromobox 1 [Source:HGNC Symbol;Acc:HGNC:1551]						-	
2825	2910	2034	1888	1517	1641	44.81366943		
44.66659022		40.99408202		33.98422764		30.20621516		
24.71741047								
ENSG00000241749	98.89035529		232.7537253		136.011523			
258.9921237	353.8624667		492.5668949		155.8852012			
368.4738284	-1.240532256		0.000355342		0.005442115			
RPSAP52	12	65758020	65826997		-	2035		
transcribed_processed_pseudogene	ribosomal protein SA							
pseudogene 52 [Source:HGNC Symbol;Acc:HGNC:35752]					-		109	
263	117	250	310	571	2.622954566			
6.123754559	3.577077049		6.826335651		9.36363854			
13.04676118								
ENSG00000179119	905.436464		838.09041		838.1564796			
1522.873688	1179.161059		1215.458415		860.5611179			
1305.831054	-0.601421686		0.00035642		0.005453906			
SPTY2D1	11	18606401	18634791		-	6005		
protein_coding	SPT2 chromatin protein domain containing 1							
[Source:HGNC Symbol;Acc:HGNC:26818]					-	998	947	
1470	1033	1409	8.13853458		7.472456716		721	
7.470146166	13.60242583		10.57388712		10.91010674			
ENSG00000144460	0	0	0	9.323716454	34.24475485			
6.901112362	0		16.82319455		-6.544026722			
0.000358631	0.005482999		NYAP2	2	225399710			
225654018	+	5461	protein_coding neuronal tyrosine-					
phosphorylated phosphoinositide-3-kinase adaptor 2 [Source:HGNC								
Symbol;Acc:HGNC:29291]	-		0	0	0	9	30	
8	0	0	0	0.091576149	0.337673079			
0.068115952								
ENSG00000103742	438.2022166		523.9171306		481.2715431			
319.0782964	205.4685291		91.4397388		481.1302968			
205.3288548	1.231115926		0.000364856		0.005564677		IGDCC4	
15	65381464		65423072		-	7764		
protein_coding	immunoglobulin superfamily DCC subclass member 4							
[Source:HGNC Symbol;Acc:HGNC:13770]			-		483	592	414	

308	180	106	3.046423575	3.612955569	
3.317581962	2.204333158		1.4250639	0.634821105	
ENSG00000134242	621.4669117		565.5119028	430.1219105	
1003.853472	834.4305264		820.3697321	539.033575	
886.21791	-0.715571048		0.000364864	0.005564677	PTPN22
1	113813811		113871759	- 4503	
protein_coding	"protein tyrosine phosphatase, non-receptor type 22 [Source:HGNC Symbol;Acc:HGNC:9652]"				
			-	685 639	370
969	731	951	7.44933162	6.723963574	
5.11218573	11.9573206		9.978443215	9.819957046	
ENSG00000164283	88.0033437		96.46447169	68.58700734	
192.6901401	187.2046598		194.9564242	84.35160758	
191.6170747	-1.180445106		0.000364917	0.005564677	ESM1
5	54977864		55022671	- 2695	
protein_coding	endothelial cell specific molecule 1 [Source:HGNC Symbol;Acc:HGNC:3466]				
			-	97 109	59 186 164
226	1.762550821		1.916435333	1.362072074	
3.835007506	3.740523941		3.899246471		
ENSG00000100097	9271.197621		12746.58519	18945.12642	
7097.420159	9659.30385		7985.449642	13654.30308	
8247.391217	0.727273537		0.000367718	0.005602553	LGALS1
22	37675608		37679806	+ 1099	
protein_coding	galectin 1 [Source:HGNC Symbol;Acc:HGNC:6561]				
					-
10219	14403	16297	6851	8462	9257 455.3437609
620.9858568		922.607158		346.3923712	473.2849437
391.6549226					
ENSG00000223756	58.06406182		91.15450077	10.46242485	
186.4743291	162.0918396		243.2642108	53.22699581	
197.2767932	-1.881284822		0.000368189	0.005604897	TSSC2
11	3380961	3408978	+	3666	
transcribed_unprocessed_pseudogene	tumor suppressing subtransferable candidate 2 pseudogene [Source:HGNC Symbol;Acc:HGNC:12384]				
			-	64 103	9 180 142
282	0.854901732		1.331285509	0.152741445	
2.728299781	2.380911452		3.576742423		
ENSG00000099821	2708.144133		3173.592619	2884.141783	
3326.494837	4681.257987		5410.472092	2921.959512	
4472.741639	-0.614341495		0.000371667	0.005652976	POLRMT
19	617224	633604	-	5124	protein_coding RNA
polymerase mitochondrial	[Source:HGNC Symbol;Acc:HGNC:9200]				
					-
2985	3586	2481	3211	4101	6272 28.52751208
33.16099896		30.12482202		34.82115947	49.19579786
56.91515812					
ENSG00000189060	4569.823116		4536.485155	6300.704742	
3948.075934	3328.590171		2957.989286	5135.671004	
3411.551797	0.589983716		0.00037443	0.005689256	H1F0
22	37805093		37807436	+ 2344	
protein_coding	H1 histone family member 0 [Source:HGNC Symbol;Acc:HGNC:4714]				
			-	5037 5126	5420 3811 2916
3429	105.2308376		103.620918	143.8628057	

90.34276641	76.46756704	68.02066851				
ENSG00000144021	2347.058249	2918.714015	2136.659653			
3397.976663	3874.223265	3492.825494	2467.477305			
3588.341807	-0.539727901	0.000374695	0.005689256			CIA01
2	96266132	96273349	+ 4031			
protein_coding	cytosolic iron-sulfur assembly component 1					
[Source:HGNC Symbol;Acc:HGNC:14280]	-	2587	3298			1838
3280	3394	4049	31.4276794	38.76718743		
28.36870789	45.21401658	51.75429536	46.7052818			
ENSG00000271447	16.33051739	27.43484975	5.812458249			0
0	0	16.52594179	0	6.483400473		
0.000378535	0.005742636	MMP28	17	35756249		
35795707	-	2858	protein_coding	matrix		
metallopeptidase	28 [Source:HGNC Symbol;Acc:HGNC:14366]				-	18
31	5	0	0	0	0.308417466	
0.513955964	0.10884654	0	0	0		
ENSG00000182010	510.7822938	485.8623391	425.4719439			
289.0352101	243.1377594	94.02765594	474.0388589			
208.7335418	1.18687798	0.000384164	0.005823037			RTKN2
10	62183035	62268707	-	9548		
protein_coding	rhotekin 2 [Source:HGNC Symbol;Acc:HGNC:19364]				-	
563	549	366	279	213	109	2.887517786
	2.724497257	2.384929369	1.623692694	1.37124341		
	0.530817345					
ENSG00000136518	2215.506859	2027.523896	2281.971109			
1695.880426	1483.939377	1264.62884	2175.000621			
1481.482881	0.554267241	0.000385449	0.005837509			ACTL6A
3	179562880	179588408	+ 3675			
protein_coding	actin like 6A [Source:HGNC Symbol;Acc:HGNC:24124]					
-	2442	2291	1963	1637	1300	1466
32.53995888	29.53889102	33.23301953	24.75160579			
21.74369608	18.54845091					
ENSG00000088387	1314.60665	1160.228646	1084.604709			
1662.729434	1685.98343	1807.2288	1186.480002			
1718.647221	-0.534250352	0.000386215	0.005844099			DOCK9
13	98793429	99086625	-	14816		
protein_coding	dedicator of cytokinesis 9 [Source:HGNC					
Symbol;Acc:HGNC:14132]	-	1449	1311	933	1605	1477
2095	4.789234471	4.192742234	3.917937656			
6.019440293	6.12769141	6.574823157				
ENSG00000110042	14.51601546	16.81490791	27.8997996			
17.61146441	148.3939377	151.824472	19.74357432			
105.9432913	-2.431657525	0.000386585	0.005844707			DTX4
11	59171430	59208587	+ 6072			
protein_coding	deltex E3 ubiquitin ligase 4 [Source:HGNC					
Symbol;Acc:HGNC:29151]	-	16	19	24	17	130
176	0.129037786	0.14826829	0.245915739			
0.1555712	1.316009273	1.347758014				
ENSG00000204387	355.6423787	507.9872179	537.0711423			
160.5751167	297.9293672	244.1268498	466.9002463			

234.2104446	0.995382339	0.00038902	0.005876498	
C6orf48 6	31834608	31839766	+ 1801	
protein_coding	chromosome 6 open reading frame	48	[Source:HGNC	
Symbol;Acc:HGNC:19078]	-	392 574	462 155	261
283	10.65862144	15.10165764	15.96008167	
4.782225259	8.907875832	7.306404983		
ENSG00000187951	205.9459693	184.0789918	97.64929859	
76.66166862	44.5181813	50.03306463	162.5580866	
57.07097152	1.512521465	0.000389893	0.005884663	
AC091057.1	15 30658717	30772993	+ 5637	
processed_transcript	OTU deubiquitinase 7A pseudogene			
[Source:NCBI gene;Acc:100288637]	-	227 208	84	
74 39 58	1.971998162	1.748403797		
0.927124585	0.729450336	0.425269202	0.478421818	
ENSG00000184787	3282.433995	3655.029982	2214.546593	
4029.917445	4771.435842	5666.675888	3050.67019	
4822.676392	-0.660366938	0.000393581	0.005935252	UBE2G2
21	44768580	44802019	- 7388	
protein_coding	ubiquitin conjugating enzyme E2 G2	[Source:HGNC		
Symbol;Acc:HGNC:12483]	-	3618 4130	1905 3890	4180
6569	23.98116953	26.48802671	16.04260682	
29.25733458	34.77737155	41.34313383		
ENSG00000167779	97.07585336	100.8894475	231.3358383	
56.97826722	33.10326302	43.13195226	143.1003797	
44.40449417	1.683342546	0.000396102	0.00596818	IGFBP6
12	53097436	53102345	+ 1346	
protein_coding	insulin like growth factor binding protein 6			
[Source:HGNC Symbol;Acc:HGNC:5475]	-	107 114	199	
55 29 50	3.892847594	4.013157758		
9.198454472	2.270542698	1.324342445	1.727253027	
ENSG00000279484	0 0	0 8.287747959	4.565967313	
38.81875704	0	17.22415744	-6.587567049	
0.000398626	0.006001101	KLHL30-AS1	2 238152889	
238155994	-	3106 TEC	KLHL30 antisense RNA 1	
[Source:HGNC Symbol;Acc:HGNC:31018]	-	0 0 0	0 0 0	
8 4 45	0 0	0 0.143120083		
0.079160021	0.673662047			
ENSG00000154832	1574.987677	2175.318086	1803.024549	
2403.446908	2771.542159	3177.099604	1851.110104	
2784.029557	-0.588864785	0.000400681	0.006026915	CXXC1
18	50282343	50288304	- 4319	
protein_coding	CXXC finger protein 1	[Source:HGNC		
Symbol;Acc:HGNC:24343]	-	1736 2458	1551 2320	2428
3683	19.68317711	26.96653307	22.342689	
29.84810917	34.55515446	39.65057895		
ENSG00000198727	22814.64004	23627.6006	16920.06596	
26397.51322	31102.22784	35080.07942	21120.76887	
30859.94016	-0.547023255	0.000403893	0.006070058	MT-CYB
MT	14747 15887	+ 1141	protein_coding	
mitochondrially	encoded cytochrome b	[Source:HGNC		

Symbol;Acc:HGNC:7427]	-	25147	26698	14555	25481	27247
40666	1079.267802	1108.713984		793.658025		
1240.91738	1467.845709	1657.207271				
ENSG00000106462	1167.631993	1008.009479		857.9188376		
759.3649068	536.5011592	546.0505157		1011.18677		
613.9721939	0.720579398	0.000408693		0.006136984		EZH2
7	148807383	148884321		-	4522	
protein_coding subunit	enhancer of zeste 2 polycomb repressive complex 2 [Source:HGNC Symbol;Acc:HGNC:3527]			-	1287	1139
738	733	470	633	13.93723659	11.9349226	
10.15389459	9.007109868	6.388731849	6.508848607			
ENSG00000204256	4563.472359	5076.332198		4576.729626		
5734.085619	6925.430922	7021.01919		4738.844728		
6560.178577	-0.469154238	0.000409459		0.006143268		BRD2
6	32968660	32981505		+	7337	
protein_coding Symbol;Acc:HGNC:1103]	bromodomain containing 2 [Source:HGNC -	5030	5736	3937	5535	6067
8139	33.57207228	37.04393081		33.38518155		
41.91902278	50.82797833	51.58026244				
ENSG00000148843	2714.49489	2961.193782		2261.046259		
3380.365199	3689.301589	4977.427291		2645.578311		
4015.698026	-0.602011814	0.00041408		0.006207344		PDCD11
10	103396626	103446292		+	7670	
protein_coding Symbol;Acc:HGNC:13408]	programmed cell death 11 [Source:HGNC -	2992	3346	1945	3263	3232
5770	19.10270675	20.67078708		15.77724205		
23.63925326	25.90140653	34.97932844				
ENSG00000011426	9938.934332	6871.102369		8913.985971		
4339.672025	2393.708364	1501.854578		8574.674224		
2745.078322	1.643300427	0.000415937		0.006229901		ANLN
7	36389806	36453791		+	6012	
protein_coding Symbol;Acc:HGNC:14082]	anillin actin binding protein [Source:HGNC -	10955	7764	7668	4189	2097
1741	89.23230129	61.19176719		79.35421118		
38.71715455	21.4401006	13.46513827				
ENSG00000163755	1207.551036	880.5701774		1097.392117		
814.271237	560.4724876	500.3306463		1061.837777		
625.0247903	0.764949971	0.000419725		0.006281313		HPS3
3	149129584	149173732		+	6256	
protein_coding subunit 1 [Source:HGNC Symbol;Acc:HGNC:15597]"	"HPS3, biogenesis of lysosomal organelles complex 2 -				1331	995
944	786	491	580	10.41861522	7.536206352	
9.388194983	6.981324896	4.824275624	4.310843649			
ENSG00000213676	1242.026572	1046.949266		1182.254008		
885.7530631	696.3100152	533.973569		1157.076616		
705.3455491	0.714908761	0.000423354		0.006330269		ATF6B
6	32115264	32128253		-	3629	
protein_coding Symbol;Acc:HGNC:2349]	activating transcription factor 6 beta [Source:HGNC TF_bZIP	1369	1183	1017	855	610
619	18.47332894	15.44629117		17.43575795		

13.09155366	10.33213869	7.931123251				
ENSG00000280287	88.91059467	100.8894475	54.63710754			
168.8628647	189.4876435	233.7751813	81.47904989			
197.3752298	-1.272087718	0.00042567	0.006355199			
AC131212.3	12	132550729	132554947	+		4219
TEC	novel transcript	-	98	114		47
163	166	271	1.137483836	1.280329543		
0.693098851	2.146792763	2.41849906	2.986694372			
ENSG00000067596	2767.115446	2724.900076	2885.304275			
3509.861261	3869.657298	4100.986021	2792.439933			
3826.83486	-0.454872522	0.000425859	0.006355199			DHX8
17	43483865	43610338	+	10439		
protein_coding	DEAH-box helicase 8 [Source:HGNC Symbol;Acc:HGNC:2749]					
-	3050	3079	2482	3388	3390	4754
14.30769341	13.97581786	14.79277754	18.03418613			
19.96126962	21.17538416					
ENSG00000196204	777.5140778	868.1802452	777.7069138			
1105.378384	1247.650568	1231.848557	807.8004123			
1194.95917	-0.564552993	0.000426099	0.006355199			
RNF216P1	7	4973988	5040675	+	5510	
transcribed_unprocessed_pseudogene	ring finger protein 216					
pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:33610]	-					857
981	669	1067	1093	1428	7.616543146	
8.436141379	7.554076272	10.760312	12.19315019			
12.05057102						
ENSG00000174945	119.7571275	152.2191663	115.0866733			
7.251779464	22.82983656	60.38473317	129.0209891			
30.15544973	2.085659406	0.000432805	0.006449776			AMZ1
7	2679522	2775500	+	7011	protein_coding	
archaelysin family metalloproteinase 1 [Source:HGNC						
Symbol;Acc:HGNC:22231]	-	132	172	99	7	20
70	0.921982436	1.16245171	0.878541081			
0.055479191	0.175346616	0.464246984				
ENSG00000276071	0.907250966	0	0	7.251779464		
47.94265678	11.21430759	0.302416989				
22.13624795	-5.978253284	0.000433482	0.006454435			
AC074138.1	19	36668102	36669404	+		1303
lincRNA	novel transcript	-	1	0		0
7	42	13	0.037582379	0	0	
0.298514663	1.981309103	0.463905963				
ENSG00000162733	3262.474474	2573.565905	2878.329325			
2320.569429	1844.650794	1384.535668	2904.789901			
1849.91863	0.651425346	0.000435387	0.006477349			DDR2
1	162631373	162787400	+	10730		
protein_coding	discoidin domain receptor tyrosine kinase 2					
[Source:HGNC Symbol;Acc:HGNC:2731]	-					2476
2240	1616	1605	16.41151389	12.84165864		
14.35680379	11.60006279	9.257399259	6.955147312			
ENSG00000178209	15161.97814	16279.48584	16245.82081			
12843.9374	11063.3388	11884.57813	15895.7616			

11930.61811	0.413929724	0.000442036	0.006570729	PLEC
8	143915147	143976734	- 16991	
protein_coding	plectin [Source:HGNC Symbol;Acc:HGNC:9069]			-
16712	18395 13975	12398 9692	13777 48.16573264	
	51.29881028	51.17286393	40.54569375 35.062415	
	37.7022038			
ENSG00000142871	3215.297423	3907.253601	3807.160153	
2945.258431	2223.626081	2352.416676	3643.237059	
2507.100396	0.539110948	0.000442737	0.006572074	CYR61
1	85580761	85583962	+ 2455	
protein_coding	cysteine rich angiogenic inducer 61 [Source:HGNC Symbol;Acc:HGNC:2654]			-
2727	70.6921028	85.21296017	82.99781408	1948
64.34834875	48.77360045	51.64932613		
ENSG00000167112	1180.333507	1325.722739	1367.09018	
1527.017561	2161.985523	2244.586796	1291.048809	
1977.863293	-0.615790667	0.000442869	0.006572074	TRUB2
9	128305161	128322742	- 6125	
protein_coding	TruB pseudouridine synthase family member 2 [Source:HGNC Symbol;Acc:HGNC:17170]			-
1474	1894 2602	10.40159373	11.58863171	1176
11.94560294	13.37221757	19.00733556	19.7529615	
ENSG00000033050	538.9070738	556.6619513	549.8585504	
774.9044342	788.7708533	1074.84825	548.4758585	
879.507846	-0.682284785	0.000443937	0.006580849	ABCF2
7	151212490	151227230	- 4177	
protein_coding	ATP binding cassette subfamily F member 2 [Source:HGNC Symbol;Acc:HGNC:71]			-
1246	6.963869969	7.135306136	7.045365235	691
9.950597656	10.16859458	13.87025946		
ENSG00000149016	465.4197455	539.8470434	455.6967268	
585.3221996	920.0424135	1042.067967	486.9878386	
849.1441933	-0.802105575	0.000444205	0.006580849	TUT1
11	62575045	62592177	- 4082	
protein_coding	"terminal uridylyl transferase 1, U6 snRNA-specific [Source:HGNC Symbol;Acc:HGNC:26184]"			-
565	806 1208	6.154220439	7.080815452	392
5.974752412	7.691082875	12.1369455	13.76020652	
ENSG00000115053	17637.86603	17068.01652	17364.13777	
14390.63836	11693.44229	12561.74978	17356.67344	
12881.94348	0.430120192	0.000445896	0.006600374	NCL
2	231453531	231483641	- 6929	
protein_coding	nucleolin [Source:HGNC Symbol;Acc:HGNC:7667]			-
19441	19286 14937	13891 10244	14562 137.396833	
	131.8858012	134.1218905	111.3973844 90.87540694	
	97.71955566			
ENSG00000117226	518.0403016	406.2127753	567.2959251	
346.0134773	228.2983656	227.736708	497.1830007	
267.349517	0.894611277	0.000448539	0.006633948	GBP3
1	89006666	89022894	- 4297	

protein_coding	guanylate binding protein 3	[Source:HGNC				
Symbol;Acc:HGNC:4184]	-	571	459	488	334	200
264	6.507279158	5.061436268		7.065799585		
4.31909898	2.860961425	2.856732603				
ENSG00000126883	1565.915167	1745.210442		1357.790247		
2175.533839	2198.513261	2330.8507		1556.305285		
2234.965934	-0.521574835	0.00045013		0.006651926		NUP214
9	131125561	131234670		+	13062	
protein_coding	nucleoporin 214	[Source:HGNC	Symbol;Acc:HGNC:8064]			
-	1726	1972	1168	2100	1926	2702
6.470827098	7.153583849	5.563396462		8.933500354		
9.063458772	9.618485251					
ENSG00000198682	620.5596607	469.9324263		747.4821309		
308.7186115	336.7400893	395.9513218		612.6580726		
347.1366742	0.817364576	0.0004521		0.006675462		PAPSS2
10	87659613	87747705		+	4083	
protein_coding	3'-phosphoadenosine 5'-phosphosulfate synthase 2	[Source:HGNC	Symbol;Acc:HGNC:8604]			
-			684	531		643
298	295	459	8.203617547	6.162282188		
9.798022662	4.055542228	4.441094314		5.227142307		
ENSG00000161681	154.2326642	246.9136477		163.9113226		
277.6395566	347.0135158	628.863864		188.3525449		
417.8389788	-1.14981832	0.000453433		0.006689561		SHANK1
19	50661827	50719450		-	7567	
protein_coding	SH3 and multiple ankyrin repeat domains 1	[Source:HGNC				
Symbol;Acc:HGNC:15474]	-	170	279	141	268	304
729	1.100154985	1.747056338		1.159317056		
1.967990981	2.469432786	4.479554373				
ENSG00000154813	1212.994542	1322.182759		1249.678524		
1834.700204	1662.012102	1871.926728		1261.618608		
1789.546345	-0.504510801	0.000455489		0.006710249		DPH3
3	16257978	16264972		-	3562	
protein_coding	diphthamide biosynthesis 3	[Source:HGNC				
Symbol;Acc:HGNC:27717]	-	1337	1494	1075	1771	1456
2170	18.38087475	19.87390105		18.77679201		
27.62718843	25.12550619	28.32675569				
ENSG00000123130	524.3910583	614.1866363		623.0955243		
362.5889732	355.0039586	366.6215942		587.2244063		
361.404842	0.699676057	0.000455594		0.006710249		ACOT9
X	23702253	23766475		-	5046	
protein_coding	acyl-CoA thioesterase 9	[Source:HGNC				
Symbol;Acc:HGNC:17152]	-	578	694	536	350	311
425	5.609307852	6.516864109		6.608827102		
3.854187529	3.788440782	3.916270687				
ENSG00000055483	1811.780179	2062.038707		1433.352204		
2521.547317	2421.104168	3059.780694		1769.05703		
2667.477393	-0.592122389	0.000458849		0.006752568		USP36
17	78787381	78841441		-	9235	
protein_coding	ubiquitin specific peptidase 36	[Source:HGNC				
Symbol;Acc:HGNC:20062]	-	1997	2330	1233	2434	2121



3547	10.58936331	11.95488663	8.306786022	
14.64521385	14.11728326	17.85892473		
ENSG00000130177	1673.878032	1967.344225	1834.411824	
2956.654084	2665.383419	2279.954997	1825.21136	
2633.9975	-0.528908409	0.000461926	0.006792194	CDC16
13	114234887	114272723	+ 3959	
protein_coding	cell division cycle 16 [Source:HGNC			
Symbol;Acc:HGNC:1720]	-	1845 2223	1578 2854	2335
2643	22.8212565	26.60604993	24.79866739	
40.05719279	36.25340004	31.04149859		
ENSG00000125352	275.8042937	405.3277801	442.9093186	
475.5095392	743.1111801	919.5732223	374.6804641	
712.7313139	-0.929424415	0.000466229	0.006849777	
RNF113A X	119870475	119871827	- 1353	
protein_coding	ring finger protein 113A [Source:HGNC			
Symbol;Acc:HGNC:12974]	-	304 458	381 459	651
1066	11.00283171	16.03962174	17.51999693	
18.85067616	29.5753949	36.6345133		
ENSG00000176678	1462.488557	1318.642778	2085.51002	
947.9111728	1198.56642	778.1004188	1622.213785	
974.8593371	0.734888559	0.000466693	0.006850898	FOX11
16	86576368	86582160	+ 3742	
protein_coding	forkhead box L1 [Source:HGNC			
Fork	1612 1490	1794 915	1050 902	
21.09550556	18.86726399	29.82809394	13.5871808	
17.24776698	11.20814582			
ENSG00000071539	1727.405839	1381.477434	1490.314295	
1142.67325	1034.191596	862.6390453	1533.065856	
1013.167964	0.598245962	0.000472214	0.006926197	TRIP13
5	892643 919357	+ 3560	protein_coding	
thyroid hormone receptor interactor 13 [Source:HGNC				
Symbol;Acc:HGNC:12307]	-	1904 1561	1282 1103	906
1000	26.19061097	20.77683285	22.40499616	
17.21621026	15.64319863	13.06113806		
ENSG00000112144	1418.940511	1073.499121	1412.427355	
833.9546384	956.570152	661.6441477	1301.622329	
817.389646	0.67197499	0.000475694	0.006966274	ICK
6	53001279	53061802	- 6259	
protein_coding	intestinal cell kinase [Source:HGNC			
Symbol;Acc:HGNC:21219]	-	1564 1213	1215 805	838
767	12.23659203	9.182951491	12.07753134	
7.146657553	8.22974592	5.697986691		
ENSG00000177674	908.1582169	1192.973466	1048.567468	
1363.334539	1627.767347	1804.640883	1049.899717	
1598.580923	-0.606755441	0.000475734	0.006966274	AGTRAP
1	11736084	11754802	+ 2435	
protein_coding	angiotensin II receptor associated protein			
[Source:HGNC	Symbol;Acc:HGNC:13539]	-	1001 1348	902
1316	1426 2092	20.130928	26.23115221	
23.04700089	30.03094284	35.99713362	39.94787965	

ENSG00000197563	521.6693054	487.6323294	624.258016	
331.5099184	351.5794831	205.3080928	544.5198836	
296.1324981	0.88052207	0.000476564	0.006972663	PIGN
18	61905255	62187118	- 19003	
protein_coding	phosphatidylinositol glycan anchor biosynthesis class			
N [Source:HGNC Symbol;Acc:HGNC:8967]	-	575	551	537
320	308	238	1.481748035	1.373902366
1.758162303	0.935706947	0.996267374	0.582352316	
ENSG00000174720	1062.390881	869.9502355	833.506513	
636.0846559	448.6062885	613.3363612	921.9492099	
566.0091018	0.703238704	0.000480598	0.007025871	LARP7
4	112636964	112657592	+ 4083	
protein_coding	La ribonucleoprotein domain family member 7			
[Source:HGNC Symbol;Acc:HGNC:24912]	-	1171	983	717
614	393	711	14.04449729	11.40776533
10.92563336	8.356050094	5.9164409	8.096945926	
ENSG00000117461	356.5496296	298.2433666	272.0230461	
110.848629	170.0822824	176.8410043	308.9386808	
152.5906385	1.017625512	0.000483956	0.007069109	PIK3R3
1	46040140	46133036	- 7410	
protein_coding	phosphoinositide-3-kinase regulatory subunit 3			
[Source:HGNC Symbol;Acc:HGNC:8981]	-	393	337	234
107	149	205	2.597185837	2.154954643
1.964737326	0.802375415	1.235991319	1.286372275	
ENSG00000244313	1702.910063	1994.779075	2328.470775	
2901.747754	2919.936096	2835.494542	2008.719971	
2885.726131	-0.523212351	0.000484776	0.007075248	
AC024293.1	11	46428653	46429150	- 498
processed_pseudogene	ribosomal protein S10 (RPS10)			
pseudogene	-	1877	2254 2003 2801	2558 3287
184.571063	214.4623249	250.2409921	312.5329489	
315.7319687	306.9031737			
ENSG00000137710	3633.540119	2589.495818	3379.363226	
2500.827947	2050.119323	1730.453925	3200.799721	
2093.800398	0.612470657	0.000490016	0.007145826	RDX
11	109864295	110296722	- 8528	
protein_coding	radixin [Source:HGNC Symbol;Acc:HGNC:9944]			-
4005	2926	2907	2414 1796	2006 22.99767924
16.25749282	21.2082428	15.72903641	12.94513252	
10.93741662				
ENSG00000152620	1381.743221	1165.538617	1236.891115	
978.9902277	761.3750494	716.8530466	1261.390984	
819.0727746	0.623369276	0.000490921	0.007149889	NADK2
5	36192592	36242279	- 4885	
protein_coding	"NAD kinase 2, mitochondrial [Source:HGNC Symbol;Acc:HGNC:26404]"			-
831	15.26736255	12.77460992	1064 945	667
10.74927773	8.392833858	7.909835905	13.55139195	
ENSG00000260032	7044.803751	6369.310117	6139.118403	
8625.473689	8522.377989	8920.550367	6517.74409	

8689.467348	-0.414828036	0.000491103	0.007149889	NORAD
20	36045622	36050960	- 5339	
lincRNA non-coding RNA activated by DNA damage [Source:HGNC				
Symbol;Acc:HGNC:44311]	-	7765 7197	5281 8326	7466
10341	71.22135349	63.87310413	61.54079372	
86.65398295	85.95584715	90.06035103		
ENSG00000198034	23031.47302	24716.14464	28204.37241	
33438.99108	34962.75321	33278.02645	25317.33002	
33893.25691	-0.420917844	0.000494134	0.007188101	RPS4X
X	72255679	72277300	- 2982	
protein_coding ribosomal protein S4 X-linked [Source:HGNC				
Symbol;Acc:HGNC:10424]	-	25386 27928	24262 32278	30629
38577	416.8840892	443.7707133	506.2042719	
601.4659161	631.3534223	601.5224352		
ENSG00000026751	0 0.884995153	0	15.53952742	
17.12237742	25.87917136	0.294998384		
19.51369207	-5.802118976	0.000497701	0.00723405	SLAMF7
1	160739057	160754821	+ 4833	
protein_coding SLAM family member 7 [Source:HGNC				
Symbol;Acc:HGNC:21394]	-	0 1	0 15	15
30	0 0.009804143	0	0.172459256	
0.190775159	0.288626018			
ENSG00000179933	931.7467421	1032.789344	932.3183032	
1331.219516	1360.658259	1505.305134	965.6181297	
1399.06097	-0.534963269	0.000501783	0.007287382	
C14orf119	14 23094765	23100462	+ 3676	
protein_coding chromosome 14 open reading frame 119				
[Source:HGNC Symbol;Acc:HGNC:20270]	-	1027 1167		802
1285	1192 1745	13.68118213	15.04256145	
13.57393334	19.42404469	19.93187307	22.07247058	
ENSG00000119335	9177.750772	8258.774769	8724.499832	
7077.736757	6352.402024	5915.115933	8720.341791	
6448.418238	0.435517167	0.000504517	0.007321084	SET
9	128683424	128696400	+ 4355	
protein_coding SET nuclear proto-oncogene [Source:HGNC				
Symbol;Acc:HGNC:10760]	-	10116 9332	7505 6832	5565
6857	113.7494603	101.5343544	107.2184153	
87.17094257	78.54605359	73.21111282		
ENSG00000168389	235.8852512	337.1831533	352.2349699	
164.7189907	171.2237742	124.2200225	308.4344581	
153.3875958	1.009170803	0.000513365	0.007443377	MFSD2A
1	39955112	39969968	+ 4007	
protein_coding major facilitator superfamily domain containing 2A				
[Source:HGNC Symbol;Acc:HGNC:25897]	-	260 381		303
159	150 144	3.177479001	4.505386715	
4.704680471	2.204904712	2.301014084	1.670991219	
ENSG00000138385	2345.243747	2072.658649	2073.885103	
1618.182789	1335.545439	1586.393204	2163.929166	
1513.373811	0.515608907	0.000514993	0.007460861	SSB
2	169791933	169812064	+ 5113	

protein_coding	Sjogren syndrome antigen B [Source:HGNC						
Symbol;Acc:HGNC:11316]	-	2585	2342	1784	1562	1170	
1839	24.75787912	21.70388796		21.70830446			
16.97529305	14.06557301	16.72387661					
ENSG00000074695	3090.09679	2379.751967		3683.936039			
2249.087602	2038.704405	1607.95918		3051.261598			
1965.250396	0.634672529	0.000516022		0.007469657		LMAN1	
18	59327823	59359962		-	6767		
protein_coding	"lectin, mannose binding 1 [Source:HGNC						
Symbol;Acc:HGNC:6631]"	-	3406	2689	3169	2171	1786	
1864	24.64774264	18.82873168		29.13619998			
17.82689435	16.22305491	12.80798321					
ENSG00000182551	1582.245685	1522.191663		1777.449733			
1293.92465	963.419103	985.1337897		1627.295694			
1080.825848	0.590071166	0.000517153		0.007479206		ADI1	
2	3497361	3519736	-	5560	protein_coding		
acireductone dioxygenase 1 [Source:HGNC	Symbol;Acc:HGNC:30576]						-
1744	1720	1529	1249	844	1142	15.36032386	
14.65818154	17.10958755	12.48244584		9.330716951			
9.550416909							
ENSG00000145555	4445.529733	3681.579837		4175.670006			
3181.459248	2445.075496	2998.533321		4100.926526			
2875.022688	0.512077957	0.000517552		0.007479206		MY010	
5	16661914	16936276		-	13963		
protein_coding	myosin X [Source:HGNC Symbol;Acc:HGNC:7593]						-
4900	4160	3592	3071	2142	3476	17.18486107	
14.1169551	16.00532276	12.22117948		9.42948749			
11.57529446							
ENSG00000102893	665.922209	527.4571113		606.8206412			
366.7328472	402.9466153	314.8632515		600.0666538			
361.514238	0.732337442	0.000517951		0.007479206		PHKB	
16	47461123	47701523		+	11822		
protein_coding	phosphorylase kinase regulatory subunit beta						
[Source:HGNC	Symbol;Acc:HGNC:8927]						-
354	353	365	3.040421455	2.388810754		522	
2.747175436	1.663889	1.835401619		1.435598274			
ENSG00000107614	349.2916219	299.1283618		288.2979292			
484.8332556	523.9447491	550.3637109		312.2393043			
519.7139052	-0.734479218	0.00052003		0.007503111		TRDMT1	
10	17142254	17202054		-	10535		
protein_coding	tRNA aspartic acid methyltransferase 1 [Source:HGNC						
Symbol;Acc:HGNC:2977]	-	385	338	248	468	459	
638	1.789595476	1.520227559		1.464616719			
2.468444441	2.678092084	2.81589954					
ENSG00000179950	5098.750429	5832.118059		5471.848196			
6332.875409	8061.215291	9112.918874		5467.572228			
7835.669858	-0.519245503	0.000521254		0.007514634		PUF60	
8	143816344	143829859		-	5424		
protein_coding	poly(U) binding splicing factor 60 [Source:HGNC						
Symbol;Acc:HGNC:17042]	-	5620	6590	4707	6113	7062	

10564	50.73939894	57.56946249	53.99224229	
62.62485864	80.03047464	90.56069145		
ENSG00000160606	174.1921855	247.7986429	156.9363727	
363.6249417	299.070859	501.1932853	192.9757337	
387.9630287	-1.006903914	0.00052314	0.007535693	TLCD1
17	28724348	28727935	- 1311	
protein_coding	TLC domain containing 1 [Source:HGNC			
Symbol;Acc:HGNC:25177]	-	192 280	135 351	262
581	7.171784323	10.12002955	6.406752152	
14.87703787	12.28417401	20.6065107		
ENSG00000123219	662.2932052	577.901835	514.9838009	
413.3514295	297.9293672	170.802531	585.0596137	
294.0277759	0.99508458	0.000524344	0.007546878	CENPK
5	65517766	65563171	- 4312	
protein_coding	centromere protein K [Source:HGNC			
Symbol;Acc:HGNC:29479]	-	730 653	443 399	261
198	8.29034858	7.175643764	6.39192721	
5.141693532	3.720566877	2.135096242		
ENSG00000204209	2319.84072	2941.723889	2637.693554	
3325.458869	3705.282474	4363.228291	2633.086054	
3797.989878	-0.52867282	0.000534021	0.007679915	DAXX
6	33318558	33323016	- 3084	
protein_coding	death domain associated protein [Source:HGNC			
Symbol;Acc:HGNC:2681]	-	2557 3324	2269 3210	3246
5058	40.60177706	51.07085005	45.77485456	
57.83659363	64.69660723	76.25976695		
ENSG00000108592	4397.445432	4944.46792	3819.947562	
5506.17255	6154.923938	7068.464337	4387.286971	
6243.186942	-0.508823319	0.000534474	0.007680194	FTSJ3
17	63819433	63830012	- 5212	
protein_coding	FtsJ RNA methyltransferase homolog 3 [Source:HGNC			
Symbol;Acc:HGNC:17136]	-	4847 5587	3286 5315	5392
8194	45.54044775	50.79263051	39.22563643	
56.66447971	63.5905874	73.10087421		
ENSG00000128791	1408.96075	1082.349072	1290.365731	
819.4510795	913.1934625	774.6498627	1260.558518	
835.7648016	0.593330424	0.000545301	0.00782679	TWSG1
18	9334767 9402420 +	4435	protein_coding	
twisted gastrulation BMP signaling modulator 1	[Source:HGNC			
Symbol;Acc:HGNC:12429]	-	1553 1223	1110 791	800
898	17.1477252	13.06650003	15.57170621	
9.910484873	11.0877576	9.414857057		
ENSG00000149823	2359.759763	3165.627663	2750.455244	
3132.768729	4845.632811	4755.729057	2758.614223	
4244.710199	-0.62172145	0.000545561	0.00782679	VPS51
11	65089324	65111860	+ 4878	
protein_coding	"VPS51, GARP complex subunit [Source:HGNC			
Symbol;Acc:HGNC:1172]"	-	2601 3577	2366 3024	4245
5513	26.11122456	34.74590157	30.17725905	
34.44704993	53.49131307	52.55054381		

ENSG00000142621	175.0994364	134.5192633	105.7867401		
227.9130689	297.9293672	344.1929791	138.4684799		
290.011805	-1.064385252	0.000550391	0.007889681	FHAD1	
1	15247272	15400283	+ 12805		
protein_coding	forkhead associated phosphopeptide binding domain 1				
[Source:HGNC Symbol;Acc:HGNC:29408]	-	193	152	91	
220	261	399	0.738085052	0.56245845	
0.442149009	0.954674103	1.252876562	1.448853022		
ENSG00000079931	176.9139384	109.739399	120.8991316		
68.37392066	26.25431205	38.81875704	135.850823		
44.48232992	1.609973303	0.000555748	0.007957047	MOXD1	
6	132296055	132401545	- 5293		
protein_coding	monooxygenase DBH like 1 [Source:HGNC				
Symbol;Acc:HGNC:21063]	-	195	124	104	66
45	1.8041033	1.110059434	1.22247023	23	
0.692873713	0.26709964	0.395313493			
ENSG00000174173	1351.803939	1768.220316	1343.840347		
2300.886027	1930.262681	2403.31238	1487.954868		
2211.48703	-0.571531419	0.000555599	0.007957047		
TRMT10C	3	101561862	101566446	+ 1888	
protein_coding	"tRNA methyltransferase 10C, mitochondrial RNase P				
subunit [Source:HGNC Symbol;Acc:HGNC:26022]"	-	1490	1998		
1156	2221	1691	2786	38.6467486	50.14411084
38.09453623	65.36700882	55.05401259	68.61358955		
ENSG00000165704	2205.527098	1966.45923	2170.37191		
1418.24087	1546.721427	1569.140423	2114.119413		
1511.367573	0.483973579	0.000558804	0.007990858	HPRT1	
X	134460153	134520513	+ 1624		
protein_coding	hypoxanthine phosphoribosyltransferase 1 [Source:HGNC				
Symbol;Acc:HGNC:5157]	-	2431	2222	1867	1369
1819	73.30399054	64.83126124	71.52619785	1355	
46.84135686	51.28621286	52.08080547			
ENSG00000169764	1237.490318	1123.943844	1236.891115		
972.7744167	607.2736526	640.9408106	1199.441759		
740.3296266	0.696094411	0.000559625	0.007994318	UGP2	
2	63840940	63891562	+ 6501		
protein_coding	UDP-glucose pyrophosphorylase 2 [Source:HGNC				
Symbol;Acc:HGNC:12527]	-	1364	1270	1064	939
743	10.27455184	9.256567997	10.18282567	532	
8.025968851	5.030125567	5.314221668			
ENSG00000254995	16.33051739	14.15992245	13.9498998	0	
0	0	14.81344655	0	6.322237469	
0.000560034	0.007994318	STX16-NPEPL1	20	58651434	
58715410	+	3859	protein_coding	STX16-NPEPL1	
readthrough (NMD candidate)	[Source:HGNC Symbol;Acc:HGNC:41993] -				
18	16	12	0	0	0.228415941
0.196458871	0.193469859	0	0	0	
ENSG00000238228	26.31027801	45.13475281	32.5497662		
148.1434948	107.3002318	75.91223598	34.66493234		
110.4519875	-1.668727624	0.000560402	0.007994318	OR7E7P	

7	97946987	97947998	-	1012	
unprocessed_pseudogene	olfactory receptor family 7 subfamily E member				
7	pseudogene [Source:HGNC Symbol;Acc:HGNC:8457]				- 29 51
28	143	94	88	1.403285924	2.387899829
	1.721410174	7.851769985	5.709455617	4.043274043	
ENSG00000158710	30910.04041	38197.2758	48763.03724		
25927.18352	29723.30571	24875.92215	39290.11782		
26842.13713	0.549648674	0.000562391	0.008016224		TAGLN2
1	159918107	159925732	-	2487	
protein_coding	transgelin 2 [Source:HGNC Symbol;Acc:HGNC:11554]				
-	34070	43161	41947	25027	26039 28837
670.8493941	822.3224631	1049.37803	559.1715308		
643.5701263	539.1446628				
ENSG00000134717	2262.683909	2197.442965	2254.071309		
2891.388069	3311.467794	2976.967345	2238.066061		
3059.941069	-0.451119016	0.000565042	0.008047526		BTF3L4
1	52056125	52090716	+	6022	
protein_coding	basic transcription factor 3 like 4 [Source:HGNC				
Symbol;Acc:HGNC:30547]	-	2494	2483	1939	2791 2901
3451	20.28076728	19.53720391	20.03290375		
25.75319575	29.61108615	26.6461965			
ENSG00000115159	1997.766627	1354.927579	1875.099031		
1299.104493	958.8531357	1079.161446	1742.597746		
1112.373025	0.647175413	0.000566014	0.008054884		GPD2
2	156435290	156613735	+	7155	
protein_coding	glycerol-3-phosphate dehydrogenase 2 [Source:HGNC				
Symbol;Acc:HGNC:4456]	-	2202	1531	1613	1254 840
1251	15.07080186	10.13892694	14.02592705		
9.738676554	7.216340353	8.129778061			
ENSG00000101639	840.1143945	641.621486	741.6696726		
567.7107352	366.4188768	315.7258906	741.1351844		
416.6185009	0.831763935	0.000575833	0.008188031		CEP192
18	12991362	13125052	+	9901	
protein_coding	centrosomal protein 192 [Source:HGNC				
Symbol;Acc:HGNC:25515]	-	926	725	638	548 321
366	4.57994866	3.469647757	4.009114546		
3.075484493	1.992844132	1.718830467			
ENSG00000090520	1534.161383	1362.007541	1428.702238		
1222.442824	622.1130464	603.8473317	1441.623721		
816.1344007	0.82111372	0.000578075	0.008213303		
DNAJB11	3	186567403	186585800	+	5731
protein_coding	DnaJ heat shock protein family (Hsp40) member B11				
[Source:HGNC Symbol;Acc:HGNC:14889]	-		1691	1539	1229
1180	545	700	14.44913613	12.72432204	
13.34222687	11.44099096	5.845389485	5.679350209		
ENSG00000113810	6316.281225	3633.790099	4498.842685		
2621.000292	1430.289261	1274.11787	4816.30467		
1775.135808	1.440065872	0.000582672	0.008271976		SMC4
3	160399274	160434962	+	8457	
protein_coding	structural maintenance of chromosomes 4 [Source:HGNC				

Symbol;Acc:HGNC:14013]	-	6962	4106	3870	2530	1253
1477	40.31311634	23.00536114		28.47091869		
16.6232614	9.10714184	8.120732088				
ENSG00000121005	215.0184789	140.7142293		161.5863393		
92.20119605	62.78205055	51.75834272		172.4396825		
68.9138631	1.325717864	0.000585329		0.008303039		
CRISPLD1	8	74984515	75034558	+		4543
protein_coding	cysteine rich secretory protein LCCL domain					
containing 1 [Source:HGNC Symbol;Acc:HGNC:18206]	-					237
159	139	89	55	60	2.554666969	
1.658367692	1.903614087	1.0885774			0.744161698	
0.614100614						
ENSG00000204291	56.24955989	100.0044523		131.3615564		
40.4027713	17.12237742	9.489029498		95.87185621		
22.33805941	2.105585972	0.000588548		0.008340175		
COL15A1 9	98943179	99070792		+	6653	
protein_coding	collagen type XV alpha 1 chain [Source:HGNC					
Symbol;Acc:HGNC:2192]	-	62	113	113	39	15
11	0.456355038	0.804798875		1.056739075		
0.325731026	0.138586554	0.076878726				
ENSG00000276180	106.148363	120.3593408		112.76169		
269.3518087	220.3079228	205.3080928		113.089798		
231.6559414	-1.03389022	0.00058889		0.008340175		
HIST1H4I	6	27138588	27139881	+		1294
protein_coding	histone cluster 1 H4 family member i					
[Source:HGNC Symbol;Acc:HGNC:4793]	-			117	136	97
260	193	238	4.427721221	4.980019839		
4.663847105	11.16480431	9.16791109		8.552118282		
ENSG00000080845	1245.655576	1174.388568		1585.63861		
999.7095976	826.4400836	755.6718037		1335.227585		
860.6071616	0.633296705	0.000589631		0.008343986		DLGAP4
20	36306336	36528637		+	8789	
protein_coding	DLG associated protein 4 [Source:HGNC					
Symbol;Acc:HGNC:24476]	-	1373	1327	1364	965	724
876	7.649970428	7.154147653		9.65565528		
6.100984091	5.063449255	4.634422882				
ENSG00000202111	30.84653284	56.6396898		37.1997328		
90.12925906	94.74382174	216.5224004		41.56198515		
133.7984937	-1.687512232	0.000595333		0.008417946		
VTRNA1-2	5	140718925	140719013	+		89
misc_RNA	vault RNA 1-2 [Source:HGNC					
Symbol;Acc:HGNC:12655]	-	34	64	32	87	83
251	18.70757926	34.07347348		22.37004297		
54.31768968	57.32386254	131.1338261				
ENSG00000138119	3404.912875	2566.485944		3335.188544		
2659.331126	1511.335181	1361.244413		3102.195788		
1843.97024	0.75057001	0.000596306		0.008422294		MYOF
10	93306429	93482317		-	8473	
protein_coding	myoferlin [Source:HGNC Symbol;Acc:HGNC:3656]					-
3753	2900	2869	2567	1324	1578	21.69052389



	16.21762419	21.0668784	16.83451876	9.605017023	
	8.659659397				
ENSG00000140465	3.629003864	7.964956378	0	26.93518087	
	46.80116496	44.85723035	3.864653414	39.53119206	
	-3.313219831	0.000596593	0.008422294	CYP1A1	15
	74719542	74725610	-	3435	protein_coding
	cytochrome P450 family 1 subfamily A member 1 [Source:HGNC				
Symbol;Acc:HGNC:2595]	-	4	9	0	26 41
	52	0.057024559	0.124148709	0	0.420589717
	0.733676275	0.703894579			
ENSG00000106803	686.7889812	858.4452985	891.6310955		
454.7901693	438.332862	598.6714974	812.2884584		
497.2648429	0.706015048	0.00060186	0.008481317	SEC61B	
	9	99222064	99230615	+	1190
	protein_coding Sec61 translocon beta subunit [Source:HGNC				
Symbol;Acc:HGNC:16993]	-	757	970	767	439 384
	694	31.15140231	38.62346331	40.10100428	
20.49885496	19.83497344	27.11711777			
ENSG00000151640	420.0571972	434.5326202	476.6215765		
562.5308927	738.5452128	975.6447602	443.7371313		
758.9069553	-0.77569211	0.000602112	0.008481317	DPYSL4	
	10	132186900	132205776	+	3176
	protein_coding dihydropyrimidinase like 4 [Source:HGNC				
Symbol;Acc:HGNC:3016]	-	463	491	410	543 647
	1131	7.13886519	7.325334135	8.031750511	
9.500170059	12.52192641	16.5582002			
ENSG00000166794	2074.882959	2445.241608	3195.689546		
1760.110473	1860.63168	1266.354118	2571.938038		
1629.03209	0.658989395	0.000602212	0.008481317	PPIB	
	15	64155812	64163205	-	1911
	protein_coding peptidylprolyl isomerase B [Source:HGNC				
Symbol;Acc:HGNC:9255]	-	2287	2763	2749	1699 1630
	1468	58.60493129	68.50884389	89.49955983	
49.40202322	52.42932634	35.71876107			
ENSG00000178252	4136.157154	4349.751178	3761.822979		
4807.929785	6028.218345	6419.759775	4082.577104		
5751.969301	-0.494491903	0.000606129	0.008529681	WDR6	
	3	49007062	49015953	+	5304
	protein_coding WD repeat domain 6 [Source:HGNC Symbol;Acc:HGNC:12758]				
	-	4559	4915	3236	4641 5281 7442
42.09153465	43.90828228	37.9587449	48.62057568		
61.20121052	65.24048312				
ENSG00000050344	200.5024635	232.7537253	176.6987308		
104.632818	90.17785443	90.57709975	203.3183065		
95.12925739	1.097192652	0.000611839	0.008603192	NFE2L3	
	7	26152240	26187125	+	4249
	protein_coding "nuclear factor, erythroid 2 like 3 [Source:HGNC				
Symbol;Acc:HGNC:7783]"	TF_bZIP	221	263	152	101 79
	105	2.547030973	2.932887862	2.225685023	
1.320829276	1.142846021	1.149035869			

ENSG00000089157	30715.8887		37099.88181		42573.93169		
44408.86147	57907.88044		55167.49222		36796.5674		
52494.74471	-0.5126331		0.000612577		0.00860673		RPLP0
12	120196686		120201235		-	4001	
protein_coding	ribosomal protein lateral stalk subunit P0						
[Source:HGNC Symbol;Acc:HGNC:10371]			-		33856	41921	36623
42867	50730	63952	414.3771301		496.4660135		
569.4980118	595.3420838		779.3699758		743.2186475		
ENSG00000122203	1710.168071		1910.704536		1951.82348		
2264.62713	2691.637731		3101.187368		1857.565362		
2685.817409	-0.53240491		0.000617185		0.008664588		
KIAA1191	5	176346061		176361968		-	3973
protein_coding	KIAA1191 [Source:HGNC Symbol;Acc:HGNC:29209]						
-	1885	2159	1679	2186	2358	3595	
23.23386561	25.74900894		26.29292955		30.57339281		
36.48149237	42.07376218						
ENSG00000137509	1232.046812		1315.102798		1737.925017		
1102.270479	784.204886		800.529034		1428.358209		
895.6681328	0.67273092		0.000619188		0.008685815		PRCP
11	82823502		82970584		-	12798	
protein_coding	prolylcarboxypeptidase [Source:HGNC						
Symbol;Acc:HGNC:9344]			-	1358	1486	1495	1064
928	5.196205852		5.501779039		7.267849633		687
4.619676514	3.299605292		3.371606547				
ENSG00000087111	1233.861314		1493.871818		1531.001503		
969.6665112	954.2871684		996.3480973		1419.578212		
973.4339256	0.54378817		0.000620612		0.008698893		PIGS
17	28553383		28571872		-	5990	
protein_coding	phosphatidylinositol glycan anchor biosynthesis class						
S [Source:HGNC Symbol;Acc:HGNC:14937]			-		1360	1688	1317
936	836	1155	11.11836096		13.35279129		
13.67936063	8.682825439		8.578805376		8.965740815		
ENSG00000141458	4083.536598		3530.245666		3230.564295		
6587.723659	4774.860317		4613.393614		3614.782186		
5325.325863	-0.558719725		0.000622173		0.008713872		NPC1
18	23506184		23586898		-	10102	
protein_coding	NPC intracellular cholesterol transporter 1						
[Source:HGNC Symbol;Acc:HGNC:7897]			-		4501	3989	2779
6359	4183	5348	21.81877342		18.71040176		
17.11543846	34.97788169		25.45234847		24.61586223		
ENSG00000168495	2093.027979		2568.255934		2318.00835		
3023.992037	3377.67432		3294.418514		2326.430754		
3232.02829	-0.474258484		0.000623815		0.008729952		POLR3D
8	22245104		22254600		+	5611	
protein_coding	RNA polymerase III subunit D [Source:HGNC						
Symbol;Acc:HGNC:1080]			-	2307	2902	1994	2919
3819	20.13427562		24.50662923		22.11015219		2959
28.90718953	32.41545013		31.64757282				
ENSG00000136938	3334.1473		3466.526015		3644.411322		
2771.215724	2429.09461		2461.971835		3481.694879		

2554.094056	0.4468601	0.000629407	0.008801254	ANP32B
9	97983361	98015943	+ 1850	
protein_coding	acidic nuclear phosphoprotein 32 family member B			
[Source:HGNC Symbol;Acc:HGNC:16677]	-	3675	3917	3135
2675	2128 2854	97.27792507	100.3247957	
105.432053	80.34597062	70.70453256	71.73205264	
ENSG00000128050	7692.580941	6876.41234	7242.322979	
6189.911757	4748.606005	4423.613024	7270.438753	
5120.710262	0.505792302	0.000631639	0.008825482	PAICS
4	56435741	56464579	+ 7517	
protein_coding	phosphoribosylaminoimidazole carboxylase and phosphoribosylaminoimidazolesuccinocarboxamide synthase [Source:HGNC Symbol;Acc:HGNC:8587]	-	8479 7770	6230 5975 4160
5128	55.23683277	48.97821005	51.56444444	
44.16776293	34.01701023	31.72009537		
ENSG00000007376	1405.331746	1924.864458	1578.663661	
1657.549592	3054.632132	3833.567917	1636.286622	
2848.583214	-0.799947996	0.000636008	0.008879518	RPUSD1
16	784974 788397	- 2769	protein_coding	RNA
pseudouridylate synthase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:14173]	-	1549 2175	1358 1600	2676
4444	27.39410686	37.21883255	30.5129123	
32.10769069	59.40329203	74.62461656		
ENSG00000260442	15.42326642	71.6846074	37.1997328	0
0	7.763751407	41.43586887	2.587917136	
3.931104807	0.000639224	0.008917381	ATP2A1-AS1	16
28878957	28879920	-	583	antisense
ATP2A1 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:51370]	-	32 0	0 9	
1.427937011	6.583288762	3.41498083	0 0	
0.71780251				
ENSG00000133316	1073.277893	1477.941906	1245.028557	
1424.45668	2139.155686	2746.64272	1265.416118	
2103.418362	-0.733388802	0.000642935	0.008956574	WDR74
11	62832342	62841809	- 4247	
protein_coding	WD repeat domain 74 [Source:HGNC Symbol;Acc:HGNC:25529]	-	1183 1670	1071 1375 1874
3184	13.64052755	18.63205043	15.68967893	
17.99005457	27.12281026	34.85955318		
ENSG00000108100	2033.149415	1953.184303	2078.53507	
2386.871412	3205.309054	3078.758753	2021.622929	
2890.313073	-0.515824604	0.000643046	0.008956574	CCNY
10	35247025	35572669	+ 5743	
protein_coding	cyclin Y [Source:HGNC Symbol;Acc:HGNC:23354]	-		
2241	2207 1788	2304 2808	3569	19.10872559
18.20916192	19.37026422	22.29234225	30.05423289	
28.89606794				
ENSG00000089737	3135.459338	3160.317692	3496.774883	
4069.284248	4625.324888	4586.651804	3264.183971	
4427.08698	-0.439880552	0.000648468	0.009024982	DDX24

14	94048291	94081245	-	8636	
protein_coding	DEAD-box helicase 24 [Source:HGNC				
Symbol;Acc:HGNC:13266]	-	3456	3571	3008	3928 4052
5317	19.59700862	19.59312266		21.67065533	
25.27382006	28.8405915	28.62760688			
ENSG00000182919	283.9695524	272.5785072		318.5227121	
517.9842475	534.2181756	422.6931322		291.6902572	
491.6318517	-0.753329293	0.000649162		0.009027538	
C11orf54	11	93741591	93764749	+	6269
protein_coding	chromosome 11 open reading frame 54				
[Source:HGNC Symbol;Acc:HGNC:30204]	-		313	308	274
500	468	490	2.444976849	2.327978084	
2.719312629	4.431836992	4.588755768		3.634367401	
ENSG00000173083	137.9021468	148.6791857		129.0365731	
73.55376314	39.95221399	42.26931322		138.5393019	
51.92509678	1.41699005	0.000653585		0.00908191	HPSE
4	83292461	83335153	-	4721	
protein_coding	heparanase [Source:HGNC Symbol;Acc:HGNC:5164]				-
152	168	111	71	35	49 1.576660804
1.686171413	1.462836624	0.835673041		0.455702493	
0.482606423					
ENSG00000113645	507.15329	455.7725039		623.0955243	
395.7399651	220.3079228	173.3904481		528.6737727	
263.146112	1.007017769	0.000654634		0.009089347	WWC1
5	168291651	168472303		+	10076
protein_coding	WW and C2 domain containing 1 [Source:HGNC				
Symbol;Acc:HGNC:29435]	-	559	515	536	382 193
201	2.71676662	2.421840352		3.309660734	
2.106625068	1.17737961	0.927553389			
ENSG00000177700	531.6490661	1041.639295		1054.379926	
336.6897608	530.7937001	527.0724567		875.8894292	
464.8519725	0.913299282	0.000657728		0.009125141	POLR2L
11	837356	842545	-	1142	protein_coding RNA
polymerase II subunit L	[Source:HGNC Symbol;Acc:HGNC:9199]				-
586	1177	907	325	465	611 25.12813147
48.83563057	49.41377459	15.81354726		25.02846466	
24.87746503					
ENSG00000188191	255.8447724	432.7626299		301.0853373	
426.8190199	591.292767	965.2930917		329.8975799	
661.1349595	-1.00332504	0.000665831		0.009222056	
PRKAR1B 7	549197	727650	-	4491	protein_coding
protein kinase cAMP-dependent type I regulatory	subunit beta				
[Source:HGNC Symbol;Acc:HGNC:9390]	-			282	489 259
412	518	1119	3.074926482	5.159317382	
3.588091881	5.097605288	7.089801319		11.58558718	
ENSG00000196372	662.2932052	745.1659189		675.4076486	
971.7384482	991.9563987	1137.820901		694.2889242	
1033.838583	-0.574616307	0.000666208		0.009222056	ASB13
10	5638867	5666595	-	3003	protein_coding
ankyrin repeat and SOCS box containing 13	[Source:HGNC				

Symbol;Acc:HGNC:19765]	-	730	842	581	938	869	
1319	11.90409027	13.28566202		12.03726015			
17.35639598	17.78737268	20.4230444					
ENSG00000100418	926.3032363	1237.223224		1012.530227			
1214.155076	1756.755924	2314.460558		1058.685562			
1761.790519	-0.735015656	0.000666278		0.009222056		DESI1	
22	41598028	41621096		-	4972		
protein_coding	desumoylating isopeptidase 1	[Source:HGNC					
Symbol;Acc:HGNC:24577]	-	1021	1398	871	1172	1539	
2683	10.05595464	13.32301425		10.89918142			
13.09810704	19.02632277	25.09115024					
ENSG00000180104	1089.60841	1229.258268		1106.692051			
1513.549971	1902.866878	1566.552506		1141.85291			
1660.989785	-0.54004217	0.000667841		0.009236464		EXOC3	
5	443158	471937	+	8182	protein_coding		
exocyst complex component 3	[Source:HGNC Symbol;Acc:HGNC:30378]				-		
1201	1389	952	1461	1667	1816	7.188068643	
8.043947203	7.239095731	9.922081372		12.52343554			
10.32018273							
ENSG00000049323	1469.746565	1128.36882		1617.025885			
999.7095976	941.7307582	791.9026436		1405.04709			
911.1143331	0.624873456	0.00067118		0.009275389		LTBP1	
2	32946972	33399509		+	7329		
protein_coding	latent transforming growth factor beta binding protein	1 [Source:HGNC Symbol;Acc:HGNC:6714]				-	
965	825	918	10.82427896	8.243125347	1391		
11.80835103	7.316352732	6.9192112		5.824102071			
ENSG00000144713	13571.5672	18481.35378		18205.78173			
20616.80902	24564.90414	26383.8152		16752.9009			
23855.17612	-0.509945493	0.000682564		0.009425346		RPL32	
3	12834485	12841588		-	3720		
protein_coding	ribosomal protein L32	[Source:HGNC					
Symbol;Acc:HGNC:10336]	-	14959	20883	15661	19901	21520	
30585	196.9193102	265.9967862		261.9288863			
297.2651541	355.587665	382.2931912					
ENSG00000163527	5451.671055	4670.119423		5261.437207			
4426.693379	3031.802296	2835.494542		5127.742562			
3431.330072	0.579636149	0.000685931		0.009464455		STT3B	
3	31532638	31637622		+	5012		
protein_coding	"STT3B, catalytic subunit of the	oligosaccharyltransferase complex [Source:HGNC					
Symbol;Acc:HGNC:30611]"	-	6009	5277	4526	4273	2656	
3287	58.711047	49.88873279		56.18369967			
47.3733257	32.57349571	30.49436961					
ENSG00000127022	12744.15432	10105.75965		12867.62007			
10158.70706	7340.933947	5874.571898		11905.84468			
7791.404302	0.611769398	0.000686958		0.009471233		CANX	
5	179678628	179730925		+	6235		
protein_coding	calnexin	[Source:HGNC Symbol;Acc:HGNC:1473]				-	
14047	11419	11069	9806	6431	6810	110.3254756	

	86.77968232	110.4533205	87.3911541	63.40002249	
	50.78572682				
ENSG00000142039	1098.68092	1242.533195	1025.317635		
1409.953122	1892.593451	1690.772529	1122.17725		
1664.4397	-0.568055383	0.000688888	0.009490456	CCDC97	
19	41310189	41324883	+ 3821		
protein_coding	coiled-coil domain containing 97		[Source:HGNC		
Symbol;Acc:HGNC:28289]	-	1211 1404	882 1361	1658	
1960	15.52014552	17.41071117	14.36145342		
19.79215718	26.67195494	23.85118999			
ENSG00000197063	1375.392464	1687.685757	1429.864729		
1800.513244	2377.727478	2486.988368	1497.64765		
2221.74303	-0.568911067	0.000692735	0.009536027	MAFG	
17	81918270	81927714	- 5220		
protein_coding	MAF bZIP transcription factor G		[Source:HGNC		
Symbol;Acc:HGNC:6781]	TF_bZIP	1516 1907	1230 1738	2083	
2883	14.22189218	17.31038116	14.66025266		
18.50083427	24.52822533	25.68059948			
ENSG00000135317	1163.095738	897.3850853	976.4929859		
793.5518671	555.9065203	422.6931322	1012.324603		
590.7171732	0.778137399	0.000694582	0.009554011	SNX14	
6	85505496	85594156	- 7105		
protein_coding	sorting nexin 14		[Source:HGNC		
-	1282 1014	840 766	487 490		
8.835937321	6.762391554	7.355666838	5.990688404		
4.213201587	3.206734586				
ENSG00000184060	1.814501932	3.539980612	11.6249165		
53.87036173	61.64055872	19.84069804	5.659799681		
45.11720617	-3.028478763	0.00069513	0.009554119	ADAP2	
17	30906344	30959322	+ 3750		
protein_coding	ArfGAP with dual PH domains 2		[Source:HGNC		
Symbol;Acc:HGNC:16487]	-	2 4	10 52	54	
23	0.026117248	0.050542319	0.165911152		
0.770520361	0.88513569	0.285185596			
ENSG00000197712	1151.301476	987.6545909	1474.039412		
912.688244	698.5929988	579.6934384	1204.331826		
730.3248938	0.721496563	0.000697782	0.009578958		
FAM114A1	4 38867677	38945739	+ 4871		
protein_coding	family with sequence similarity 114 member A1				
[Source:HGNC	Symbol;Acc:HGNC:25087]	-	1269 1116	1268	
881	612 672	12.75769385	10.85606677		
16.19600755	10.05008703	7.722904292	6.414785836		
ENSG00000115255	287.5985562	382.3179061	259.2356379		
484.8332556	535.3596674	575.3802432	309.7173668		
531.8577221	-0.778549923	0.00069802	0.009578958	REEP6	
19	1490747 1497927	+ 2449	protein_coding		
receptor accessory protein 6		[Source:HGNC	Symbol;Acc:HGNC:30078]		
-	317 432	223 468	469 667		
6.338684862	8.35836635	5.665300158	10.61864524		
11.77148945	12.66391733				

ENSG00000104419	7076.557535	8862.341463	17915.15882			
25812.19102	40509.262	34952.40884	11284.68594			
33757.95395	-1.580903027	0.00069876	0.009579106			NDRG1
8	133237171	133302022	-		9823	
protein_coding	N-myc downstream regulated 1 [Source:HGNC					
Symbol;Acc:HGNC:7679]	-	7800	10014	15411	24916	35488
40518	38.88473488	48.30475501	97.6098225			
140.9438796	222.0673656	191.793937				
ENSG00000132275	728.5225257	905.3500416	669.5951903			
1037.004463	1322.989029	1188.716604	767.8225859			
1182.903366	-0.622360045	0.000699645	0.009579106			RRP8
11	6595075	6603620	-	6922	protein_coding	
ribosomal RNA processing 8	[Source:HGNC Symbol;Acc:HGNC:29030] -					
803	1023	576	1001	1159	1378	5.680840998
7.002779949	5.17723329	8.035529988	10.29198634			
9.256539117						
ENSG00000177030	1258.35709	1415.992245	1190.391449			
1675.161056	1828.669909	2050.493011	1288.246928			
1851.441325	-0.523079295	0.000699655	0.009579106			DEAF1
11	644233	706715	-	4452		
protein_coding	"DEAF1, transcription factor [Source:HGNC					
Symbol;Acc:HGNC:14677]"	SAND	1387	1600	1024	1617	1602
2377	15.25632701	17.02908322	14.31039586			
20.18212575	22.11845136	24.82590243				
ENSG00000055163	129.7368881	121.244336	117.4116566			
269.3518087	198.6195781	270.8686602	122.7976269			
246.2800157	-1.004568513	0.000700635	0.009585094			CYFIP2
5	157266079	157395595	+	10498		
protein_coding	cytoplasmic FMR1 interacting protein 2 [Source:HGNC					
Symbol;Acc:HGNC:13760]	-	143	137	101	260	174
314	0.667049638	0.618358649	0.598579242			
1.376191348	1.018802589	1.390766105				
ENSG00000150637	9.979760626	7.964956378	26.73730795			0
0	0	14.89400832	0	6.325289135		
0.000702673	0.009605548	CD226	18	69831158		
69961803	-	13638	protein_coding	CD226 molecule		
[Source:HGNC Symbol;Acc:HGNC:16961]	-			11	9	23
0	0	0	0.039497598	0.031269308		
0.104926213	0	0	0			
ENSG00000187624	9.979760626	34.51481097	27.8997996			
70.44585765	99.30978905	103.5166854	24.13145706			
91.09077738	-1.919120386	0.000703693	0.009612065			
C17orf97	17	410327	431062	+	2710	protein_coding
chromosome 17 open reading frame 97	[Source:HGNC					
Symbol;Acc:HGNC:33800]	-	11	39	24	68	87
120	0.198770568	0.681901675	0.550996446			
1.394285354	1.973319111	2.058936598				
ENSG00000145425	17160.65202	18976.06607	24834.30912			
26950.72039	30827.12831	28439.48404	20323.67574			
28739.11092	-0.499931683	0.000704977	0.009622178			RPS3A

4	151099573	151104652	+	2341	
protein_coding	ribosomal protein S3A [Source:HGNC				
Symbol;Acc:HGNC:10421]	-	18915 21442	21363 26015	27006	
32968	395.6704487	434.0005889	567.7637666		
617.4964429	709.0979173	654.8204078			
ENSG00000163877	800.195352	821.2755021	823.0440881		
1017.321062	1263.631454	1383.673029	814.8383141		
1221.541848	-0.584543125	0.000707863	0.009654122	SNIP1	
1	37534449	37554344	- 5769		
protein_coding	Smad nuclear interacting protein 1 [Source:HGNC				
Symbol;Acc:HGNC:30587]	-	882 928	708 982	1107	
1604	7.486808586	7.622086588	7.635536637		
9.458515774	11.79490486	12.92810418			
ENSG00000172216	2529.415693	4209.921943	4101.270541		
4054.780689	6528.191765	7401.443008	3613.536059		
5994.805154	-0.730498597	0.000709624	0.009664252	CEBPB	
20	50190734	50192689	+ 1956		
protein_coding	CCAAT enhancer binding protein beta [Source:HGNC				
Symbol;Acc:HGNC:1834]	C/EBP	2788 4757	3528 3914	5719	
8580	69.79954675	115.2366811	112.2190461		
111.1895607	179.7209089	203.9620909			
ENSG00000162385	611.4871511	964.6447169	848.6189044		
391.5960911	497.6904371	545.1878766	808.2502575		
478.1581349	0.756616517	0.000709699	0.009664252	MAGOH	
1	53226892	53238610	- 1463		
protein_coding	"mago homolog, exon junction complex subunit				
[Source:HGNC Symbol;Acc:HGNC:6815]"	-	674 1090	730		
378	436 632	22.56026797	35.30275613		
31.04455083	14.35686172	18.31848374	20.08647693		
ENSG00000117360	1839.904959	2079.73861	1902.998831		
2477.000671	2848.022111	2710.41188	1940.8808		
2678.478221	-0.46452195	0.000710497	0.009667672	PRPF3	
1	150321476	150353195	+ 5373		
protein_coding	pre-mRNA processing factor 3 [Source:HGNC				
Symbol;Acc:HGNC:17348]	-	2028 2350	1637 2391	2495	
3142	18.48331196	20.7241851	18.95565018		
24.72719076	28.54309543	27.19069812			
ENSG00000151725	1306.441391	1152.263689	1038.105043		
836.0265754	783.0633941	738.4190228	1165.603375		
785.8363308	0.569639119	0.00071851	0.009762564	CENPU	
4	184694618	184734133	- 2953		
protein_coding	centromere protein U [Source:HGNC				
Symbol;Acc:HGNC:21348]	-	1440 1302	893 807	686	
856	23.87963744	20.89170949	18.81459432		
15.18525647	14.27933653	13.47849295			
ENSG00000145916	401.004927	522.1471403	431.2844021		
640.2285298	722.5643272	810.8807026	451.4788231		
724.5578532	-0.682393278	0.000718679	0.009762564	RMND5B	
5	178130996	178150565	+ 7701		
protein_coding	required for meiotic nuclear division 5 homolog B				



[Source:HGNC Symbol;Acc:HGNC:26181]	-	442	590	371
618	633	940	2.810630984	3.630206492
2.997323597	4.459163488	5.052472366	5.675599586	
ENSG00000122970	605.1363943	301.7833472	404.5470942	
261.0640607	186.063168	216.5224004	437.1556119	
221.216543	0.982457655	0.000719126	0.009762564	IFT81
12	110124335	110218797	+ 7005	
protein_coding	intraflagellar transport	81	[Source:HGNC	
Symbol;Acc:HGNC:14313]	-	667	341	348
251	4.662795599	2.306602085	3.090850155	163
1.99896157	1.430298967	1.666082873		
ENSG00000103316	42.6407954	30.08983521	22.08734135	
84.94941658	141.5449867	81.9507093	31.60599065	
102.8150375	-1.693835079	0.000720876	0.009778819	CRYM
16	21238874	21303083	- 3782	
protein_coding	crystallin mu	[Source:HGNC Symbol;Acc:HGNC:2418]		
-	47	34	19	82
0.608562261	0.425974727	0.312563976	1.204770629	
2.01533627	1.167973795			
ENSG00000182492	8521.808323	7928.671577	16384.15731	
2868.596762	4668.701577	1695.085724	10944.87907	
3077.461355	1.83051108	0.000723602	0.009804776	BGN
X	153494939	153509554	+ 2453	
protein_coding	biglycan	[Source:HGNC Symbol;Acc:HGNC:1044]		-
9393	8959	14094	2769	4090
173.0567045	357.4732638	62.72453511	1965	187.5147597
37.2474053			102.488024	
ENSG00000170035	1665.712774	1439.887114	1828.599365	
1138.529376	1065.011876	1205.106746	1644.733084	
1136.215999	0.532699806	0.00072417	0.009804776	UBE2E3
2	180967248	181076585	+ 2973	
protein_coding	ubiquitin conjugating enzyme	E2 E3	[Source:HGNC	
Symbol;Acc:HGNC:12479]	-	1836	1627	1573
1397	30.24171743	25.93098922	32.91854719	933
20.54068047	19.29008293	21.84904781		
ENSG00000196369	273.9897917	359.3080322	356.8849365	
209.265636	166.6578069	144.9233596	330.0609201	
173.6156008	0.9275593	0.000724453	0.009804776	
SRGAP2B 1	144887265	145095528	- 7230	
protein_coding	SLIT-ROBO Rho GTPase activating	protein 2B		
[Source:HGNC Symbol;Acc:HGNC:35237]	-	302	406	307
202	146	168	2.045489852	2.660811918
2.641842514	1.552476789	1.241257594	1.080443354	
ENSG00000004776	175.0994364	108.8544038	86.02438209	
42.47470829	47.94265678	38.81875704	123.3260741	
43.07870737	1.521628837	0.000728628	0.009853752	HSPB6
19	35754569	35758079	- 1721	
protein_coding	heat shock protein family B (small) member 6			
[Source:HGNC Symbol;Acc:HGNC:26511]	-	193	123	74
41	42	45	5.491678726	3.386496896

2.675208872	1.323777606	1.500084696	1.215801463	
ENSG00000185624	10476.93416	11344.75287	14399.78407	
9406.593934	8564.613187	7669.723752	12073.8237	
8546.976957	0.498332573	0.00073154	0.009885569	P4HB
17	81843159	81860694	- 5303	
protein_coding	prolyl 4-hydroxylase subunit beta [Source:HGNC			
Symbol;Acc:HGNC:8548]	-	11548 12819	12387 9080	7503
8891	106.6384519	114.5404701	145.3286894	
95.14287377	86.96823966	77.95787658		
ENSG00000129682	34.47553671	18.58489822	9.299933199	
49.72648776	113.007691	99.20349021	20.78678937	
87.31255632	-2.059458962	0.000733225	0.009900138	FGF13
X	138614731	139222777	- 20681	
protein_coding	fibroblast growth factor 13 [Source:HGNC			
Symbol;Acc:HGNC:3670]	-	38 21	8 48	99
115	0.089978914	0.048114303	0.024067185	
0.128967935	0.294246307	0.25855761		
ENSG00000136859	118.8498765	133.6342681	224.3608884	
81.8415111	15.98088559	43.13195226	158.9483444	
46.98478299	1.753800709	0.000733737	0.009900138	
ANGPTL2 9	127087332	127122883	- 3889	
protein_coding	angiopoietin like 2 [Source:HGNC			
-	131 151	193 79	14 50	
1.649536904	1.8397781	3.087636829	1.128758911	
0.2212776	0.597809868			
ENSG00000168243	736.6877844	549.5819901	835.8314963	
486.9051926	423.4934683	299.3357487	707.3670902	
403.2448032	0.811377074	0.000737236	0.009939766	GNG4
1	235547687	235650754	- 5401	
protein_coding	G protein subunit gamma 4 [Source:HGNC			
Symbol;Acc:HGNC:4407]	-	812 621	719 470	371
347	7.362249573	5.448084862	8.282502196	
4.835436944	4.222280607	2.987351429		
ENSG00000117724	4411.054197	2724.900076	3022.47829	
1616.110852	638.0939319	496.017451	3386.144188	
916.740745	1.885180481	0.000742717	0.01000603	CENPF
1	214603195	214664588	+ 11690	
protein_coding	centromere protein F [Source:HGNC			
Symbol;Acc:HGNC:1857]	-	4862 3079	2600 1560	559
575	20.36709677	12.48020211	13.83775648	
7.415187394	2.939305024	2.287095775		
ENSG00000140379	2.721752898	17.69990306	16.2748831	
78.73360561	79.90442797	39.68139608	12.23217969	
66.10647656	-2.439165403	0.000744742	0.010025682	BCL2A1
15	79960889	79971446	- 1089	
protein_coding	BCL2 related protein A1 [Source:HGNC			
Symbol;Acc:HGNC:991]	-	3 20	14 76	70
46	0.13490314	0.870218991	0.799847152	
3.877910273	3.951095441	1.964088126		
ENSG00000138336	86.18884177	76.10958317	127.8740815	

29.00711786	37.66923033	25.01653231	96.72416881	
30.5642935	1.664136661	0.000748148	0.010063871	TET1
10	68560656	68694482	+ 9288	
protein_coding	tet methylcytosine dioxygenase 1 [Source:HGNC			
Symbol;Acc:HGNC:29484]	-	95 86	110 28	33
29	0.500875838	0.438735408	0.736847009	
0.16751275	0.218393191	0.145180006		
ENSG00000102384	938.0974988	650.4714375	743.9946559	
615.365286	279.6654979	181.1541995	777.5211974	
358.7283278	1.117106016	0.000749971	0.010071164	CENPI
X	101098218	101163681	+ 4321	
protein_coding	centromere protein I [Source:HGNC			
Symbol;Acc:HGNC:3968]	-	1034 735	640 594	245
210	11.71830928	8.059897404	9.215153086	
7.638607982	3.48521182	2.259779406		
ENSG00000124207	7864.051373	6432.144773	7281.847695	
6281.076985	4116.219532	3925.007656	7192.68128	
4774.101391	0.591357685	0.000750481	0.010071164	CSE1L
20	49046246	49096960	+ 3800	
protein_coding	chromosome segregation 1 like [Source:HGNC			
Symbol;Acc:HGNC:2431]	-	8668 7268	6264 6063	3606
4550	111.702782	90.62703317	102.5592884	
88.65760912	58.32966551	55.67481956		
ENSG00000165271	3096.447547	3521.395714	2862.054442	
3794.752597	4393.602047	5909.940099	3159.965901	
4699.431581	-0.572637629	0.00075072	0.010071164	NOL6
9	33461441	33473930	- 5906	
protein_coding	nucleolar protein 6 [Source:HGNC			
Symbol;Acc:HGNC:19910]	-	3413 3979	2462 3663	3849
6851	28.29902867	31.92323812	25.93590774	
34.4631936	40.05915911	53.93759066		
ENSG00000189369	361.9931354	369.927974	395.247161	
572.8905777	741.9696883	533.973569	375.7227568	
616.277945	-0.713343448	0.000750968	0.010071164	GSPT2
X	51743431	51746232	+ 2802	
protein_coding	G1 to S phase transition 2 [Source:HGNC			
Symbol;Acc:HGNC:4622]	-	399 418	340 553	650
619	6.973221304	7.068619292	7.549490322	
10.96652528	14.25911547	10.27196512		
ENSG00000004660	430.9442088	596.4867332	381.2972612	
642.3004668	737.403721	1155.936321	469.5760677	
845.2135028	-0.847735233	0.000753204	0.0100935	CAMKK1
17	3860315 3894891	- 7424	protein_coding	
calcium/calmodulin dependent protein kinase	kinase 1 [Source:HGNC			
Symbol;Acc:HGNC:1469]	-	475 674	328 620	646
1340	3.133172672	4.301781764	2.748797373	
4.64051061	5.348622106	8.392625675		
ENSG00000151914	6250.051905	4703.749239	6418.116399	
4651.498542	3778.337951	3537.682725	5790.639181	
3989.173073	0.537580744	0.000757516	0.010135757	DST

6	56457987	56954628	-	42341	
protein_coding	dystonin [Source:HGNC Symbol;Acc:HGNC:1090]				-
6889	5315	5521	4490	3310	4101
	5.947967664	8.11266388	5.892468557	4.8052307	
	4.503598611				
ENSG00000115295	291.2275601	240.7186816	220.8734135		
379.1644691	566.1799468	410.6161856	250.9398851		
451.9868672	-0.846715901	0.000757769	0.010135757		CLIP4
2	29097705	29189643	+	7775	
protein_coding	CAP-Gly domain containing linker protein family member				
4 [Source:HGNC Symbol;Acc:HGNC:26108]	-	321	272	190	
366	496	476	2.02177731	1.657658051	
1.520407663	2.615728904	3.921287085	2.846672941		
ENSG00000126243	681.3454755	867.2952501	750.9696058		
931.3356769	1302.442176	1394.024697	766.5367771		
1209.267517	-0.65779274	0.000758076	0.010135757		LRFN3
19	35935358	35945767	+	4044	
protein_coding	leucine rich repeat and fibronectin type III domain				
containing 3 [Source:HGNC Symbol;Acc:HGNC:28370]	-			751	
980	646	899	1141	1616	9.094052847
11.48262996	9.938668787	12.35266286	17.3429055		
18.5806639					
ENSG00000166801	1933.351809	1466.436969	1653.063126		
1377.838098	916.617938	915.260027	1684.283968		
1069.905354	0.654837097	0.000760354	0.010158536		
FAM111A 11	59142748	59155039	+	7221	
protein_coding	family with sequence similarity 111 member A				
[Source:HGNC Symbol;Acc:HGNC:24725]	-	2131	1657	1422	
1330	803	1061	14.45156193	10.87305549	
12.25205952	10.23449315	6.835425598	6.832018867		
ENSG00000110104	1662.991021	2212.487883	2141.309619		
2420.022404	3135.678052	3392.759365	2005.596174		
2982.81994	-0.572959849	0.000762095	0.010166648		CCDC86
11	60842071	60851081	+	3384	
protein_coding	coiled-coil domain containing 86 [Source:HGNC				
Symbol;Acc:HGNC:28359]	-	1833	2500	1842	2336
3933	26.52532991	35.00548467	33.86617265		2747
38.35787396	49.89714135	54.04115347			
ENSG00000101335	948.0772594	1277.933001	1414.752338		
776.9763712	866.3922976	672.8584553	1213.587533		
772.075708	0.652660878	0.000762111	0.010166648		MYL9
20	36541484	36551447	+	2821	
protein_coding	myosin light chain 9 [Source:HGNC				
Symbol;Acc:HGNC:15754]	-	1045	1444	1217	750
780	18.14019235	24.25440069	26.84073095		759
14.77305181	16.53811661	12.8564935			
ENSG00000184445	1488.798835	1025.709382	1105.529559		
930.2997084	672.3386868	442.5338302	1206.679259		
681.7240751	0.824913174	0.000767786	0.010234641		KNTC1
12	122527246	122626396	+	11325	

protein_coding	kinetochore associated 1 [Source:HGNC					
Symbol;Acc:HGNC:17255]	-	1641	1159	951	898	589
513	7.095762222	4.849217526		5.224553164		
4.406057593	3.196866085	2.106251234				
ENSG00000171617	1222.974302	1078.809092		1141.5668		
923.047929	668.9142113	590.907746		1147.783398		
727.6232954	0.658163804	0.000774044		0.010303045		ENC1
5	74627406	74641424		-	5858	
protein_coding	ectodermal-neural cortex 1 [Source:HGNC					
Symbol;Acc:HGNC:3345]	-	1348	1219	982	891	586
685	11.26858042	9.86008773		10.42963157		
8.451628138	6.148874214	5.437161365				
ENSG00000213030	77.11633211	89.38451047		79.04943219		
35.22292883	12.55641011	5.175834272		81.85009159		
17.6517244	2.221159858	0.000774083		0.010303045		CGB8
19	49047638	49049106		-	882	
protein_coding	chorionic gonadotropin subunit beta 8 [Source:HGNC					
Symbol;Acc:HGNC:16453]	-	85	101	68	34	11
6	4.71931563	5.425993004		4.796750994		
2.142014348	0.766604669	0.316310554				
ENSG00000170442	20.86677222	63.71965102		46.499666		0
0	9.489029498	43.69536308		3.163009833		
3.724192417	0.000776579	0.010328502		KRT86	12	
52249300	52309163	+ 2394		protein_coding		
keratin 86 [Source:HGNC	Symbol;Acc:HGNC:6463]	-		23	72	
40	0	0	11	0.470470475	1.425065385	
1.039543559	0	0	0	0.213648357		
ENSG00000068308	1153.115978	1301.82787		1354.302772		
1529.089498	1902.866878	2293.757221		1269.748873		
1908.571199	-0.588634294	0.000778573		0.010347246		OTUD5
X	48922028	48958386		-	3592	
protein_coding	OTU deubiquitinase 5 [Source:HGNC					
Symbol;Acc:HGNC:25402]	-	1271	1471	1165	1476	1667
2659	17.32757974	19.4045147		20.17885149		
22.8329525	28.52637796	34.42017131				
ENSG00000127666	537.0925719	651.3564327		757.9445557		
791.4799301	1162.038681	1243.925503		648.7978534		
1065.814705	-0.717342296	0.000779306		0.010349205		TICAM1
19	4815932 4831704	- 2676		protein_coding	toll	
like receptor adaptor molecule 1 [Source:HGNC	Symbol;Acc:HGNC:18348]					
-	592 736	652 764		1018 1442		
10.83338759	13.0322123	15.15892252		15.86424079		
23.38347378	25.05590937					
ENSG00000156802	4746.737054	3406.346344		3969.908984		
3505.717387	2047.83634	1614.860293		4040.997461		
2389.47134	0.758248271	0.000780544		0.010357874		ATAD2
8	123319850	123416350		-	7118	
protein_coding	"ATPase family, AAA domain containing 2 [Source:HGNC					
Symbol;Acc:HGNC:30123]"	-	5232 3849		3415 3384	1794	
1872	35.9946898	25.62219713		29.84967253		

26.41705585	15.49215435	12.22866024				
ENSG00000233922	721.264518	808.88557	396.4096526			
945.8392358	1106.105581	1348.304828	642.1865802			
1133.416548	-0.818178797	0.000782085	0.010370538			
LINC01694	21	45593654	45603056	+		6810
	lincRNA long intergenic non-protein coding RNA 1694					
[Source:HGNC Symbol;Acc:HGNC:52481]	-		795	914		341
	913	969	1563	5.716743416	6.359537384	
3.115402139	7.449647257	8.746293066	10.67192794			
ENSG00000102554	224.0909886	192.0439482	239.4732799			
319.0782964	472.5776169	393.3634046	218.5360722			
395.0064393	-0.854684641	0.000785024	0.010401712			KLF5
	13	73054976	73077542	+	3893	
protein_coding	Kruppel like factor 5 [Source:HGNC					
Symbol;Acc:HGNC:6349]	zf-C2H2	247	217	206	308	414
	456	3.106999856	2.641202933	3.292226173		
4.396209257	6.536771404	5.446424116				
ENSG00000267260	17.23776835	7.079961225	10.46242485			
29.00711786	94.74382174	58.65945508	11.59338481			
60.80346489	-2.387706136	0.000785817	0.010404428			
AC020928.1	19	36773153	36777078	+		2050
	lincRNA uncharacterized LOC728485 [Source:NCBI					
gene;Acc:728485]	-	19	8	9	28	83
	68	0.453866808	0.184910923	0.273146409		
0.758955328	2.48869452	1.542361123				
ENSG00000108846	113.4063707	130.0942875	152.2864061			
45.58261378	47.94265678	61.24737221	131.9290215			
51.59088092	1.350211652	0.000787335	0.010416736			ABCC3
	17	50634777	50692252	+	9614	
protein_coding	ATP binding cassette subfamily C member 3 [Source:HGNC					
Symbol;Acc:HGNC:54]	-	125	147	131	44	42
	71	0.636699603	0.724502115	0.847762153		
0.25430834	0.268529827	0.343388107				
ENSG00000197622	2044.036426	1772.645292	2087.835003			
1287.708839	1287.602782	1551.025003	1968.17224			
1375.445542	0.516112893	0.000792438	0.010476414			
CDC42SE1	1	151050971	151070325	-		4184
	protein_coding CDC42 small effector 1 [Source:HGNC					
Symbol;Acc:HGNC:17719]	-	2253	2003	1796	1243	1128
	1798	26.36927561	22.68379502	26.70677841		
16.50788734	16.57161305	19.98154335				
ENSG00000136631	1012.492078	911.5450077	1018.342685			
758.3289383	559.3309958	598.6714974	980.793257			
638.7771438	0.618345352	0.000796919	0.010527778			VPS45
	1	150067279	150145329	+	6637	
protein_coding	vacuolar protein sorting 45 homolog [Source:HGNC					
Symbol;Acc:HGNC:14579]	-	1116	1030	876	732	490
	694	8.234193348	7.353461922	8.21181459		
6.128459312	4.538074514	4.862041606				
ENSG00000197363	243.1432589	380.5479158	262.7231129			

418.5312719	538.7841429	659.9188696	295.4714292	
539.0780948	-0.867061201	0.000801143	0.010575681	ZNF517
8	144798876	144811169	+ 5308	
protein_coding	zinc finger protein 517 [Source:HGNC			
Symbol;Acc:HGNC:27984]	zf-C2H2	268 430	226 404	472
765	2.472478725	3.838521542	2.64901472	
4.229241592	5.465859257	6.701338244		
ENSG00000224877	497.1735294	631.0015442	580.0833333	
319.0782964	369.8433523	362.308399	569.4194689	
350.4100159	0.700376432	0.000802848	0.010590284	
NDUFAF8 17	81239239	81241281	+ 1376	
protein_coding	NADH:ubiquinone oxidoreductase complex assembly factor			
8 [Source:HGNC	Symbol;Acc:HGNC:33551]	-	548 713	499
308	324 420	19.50252342	24.55260273	
22.56259035	12.43782168	14.47351237	14.19259711	
ENSG00000136104	1278.316611	1311.562817	1332.215431	
976.9182907	940.5892664	762.572916	1307.364953	
893.3601577	0.550109959	0.00081188	0.010701447	
RNA5H2B	13 50909678	51024120	+ 26291	
protein_coding	ribonuclease H2 subunit B [Source:HGNC			
Symbol;Acc:HGNC:25671]	-	1409 1482	1146 943	824
884	2.624415364	2.670960954	2.711966741	
1.993042828	1.926493139	1.563421853		
ENSG00000245648	21.77402318	25.66485944	1.16249165	0
0	0 16.20045809	0	6.455356868	
0.000815255	0.01073794	AC022075.1	12 10363769	
10398506	+ 2830	antisense		
uncharacterized	LOC101928100 [Source:NCBI	gene;Acc:101928100]	-	
24	29 1	0 0	0 0.415291928	
0.485554522	0.021984693	0	0	
ENSG00000123374	1256.542588	1169.078597	1356.627755	
958.2708578	837.8550019	791.0400045	1260.749647	
862.3886214	0.547781281	0.000819436	0.010777534	CDK2
12	55966769	55972784	+ 3894	
protein_coding	cyclin dependent kinase 2 [Source:HGNC			
Symbol;Acc:HGNC:1771]	-	1385 1321	1167 925	734
917	17.41736727	16.07434596	18.64583151	
13.1995106	11.58637213	10.94975512		
ENSG00000242372	2825.179508	4577.194932	4293.081663	
4893.91517	6154.923938	6870.919996	3898.485368	
5973.253034	-0.615789481	0.00081948	0.010777534	EIF6
20	35278911	35284985	- 1631	
protein_coding	eukaryotic translation initiation factor 6			
[Source:HGNC	Symbol;Acc:HGNC:6159]	-	3114 5172	3693
4724	5392 7965	93.49606452	150.2557138	
140.8744369	160.9414729	203.209161	227.0716089	
ENSG00000092978	635.0756762	654.8964133	687.0325651	
951.0190783	885.7976587	1132.645066	659.0015515	
989.8206011	-0.58803621	0.00082363	0.010824068	
GPATCH2 1	217426992	217631082	- 8833	





	33.56182075	38.63053271	29.13895702	26.81659576	
	26.07661446				
ENSG00000185033	798.3808501		710.651108	1880.91149	
608.1135065	553.6235367		577.1055213	1129.981149	
579.6141882	0.961804973		0.000846188	0.011059069	SEMA4B
15	90160604		90229679	+ 7006	
protein_coding	semaphorin 4B [Source:HGNC Symbol;Acc:HGNC:10730]				
-	880 803		1618 587	485 669	
6.150936205	5.430900588		14.36862568	4.655646658	
4.255190089	4.440041229				
ENSG00000144283	1361.7837		1054.914223	1179.929025	
834.9906069	831.0060509		770.3366674	1198.875649	
812.1111084	0.562286218		0.000846514	0.011059069	PKP4
2	158456964		158682879	+ 9525	
protein_coding	plakophilin 4 [Source:HGNC Symbol;Acc:HGNC:9026]				
-	1501 1192		1015 806	728 893	
7.716926991	5.929768134		6.629914145	4.70199433	
4.698008034	4.359307379				
ENSG00000148513	64.41481858		60.17967041	134.8490314	
33.15099184	19.40536108		7.763751407	86.48117346	
20.10670144	2.109842819		0.000849288	0.011087121	
ANKRD30A	10 37125788		37384111	+ 5015	
protein_coding	ankyrin repeat domain 30A [Source:HGNC				
Symbol;Acc:HGNC:17234]	Others	71	68	116 32	17
9	0.69329185		0.642487106	1.439109693	
0.354561099	0.208365275		0.083445436		
ENSG00000181284	219.5547338		263.7285556	289.4604208	
317.0063594	555.9065203		571.929687	257.5812367	
481.6141889	-0.904235757		0.000855502	0.011160011	
TMEM102 17	7435443 7437679		+ 2129	protein_coding	
transmembrane protein 102	[Source:HGNC Symbol;Acc:HGNC:26722] -				
242 298 249		306	487	663 5.566322799	
6.632343997	7.276634016		7.98652414	14.06049661	
14.48001078					
ENSG00000105974	9276.641127		8774.726943	11051.80812	
8058.798922	6648.048407		5079.218699	9701.058729	
6595.355343	0.556746179		0.000859134	0.011199134	CAV1
7	116524785		116561184	+ 4082	
protein_coding	caveolin 1 [Source:HGNC Symbol;Acc:HGNC:1527] -				
10225	9915 9507		7779 5824	5888 122.6645302	
115.0922708	144.9029877		105.891918	87.69921907	
67.06961588					
ENSG00000166847	1894.340017		2001.859036	1836.736807	
2429.346121	2560.366171		2930.384837	1910.97862	
2640.032376	-0.466338955		0.000860629	0.011210356	DCTN5
16	23641392		23677455	+ 12740	
protein_coding	dynactin subunit 5 [Source:HGNC Symbol;Acc:HGNC:24594]				
-	2088 2262		1580 2345	2243 3397	
8.025826183	8.412975291		7.716040625	10.2278762	
10.82199193	12.39815715				

ENSG0000054654	976.2020394	704.4561419	919.5308951	
626.7609394	507.9638635	273.4565774	866.7296921	
469.3937934	0.886186804	0.000865769	0.01126901	SYNE2
14	63852983	64226433	+ 31374	
protein_coding	spectrin repeat containing nuclear envelope protein 2			
[Source:HGNC Symbol;Acc:HGNC:17084]	-	1076	796	791
605	445	317	1.679465406	1.202180326
1.568604433	1.071513201	0.871841382	0.469807979	
ENSG00000135046	7759.717512	7789.727338	8438.526887	
6626.054493	5641.252615	5699.456172	7995.990579	
5988.921093	0.416918368	0.000868151	0.011291708	ANXA1
9	73151757	73170393	+ 4561	
protein_coding	annexin A1 [Source:HGNC Symbol;Acc:HGNC:533]			-
8553	8802	7259	6396	4942
91.44242459	99.02014792	77.92206021	6607	91.83052841
67.35583939			66.60242299	
ENSG00000285106	61.69306569	65.48964133	49.98714095	
113.9565344	144.9694622	177.7036433	59.05661599	
145.5432133	-1.299596007	0.000879926	0.011436454	
AC016831.6	7	130791264	131110161	- 11088
lincRNA	novel transcript		-	68 74 43
110	127	206	0.300320086	0.316231365
0.241280423	0.551253692	0.704040859	0.863863294	
ENSG00000129103	1677.507036	1738.130481	2075.047595	
1336.399358	1272.763388	1266.354118	1830.228371	
1291.838955	0.502073059	0.000882975	0.011467658	SUMF2
7	56064002	56080670	+ 4101	
protein_coding	sulfatase modifying factor 2 [Source:HGNC			
Symbol;Acc:HGNC:20415]	-	1849	1964	1785 1290 1115
1468	22.0788183	22.69228111	27.08041389	
17.47881496	16.71215513	16.64436781		
ENSG0000050438	273.0825408	108.8544038	145.3114562	
95.30910153	36.5277385	16.39014186	175.7494669	
49.40899396	1.835007128	0.000884684	0.011481421	SLC4A8
12	51391317	51515763	+ 17980	
protein_coding	solute carrier family 4 member 8 [Source:HGNC			
Symbol;Acc:HGNC:11034]	-	301	123	125 92 32
19	0.819795428	0.324146894	0.432540893	
0.284321815	0.109397564	0.049135449		
ENSG00000153140	210.4822241	266.3835411	269.6980628	
164.7189907	92.46083808	76.77487503	248.8546093	
111.3182346	1.161927364	0.000886732	0.011499556	CETN3
5	90392261	90409786	- 3106	
protein_coding	centrin 3 [Source:HGNC Symbol;Acc:HGNC:1868]			-
232	301	232	159	81 89 3.65776009
4.591890097	4.647221579	2.844511648	1.602990423	
1.332353826				
ENSG00000134815	1069.648889	1141.643748	869.5437541	
1358.154697	1439.421195	1900.393817	1026.945464	
1565.989903	-0.608501128	0.000893236	0.01157542	DHX34

19	47349281	47382704	+	5696		
protein_coding	DExH-box helicase 34 [Source:HGNC					
Symbol;Acc:HGNC:16719]	-	1179	1290	748	1311	1261
2203	10.13613784	10.73114765		8.170308662		
12.78924051	13.60794252	17.98355447				
ENSG0000007968	716.7282631	659.3213891		631.2329659		
452.7182323	267.1090878	449.4349426		669.094206		
389.7540876	0.77807465	0.000901787		0.011677685		E2F2
1	23506430	23531220		-	5457	
protein_coding	E2F transcription factor 2 [Source:HGNC					
Symbol;Acc:HGNC:3114]	E2F	790	745	543	437	234
521	7.089274962	6.468875009		6.190884795		
4.449790114	2.635780641	4.439302993				
ENSG00000189043	2686.37011	3406.346344		3836.222445		
2468.712923	2228.192049	2229.059293		3309.6463		
2308.654755	0.519322408	0.000911444		0.0117941		NDUFA4
7	10931951	10940256		-	3556	
protein_coding	"NDUFA4, mitochondrial complex associated [Source:HGNC					
Symbol;Acc:HGNC:7687]"	-	2961	3849	3300	2383	1952
2584	40.77606742	51.28762632		57.73764078		
37.2369699	33.74158047	33.78794473				
ENSG0000041802	2028.61316	2321.342287		1579.826152		
2564.022025	2906.238195	3286.654763		1976.593866		
2918.971661	-0.561978501	0.000913163		0.011807635		LSG1
3	194640788	194672477		-	4818	
protein_coding	large 60S subunit nuclear export GTPase 1 [Source:HGNC					
Symbol;Acc:HGNC:25652]	-	2236	2623	1359	2475	2546
3810	22.72655912	25.7963307		17.54928826		
28.54436928	32.48171593	36.76962479				
ENSG00000096080	449.0892282	512.4121937		462.6716767		
632.9767504	812.7421817	775.5125017		474.7243662		
740.4104779	-0.640882238	0.000913825		0.011807635		
MRPS18A 6	43671303	43687791		-	1284	
protein_coding	mitochondrial ribosomal protein S18A [Source:HGNC					
Symbol;Acc:HGNC:14515]	-	495	579	398	611	712
899	18.87855975	21.3668244		19.28523321		
26.44163039	34.08492401	32.55559867				
ENSG00000275966	10.88701159	17.69990306		12.78740815		0
0	0	13.79144093		0		
0.000916987	0.011839847	AC110285.6		17		81345476
81345966	-	491	lincRNA	novel transcript		
-	12	20	11	0	0	
1.196818896	1.930078373	1.39385642		0	0	0
ENSG00000085644	365.6221393	417.7177123		446.3967936		
545.9553968	751.1016229	690.1112362		409.912215		
662.3894187	-0.693020351	0.000918655		0.011852728		ZNF213
16	3129777	3142805	+	6443		protein_coding zinc
finger protein 213 [Source:HGNC	Symbol;Acc:HGNC:13005]		zf-C2H2	403		
472	384	527	658	800		3.062990137
3.471205363	3.708087209	4.545006697		6.277476889		

5.773416297

ENSG00000125735	0	1.769990306	2.3249833	10.35968495	
	42.23519764	23.29125422	1.364991202	25.29537894	
	-4.249062868	0.000921891	0.011885806	TNFSF14	19
	6661253	6670588	-	4778	protein_coding
					TNF
	superfamily member 14 [Source:HGNC Symbol;Acc:HGNC:11930]				-
	0	2	2	10	37
				27	0
0.019833999	0.026042981	0.1162963	0.475995601		
0.262753577					
ENSG00000078269	2456.835616	2129.298338	2777.192552		
1758.038536	1877.754057	1454.40943	2454.442169		
1696.734008	0.532795018	0.000923369	0.01188978	SYNJ2	
	6	157981887	158099176	+	12493
	protein_coding synaptojanin 2 [Source:HGNC Symbol;Acc:HGNC:11504]				
	-	2708	2406	2389	1697
				1645	1686
10.61477037	9.125471726	11.89751487	7.547917524		
8.093689184	6.2751173				
ENSG00000283787	35.38278767	47.78973827	43.01219105	0	
	10.27342645	0	42.06157233	3.424475485	
3.67366869	0.000923543	0.01188978	PRR33	11	
1888577	1891895	-	3319	protein_coding	proline rich 33
	[Source:HGNC Symbol;Acc:HGNC:35118]				-
	0	9	0	0.575421438	0.770926453
0.693587597	0	0.166679664	0		
ENSG00000064601	1550.491901	1763.79534	1782.099699		
1253.521879	1256.782503	1089.513114	1698.795647		
1199.939165	0.501855875	0.000924237	0.011890055	CTSA	
	20	45890144	45898820	+	5856
	protein_coding cathepsin A [Source:HGNC Symbol;Acc:HGNC:9251]				-
	1709	1993	1533	1210	1101
				1263	14.29123229
	16.12622339	16.28725641	11.48143961	11.55669392	
	10.02843816				
ENSG00000197747	2619.233539	3409.886325	5063.813627		
2124.771383	2832.041226	1703.712114	3697.644497		
2220.174908	0.736002596	0.000927589	0.011924504		
S100A10	1	151982915	151994390	-	1543
	protein_coding S100 calcium binding protein A10 [Source:HGNC				
	Symbol;Acc:HGNC:10487]				-
	1975	91.62406195	118.3203713	4356	2051
				175.642169	2481
73.86042086	98.83441554	59.51578854			
ENSG00000100083	1045.153113	1208.018384	863.7312959		
1223.478792	1763.604875	1934.899379	1038.967598		
1640.661015	-0.658616894	0.000930762	0.01195661	GGA1	
	22	37608475	37633564	+	9369
	protein_coding "golgi associated, gamma adaptin ear containing, ARF				
	binding protein 1 [Source:HGNC Symbol;Acc:HGNC:17842]"				-
	1365	743	1181	1545	2243
				6.02126753	1152
6.903444747	4.934037222	7.00436392	10.1363735		
11.13184249					
ENSG00000138160	2406.029562	1867.339773	2477.269706		

1216.227013	647.2258666	402.8524341	2250.213014	
755.4351046	1.574897861	0.000932878	0.011975094	KIF11
10	92593286	92655395	+ 4860	
protein_coding	kinesin family member 11 [Source:HGNC			
Symbol;Acc:HGNC:6388]	-	2652 2110	2131 1174	567
467	26.72181383	20.57181579	27.28060686	
13.42282324	7.171238226	4.467984208		
ENSG00000269974	17.23776835	29.20484005	1.16249165	0
0	0	15.86836669	0	6.425561622
0.000936226	0.01200935	AC091057.4	15	30648797
30649529	+	733	lincRNA novel transcript	
-	19 33	1 0	0 0	
1.269341005	2.13322373	0.084879512	0 0	0
ENSG00000162396	290.3203091	267.2685362	276.6730127	
387.4522171	442.8988293	646.1166449	278.087286	
492.1558971	-0.825001427	0.000939788	0.012046317	PARS2
1	54756898	54764514	- 2347	
protein_coding	"prolyl-tRNA synthetase 2, mitochondrial [Source:HGNC			
Symbol;Acc:HGNC:30563]"	-	320 302	238 374	388
749	6.676757029	6.097057548	6.309147983	
8.854632809	10.16169127	14.83883297		
ENSG00000105193	17901.87606	22628.44107	24151.92652	
26928.96506	31586.22038	30492.56497	21560.74788	
29669.25014	-0.460606108	0.000953447	0.012204591	RPS16
19	39433207	39435948	- 2603	
protein_coding	ribosomal protein S16 [Source:HGNC			
Symbol;Acc:HGNC:10396]	-	19732 25569	20776 25994	27671
35348	371.2150901	465.4424778	496.5861642	
554.8952282	653.4284604	631.4248887		
ENSG00000135829	8421.103466	7438.384262	8120.004174	
6774.197988	5498.566136	5207.751916	7993.163968	
5826.83868	0.456103681	0.000953516	0.012204591	DHX9
1	182839369	182887751	+ 5645	
protein_coding	DExH-box helicase 9 [Source:HGNC Symbol;Acc:HGNC:2750]			
-	9282 8405	6985 6539	4817 6037	
80.52047003	70.5505189	76.98556666	64.36643186	
52.45175938	49.72654067			
ENSG00000205208	929.0249892	894.7300998	878.8436873	
726.2139149	493.1244698	458.061333	900.8662588	
559.1332392	0.688746754	0.000954753	0.012211582	
C4orf46 4	158666679	158672255	- 3730	
protein_coding	chromosome 4 open reading frame 46 [Source:HGNC			
Symbol;Acc:HGNC:27320]	-	1024 1011	756 701	432
531	13.44373083	12.84306749	12.61013716	
10.44290266	7.119053803	6.619370763		
ENSG00000213551	1202.10753	1208.903379	1025.317635	
750.0411903	852.6943956	746.1827742	1145.442848	
782.9727867	0.549996316	0.000956313	0.012222697	DNAJC9
10	73183362	73248862	- 3955	
protein_coding	DnaJ heat shock protein family (Hsp40) member C9			

[Source:HGNC Symbol;Acc:HGNC:19123]	-	1325	1366	882
724	747	865	16.40582498	16.36555177
13.87487068	10.17194778	11.60971274	10.16952429	
ENSG00000240875	2.721752898	0	1.16249165	15.53952742
	22.82983656	34.50556181	1.294748183	24.29164193
	-4.231483327	0.000958667	0.01224394	LINC00886
3	156747346	156817062	-	3822
lincRNA long intergenic non-protein coding RNA	886	[Source:HGNC		
Symbol;Acc:HGNC:48572]	-	3	0	1
40	0.038437865	0	0.016278567	0.218078384
	0.321652309	0.486631622		
ENSG00000102144	24993.85686	30140.27993	34893.34936	
39485.93918	47597.92625	38746.29536	30009.16205	
41943.38693	-0.48306311	0.000960921	0.012263872	PGK1
X	77910739	78129296	+	5512
protein_coding phosphoglycerate kinase 1	[Source:HGNC			
Symbol;Acc:HGNC:8896]	-	27549	34057	30016
44916	244.7514727	292.7680104	338.805502	38115
384.2366249	465.0004533	378.8984969		41698
ENSG00000175575	547.9795835	507.1022227	544.0460921	
661.9838682	928.0328563	920.4358613	533.0426328	
836.8175286	-0.650988053	0.000961695	0.012264903	PAAF1
11	73876699	73931124	+	7937
protein_coding proteasomal ATPase associated factor 1	[Source:HGNC			
Symbol;Acc:HGNC:25687]	-	604	573	468
1067	3.726569643	3.420776362	3.668565853	639
4.473593529	6.296243645	6.25084971		813
ENSG00000161692	436.3877146	423.9126783	466.1591516	
272.4597142	278.5240061	256.2037964	442.1531815	
269.0625056	0.716743287	0.000966066	0.012311778	DBF4B
17	44708608	44752264	+	7146
protein_coding DBF4 zinc finger B	[Source:HGNC			
Symbol;Acc:HGNC:17883]	-	481	479	401
3.296178696	3.176134918	3.491308352	2.045054001	263
2.098815074	1.93252204			244
ENSG00000198933	198.6879615	251.3386235	224.3608884	297
300.4308635	426.9179437	514.99551	224.7958245	
414.1147724	-0.882186602	0.000975734	0.012426027	TBKBP1
17	47694081	47712050	+	4280
protein_coding TBK1 binding protein 1	[Source:HGNC			
Symbol;Acc:HGNC:30140]	-	219	284	193
597	2.505699748	3.144133746	2.805565333	290
3.765011201	5.371247857	6.485770548		374
ENSG00000111961	1045.153113	803.575599	863.7312959	
624.6890024	619.8300627	365.7589552	904.1533359	
536.7593401	0.754108643	0.000978825	0.012456433	SASH1
6	148272304	148552050	+	11143
protein_coding SAM and SH3 domain containing 1	[Source:HGNC			
Symbol;Acc:HGNC:19182]	-	1152	908	743
424	5.062663151	3.86109208	4.148523264	603
				543

3.006957053	2.995332642	1.769272569			
ENSG00000089289	1155.837731	1059.339198	1413.589846		
1757.002567	1624.342871	1875.377284	1209.588925		
1752.240908	-0.535919286	0.000985127	0.012520838	IGBP1	
X	70133449	70166324	+ 1862		
protein_coding	immunoglobulin binding protein 1 [Source:HGNC				
Symbol;Acc:HGNC:5461]	-	1274 1197	1216 1696	1423	
2174	33.50567988	30.46077261	40.63130253		
50.61254955	46.9756268	54.28887989			
ENSG00000107159	802.0098539	1432.807153	1443.814629		
1517.693845	2349.190182	2305.834168	1226.210545		
2057.572732	-0.747211787	0.000985302	0.012520838	CA9	
9	35673856	35681159	+ 1670		
protein_coding	carbonic anhydrase 9 [Source:HGNC				
Symbol;Acc:HGNC:1383]	-	884 1619	1242 1465	2058	
2673	25.92175953	45.93638536	46.27132877		
48.74535046	75.74888761	74.4240853			
ENSG00000154277	4436.457224	5202.886505	4084.995658		
5924.703822	6086.434428	6731.17247	4574.779796		
6247.436907	-0.449417818	0.000986642	0.012528868	UCHL1	
4	41256413	41268455	+ 2282		
protein_coding	ubiquitin C-terminal hydrolase L1 [Source:HGNC				
Symbol;Acc:HGNC:12513]	-	4890 5879	3514 5719	5332	
7803	104.9353711	122.0714943	95.80605634		
139.2568285	143.6222946	158.9926269			
ENSG00000105877	103.4266101	84.9595347	95.32431529		
159.5391482	237.4303003	206.1707318	94.57015337		
201.0467268	-1.087889301	0.000989322	0.01255389	DNAH11	
7	21543215	21901839	+ 15998		
protein_coding	dynein axonemal heavy chain 11 [Source:HGNC				
Symbol;Acc:HGNC:2942]	-	114 96	82 154	208	
239	0.348953728	0.284336086	0.318900358		
0.534893194	0.799180728	0.6946455			
ENSG00000171792	668.6439619	511.5271985	638.2079158		
461.0059802	303.6368263	215.6597613	606.1263587		
326.7675226	0.892522492	0.000990695	0.012562294	RHN01	
12	2876258 2889523	+ 2643	protein_coding	RAD9-	
HUS1-RAD1 interacting nuclear orphan 1 [Source:HGNC					
Symbol;Acc:HGNC:28206]	-	737 578	549 445	266	
250	13.65522965	10.36232278	12.92355597		
9.355669932	6.186312204	4.398188753			
ENSG00000119013	329.3321007	429.2226493	427.7969272		
264.1719662	211.1759882	188.9179509	395.450559		
221.4219684	0.83715082	0.000995194	0.012597352	NDUFB3	
2	201071433	201085750	+ 1103		
protein_coding	NADH:ubiquinone oxidoreductase subunit B3 [Source:HGNC				
Symbol;Acc:HGNC:7698]	-	363 485	368 255	185	
219	16.11609416	20.83495981	20.75769626		
12.84626012	10.3096418	9.232081304			
ENSG00000161618	1198.478526	1161.998636	1418.239813		

594.6459161	874.3827404	935.1007251	1259.572325		
801.3764605	0.651508918	0.000995381	0.012597352		
ALDH16A1	19	49453169	49471048	+	4643
protein_coding aldehyde dehydrogenase 16 family member A1					
[Source:HGNC Symbol;Acc:HGNC:28114]					
		-	1321	1313	1220
	574	766	1084	13.93262081	13.39962003
16.34812665	6.869501969	10.14092209	10.85579458		
ENSG00000240583	150.6036604	83.18954439	254.5856713		
32.11502334	87.89487077	27.60444945	162.7929587		
49.20478119	1.731352617	0.000995968	0.012597352		AQP1
	7	30911694	30925516	+	3435
protein_coding aquaporin 1 (Colton blood group) [Source:HGNC					
Symbol;Acc:HGNC:633]					
		-	166	94	219
	32	2.366519188	1.296664297	3.966653089	77
0.501472355	1.377879834	0.433165895			
ENSG00000136541	49.89880313	53.09970919	60.44956579		
152.2873688	100.4512809	155.2750281	54.4826927		
136.0045593	-1.323479243	0.000996308	0.012597352		ERMN
	2	157318625	157327713	-	4393
protein_coding ermin [Source:HGNC Symbol;Acc:HGNC:29208]					
					-
	55	60	52	147	88
	0.647167185	0.7364597	1.859380085	1.231314033	
	1.905207664				
ENSG00000163040	278.5260466	232.7537253	262.7231129		
114.9925029	118.7151501	161.3135015	258.0009616		
131.6737182	0.96737816	0.001009539	0.012755526		
CCDC74A 2	131527675	131533666	+	3077	
protein_coding coiled-coil domain containing 74A [Source:HGNC					
Symbol;Acc:HGNC:25197]					
		-	307	263	226
	187	4.885843623	4.049996921	4.569701051	104
2.004506765	2.077558221	2.825824124			
ENSG00000090432	1261.986094	1626.621091	1434.514696		
1642.010064	2536.394842	2408.488214	1441.040627		
2195.63104	-0.607474934	0.001012198	0.012779992		MUL1
	1	20499448	20508161	-	2438
protein_coding mitochondrial E3 ubiquitin protein ligase 1					
[Source:HGNC Symbol;Acc:HGNC:25762]					
		-	1391	1838	1234
	1585	2222	2792	27.93972404	35.72220403
31.49113437	36.12497947	56.02188446	53.24915627		
ENSG00000170144	7592.783334	7799.462284	8243.228289		
6843.607877	4982.61183	5116.312178	7878.491303		
5647.510628	0.480278053	0.001018769	0.012851608		
HNRNPA3 2	177212563	177223958	+	6033	
protein_coding heterogeneous nuclear ribonucleoprotein A3					
[Source:HGNC Symbol;Acc:HGNC:24941]					
		-	8369	8813	7091
	6606	4365	5931	67.93114364	69.21765559
73.12754717	60.84393416	44.4731901	45.71151517		
ENSG00000188342	1336.380673	1853.179851	1601.913494		
1198.615549	1023.91817	1021.36463	1597.158006		
1081.299449	0.562866822	0.001019323	0.012851608		GTF2F2



13	45120515	45284909	+	3619	
protein_coding	general transcription factor IIF subunit 2				
[Source:HGNC Symbol;Acc:HGNC:4653]		-	1473	2094	1378
1157	897	1184	19.93163141	27.41665929	
23.69013203	17.76465671	15.23530736	15.21227394		
ENSG00000116774	208.6677222	150.449176	282.4854709		
118.1004084	89.0363626	39.68139608	213.8674564		
82.27272237	1.381065356	0.001021258	0.012866829		OLFML3
1	113979391	114035572	+	2821	
protein_coding	olfactomedin like 3 [Source:HGNC				
Symbol;Acc:HGNC:24956]	-	230	170	243	114
46	3.992578221	2.855434984	5.359324256		78
2.245503875	1.699569296	0.758203463			
ENSG00000231079	0	5.309970919	3.48747495	25.89921237	
21.68834474	51.75834272	2.932481956	33.11529994		
-3.504850251	0.001024944	0.012902342	AC105402.3		
2	148866470	148888823	-	4156	
antisense	novel transcript		-	0	6
25	19	60	0	0.068407253	0.044910983
0.334253923	0.28101236	0.67128467			
ENSG00000168653	2485.867647	3216.957382	3367.73831		
2045.001809	2180.249392	2195.41637	3023.521113		
2140.222524	0.498169207	0.001026956	0.012902342		NDUFS5
1	39026318	39034636	+	548	
protein_coding	NADH:ubiquinone oxidoreductase subunit S5 [Source:HGNC				
Symbol;Acc:HGNC:7712]	-	2740	3635	2897	1974
2545	244.8491992	314.3042818	328.9082623		1910
200.1606181	214.2398073	215.9425603			
ENSG00000181458	464.5124946	533.6520773	592.8707414		
945.8392358	728.2717864	799.666395	530.3451045		
824.5924724	-0.637882182	0.001027036	0.012902342		
TMEM45A 3	100492619	100577444	+	6005	
protein_coding	transmembrane protein 45A [Source:HGNC				
Symbol;Acc:HGNC:25480]	-	512	603	510	913
927	4.175280265	4.75806906	5.284014625		638
8.448309379	6.53062922	7.177905569			
ENSG00000175221	2220.950365	2297.447417	2255.233801		
2631.359977	3199.601594	3888.776816	2257.877194		
3239.912796	-0.521275825	0.001027465	0.012902342		MED16
19	867630	893218	-	4222	protein_coding
mediator complex subunit 16 [Source:HGNC Symbol;Acc:HGNC:17556]					-
2448	2596	1940	2540	2803	4508
29.13485761	28.58843275	33.42931914	40.80865009		
49.64742136					
ENSG00000065154	1386.279476	1269.968045	1478.689379		
1077.407235	933.7403154	747.0454132	1378.3123		
919.3976545	0.584608781	0.001027723	0.012902342		OAT
10	124397303	124418976	-	3388	
protein_coding	ornithine aminotransferase [Source:HGNC				
Symbol;Acc:HGNC:8091]	-	1528	1435	1272	1040
					818

866	22.08557121	20.06942548	23.35880151	
17.05697376	14.84079828	11.88517302		
ENSG00000160813	420.0571972	394.7078383	455.6967268	
278.6755251	194.0536108	259.6543526	423.4872541	
244.1278295	0.792618489	0.001032143	0.012947193	
PPP1R35 7	100435282	100436565	- 1187	
protein_coding	protein phosphatase 1 regulatory subunit 35			
[Source:HGNC Symbol;Acc:HGNC:28320]	-	463	446	392
269	170 301	19.10112539	17.80371283	
20.54670543	12.5925477	8.803301228	11.79089562	
ENSG00000125351	1165.817491	1126.59883	1025.317635	
839.1344809	654.0748175	750.4959694	1105.911319	
747.9017559	0.564296095	0.00103276	0.012947193	UPF3B
X	119805311	119852998	- 3081	
protein_coding	"UPF3B, regulator of nonsense mediated mRNA decay			
[Source:HGNC Symbol;Acc:HGNC:20439]"	-	1285	1273	882
810	573 870	20.4239676	19.57776658	
17.81081257	14.60849123	11.43168592	13.12981396	
ENSG00000157551	114.3136217	106.1994184	105.7867401	
234.1288798	154.1013968	321.7643639	108.7665934	
236.6648802	-1.123733908	0.001036417	0.012983833	KCNJ15
21	38155549	38307357	+ 10342	
protein_coding	potassium voltage-gated channel subfamily J member 15			
[Source:HGNC Symbol;Acc:HGNC:6261]	-	126	120	91
226	135 373	0.596615724	0.549797997	
0.547449049	1.214271912	0.802373534	1.677008703	
ENSG00000103489	958.964271	838.09041	1372.902639	
765.5807177	555.9065203	609.023166	1056.65244	
643.503468	0.714287571	0.001042488	0.013050648	XYLT1
16	17101769	17470881	- 11004	
protein_coding	xylosyltransferase 1 [Source:HGNC			
Symbol;Acc:HGNC:15516]	-	1057 947	1181 739	487
706	4.703845938	4.077799217	6.677381084	
3.731692935	2.720355987	2.983219008		
ENSG00000133398	868.2391744	981.4596248	904.4185036	
1275.277217	1232.811174	1431.980815	918.039101	
1313.356402	-0.516933285	0.001050358	0.013139874	MED10
5	6371881 6378594	- 1880	protein_coding	
mediator complex subunit 10	[Source:HGNC Symbol;Acc:HGNC:28760] -			
957	1109 778	1231 1080	1660 24.9277323	
27.9511794	25.74711628	36.38415116	35.31126421	
41.05643696				
ENSG00000116521	3749.668242	4671.889413	4190.782398	
5132.187924	5880.965899	6324.86948	4204.113351	
5779.341101	-0.459162628	0.001052008	0.013151218	SCAMP3
1	155255979	155262430	- 2442	
protein_coding	secretory carrier membrane protein 3 [Source:HGNC			
Symbol;Acc:HGNC:10565]	-	4133 5279	3605 4954	5152
7332	82.8797494	102.4312431	91.84731312	
112.7255561	129.6813596	139.6071993		

ENSG00000130479	1395.351986		1479.711896		1483.339345	
1668.945245	2114.042866		2963.165121		1452.801076	
2248.717744	-0.630820022		0.001057564		0.013211338	MAP1S
19	17719242		17734516		+ 5040	
protein_coding	microtubule associated protein 1S [Source:HGNC					
Symbol;Acc:HGNC:15715]	-		1538 1672		1276 1611	1852
3435	14.94357414		15.7192629		15.75168378	
17.76139397	22.58696121		31.69036367			
ENSG00000167325	4276.781054		3524.0507		4173.345023	
3417.660065	2491.876661		1999.597307		3991.392259	
2636.378011	0.598536497		0.001060032		0.013232826	RRM1
11	4094707	4138876	+ 4177		protein_coding	
ribonucleotide reductase catalytic subunit M1 [Source:HGNC						
Symbol;Acc:HGNC:10451]	-		4714 3982		3590 3299	2183
2318	55.26545965		45.17136571		53.47327948	
43.8863926	32.12451803		25.8035806			
ENSG00000082684	0.907250966		0	2.3249833	9.323716454	
44.5181813	17.25278091		1.077411422		23.69822622	
-4.536002039	0.001063115		0.013261946		SEMA5B 3	
122909082	123028605		-	8517	protein_coding	
semaphorin 5B [Source:HGNC Symbol;Acc:HGNC:10737]						
1	0	2	9	39	20	0.005749658
0	0.014609999		0.058717547		0.281465597	
0.109187863						
ENSG00000113593	722.1717689		684.1012534		581.2458249	
501.4087515	296.7878753		376.9732628		662.5062824	
391.7232965	0.758119916		0.00106451		0.013269993	PPWD1
5	65563236		65587549		+ 3777	
protein_coding	peptidylprolyl isomerase domain and WD repeat					
containing 1 [Source:HGNC Symbol;Acc:HGNC:28954]					-	796
773	500	484	260	437	10.32035809	
9.69748128	8.236256553		7.120498847		4.231299078	
5.37979182						
ENSG00000130176	15.42326642		8.849951531		16.2748831	0
0	0	13.51603368	0		6.188376475	
0.001065918	0.013278183		CNN1 19		11538717	
11550323	+ 2887		protein_coding		calponin 1	
[Source:HGNC Symbol;Acc:HGNC:2155]			-		17 10	14
0	0	0	0.288357214		0.164126859	
0.301708884	0	0	0			
ENSG00000171425	427.315205		531.882087		447.5592852	
510.732468	841.2794774		1229.26064		468.9188591	
860.424195	-0.876260738		0.001071308		0.013329893	ZNF581
19	55635459		55645622		+ 1736	
protein_coding	zinc finger protein 581 [Source:HGNC					
Symbol;Acc:HGNC:25017]	zf-C2H2		471 601		385 493	737
1425	13.28617198		16.40405407		13.79805448	
15.78008151	26.09547024		38.16771508			
ENSG00000262943	17.23776835		19.46989337		15.11239145	0
1.141491828	0		17.27335106		0.380497276	

5.582631906	0.00107374	0.013329893	ALOX12P2	17
6853861	6954107 +	5655		
transcribed_unprocessed_pseudogene		arachidonate 12-lipoxygenase		
pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:432]	-	19	22	
13	0	1	0	0.164531734
	0.143026855	0	0.01086963	0.184338697
ENSG00000164484	314.8160852	377.0079352	368.509853	
701.350671	688.3195724	431.3195226	353.4446245	
606.9965887	-0.779242303	0.001073883	0.013329893	
TMEM200A	6	130365734	130443063	+ 6137
protein_coding	transmembrane protein 200A [Source:HGNC			
Symbol;Acc:HGNC:21075]	-	347	426	317 677 603
500	2.768866616	3.2891215	3.21373443	
6.129775783	6.039605182	3.788304668		
ENSG00000158290	3795.938042	3005.44354	3444.462759	
2894.495975	2055.826783	2041.86662	3415.281447	
2330.729792	0.551280721	0.001074024	0.013329893	CUL4B
X	120524609	120575794	-	7031
protein_coding	cullin 4B [Source:HGNC Symbol;Acc:HGNC:2555]			-
4184	3396	2963	2794	1801 2367 29.14092019
	22.88637578	26.21931856	22.08113269	15.7450475
	15.65352597			
ENSG00000196507	420.0571972	557.5469465	510.3338343	
326.3300759	312.7687609	221.6982346	495.979326	
286.9323571	0.7913846	0.001074211	0.013329893	TCEAL3
X	103607451	103629690	+	2305
protein_coding	transcription elongation factor A like 3 [Source:HGNC			
Symbol;Acc:HGNC:28247]	-	463	630	439 315 274
257	9.836458066	12.95078402	11.84951124	
7.593669086	7.306796184	5.184336848		
ENSG00000179454	489.9155216	399.1328141	345.26002	
661.9838682	731.6962619	599.5341365	411.4361186	
664.4047555	-0.689319479	0.00107459	0.013329893	KLHL28
14	44924319	45042322	-	8076
protein_coding	kelch like family member 28 [Source:HGNC			
Symbol;Acc:HGNC:19741]	-	540	451	297 639 641
695	3.27435779	2.646102557	2.288057771	
4.396596315	4.878755787	4.001469514		
ENSG00000189266	1904.319778	1751.405408	1951.82348	
1416.168933	1405.17644	1133.507705	1869.182889	
1318.28436	0.50421743	0.001076653	0.013346122	PNRC2
1	23956839	23963462	+	2779
protein_coding	proline rich nuclear receptor coactivator 2			
[Source:HGNC Symbol;Acc:HGNC:23158]	-	2099	1979	1679
1367	1231	1314	36.98729536	33.74299971
37.5897118	27.33329644	27.2280705	21.98557541	
ENSG00000133466	275.8042937	251.3386235	320.8476954	
95.30910153	36.5277385	184.6047557	282.6635375	
105.4805319	1.415094504	0.001079791	0.013375644	
C1QTNF6 22	37180167	37199385	-	7143

protein_coding	C1q and TNF related 6 [Source:HGNC				
Symbol;Acc:HGNC:14343]	-	304	284	276	92
214	2.084114701	1.883927262	2.404004513		32
0.71568056	0.27537004	1.393041778			
ENSG00000171763	379.2309038	365.5029982	392.9221777		
449.6103268	725.9888027	757.3970818	379.2186932		
644.3320704	-0.765420588	0.001085891	0.013435422		
SPATA5L1	15	45402331	45421419	+	3406
protein_coding	spermatogenesis associated 5 like 1				
[Source:HGNC Symbol;Acc:HGNC:28762]	-	418	413		338
434	636	878	6.009804184	5.745553181	
6.17417455	7.080389177	11.47783117	11.98618262		
ENSG00000109323	361.9931354	311.5182939	409.1970608		
250.7043758	176.9312334	143.1980815	360.90283		
190.2778969	0.924173907	0.001086136	0.013435422		MANBA
4	102630770	102760994	-	11743	
protein_coding	mannosidase beta [Source:HGNC Symbol;Acc:HGNC:6831]				
-	399	352	352	242	155
1.66388198	1.420332561	1.864963984	1.14511301		
0.811334601	0.657294571				
ENSG00000185774	57.15681086	65.48964133	92.99933199		
135.7118728	231.7228411	150.0991939	71.88192806		
172.5113026	-1.265980652	0.00108808	0.013444418		KCNIP4
4	20728616	21948799	-	4256	
protein_coding	potassium voltage-gated channel interacting protein 4				
[Source:HGNC Symbol;Acc:HGNC:30083]	-	63	74		80
131	203	174	0.724882498	0.823865926	
1.169486504	1.710337114	2.931850214	1.900984812		
ENSG00000081760	593.3421318	646.9314569	584.7332999		
405.0636815	420.0689928	269.1433821	608.3356295		
364.7586855	0.740337432	0.001088383	0.013444418		AACS
12	125065379	125143333	+	16094	
protein_coding	acetoacetyl-CoA synthetase [Source:HGNC				
Symbol;Acc:HGNC:21298]	-	654	731	503	391
312	1.98995124	2.152186093	1.944512927		368
1.349972134	1.405501074	0.90140843			
ENSG00000114473	589.7131279	783.2207105	552.1835337		
879.5372522	1061.5874	1048.969079	641.7057907		
996.6979105	-0.634184441	0.001091589	0.013474617		IQCG
3	197889075	197960142	-	7474	
protein_coding	IQ motif containing G [Source:HGNC				
Symbol;Acc:HGNC:25251]	-	650	885	475	849
1216	4.258816683	5.610694446	3.954097398		930
6.311994916	7.648516629	7.565044718			
ENSG00000198301	1553.213654	1512.456717	1390.340013		
2028.426313	2150.570604	1940.937852	1485.336795		
2039.978256	-0.457147102	0.00109556	0.013514201		SDAD1
4	75940950	75990962	-	3491	
protein_coding	SDA1 domain containing 1 [Source:HGNC				
Symbol;Acc:HGNC:25537]	-	1712	1709	1196	1958
					1884

2250	24.01500023	23.19629668	21.31513941	
31.16555622	33.17251582	29.96840902		
ENSG00000254087	434.5732127	377.0079352	433.6093854	
295.251021	220.3079228	182.0168386	415.0635111	
232.5252608	0.837005491	0.001097294	0.013526159	LYN
8	55879813	56014168	+ 6185	
protein_coding	"LYN proto-oncogene, Src family tyrosine kinase			
[Source:HGNC Symbol;Acc:HGNC:6735]"	-	479	426	373
285	193	211	3.792490425	3.263595578
3.752113563	2.560455308	1.918072264	1.586257796	
ENSG00000173267	9.979760626	9.734946684	20.9248497	0
0	0	13.546519	0	6.189784169
0.00110773	0.013641711	SNCG 10	86958618	
86963260	+ 1247	protein_coding	synuclein gamma	
[Source:HGNC Symbol;Acc:HGNC:11141]"	-	11	11	18
0	0	0	0.431971322	0.417977277
0.898075602	0	0	0	
ENSG00000105705	695.8614909	829.2404585	721.9073146	
888.8609686	1334.403947	1260.315645	749.003088	
1161.19352	-0.632280072	0.001108968	0.013641711	SUGP1
19	19276018	19320844	- 5356	
protein_coding	SURP and G-patch domain containing 1 [Source:HGNC			
Symbol;Acc:HGNC:18643]"	-	767	937	621 858 1169
1461	7.012671238	8.289445172	7.2136967	
8.901409139	13.41594605	12.68354534		
ENSG00000165525	688.6034832	466.3924457	574.270875	
386.4162486	336.7400893	318.3138077	576.422268	
347.1567152	0.73188946	0.001108982	0.013641711	NEMF
14	49782083	49853203	- 9426	
protein_coding	nuclear export mediator factor [Source:HGNC			
Symbol;Acc:HGNC:10663]"	-	759	527	494 373 295
369	3.94314751	2.649168733	3.260666339	
2.198839044	1.923720357	1.820245428		
ENSG00000154845	2249.075145	1862.029802	2333.120741	
1532.197404	1604.93751	1463.89846	2148.075229	
1533.677791	0.485947577	0.001111718	0.013665862	PPP4R1
18	9546791	9615240	- 8131	protein_coding
protein phosphatase 4 regulatory subunit 1 [Source:HGNC				
Symbol;Acc:HGNC:9320]"	-	2479	2104	2007 1479 1406
1697	14.93004956	12.26106558	15.35713698	
10.1073256	10.62890976	9.704404697		
ENSG00000160714	1889.803762	2350.547127	1929.736139	
2656.223221	2889.115817	3028.725688	2056.695676	
2858.021575	-0.47450259	0.001114953	0.013696109	UBE2Q1
1	154548577	154559028	- 4161	
protein_coding	ubiquitin conjugating enzyme E2 Q1 [Source:HGNC			
Symbol;Acc:HGNC:15698]"	-	2083	2656	1660 2564 2531
3511	24.51434183	30.24522333	24.82088251	
34.23988905	37.38882264	39.23413949		
ENSG00000267041	241.328757	198.2389143	176.6987308	

415.4233665	360.7114177	322.6270029	205.422134	
366.253929	-0.832021548	0.001118089	0.013725101	ZNF850
19	36714383	36772825	- 7850	
protein_coding	zinc finger protein 850 [Source:HGNC			
Symbol;Acc:HGNC:27994]	zf-C2H2	266 224	152 401	316
374	1.659360178	1.352087514	1.20470518	
2.83848602	2.474370824	2.215302122		
ENSG00000152402	381.0454057	306.208323	398.7346359	
250.7043758	179.214217	149.2365548	361.9961215	
193.0517159	0.907685916	0.001120542	0.013739263	
GUCY1A2 11	106674012	107018524	- 16361	
protein_coding	guanylate cyclase 1 soluble subunit alpha 2			
[Source:HGNC Symbol;Acc:HGNC:4684]		-	420 346	343
242	157 173	1.257095088	1.00205762	
1.304340928	0.821897321	0.589844003	0.491662717	
ENSG00000105372	17417.40404	22613.39615	24179.82632	
25129.48778	32250.56862	33830.11544	21403.54217	
30403.39061	-0.506435818	0.001120796	0.013739263	RPS19
19	41859918	41872926	+ 3799	
protein_coding	ribosomal protein S19 [Source:HGNC			
Symbol;Acc:HGNC:10402]	-	19198 25552	20800 24257	28253
39217	247.4659082	318.6999872	340.6441131	
354.7969177	457.1330657	479.994314		
ENSG00000117475	1082.350402	1029.249363	860.2438209	
1575.708081	1287.602782	1463.035821	990.6145288	
1442.115561	-0.541193711	0.001126107	0.013794807	BLZF1
1	169367970	169396540	+ 3820	
protein_coding	basic leucine zipper nuclear factor 1 [Source:HGNC			
Symbol;Acc:HGNC:1065]	Others	1193 1163	740 1521	1128
1696	15.29346045	14.42589586	12.05244625	
22.12472569	18.15068822	20.64398349		
ENSG00000079819	2108.451245	1721.315573	1969.260855	
1511.478034	1310.432619	1278.431065	1933.009224	
1366.780573	0.500103053	0.001128471	0.013814197	
EPB41L2 6	130839347	131063322	- 10320	
protein_coding	erythrocyte membrane protein band 4.1 like 2			
[Source:HGNC Symbol;Acc:HGNC:3379]		-	2324 1945	1694
1459	1148 1482	11.02770424	8.930306181	
10.21269955	7.855749713	6.837692262	6.677279024	
ENSG00000109107	2297.159446	3038.188361	3231.726787	
3651.788945	6173.187807	3670.529138	2855.691531	
4498.501963	-0.655528637	0.001132184	0.013845258	ALDOC
17	28573115	28577264	- 2928	
protein_coding	"aldolase, fructose-bisphosphate C [Source:HGNC			
Symbol;Acc:HGNC:418]"	-	2532 3433	2780 3525	5408
4255	42.34686969	55.55577008	59.07184972	
66.89599112	113.5306098	67.57086992		
ENSG00000089234	501.7097842	430.9926396	416.1720107	
680.6313012	686.0365887	697.8749876	449.6248115	
688.1809592	-0.613406693	0.001132573	0.013845258	BRAP

12	111642146	111685986	-	4686	
protein_coding	BRCA1 associated protein [Source:HGNC				
Symbol;Acc:HGNC:1099]	-	553	487	358	657 601
809	5.778984513	4.924397677	4.753216423		
7.790675744	7.88350864	8.027443462			
ENSG00000179051	6191.080592	6843.667519	7470.171342		
4831.75706	4688.106938	5620.09338	6834.973151		
5046.65246	0.437281756	0.00113704	0.01389026		RCC2
1	17406760	17439724	-	4126	
protein_coding	regulator of chromosome condensation 2 [Source:HGNC				
Symbol;Acc:HGNC:30297]	-	6824	7733	6426	4664 4107
6515	80.99132017	88.80659676	96.89878782		
62.81181773	61.18470063	73.42031011			
ENSG00000144935	448.1819772	288.5084199	442.9093186		
168.8628647	253.4111859	209.621288	393.1999052		
210.6317795	0.900568861	0.001140279	0.013920215		TRPC1
3	142724074	142807888	+	4768	
protein_coding	transient receptor potential cation channel subfamily				
C member 1 [Source:HGNC	Symbol;Acc:HGNC:12333]				- 494 326
381	163	222	243	5.073636929	3.239722366
4.971593088	1.899605426	2.861963482	2.369741886		
ENSG00000113594	410.9846876	320.3682454	383.6222445		
238.2727538	203.1855454	198.4069804	371.6583925		
213.2884266	0.801198913	0.001147367	0.013997083		LIFR
5	38474963	38608354	-	11864	
protein_coding	LIF receptor alpha [Source:HGNC				Symbol;Acc:HGNC:6597]
-	453	362	330	230	178 230
1.869802549	1.445785528	1.730571903	1.077230749		
0.922223585	0.901421093				
ENSG00000233672	5.443505796	9.734946684	26.73730795		0
0	0	13.97192014	0	6.232646757	
0.001154416	0.014073379	RNASEH2B-AS1	13	50862172	
50910764	-	4642	antisense	RNASEH2B	
antisense RNA 1 [Source:HGNC	Symbol;Acc:HGNC:39967]				- 6
11	23	0	0	0	0.063295786
0.112282995	0.308268782	0	0	0	
ENSG00000130309	5925.256059	6794.992786	7292.31012		
4677.397754	5141.279194	5111.136343	6670.852988		
4976.604431	0.422561564	0.001160763	0.014141003		
COLGALT1	19	17555594	17583162	+	4900
protein_coding	collagen beta(1-0)galactosyltransferase 1				
[Source:HGNC	Symbol;Acc:HGNC:26182]				- 6531 7678 6273
4515	4504	5925	65.2698008	74.24692447	
79.65005025	51.20044296	56.50015796	56.22420105		
ENSG00000125037	1525.088874	1729.280529	1656.550601		
2088.512486	2424.528643	2239.410962	1636.973335		
2250.817363	-0.459320313	0.001162055	0.014147004		EMC3
3	9962537	10011116	-	4270	protein_coding
ER membrane protein complex subunit 3 [Source:HGNC	Symbol;Acc:HGNC:23999]				- 1681 1954 1425 2016 2124



2596	19.27829058	21.6831875	20.76317842		
26.23461507	30.57553026	28.26882981			
ENSG00000167685	565.2173518	677.0212921	642.8578824		
832.9186699	928.0328563	1091.238392	628.3655088		
950.7299728	-0.598149259	0.00116543	0.014178325	ZNF444	
19	56132599	56160893	+ 7239		
protein_coding	zinc finger protein 444 [Source:HGNC				
Symbol;Acc:HGNC:16052]	zf-C2H2	623	765	553	804
1265	4.214423293	5.007365576	4.752842264	813	
6.171482698	6.903341043	8.125366646			
ENSG00000186106	282.1550504	352.2280709	310.3852705		
409.2075555	598.141718	592.6330241	314.9227973		
533.3274325	-0.759937439	0.001175586	0.014292054		
ANKRD46	8	100509752	100559784	-	5820
protein_coding	ankyrin repeat domain 46 [Source:HGNC				
Symbol;Acc:HGNC:27229]	-	311	398	267	395
687	2.616773228	3.240309755	2.854270463	524	
3.77125722	5.534210354	5.488640306			
ENSG00000067334	3678.902667	3654.144987	2896.929192		
5297.942883	4351.366849	4573.712218	3409.992282		
4741.007317	-0.47507849	0.001176568	0.014294174		
DNTTIP2	1	93866283	93879918	-	7519
protein_coding	deoxynucleotidyltransferase terminal interacting				
protein	2 [Source:HGNC Symbol;Acc:HGNC:24013]				
2492	5114	3812	5302	26.40945611	4055
20.62029147	37.79311444	31.16306513	32.78767765	4129	
ENSG00000230838	13.60876449	6.194966072	20.9248497	0	
0	0	13.57619342	0	6.192897451	
0.001177539	0.014296154	LINC01614	2	215718043	
215719424	+	648	lincRNA	long intergenic non-	
protein_coding	RNA 1614 [Source:HGNC Symbol;Acc:HGNC:51847]				
15	7	18	0	0	1.133561107
0.511857976	1.728241167	0	0	0	
ENSG00000168078	1208.458287	1083.234067	1306.640614		
558.3870188	303.6368263	129.3958568	1199.444323		
330.4732339	1.860309594	0.001179976	0.014315915	PBK	
8	27809620	27838095	-	2165	
protein_coding	PDZ binding kinase [Source:HGNC Symbol;Acc:HGNC:18282]				
-	1332	1224	1124	539	266
30.1283264	26.78859633	32.30094715	13.83384509		
7.552158501	3.221546293				
ENSG00000160293	749.3892979	725.6960256	838.1564796		
570.8186407	503.3978962	401.1271561	771.080601		
491.781231	0.649511661	0.001183497	0.014348783	VAV2	
9	133761894	133992604	-	5682	
protein_coding	vav guanine nucleotide exchange factor 2 [Source:HGNC				
Symbol;Acc:HGNC:12658]	-	826	820	721	551
465	7.118811633	6.838156939	7.894795446	441	
5.388432081	4.770728703	3.805246031			
ENSG00000100626	129.7368881	113.2793796	120.8991316		

60.0861727	35.38624667	10.35166854	121.3051331	
35.27469597	1.789370677	0.001191053	0.014430503	
GALNT16 14	69259277	69357033	+ 10802	
protein_coding	polypeptide N-acetylgalactosaminyltransferase 16			
[Source:HGNC Symbol;Acc:HGNC:23233]	-	143	128	104
58	31	12	0.648276902	0.561477345
0.599012676	0.298356748	0.176402559	0.051654492	
ENSG00000115806	2105.729492	1954.069298	2184.32181	
2956.654084	2561.507662	2979.555262	2081.373533	
2832.572336	-0.445052341	0.001194466	0.014456369	
GORASP2 2	170928464	170967129	+ 5340	
protein_coding	golgi reassembly stacking protein 2 [Source:HGNC			
Symbol;Acc:HGNC:17500]	-	2321	2208	1879 2854 2244
3454	21.2844566	19.59224725	21.89234934	
29.69783263	25.83027059	30.07544724		
ENSG00000004478	2868.727554	3399.266383	3148.027388	
3512.969166	4865.038172	5133.564958	3138.673775	
4503.857432	-0.521088091	0.001194822	0.014456369	FKBP4
12	2794953	2805423	+ 5180	protein_coding FK506
binding protein 4	[Source:HGNC Symbol;Acc:HGNC:3720]			- 3162
3841	2708	3391	4262	5951
35.13508336	32.52563221	36.3755923	50.57443572	
53.41844094				
ENSG00000085999	537.0925719	577.901835	542.8836005	
331.5099184	310.4857773	395.9513218	552.6260024	
345.9823391	0.67418949	0.001198139	0.014486586	RAD54L
1	46247688	46278473	+ 3212	
protein_coding	RAD54 like [Source:HGNC Symbol;Acc:HGNC:9826]			-
592	653	467	320	272
9.633056011	9.045825186	5.535877679	5.20523963	
6.644589676				
ENSG00000173581	584.2696221	817.7355215	685.8700734	
900.2566221	1083.275745	1268.079397	695.9584057	
1083.870588	-0.639405711	0.001208822	0.014605769	
CCDC106 19	55641062	55653161	+ 2709	
protein_coding	coiled-coil domain containing 106 [Source:HGNC			
Symbol;Acc:HGNC:30181]	-	644	924	590 869 949
1470	11.64140895	16.16178805	13.55032941	
17.82472405	21.53300135	25.23128376		
ENSG00000227500	2343.429245	2776.229795	2726.042919	
3244.653326	3641.358932	3817.177775	2615.233986	
3567.730011	-0.448288658	0.001215619	0.014677873	SCAMP4
19	1905214	1926013	+ 6953	protein_coding
secretory carrier membrane protein 4	[Source:HGNC			
Symbol;Acc:HGNC:30385]	-	2583	3137	2345 3132 3190
4425	18.1920173	21.37808159	20.98347754	
25.03004138	28.20108476	29.59184638		
ENSG00000151023	25.40302705	26.54985459	12.78740815	
56.97826722	49.08414861	152.687111	21.5800966	
86.24984228	-1.994522448	0.001226093	0.014794248	ENKUR

10	24981979	25062279	-	4076	
protein_coding	"enkurin, TRPC channel interacting protein [Source:HGNC Symbol;Acc:HGNC:28388]"				11
55	43	177	0.33639733	0.348749441	
0.167905668	0.749791578	0.648457683	2.019157094		
ENSG00000134030	604.2291433	536.3070628	669.5951903		
730.3577889	1053.596957	1061.046026	603.3771322		
948.3335907	-0.65330623	0.001231298	0.014846919		CTIF
18	48539046	48863217	+	8100	
protein_coding	cap binding complex dependent translation initiation factor [Source:HGNC Symbol;Acc:HGNC:23925]				
576	705	923	1230	4.026409053	666 606
4.424297387	4.836332395	7.004288764	7.060754487		
ENSG00000184009	107860.3456	112744.8425	126486.0665		
148354.8323	151132.3766	148605.9657	115697.0849		
149364.3915	-0.368493903	0.001240924	0.014952795		ACTG1
17	81509971	81523847	-	2993	
protein_coding	actin gamma 1 [Source:HGNC Symbol;Acc:HGNC:144]				-
118887	127396	108806	143204	132399	172269 1945.1645
2016.858901	2261.793619	2658.645762	2719.101054		
2676.279294					
ENSG00000144857	340.2191122	301.7833472	332.4726119		
132.6039673	232.8643329	142.3354425	324.8250238		
169.2679143	0.943198045	0.001244508	0.014976824		BOC
3	113211003	113287459	+	10330	
protein_coding	"BOC cell adhesion associated, oncogene regulated [Source:HGNC Symbol;Acc:HGNC:17173]"				
128	204	165	1.777704737	1.564157561	375 341 286
1.722552861	0.688528136	1.213884053	0.742702081		
ENSG00000198176	5596.831209	5805.568204	5460.22328		
4471.240024	4350.225357	4095.810187	5620.874231		
4305.758523	0.384698314	0.001244611	0.014976824		TFDP1
13	113584721	113641470	+	3741	
protein_coding	transcription factor Dp-1 [Source:HGNC Symbol;Acc:HGNC:11749]				
4748	80.75245708	83.08881631	78.11594637		6169 6560 4697 4316 3811
64.10704689	62.61791472	59.01385975			
ENSG00000224543	23.58852512	16.81490791	18.5998664		
1.035968495	0	0.862639045	19.66776647	0.63286918	
4.909178359	0.0012486	0.015009872	SNRPGP15		
19	14489388	14489609	+	222	
processed_pseudogene	small nuclear ribonucleoprotein polypeptide G pseudogene 15 [Source:HGNC Symbol;Acc:HGNC:49371]				26
19	16	1	0	1	5.735206467
4.055338095	4.48408519	0.250298974	0	0.209448881	
ENSG00000082898	5789.168414	4618.789704	5180.062792		
4366.607206	3395.938189	3368.605472	5196.00697		
3710.383622	0.485881259	0.001249055	0.015009872		XP01
2	61477849	61538626	-	11708	
protein_coding	exportin 1 [Source:HGNC Symbol;Acc:HGNC:12825]				-

	6381	5219	4456	4215	2975	3905	26.68914827	
	21.12180476		23.67932482		20.00446351		15.61894216	
	15.50848387							
ENSG00000088826	293.949313			243.3736671		446.3967936		
123.2802509	154.1013968			205.3080928		327.9065912		
160.8965802	1.023001841			0.001254253		0.015053467		SMOX
20	4120980	4187747	+	2946		protein_coding		
spermine oxidase [Source:HGNC Symbol;Acc:HGNC:15862]						-		324
275	384	119		135	238	5.385685032		
4.423096271	8.109710078			2.244534383		2.81675054		
3.756429415								
ENSG00000102908	1858.049978			1497.411799		1504.264195		
2513.259569	1973.639371			2474.911421		1619.908657		
2320.603453	-0.518631304			0.001254508		0.015053467		NFAT5
16	69565094			69704666		+	16401	
protein_coding nuclear factor of activated T cells 5 [Source:HGNC Symbol;Acc:HGNC:7774]	RHD			2048	1692	1294	2426	1729
2869	6.114885188			4.888284464		4.908748644		
8.21925608	6.479955521			8.133757829				
ENSG00000164125	316.6305871			141.5992245		210.4109886		
2.07193699	45.65967313			21.56597613		222.8802668		
23.09919542	3.273483849			0.001255236		0.015053467		
FAM198B 4	158124474			158173318		-	7880	
protein_coding family with sequence similarity 198 member B [Source:HGNC Symbol;Acc:HGNC:25312]						-	349	160
2	40	25		2.168841891		0.962099981		181
1.429088762	0.01410314			0.312019067		0.14751793		
ENSG00000065308	2953.101894			2798.354674		2696.980628		
2421.058373	1425.723293			1783.074907		2816.145732		
1876.618858	0.585484596			0.001262875		0.015127878		TRAM2
6	52497402			52576915		-	6908	
protein_coding translocation associated membrane protein 2 [Source:HGNC Symbol;Acc:HGNC:16855]						-	3255	3162
2337	1249	2067		23.07423692		21.68882265		2320
20.89500612	18.79829355			11.1136693		13.91294813		
ENSG00000125170	124.2933823			153.1041615		163.9113226		
319.0782964	253.4111859			256.2037964		147.1029555		
276.2310929	-0.910472898			0.001263151		0.015127878		DOK4
16	57471922			57487327		-	4788	
protein_coding docking protein 4 [Source:HGNC Symbol;Acc:HGNC:19868]								
-	137	173		141	308	222	297	
1.401183805	1.71205772			1.832195523		3.574444995		
2.850008747	2.884252819							
ENSG00000158545	4292.20432			4552.415068		4186.132431		
5065.88594	5985.983147			6697.529548		4343.58394		
5916.466212	-0.445895314			0.0012729		0.015234327		ZC3H18
16	88570381			88631966		+	8648	
protein_coding zinc finger CCH-type containing 18 [Source:HGNC Symbol;Acc:HGNC:25091]								
7764	26.78958282			4731	5144	3601	4890	5244
				28.18458989		25.9068307		

31.41993063	37.27300111	41.74465382				
ENSG00000268001	107.055614	125.6693117	104.6242485			
212.3735415	207.7515127	240.6762936	112.4497247			
220.2671159	-0.969457675	0.001286342	0.01537687	CARD8-		
AS1 19	48255675	48258199	+ 1969			
antisense	CARD8 antisense RNA 1 [Source:HGNC					
Symbol;Acc:HGNC:51408]	-	118 142	90 205	182		
279	2.934708532	3.417189546	2.843830056			
5.785224125	5.681631098	6.588544829				
ENSG00000163347	27.21752898	30.97483036	31.38727455			
32.11502334	138.1205112	157.0003062	29.85987796			
109.0786136	-1.870772595	0.001286549	0.01537687	CLDN1		
3	190305701	190322475	- 3663			
protein_coding	claudin 1 [Source:HGNC Symbol;Acc:HGNC:2032]			-		
30	35 27	31 121	182	0.401063389		
0.45274907	0.458599622	0.470258678	2.030466422			
2.310284623						
ENSG00000278540	2761.67194	2369.132025	2462.157314			
2021.174534	1732.784595	1025.677825	2530.987093			
1593.212318	0.668483374	0.001288429	0.015388942	ACACA		
17	37084988	37406818	- 13008			
protein_coding	acetyl-CoA carboxylase alpha [Source:HGNC					
Symbol;Acc:HGNC:84]	-	3044 2677	2118 1951	1518		
1189	11.45942439	9.751339652	10.13029924			
8.334101489	7.173128378	4.250131276				
ENSG00000207751	3.629003864	23.89486913	13.9498998	0		
0	0	13.82459093	0	6.222537452		
0.001292007	0.015421267	AP000553.1	22	21652270		
21670237	+	1093	processed_transcript	novel		
transcript	-	4	27	12	0	0
0.179212589	1.170496294	0.683074276	0	0	0	
0						
ENSG00000196498	5655.802522	4733.839074	6028.681696			
4384.21867	3717.838884	3910.342792	5472.774431			
4004.133449	0.450572916	0.001300391	0.01551087	NCOR2		
12	124324415	124567589	- 13975			
protein_coding	nuclear receptor corepressor 2 [Source:HGNC					
Symbol;Acc:HGNC:7673]	MYB	6234 5349	5186 4232	3257		
4533	21.84457828	18.13623866	23.08806532			
16.82696867	14.32561589	15.08220782				
ENSG00000173281	513.5040467	587.6367817	646.3453573			
953.0910153	760.2335576	942.8644765	582.4953953			
885.3963498	-0.605520345	0.001303825	0.015540185			
PPP1R3B 8	9136255 9151574	- 5776	protein_coding			
protein phosphatase 1 regulatory subunit 3B [Source:HGNC						
Symbol;Acc:HGNC:14942]	-	566 664	556 920	666		
1093	4.798637352	5.447124926	5.989001938			
8.850599451	7.087521752	8.79881113				
ENSG00000130772	514.4112977	592.9467526	563.8084502			
716.8901985	967.9850703	866.0896015	557.0555002			

850.3216234	-0.609992635	0.001304606	0.015540185	MED18
1	28329002	28335967	+ 2019	
protein_coding	mediator complex subunit 18 [Source:HGNC			
Symbol;Acc:HGNC:25944]	-	567 670	485 692	848
1004	13.75230272	15.72406841	14.94556254	
19.04503693	25.81706651	23.12216053		
ENSG00000253729	14036.98695	11821.76526	11673.74115	
11036.17238	7311.255159	7787.905301	12510.83112	
8711.777612	0.522174656	0.001307392	0.015562894	PRKDC
8	47773108	47960183	- 15417	
protein_coding	"protein kinase, DNA-activated, catalytic subunit			
[Source:HGNC Symbol;Acc:HGNC:9413]"	-		15472 13358	10042
10653	6405 9028	49.14453927	41.05518444	
40.5253889	38.39583337	25.53680863	27.228436	
ENSG00000152104	4941.796012	4249.746725	5181.225284	
4107.615082	3123.121642	2753.543833	4790.922674	
3328.093519	0.525661501	0.001308616	0.015566986	PTPN14
1	214348696	214552449	- 18756	
protein_coding	"protein tyrosine phosphatase, non-receptor type 14			
[Source:HGNC Symbol;Acc:HGNC:9647]"	-		5447 4802	4457
3965	2736 3192	14.22151405	12.13132876	
14.78458902	11.74667657	8.966505706	7.913227958	
ENSG00000125755	2635.564056	2869.154286	2678.380761	
3326.494837	3543.190635	4654.800288	2727.699701	
3841.495253	-0.494254481	0.001316411	0.015649191	SYMPK
19	45815410	45863290	- 10628	
protein_coding	sympleskin [Source:HGNC Symbol;Acc:HGNC:22935]			-
2905	3242 2304	3211 3104	5396 13.38515099	
14.45399518	13.48769621	16.78807124	17.95219376	
23.60757692				
ENSG00000092621	4812.059124	6396.744967	6564.590347	
7371.95181	8103.450488	9658.96939	5924.464812	
8378.123896	-0.500160618	0.001320468	0.015686871	PHGDH
1	119648411	119744226	+ 9217	
protein_coding	phosphoglycerate dehydrogenase [Source:HGNC			
Symbol;Acc:HGNC:8923]	-	5304 7228	5647 7116	7099
11197	28.18010529	37.15822817	38.11843369	
42.90010899	47.34290999	56.48629748		
ENSG00000091409	890.9204486	700.0311661	666.1077154	
598.7897901	218.0249392	358.8578428	752.35311	
391.8908574	0.940622091	0.001344297	0.015959241	ITGA6
2	172427354	172506282	+ 6533	
protein_coding	integrin subunit alpha 6 [Source:HGNC			
Symbol;Acc:HGNC:6142]	-	982 791	573 578	191
416	7.360842295	5.737071549	5.456935373	
4.916173754	1.797082724	2.960817852		
ENSG00000233968	123.3861314	101.7744426	118.5741483	
62.15810969	30.82027936	18.978059	114.5782408	
37.31881602	1.622663709	0.001359428	0.01612805	
AL157895.1	10 19710328	19728550	-	2151

antisense	uncharacterized LOC101928834 [Source:NCBI					
gene;Acc:101928834]	-	136	115	102	60	27
22	3.096186991	2.533283945	2.950302912			
1.549968541	0.771561794	0.475568728				
ENSG00000225163	16.33051739	15.92991276	6.974949899	0		
0	0	13.07846001	0	6.144889216		
0.001363444	0.016164858	LINC00618	14	96931367		
96945394	+	700	sense_overlapping			long
intergenic non-protein coding RNA 618 [Source:HGNC						
Symbol;Acc:HGNC:20110]	-	18	18	6	0	0
0	1.259224453	1.218430904	0.533285846	0		
0	0					
ENSG00000152894	3258.84547	2706.315178	3619.998998			
2716.309394	1949.668043	1732.179203	3195.053215			
2132.71888	0.583132026	0.001364511	0.016166665			PTPRK
6	127968779	128520674	-	9000		
protein_coding	"protein tyrosine phosphatase, receptor type K					
[Source:HGNC Symbol;Acc:HGNC:9674]"	-		3592	3058		3114
2622	1708	2008	19.54440719	16.09983453		
21.52697197	16.18833643	11.66521418	10.37414269			
ENSG00000109472	578.8261163	602.6816993	906.7434869			
416.459335	473.7191087	360.5831209	696.0837675			
416.9205215	0.739151839	0.001369239	0.016211832			CPE
4	165361194	165498320	+	2958		
protein_coding	carboxypeptidase E [Source:HGNC Symbol;Acc:HGNC:2303]					
-	638	681	780	402	415	418
10.56212232	10.9087599	16.40602162	7.551616506			
8.623772424	6.570662044					
ENSG00000216636	0	0	0	8.287747959	9.131934625	
21.56597613	0	12.99521957	-6.178854799			
0.001371162	0.016223733	RPL7P25 6	34616538			
34617258	+	721	processed_pseudogene	ribosomal		
protein L7 pseudogene 25 [Source:HGNC Symbol;Acc:HGNC:36455]						-
0	0	0	8	8	25	0
0	0.616547819	0.682027808	1.612262535			
ENSG00000182179	416.4281934	370.8129692	344.0975284			
273.4956827	167.7992987	179.4289214	377.112897			
206.9079676	0.866700862	0.001372423	0.016227805			UBA7
3	49805207	49813946	-	4545		
protein_coding	ubiquitin like modifier activating enzyme 7					
[Source:HGNC Symbol;Acc:HGNC:12471]	-		459	419		296
264	147	208	4.945468973	4.368240854		
4.051955528	3.227617659	1.988066043	2.127945327			
ENSG00000198815	2397.864303	1887.694662	1893.698898			
3042.63947	2806.928405	2734.565774	2059.752621			
2861.377883	-0.473904508	0.001387133	0.016390782			FOXJ3
1	42176539	42335877	-	6893		
protein_coding	forkhead box J3 [Source:HGNC Symbol;Acc:HGNC:29178]					
Fork	2643	2133	1629	2937	2459	3170
18.77662653	14.66253351	14.70346366	23.67596622			

21.9279287	21.3836581				
ENSG00000104221	255.8447724	288.5084199	318.5227121		
421.6391774	461.1626986	537.4241252	287.6253015		
473.4086671	-0.720853013	0.001393859	0.016438473	BRF2	
8	37843268	37849904	- 2760		
protein_coding	"BRF2, RNA polymerase III transcription initiation				
factor subunit	[Source:HGNC Symbol;Acc:HGNC:17298]"				282
326	274 407	404 623	5.003440157		
5.596737769	6.176583648	8.194026625	8.997454171		
10.49566554					
ENSG00000171490	4947.239517	5160.406738	5023.126419		
6138.113332	6885.478708	6669.062459	5043.590892		
6564.218166	-0.380140413	0.001394267	0.016438473	RSL1D1	
16	11833850	11851585	- 6167		
protein_coding	ribosomal L1 domain containing 1 [Source:HGNC				
Symbol;Acc:HGNC:24534]	-	5453 5831	4321 5925	6032	
7731	43.30023295	44.80180731	43.59304085		
53.38588541	60.12218348	58.28982386			
ENSG00000087510	93.4468495	66.37463648	79.04943219		
17.61146441	28.5372957	27.60444945	79.62363939		
24.58440319	1.694912078	0.001394598	0.016438473	TFAP2C	
20	56629302	56639283	+ 3005		
protein_coding	transcription factor AP-2 gamma [Source:HGNC				
Symbol;Acc:HGNC:11744]	AP-2	103 75	68 17	25	
32	1.678500334	1.182614577	1.407898295		
0.314352189	0.511379003	0.4951497			
ENSG00000112977	3193.5234	3119.607915	3915.271877		
2835.445771	2244.172934	2093.624963	3409.467731		
2391.081223	0.51174345	0.001394887	0.016438473	DAP	
5	10679230	10761272	- 3361		
protein_coding	death associated protein [Source:HGNC				
Symbol;Acc:HGNC:2672]	-	3520 3525	3368 2737	1966	
2427	51.28647314	49.6954983	62.34626153		
45.24997344	35.95525401	33.57625712			
ENSG00000167283	599.6928885	774.370759	859.0813293		
508.660531	481.7095515	427.0063274	744.3816589		
472.4588033	0.655652364	0.001395971	0.016440306	ATP5MG	
11	118401154	118431496	+ 3382		
protein_coding	ATP synthase membrane subunit g [Source:HGNC				
Symbol;Acc:HGNC:14247]	-	661 875	739 491	422	
495	9.570982888	12.25916501	13.5949521		
8.06714629	7.669838298	6.805540358			
ENSG00000040531	548.8868344	774.370759	544.0460921		
1075.335298	945.1552337	881.6171043	622.4345618		
967.3692119	-0.634909639	0.001404721	0.016532346	CTNS	
17	3636468 3661542	+ 3398			
protein_coding	"cystinosin, lysosomal cystine transporter				
[Source:HGNC Symbol;Acc:HGNC:2518]"	-		605 875	468	
1038	828 1022	8.718879664	12.20144086		
8.568983866	16.97407132	14.97801711	13.98487341		



ENSG00000141644	1700.18831	1793.00018	1618.188377	
2227.332264	2390.283888	2273.053884	1703.792289	
2296.890012	-0.430536146	0.00140824	0.01656274	MBD1
18	50266882	50281774	- 6734	
protein_coding	methyl-CpG binding domain protein 1 [Source:HGNC			
Symbol;Acc:HGNC:6916]	MBD	1874	2026	1392 2150 2094
2635	13.62778138	14.2558386	12.86094763	
17.74097123	19.11397112	18.19443298		
ENSG00000100934	1976.899855	1655.825931	2393.570307	
1484.542853	1441.704179	884.2050214	2008.765364	
1270.150685	0.661715038	0.001420362	0.01669421	SEC23A
14	39031919	39109646	- 8945	
protein_coding	"Sec23 homolog A, coat complex II component			
[Source:HGNC Symbol;Acc:HGNC:10701]"	-	2179	1871	2059
1433	1263 1025	11.92904203	9.911054937	
14.32131339	8.901801159	8.679013539	5.328126639	
ENSG00000167767	858.2594138	813.3105457	816.0691382	
664.0558052	485.134027	435.6327179	829.2130326	
528.2741834	0.651188426	0.001422244	0.016705224	KRT80
12	52168996	52192000	- 4350	
protein_coding	keratin 80 [Source:HGNC Symbol;Acc:HGNC:27056] -			
946	919 702	641 425	505 10.64953298	
10.01042913	10.04048523	8.188056226	6.005470435	
5.39800322				
ENSG00000225648	508.0605409	506.2172276	606.8206412	
311.826517	218.0249392	397.6765999	540.3661366	
309.1760187	0.80215385	0.001429214	0.016775959	SBDSP1
7	72829425	72836701	+ 1239	
transcribed_unprocessed_pseudogene	"SBDS, ribosome maturation			
factor pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:21646]"	-			
560	572 522	301 191	461 22.13326094	
21.87515622	26.21235513	13.49917517	9.475658949	
17.30057897				
ENSG00000137876	2695.44262	3169.167643	3514.212258	
4012.305981	4382.187128	4398.596492	3126.274174	
4264.3632	-0.448243473	0.001433481	0.016803475	
RSL24D1 15	55180806	55197067	- 3009	
protein_coding	ribosomal L24 domain containing 1 [Source:HGNC			
Symbol;Acc:HGNC:18479]	-	2971 3581	3023 3873	3839
5099	48.35141048	56.39084132	62.50615809	
71.52162165	78.4229698	78.79412595		
ENSG00000136718	1800.893167	2124.873363	1859.98664	
2173.461902	2818.343324	3711.935812	1928.58439	
2901.247013	-0.589364432	0.001433725	0.016803475	IMP4
2	130342225	130347810	+ 3861	
protein_coding	"IMP4, U3 small nucleolar ribonucleoprotein			
[Source:HGNC Symbol;Acc:HGNC:30856]"	-	1985	2401	1600
2098	2469 4303	25.17615438	29.46583817	
25.78261881	30.19379665	39.30688684	51.82061497	
ENSG00000103245	525.2983093	718.6160643	652.1578156	

792.5158986	1085.558729	1073.985611	632.0240631	
984.0200795	-0.638925533	0.001434408	0.016803475	CIA03
16	729753 741329	- 8101	protein_coding	
cytosolic iron-sulfur assembly component 3 [Source:HGNC				
Symbol;Acc:HGNC:14179]	-	579 812	561 765	951
1245	3.5000046	4.749455664	4.30854939	
5.247287339	7.215879048	7.145979029		
ENSG00000153179	534.370819	489.4023197	482.4340347	
382.2723746	267.1090878	213.9344832	502.0690578	
287.7719819	0.804497412	0.001442746	0.016889959	RASSF3
12	64507001	64697567	+ 4226	
protein_coding Ras association domain family member 3 [Source:HGNC				
Symbol;Acc:HGNC:14271]	-	589 553	415 369	234
248	6.825185911	6.200433862	6.109778285	
4.851867331	3.40356246	2.728683761		
ENSG00000167840	309.3725794	288.5084199	261.5606212	
447.5383898	519.3787818	432.1821617	286.4805402	
466.3664444	-0.701241636	0.001453477	0.017003458	ZNF232
17	5105541 5123116	- 2794	protein_coding zinc	
finger protein 232 [Source:HGNC Symbol;Acc:HGNC:13026] zf-C2H2 341				
326	225 432	455 501	5.976633995	
5.52863144	5.010291142	8.591507799	10.0099603	
8.337624696				
ENSG00000250657	55.34230892	68.14462679	17.43737475	
118.1004084	136.9790194	161.3135015	46.97477015	
138.7976431	-1.554060282	0.001454363	0.017003458	
AC097451.1	4 43340875	43345600	+ 681	
	processed_transcript	novel transcript	-	61
77	15 114	120 187	4.386432055	
5.35759714	1.370411498	9.301859664	10.83132268	
12.76807758				
ENSG00000088836	8.165258694	4.424975766	11.6249165	
31.07905485	46.80116496	53.48362081	8.071716986	
43.78794687	-2.455654818	0.001455707	0.017003984	
SLC4A11 20	3227417 3239559	- 4346	protein_coding solute	
carrier family 4 member 11 [Source:HGNC Symbol;Acc:HGNC:16438] -				
9	5 10	30 41	62 0.101410161	
	0.054513833	0.143158495	0.383569067	0.579884493
	0.663335111			
ENSG00000130717	1014.30658	1157.57366	1052.054943	
1352.974854	1521.608607	1711.475866	1074.645061	
1528.686442	-0.508628288	0.001456331	0.017003984	UCK1
9	131523801	131531268	- 2688	
protein_coding uridine-cytidine kinase 1 [Source:HGNC				
Symbol;Acc:HGNC:14859]	-	1118 1308	905 1306	1333
1984	20.36766404	23.0571126	20.94720879	
26.99764959	30.48233595	34.31969515		
ENSG00000154122	2540.302705	2293.022442	3487.47495	
2045.001809	1873.18809	1780.486989	2773.600032	
1899.558963	0.545636115	0.001457344	0.017004586	ANKH

5	14704800	14871785	-	12702	
protein_coding	ANKH inorganic pyrophosphate transport regulator				
[Source:HGNC Symbol;Acc:HGNC:15492]	-	2800	2591	3000	
1974	1641	2064	10.79480015	9.665442586	
14.69453992	8.635491948	7.941157924	7.55559382		
ENSG00000119801	524.3910583	448.6925426	661.4577488		
850.5301343	877.8072159	797.0784778	544.8471166		
841.805276	-0.629162049	0.001462707	0.017055913		YPEL5
2	30146941	30160533	+	3421	
protein_coding	yippee like 5 [Source:HGNC Symbol;Acc:HGNC:18329]				
-	578	507	569	821	769
8.273770074	7.022331481	10.34822919	13.33527962		
13.81721851	12.55885121				
ENSG00000090013	897.2712054	1273.508025	1200.853874		
1675.161056	1562.702313	1668.343914	1123.877702		
1635.402428	-0.541570366	0.001464892	0.017060032		BLVRB
19	40447765	40465840	-	1689	
protein_coding	biliverdin reductase B [Source:HGNC				
Symbol;Acc:HGNC:1063]	-	989	1439	1033	1617
1934	28.67446512	40.36989178	38.05200267		1369
53.19764586	49.82200016	53.24242629			
ENSG00000262001	93.4468495	64.60464618	89.51185704		
294.2150526	130.1300684	163.9014186	82.52111757		
196.0821799	-1.250113178	0.001466206	0.017060032		
DLGAP1-AS2	18	3603000	3608336	+	3171
DLGAP1 antisense RNA 2	[Source:HGNC Symbol;Acc:HGNC:28146]				
-	103	73	77	284	114
1.59063182	1.090819917	1.510780358	4.976616117	190	
2.209815266	2.786046605				
ENSG00000225285	12.70151352	15.0449176	10.46242485		0
0	0	12.73628533	0	6.10506556	
0.001466319	0.017060032	LINC01770	1	1430539	
1434573	-	851	lincRNA long intergenic non-protein coding RNA		
1770	[Source:HGNC Symbol;Acc:HGNC:52560]				
9	0	0	0	0.805614286	0.946554887
0.657990762	0	0	0		
ENSG00000180370	4123.45564	3961.238305	4103.595524		
5474.057527	5423.227676	4984.328404	4062.763157		
5293.871202	-0.381785689	0.001466918	0.017060032		PAK2
3	196739857	196832647	+	6270	
protein_coding	p21 (RAC1) activated kinase 2 [Source:HGNC				
Symbol;Acc:HGNC:8591]	-	4545	4476	3530	5284
5778	35.49727624	33.82587019	35.02789274		4751
46.82818353	46.57628545	42.84903196			
ENSG00000005102	1.814501932	19.46989337	20.9248497		0
0	0	14.06974833	0	6.245438762	
0.001473478	0.017125067	MEOX1	17	43640388	
43661954	-	2707	protein_coding mesenchyme homeobox 1		
[Source:HGNC Symbol;Acc:HGNC:7013]		Homeobox	2	22	
18	0	0	0	0.036180155	0.385088781

	0.413705311	0	0	0		
ENSG00000174444	32366.17821		30497.81797		36625.46192	
42025.09796	44207.69552		42854.18249		33163.1527	
43028.99199	-0.375764933		0.001474891		0.017130232	RPL4
15	66498015		66524532		- 5637	
protein_coding	ribosomal protein L4 [Source:HGNC					
Symbol;Acc:HGNC:10353]	-		35675 34461		31506 40566	38728
49678	309.9164513		289.6718425		347.7379427	
399.8767881	422.3032221		409.7765356			
ENSG00000135842	1482.448078		1535.466591		1364.765197	
2139.274942	1942.819092		1911.608124		1460.893289	
1997.900719	-0.451154543		0.001479739		0.017170069	
FAM129A 1	184790724		184974550		- 8372	
protein_coding	family with sequence similarity 129 member A					
[Source:HGNC	Symbol;Acc:HGNC:16784]	-			1634 1735	1174
2065	1702 2216		9.557658658		9.81966564	
8.724603998	13.70575234		12.4961922		12.30754846	
ENSG00000167671	2330.727732		2716.050125		3010.853373	
3118.26517	4133.34191		4208.815902		2685.877077	
3820.140994	-0.508590456		0.001480262		0.017170069	UBXN6
19	4444999 4457822	-	5275		protein_coding	UBX
domain protein 6	[Source:HGNC				-	2569
Symbol;Acc:HGNC:14928]						
3069	2590 3010		3621 4879		23.84900825	
27.56772103	30.548096		31.70706736		42.19426451	
43.00702212						
ENSG00000126351	635.9829272		493.8272954		831.1815297	
313.898454	458.8797149		374.3853456		653.6639174	
382.3878382	0.772923309		0.001496765		0.017340536	THRA
17	40058290		40093867		+ 6959	
protein_coding	thyroid hormone receptor alpha [Source:HGNC					
Symbol;Acc:HGNC:11796]	THR-like		701 558		715 303	
402	434 4.932872212		3.79938937		6.392431044	
2.419400888	3.550802989		2.899839165			
ENSG00000241945	12.70151352		20.35488852		211.5734803	
15.53952742	11.41491828		8.626390453		81.54329411	
11.86027872	2.779619223		0.001496919		0.017340536	PWP2
21	44107290		44131181		+ 6922	
protein_coding	"PWP2, small subunit processome component [Source:HGNC					
Symbol;Acc:HGNC:9711]"	-		14 23		182 15 10	
10	0.099043305		0.157442755		1.635861908	
0.120412537	0.088800572		0.067173724			
ENSG00000132254	1472.468318		1773.530287		1451.952071	
1629.578442	2794.371995		2913.994695		1565.983558	
2445.981711	-0.6432439		0.001499601		0.017351734	ARFIP2
11	6474683 6481479	-	5312		protein_coding	ADP
ribosylation factor interacting	protein 2 [Source:HGNC					
Symbol;Acc:HGNC:17160]	-		1623 2004		1249 1573	2448
3378	14.96198231		17.87582489		14.62888476	
16.4544246	28.32700814		29.56872492			
ENSG0000028310	1206.643785		1238.993214		1135.754342	

1361.262602	1977.063846	1912.470763	1193.797114	
1750.265737	-0.551805161	0.001499847	0.017351734	BRD9
5	850291 892824	- 9572	protein_coding	
bromodomain containing 9 [Source:HGNC Symbol;Acc:HGNC:25818]				-
1330	1400 977	1314 1732	2217	6.804208836
6.930296038	6.350365474	7.627895223		11.12224757
10.76946233				
ENSG00000154065	146.0674055	123.8993214	77.88694054	
223.7691949	262.5431205	228.599347	115.9512225	
238.3038875	-1.034375241	0.00151025	0.017460662	
ANKRD29 18	23598926	23662885	- 6391	
protein_coding ankyrin repeat domain 29 [Source:HGNC Symbol;Acc:HGNC:27110]	-	161 140	67 216	230
265	1.233632329	1.037972049	0.652248114	
1.878006008	2.212108266	1.928004639		
ENSG00000027847	399.190425	484.0923488	476.6215765	
697.2067971	690.602556	672.8584553	453.3014501	
686.8892695	-0.599959231	0.001524692	0.01761612	
B4GALT7 5	177600100	177610347	+ 4927	
protein_coding "beta-1,4-galactosyltransferase 7 [Source:HGNC Symbol;Acc:HGNC:930]"	-	440 547	410 673	605
780	4.373194546	5.260550631	5.177357342	
7.590048405	7.547796329	7.361105778		
ENSG00000168906	4714.98327	5112.617	4160.557615	
5542.431448	6256.51671	7712.855704	4662.719295	
6503.934621	-0.480119401	0.0015303	0.017665481	MAT2A
2	85539165	85545280	+ 4487	
protein_coding methionine adenosyltransferase 2A [Source:HGNC Symbol;Acc:HGNC:6904]	-	5197 5777	3579 5350	5481
8941	56.71857758	61.00602647	49.62636615	
66.25364192	75.08463825	92.65333231		
ENSG00000101974	1975.992604	1254.923127	1578.663661	
1223.478792	1006.795792	905.7709975	1603.193131	
1045.348527	0.617277291	0.001531859	0.017665481	ATP11C
X	139726346	139945276	- 7407	
protein_coding ATPase phospholipid transporting 11C [Source:HGNC Symbol;Acc:HGNC:13554]	-	2178 1418	1358 1181	882
1050	14.39939397	9.071107778	11.40681169	
8.859711836	7.319368298	6.591404627		
ENSG00000210077	160.583421	123.8993214	119.7366399	
189.5822346	229.4398575	472.7261968	134.7397941	
297.2494296	-1.14274386	0.00153196	0.017665481	MT-TV
MT	1602 1670	+ 69	Mt_tRNA	
mitochondrially encoded tRNA valine [Source:HGNC Symbol;Acc:HGNC:7500]	-	177 140	103 183	201
548	125.6182848	96.14028069	92.87417749	
147.3716828	179.0582464	369.285696		
ENSG00000135956	1979.621608	2419.576749	2039.010354	
2634.467883	3050.066165	3224.544751	2146.06957	
2969.692933	-0.468521325	0.001534893	0.017687764	

TMEM127	2	96248516	96265994	-	6367	
protein_coding		transmembrane protein 127	[Source:HGNC			
Symbol;Acc:HGNC:26038]	-	2182	2734	1754	2543	2672
	3738	16.78218792	20.3465182	17.13963566		
22.19338535		25.7957978	27.29829139			
ENSG00000133424		9.07250966	10.61994184	18.5998664		0
	0	0	12.76410597	0	6.104470912	
0.001537975		0.017711741	LARGE1	22	33162226	
33922841	-	10687	protein_coding	LARGE xylosyl- and		
glucuronyltransferase 1	[Source:HGNC	Symbol;Acc:HGNC:6511]	-			
	10	12	16	0	0	0.045821877
	0.05320493	0.093147461	0	0	0	
ENSG00000103194		3249.77296	3148.812755	3359.600868		
3746.062078		4768.011366	4737.613637	3252.728861		
4417.229027		-0.441619662	0.001546499	0.01779832		USP10
	16	84699978	84779922	+	5083	
protein_coding		ubiquitin specific peptidase 10	[Source:HGNC			
Symbol;Acc:HGNC:12608]	-	3582	3558	2890	3616	4177
	5492	34.50914151	33.16746464	35.37403325		
39.52941214		50.51166983	50.23905214			
ENSG00000182580		131.5513901	66.37463648	156.9363727		
34.18696033		57.07459141	13.80222472	118.2874664		
35.02125882		1.764392909	0.001556397	0.017900587		EPHB3
	3	184561784	184582409	+	4532	
protein_coding		EPH receptor B3	[Source:HGNC	Symbol;Acc:HGNC:3394]		
	-	145	75	135	33	50
1.566775546		0.784147574	1.853321287	0.404609506		
0.67815265		0.16415764				
ENSG00000089220		4132.52815	4501.970344	4823.177855		
3160.739878		3656.198326	3257.325035	4485.892116		
3358.087746		0.41775689	0.001557624	0.017903065		PEBP1
	12	118135858	118145584	+	1780	
protein_coding		phosphatidylethanolamine binding protein 1	[Source:HGNC	Symbol;Acc:HGNC:8630]	-	4555
	3051	3203	3776	125.3132699	135.4154372	4149
145.0207942		95.24325932	110.6074287	98.63771464		
ENSG00000128524		748.4820469	1055.799218	902.0935203		
1025.60881		1495.354295	1808.091439	902.1249283		
1443.018181		-0.678035678	0.001561109	0.017921501		
ATP6V1F	7	128862826	128865844	+	789	
protein_coding		ATPase H+ transporting V1 subunit F	[Source:HGNC			
Symbol;Acc:HGNC:16832]	-	825	1193	776	990	1310
	2096	51.20420515	71.64565893	61.19156557		
69.72206398		102.0567309	123.5222783			
ENSG00000047410		5820.014947	4245.32175	4591.842017		
4078.607964		3236.129333	2735.428413	4885.726238		
3350.055237		0.544634803	0.001562266	0.017921501		TPR
	1	186311652	186375693	-	12350	
protein_coding		"translocated promoter region, nuclear basket protein	[Source:HGNC	Symbol;Acc:HGNC:12017]"	-	6415
						4797
						3950

3937	2835	3171	25.43656053	18.40471945	
19.89926267	17.71374958		14.11020963	11.93878971	
ENSG00000148308	1200.293028		1428.382177	1288.040748	
1630.614411	1864.056155		1999.597307	1305.571984	
1831.422624	-0.488382027		0.001562268	0.017921501	GTF3C5
9	133030675		133058503	+ 3592	
protein_coding	general transcription factor IIIC subunit 5				
[Source:HGNC Symbol;Acc:HGNC:4668]			-	1323 1614	1108
1574	1633 2318		18.03649724	21.29088152	
19.19156004	24.34896154		27.94455621	30.00600116	
ENSG00000116863	1487.891584		2149.653227	1668.175518	
2193.145304	2690.496239		2875.175938	1768.573443	
2586.272494	-0.548178051		0.001567067	0.017964907	
ADPRHL2 1	36088875		36093932	+ 1668	
protein_coding	ADP-ribosylhydrolyase like 2 [Source:HGNC				
Symbol;Acc:HGNC:21304]			-	1640 2429 1435 2117	2357
3333	48.14780415		69.0014011	53.52574261	
70.52398678	86.85821427		92.91167413		
ENSG00000166681	1981.43611		3203.682454	2808.579826	
1777.721937	1843.509302		1819.305746	2664.56613	
1813.512329	0.55505244		0.001569665	0.017975038	BEX3
X	103376340		103378077	+ 1080	
protein_coding	brain expressed X-linked 3 [Source:HGNC				
Symbol;Acc:HGNC:13388]			-	2184 3620 2416 1716	1615
2109	99.02789833		158.8222177	139.181022	
88.28879139	91.91706138		90.79958057		
ENSG00000160570	596.0638846		1054.029227	956.7306279	
996.6016921	1640.323757		1780.486989	868.9412466	
1472.470813	-0.761375872		0.001569983	0.017975038	DEDD2
19	42198598		42220140	- 2631	
protein_coding	death effector domain containing 2 [Source:HGNC				
Symbol;Acc:HGNC:24450]			-	657 1191 823 962	1437
2064	12.22850048		21.44950895	19.46192675	
20.31731283	33.5724689		36.47706298		
ENSG00000131849	354.7351277		289.3934151	244.1232465	
529.3799009	455.4552394		486.5284215	296.0839297	
490.4545206	-0.726433245		0.001571996	0.017986442	ZNF132
19	58432814		58440222	- 3527	
protein_coding	zinc finger protein 132 [Source:HGNC				
Symbol;Acc:HGNC:12916]	zf-C2H2	391 327		210 511	399
564	5.428751736		4.393076174	3.704423936	
8.050585822	6.953681523		7.43540557		
ENSG00000166402	419.1499463		373.4679546	346.4225117	
278.6755251	133.5545439		186.3300338	379.6801375	
199.5200343	0.927835702		0.001580791	0.018075376	TUB
11	8019244 8106112		+ 6722	protein_coding	tubby
bipartite transcription factor [Source:HGNC				Symbol;Acc:HGNC:12406]	
Tub	462 422		298 269	117 216	
3.3656748	2.974680891		2.758192686	2.22364685	
1.069879125	1.49412269				

ENSG00000145715	2435.968844	1813.355069	1982.048263	
1782.90178	1172.312108	1016.188795	2077.124058	
1323.800894	0.650304234	0.001583134	0.018090476	RASA1
5	87267888	87391931	+ 5232	
protein_coding	RAS p21 protein activator 1 [Source:HGNC			
Symbol;Acc:HGNC:9871]	-	2685 2049	1705 1721	1027
1178	25.13073776	18.55669646	20.27512286	
18.27785294	12.06563181	10.46908132		
ENSG00000167700	363.8076374	407.9827656	385.9472278	
158.5031797	160.9503478	293.2972754	385.9125436	
204.2502676	0.914212205	0.001584359	0.018092783	MFSD3
8	144509074	144511213	+ 1823	
protein_coding	major facilitator superfamily domain containing 3			
[Source:HGNC	Symbol;Acc:HGNC:25157]	-	401 461	332
153	141 340	10.77175303	11.98231404	
11.33073967	4.663551809	4.754225796	8.672079819	
ENSG00000198464	310.2798304	230.0987398	291.7854041	
158.5031797	158.6673641	133.709052	277.3879914	
150.2931986	0.884975667	0.001590291	0.018132506	ZNF480
19	52297177	52325922	+ 4836	
protein_coding	zinc finger protein 480 [Source:HGNC			
Symbol;Acc:HGNC:23305]	zf-C2H2	342 260	251 153	139
155	3.463127631	2.547495917	3.229195034	
1.757993165	1.766753125	1.490309343		
ENSG00000196550	247.6795137	190.2739579	202.2735471	
137.7838098	78.76293614	85.40126548	213.4090062	
100.6493371	1.084800836	0.001590362	0.018132506	FAM72A
1	206186179	206204414	- 3783	
protein_coding	family with sequence similarity 72 member A			
[Source:HGNC	Symbol;Acc:HGNC:24044]	-	273 215	174
133	69 99	3.533905967	2.692951671	
2.861671337	1.953562649	1.121140676	1.216829897	
ENSG00000132842	1879.824002	1369.972497	1812.324482	
1342.615169	1100.398122	884.2050214	1687.37366	
1109.072771	0.605736262	0.001590912	0.018132506	AP3B1
5	78000525	78294755	- 7310	
protein_coding	adaptor related protein complex 3 subunit beta 1			
[Source:HGNC	Symbol;Acc:HGNC:566]	-	2072 1548	1559
1296	964 1025	13.88037047	10.03413686	
13.26892028	9.851438902	8.106007797	6.519848535	
ENSG00000179134	4030.916042	3850.613911	4076.858216	
4947.785532	5041.969405	5751.214515	3986.12939	
5246.989817	-0.39673843	0.001606804	0.018301835	SAMD4B
19	39342396	39385710	+ 8057	
protein_coding	sterile alpha motif domain containing 4B [Source:HGNC			
Symbol;Acc:HGNC:25492]	-	4443 4351	3507 4776	4417
6667	27.00421973	25.58834282	27.08128383	
32.93843784	33.69778816	38.47583996		
ENSG00000139734	1845.348465	1509.801731	1954.148463	
944.8032674	465.7286659	270.8686602	1769.76622	



560.4668645	1.659123295	0.001611012	0.01832721	DIAPH3
13	59665583	60163987	- 7442	
protein_coding	diaphanous related formin 3 [Source:HGNC			
Symbol;Acc:HGNC:15480]	-	2034 1706	1681 912	408
314	13.38412446	10.86215015	14.05351283	
6.809531235	3.369906549	1.961873498		
ENSG00000166451	1127.712951	975.2646587	882.3311623	
805.983489	553.6235367	342.467701	995.1029239	
567.3582422	0.812046068	0.001613081	0.01832721	CENPN
16	81006498	81033114	+ 3568	
protein_coding	centromere protein N [Source:HGNC			
Symbol;Acc:HGNC:30873]	-	1243 1102	759 778	485
397	17.0598405	14.63467862	13.23499485	
12.11621008	8.355342423	5.173645641		
ENSG00000204899	2427.803585	2472.676458	2597.006346	
1972.484014	1907.432845	1645.052659	2499.16213	
1841.656506	0.440712461	0.001613543	0.01832721	MZT1
13	72708357	72727687	- 2299	
protein_coding	mitotic spindle organizing protein 1 [Source:HGNC			
Symbol;Acc:HGNC:33830]	-	2676 2794	2234 1904	1671
1907	57.00012675	57.5855967	60.45761966	
46.01930086	44.67708597	38.5693873		
ENSG00000132646	4320.3291	4287.801517	4565.104709	
3658.004756	3184.762201	3071.85764	4391.078442	
3304.874865	0.409984198	0.001613548	0.01832721	PCNA
20	5114953 5126626	- 1471	protein_coding	
proliferating cell nuclear antigen [Source:HGNC			Symbol;Acc:HGNC:8729]	
-	4762 4845	3927 3531	2790 3561	
158.5277888	156.0657305	166.0944325	133.381958	
116.5839836	112.5616159			
ENSG00000060138	3237.978698	3655.029982	4294.244155	
4792.390257	5322.776395	5105.960509	3729.084278	
5073.709054	-0.444543494	0.001614212	0.01832721	YBX3
12	10699089	10723312	- 8610	
protein_coding	Y-box binding protein 3 [Source:HGNC			
Symbol;Acc:HGNC:2428]	CSD	3569 4130	3694 4626	4663
5919	20.29888018	22.7286343	26.69319667	
29.85482437	33.28968028	31.96511025		
ENSG00000173540	601.5073904	718.6160643	568.4584168	
404.027713	336.7400893	449.4349426	629.5272905	
396.7342483	0.665318321	0.001617207	0.01834944	GMPPB
3	49716844	49723951	- 6742	
protein_coding	GDP-mannose pyrophosphorylase B [Source:HGNC			
Symbol;Acc:HGNC:22932]	-	663 812	489 390	295
521	4.815633908	5.706814051	4.512601231	
3.214311059	2.689556227	3.593188435		
ENSG00000135052	1809.058426	1899.199599	2145.959586	
1652.369749	1148.340779	1196.480356	1951.40587	
1332.396961	0.550249562	0.001621898	0.018390866	GOLM1
9	86026146	86100173	- 4233	

protein_coding	golgi membrane protein 1 [Source:HGNC						
Symbol;Acc:HGNC:15451]	-	1994	2146	1846	1595	1006	
	1387	23.06776769	24.02192961	27.13252893			
20.93748256		14.60821232	15.23558768				
ENSG00000138172	502.6170352		453.1175184	669.5951903			
262.1000292	413.2200418		230.3246251	541.7765813			
301.8815654	0.845035113		0.001624391	0.018407332		CALHM2	
	10	103446786	103452402	-	3108		
protein_coding	calcium homeostasis modulator family member 2						
[Source:HGNC	Symbol;Acc:HGNC:23493]	-	554	512		576	
	253	362	267	8.728858194	7.805763551		
11.53050477	4.523260028		7.159371863	3.994489366			
ENSG00000100151	455.4399849		597.3717284	337.1225785			
766.6166862	636.9524401		948.9029498	463.3114306			
784.1573587	-0.758136024		0.001629598	0.018447962		PICK1	
	22	38056311	38075701	+	4371		
protein_coding	protein interacting with PRKCA 1 [Source:HGNC						
Symbol;Acc:HGNC:9394]	-	502	675	290	740	558	
	1100	5.624081353	7.317275506	4.127851243			
9.407255875	7.846947603		11.70153664				
ENSG00000142552	2320.747971		3276.252057	4167.532565			
1516.657877	2618.582254		1936.624657	3254.844198			
2023.954929	0.685367887		0.001630062	0.018447962		RCN3	
	19	49527618	49546962	+	2093		
protein_coding	reticulocalbin 3 [Source:HGNC						
Symbol;Acc:HGNC:21145]	-	2558	3702	3585	1464	2294	2245
59.8494268	83.80957279		106.5679909	38.867257			
67.37077533	49.8744518						
ENSG00000115266	564.3101008		799.1506233	632.3954575			
863.9977247	1124.369451		1074.84825	665.2853939			
1021.071809	-0.61757339		0.001639494	0.018542842		APC2	
	19	1446302	1473244	+	12610	protein_coding	
WNT signaling pathway regulator	[Source:HGNC						
Symbol;Acc:HGNC:24036]"	-	622	903	544	834	985	1246
2.41548298	3.393119106		2.684050358	3.675047932			
4.80140681	4.5944547						
ENSG00000131094	799.288101		1410.682274	1278.740815			
862.9617563	695.1685234		523.6219005	1162.90373			
693.9173934	0.745413755		0.001648482	0.018632584		C1QL1	
	17	44959693	44968071	-	1295		
protein_coding	complement C1q like 1 [Source:HGNC						
Symbol;Acc:HGNC:24182]	-	881	1594	1100	833	609	
	607	33.3146169	58.32368953	52.84814688			
35.74269347	28.90645833		21.79465209				
ENSG00000125971	2514.899678		2605.425731	2923.666499			
3295.415782	3978.099021		3594.616902	2681.330636			
3622.710568	-0.43431527		0.001650454	0.018642964			
DYNLRB1	20	34516409	34540958	+	2460		
protein_coding	dynein light chain roadblock-type 1 [Source:HGNC						
Symbol;Acc:HGNC:15468]	-	2772	2944	2515	3181	3485	

	4167	55.18064879	56.70601643	63.60770538	
71.85228861		87.07932131	78.76248528		
ENSG00000138764		379.2309038	243.3736671	496.3839345	
218.5893524		202.0440536	159.5882234	372.9961685	
193.4072098		0.946982786	0.001652801	0.018657557	CCNG2
	4	77157151	77433388	+ 7471	
protein_coding		cyclin G2 [Source:HGNC Symbol;Acc:HGNC:1593]			-
	418	275	427	211	177
		185	2.73984648		
		1.744136209	3.55595278	1.569335368	1.456269957
		1.151394128			
ENSG00000175505		234.0707492	205.3188755	267.3730795	
133.6399358		127.8470848	54.34625985	235.5875681	
105.2777602		1.166107264	0.001657526	0.018694278	CLCF1
	11	67364168	67374177	- 1975	
protein_coding		cardiotrophin like cytokine factor 1 [Source:HGNC			
Symbol;Acc:HGNC:17412]		-	258	232	230
	63	6.397072748	5.566052851	7.245487018	129
		3.629398488	3.485766429	1.483216225	112
ENSG00000188120		450.9037301	163.7241033	205.761022	
138.8197783		122.1396256	92.30237784	273.4629518	
117.7539273		1.21801128	0.001658167	0.018694278	DAZ1
	Y	23129355	23199094	- 4787	
protein_coding		deleted in azoospermia 1 [Source:HGNC			
Symbol;Acc:HGNC:2682]		-	497	185	177
	107	5.08418851	1.831195624	2.30047059	134
		1.555440542	1.373939819	1.039324987	107
ENSG00000181104		2406.029562	2123.103372	3012.015865	
1792.225496		1888.027484	1604.508624	2513.716266	
1761.587201		0.512731048	0.001660722	0.018711152	F2R
	5	76716043	76735781	+ 4066	
protein_coding		coagulation factor II thrombin receptor [Source:HGNC			
Symbol;Acc:HGNC:3537]		-	2652	2399	2591
	1860	31.93999391	27.95691941	39.64668546	1730
		23.64235709	25.0043455	21.2704456	1654
ENSG00000131943		944.4482556	1154.918675	953.2431529	
1299.104493		1465.675507	1625.211961	1017.536694	
1463.330654		-0.524043372	0.001662562	0.01871996	
C19orf12		19	29698886	29715789	-
					5378
protein_coding		chromosome 19 open reading frame 12			
[Source:HGNC Symbol;Acc:HGNC:25443]		-	1041	1305	820
	1254	1284	1884	9.478914702	11.49783719
		9.486366538	12.95653231	14.67545537	16.28887606
ENSG00000102981		129.7368881	127.439302	151.1239145	
193.7261085		336.7400893	267.418104	136.1000349	
265.961434		-0.96730216	0.001666029	0.018747064	PARD6A
	16	67660946	67662778	+ 1488	
protein_coding		par-6 family cell polarity regulator alpha			
[Source:HGNC Symbol;Acc:HGNC:15943]		-	143	144	130
	187	295	310	4.706106919	4.585492651
		5.435597218	6.983139517	12.18614791	9.687010729

ENSG00000155660	4615.185664	4619.674699	4777.840681		
4348.995742	2203.079228	2290.306665	4670.900348		
2947.460545	0.664269534	0.001667954	0.01875679	PDIA4	
7	149003062	149028641	- 3277		
protein_coding	protein disulfide isomerase family A member 4				
[Source:HGNC Symbol;Acc:HGNC:30167]	-	5087	5220	4110	
4198	1930	2655	76.01756949	75.47802062	
78.03190816	71.1832867	36.20163854	37.67203684		
ENSG00000204396	15.42326642	11.50493699	10.46242485	0	
0	0	12.46354275	0	6.073603644	
0.00167385	0.018811141	VWA7	6	31765590	
31777294	-	3638	protein_coding	von Willebrand factor	
A domain containing 7	[Source:HGNC Symbol;Acc:HGNC:13939]			-	
17	13	9	0	0	0.228831027
0.169319547	0.153917025	0	0	0	
ENSG00000132382	5554.190414	5702.023772	4776.678189		
6232.386465	7218.794321	8823.934794	5344.297458		
7425.038527	-0.474382699	0.001683348	0.01890587		
MYBBP1A 17	4538897	4555631	- 6203	protein_coding	MYB
binding protein 1a	[Source:HGNC Symbol;Acc:HGNC:7546]			-	6122
6443	4109	6016	6324	10229	48.33038198
49.21673403	41.21366216	53.89122927	62.6667887		
76.67652381					
ENSG00000163872	1358.154696	1113.323903	1598.426019		
850.5301343	1028.484137	860.9137672	1356.634872		
913.3093462	0.570624932	0.001690698	0.018976363	YEATS2	
3	183697818	183812625	+ 10212		
protein_coding	YEATS domain containing 2 [Source:HGNC				
Symbol;Acc:HGNC:25489]	-	1497	1258	1375	821
998	7.17859873	5.837088471	8.377197195	901	
4.467292556	5.42327148	4.544130062			
ENSG00000105835	3894.828397	4626.754661	4847.59018		
5722.689966	6053.331165	6005.693033	4456.391079		
5927.238055	-0.411671604	0.001693623	0.018997148	NAMPT	
7	106248285	106286326	- 9049		
protein_coding	nicotinamide phosphoribosyltransferase [Source:HGNC				
Symbol;Acc:HGNC:30092]	-	4293	5228	4170	5524
6962	23.23212757	27.37546038	28.67096519	5303	
33.92072495	36.02204788	35.77374845			
ENSG00000101199	2948.565639	3479.800942	2440.069973		
3362.753734	4471.223491	5351.812637	2956.145518		
4395.263287	-0.57206865	0.001694895	0.018999368		
ARFGAP1 20	63272785	63289793	+ 6613		
protein_coding	ADP ribosylation factor GTPase activating protein 1				
[Source:HGNC Symbol;Acc:HGNC:15852]	-	3250	3932	2099	
3246	3917	6204	24.0665325	28.17354051	
19.74789287	27.274829	36.40846834	43.62187054		
ENSG00000112299	12.70151352	14.15992245	6.974949899		
64.23004668	23.97132839	75.91223598	11.27879529		
54.70453702	-2.270906677	0.00171309	0.019186277	VNN1	

6	132681590	132714049	-	3106	
protein_coding	vanin 1 [Source:HGNC Symbol;Acc:HGNC:12705]				-
14	16	6	62	21	88
	0.244087181	0.120186765	1.109180643	0.41559011	
	1.317383558				
ENSG00000186352	135.1803939	130.9792827	192.9736139		
50.76245625	58.21608324	84.53862644	153.0444302		
64.50572197	1.240329106	0.001713738	0.019186277		
ANKRD37 4	185396021	185400628	+	2580	
protein_coding	ankyrin repeat domain 37 [Source:HGNC				
Symbol;Acc:HGNC:29593]	-	149	148	166	49
98	2.828103153	2.718118899	4.003088842		51
1.055330325	1.215060297	1.766189863			
ENSG00000137337	1868.029739	1768.220316	1961.123413		
1442.068145	1343.535882	1336.227881	1865.791156		
1373.943969	0.44126676	0.001720057	0.019244834		MDC1
6	30699807	30717889	-	8064	
protein_coding	mediator of DNA damage checkpoint 1 [Source:HGNC				
Symbol;Acc:HGNC:21163]	-	2059	1998	1687	1392
1549	12.50358386	11.74008944	13.01581629		1177
9.591814249	8.971670272	8.931654535			
ENSG00000132600	774.7923249	869.9502355	943.9432197		
1045.292211	1275.046372	1564.827228	862.8952601		
1295.055271	-0.58683505	0.001728652	0.019328772		PRMT7
16	68310974	68358563	+	9458	
protein_coding	protein arginine methyltransferase 7 [Source:HGNC				
Symbol;Acc:HGNC:25557]	-	854	983	812	1009
1814	4.421679342	4.924709859	5.341504101		1117
5.927941378	7.2594083	8.918031277			
ENSG00000133134	17.23776835	11.50493699	12.78740815		
61.1221412	43.37668947	62.11001126	13.84337116		
55.53628064	-2.004005275	0.001733972	0.019366657		BEX2
X	103309346	103311046	-	1176	
protein_coding	brain expressed X-linked 2 [Source:HGNC				
Symbol;Acc:HGNC:30933]	-	19	13	11	59
72	0.791179385	0.523796354	0.58195876		38
2.787768673	1.986203007	2.84679499			
ENSG00000173692	3814.083061	3329.351766	3997.808784		
2782.611377	2846.880619	2738.01633	3713.74787		
2789.169442	0.412887456	0.001734229	0.019366657		PSMD1
2	231056864	231172827	+	5187	
protein_coding	"proteasome 26S subunit, non-ATPase 1 [Source:HGNC				
Symbol;Acc:HGNC:9554]"	-	4204	3762	3439	2686
3174	39.68945569	34.36599986	41.24988807		2494
28.77410367	29.55476846	28.45258258			
ENSG00000110400	303.9290736	272.5785072	332.4726119		
190.6182031	158.6673641	164.7640576	302.9933975		
171.3498749	0.821403796	0.00173625	0.019366989		
NECTIN1 11	119623408	119729084	-	7701	
protein_coding	nectin cell adhesion molecule 1 [Source:HGNC				

Symbol;Acc:HGNC:9706]	-	335	308	286	184	139
191	2.130229365	1.895090847	2.310605253			
1.327647382	1.109468655	1.153233533				
ENSG00000116675	398.2831741	407.0977704	433.6093854			
575.9984832	639.2354238	663.3694258	412.9967766			
626.2011109	-0.601295704	0.001736449	0.019366989			DNAJC6
1	65248219	65415869	+	6954		
protein_coding	DnaJ heat shock protein family (Hsp40) member C6					
[Source:HGNC Symbol;Acc:HGNC:15469]	-	439	460	373		
556	560	769	3.091423596	3.134365123		
3.33719045	4.442752796	4.949948732	5.141888698			
ENSG00000122140	904.5292131	1115.093893	940.4557448			
1073.263361	1618.635412	1988.382999	986.6929503			
1560.093924	-0.661158125	0.001739792	0.019392049			MRPS2
9	135499984	135504673	+	2464		
protein_coding	mitochondrial ribosomal protein S2 [Source:HGNC					
Symbol;Acc:HGNC:14495]	-	997	1260	809	1036	1418
2305	19.81450094	24.23016003	20.42747392			
23.36313377	35.37389542	43.49719428				
ENSG00000164054	2940.400381	3344.396684	3204.989479			
3866.234423	4285.160323	4433.964693	3163.262181			
4195.119813	-0.407396726	0.001741429	0.019398074			SHISA5
3	48467798	48504826	-	4664		
protein_coding	shisa family member 5 [Source:HGNC					
Symbol;Acc:HGNC:30376]	-	3241	3779	2757	3732	3754
5140	34.02899891	38.39235838	36.77774277			
44.46262887	49.47469058	51.24312365				
ENSG00000085563	1.814501932	0	1.16249165	41.4387398		
13.69790194	9.489029498	0.992331194	21.54189041			
-4.455558339	0.001749244	0.019472863	ABCB1	7		
87503633	87713323	-	5806	protein_coding		
ATP binding cassette subfamily B member 1 [Source:HGNC						
Symbol;Acc:HGNC:40]	-	2	0	1	40	12
11	0.016868701	0	0.010715929	0.382820339		
0.127043244	0.088094069					
ENSG00000183684	2701.793377	3044.383327	3223.589345			
1925.865432	2117.467341	2458.521279	2989.922016			
2167.284684	0.463660281	0.001758694	0.019554257			ALYREF
17	81887844	81891586	-	1574		
protein_coding	Aly/REF export factor [Source:HGNC					
Symbol;Acc:HGNC:19071]	-	2978	3440	2773	1859	1855
2850	92.65068807	103.5571657	109.6104569			
65.62762765	72.44135183	84.19206275				
ENSG00000078808	4017.307277	4819.683604	5411.39863			
3349.286144	3643.641916	3460.045211	4749.46317			
3484.324423	0.446698538	0.001758767	0.019554257			SDF4
1	1216908	1232031	-	4709	protein_coding	
stromal cell derived factor 4 [Source:HGNC Symbol;Acc:HGNC:24188]						
-	4428	5446	4655	3233	3192	4011
46.04766421	54.79934751	61.50321825	38.14951823			

41.66597534	39.60545342					
ENSG00000139998	975.2947884	848.7103518	674.2451569			
561.4949242	593.5757507	417.5172979	832.7500991			
524.1959909	0.669994556	0.001763697	0.019596759	RAB15		
14	64945814	64973226	- 5015			
protein_coding	"RAB15, member RAS oncogene family [Source:HGNC					
Symbol;Acc:HGNC:20150]"	-	1075 959	580 542	520		
484	10.49702449	9.06095786	7.195548467			
6.005378611	6.373526069	4.487510135				
ENSG00000136932	164.2124248	155.7591469	160.4238477			
283.8553676	335.5985975	245.8521279	160.1318065			
288.4353643	-0.847662594	0.001772773	0.019685233	TRM0		
9	97904489	97922570	- 4203			
protein_coding	tRNA methyltransferase 0 [Source:HGNC					
Symbol;Acc:HGNC:30967]"	-	181 176	138 274	294		
285	2.108860578	1.984173836	2.042803264			
3.622456813	4.299671741	3.152945676				
ENSG00000113312	1371.763461	1360.23755	1263.628423			
1688.628647	1795.566646	2003.910502	1331.876478			
1829.368598	-0.457889679	0.001777279	0.019722699	TTC1		
5	160009113	160065543	+ 1938			
protein_coding	tetratricopeptide repeat domain 1 [Source:HGNC					
Symbol;Acc:HGNC:12391]"	-	1512 1537	1087 1630	1573		
2323	38.20557163	37.57911392	34.89656003			
46.73539045	49.89101163	55.73480105				
ENSG00000143458	242.2360079	287.6234248	170.8862725			
342.9055718	391.5316971	554.6769061	233.5819017			
429.704725	-0.878015408	0.001778377	0.019722699	GABPB2		
1	151070578	151125542	+ 9189			
protein_coding	GA binding protein transcription factor subunit beta 2					
[Source:HGNC	Symbol;Acc:HGNC:28441]"	-	267 325	147		
331	343 643	1.4228912	1.675874722			
0.995304413	2.001574622	2.294421633	3.253671772			
ENSG00000186815	1344.545932	1101.818966	906.7434869			
736.5735999	773.9314595	734.1058275	1117.702795			
748.203629	0.580042496	0.001789113	0.019829338	TPCN1		
12	113221050	113298585	+ 8728			
protein_coding	two pore segment channel 1 [Source:HGNC					
Symbol;Acc:HGNC:18182]"	-	1482 1245	780 711	678		
851	8.31499801	6.75897834	5.560152608			
4.526545673	4.774878405	4.533627569				
ENSG00000171940	1669.341777	1305.367851	2113.40982			
1199.651517	1216.830289	873.8533529	1696.039816			
1096.778386	0.628934867	0.001791602	0.019844218	ZNF217		
20	53567065	53609907	- 6181			
protein_coding	zinc finger protein 217 [Source:HGNC					
Symbol;Acc:HGNC:13009]"	zf-C2H2	1840 1475	1818 1158	1066		
1013	14.57765819	11.3073209	18.29961622			
10.41026679	10.60097527	7.620469337				
ENSG00000130803	889.1059467	961.9897314	882.3311623			

1276.313186	1278.470848	1241.337586	911.1422801	
1265.373873	-0.473420888	0.001792699	0.019844218	ZNF317
19	9140380 9163424	+ 5065	protein_coding	zinc
finger protein 317	[Source:HGNC	Symbol;Acc:HGNC:13507]	zf-C2H2	980
1087	759 1232	1120 1439	9.474914716	
10.16895991	9.323289564	13.51584809	13.59208035	
13.21029033				
ENSG00000073008	2284.457932	2683.305304	2293.596025	
3162.811815	3135.678052	3444.517708	2420.453087	
3247.669192	-0.424051279	0.001803176	0.019947706	PVR
19	44643798	44663583	+ 3519	
protein_coding	poliovirus receptor	[Source:HGNC	Symbol;Acc:HGNC:9705]	
-	2518 3032	1973 3053	2747 3993	
35.04008431	40.82595673	34.88306723	48.20805181	
47.98292877	52.76076227			
ENSG00000163171	1653.01126	1357.582565	1465.901971	
1298.068524	777.355935	763.4355551	1492.165265	
946.2866714	0.657318038	0.001806034	0.019966832	
CDC42EP3	2 37641882	37738468	-	10406
protein_coding	CDC42 effector protein 3	[Source:HGNC		
Symbol;Acc:HGNC:16943]	-	1822 1534	1261 1253	681
885	8.574192598	6.985025226	7.539423026	
6.690819178	4.022635209	3.954489869		
ENSG00000175832	1032.451599	903.5800513	1045.079993	
657.8399943	631.244981	758.2597208	993.7038813	
682.448232	0.540877153	0.001807896	0.019974936	ETV4
17	43527844	43579620	- 3607	
protein_coding	ETS variant 4	[Source:HGNC	Symbol;Acc:HGNC:3493]	
ETS	1138 1021	899 635	553 879	
15.44986907	13.41238591	15.5067361	9.782269573	
9.423806263	11.33114379			
ENSG00000175104	249.4940156	246.0286526	281.3229793	
390.5601226	448.6062885	421.8304931	258.9485492	
420.3323014	-0.699813114	0.001816526	0.020057757	TRAF6
11	36487027	36510272	- 4871	
protein_coding	TNF receptor associated factor 6	[Source:HGNC		
Symbol;Acc:HGNC:12036]	-	275 278	242 377	393
489	2.764669668	2.704289035	3.091036141	
4.300661532	4.959315991	4.667902193		
ENSG00000173068	544.3505796	427.452659	554.508517	
286.9632731	377.8337951	207.0333709	508.7705852	
290.6101464	0.810148664	0.001818372	0.020065619	BNC2
9	16409503	16870843	- 15323	
protein_coding	basonuclin 2	[Source:HGNC	Symbol;Acc:HGNC:30988]	
zf-C2H2	600 483	477 277	331 240	
1.917503354	1.493584404	1.93678505	1.004495536	
1.3277966	0.728280125			
ENSG00000177971	563.4028499	747.8209044	776.5444221	
803.911552	1328.696488	1199.930912	695.9227255	
1110.846317	-0.675138493	0.001820898	0.020080962	IMP3



15	75639085	75648706	-	2565	
protein_coding	"IMP3, U3 small nucleolar ribonucleoprotein [Source:HGNC Symbol;Acc:HGNC:14497]"				
	776	1164	1391	11.85585596	15.60974399
16.20301894	16.81072313	27.89413966	25.21568547		
ENSG00000129250	4002.791262	3465.64102	3209.639445		
2702.841803	2604.884352	2647.43923	3559.357242		
2651.721795	0.424913453	0.001824326	0.020106232		KIF1C
17	4997948	5028401	+	8580	protein_coding
kinesin family member 1C	[Source:HGNC Symbol;Acc:HGNC:6317]				-
4412	3916	2761	2609	2282	3069
21.62628072	20.02100921	16.89658101	16.34841721		
16.63185227					
ENSG0000011007	2732.63991	2551.441026	2555.156646		
3554.407906	3293.203924	3439.341874	2613.079194		
3428.984568	-0.392006309	0.001826668	0.020110367		ELOA
1	23743155	23762059	+	5391	
protein_coding	elongin A [Source:HGNC Symbol;Acc:HGNC:11620]				-
3012	2883	2198	3431	2885	3987
25.33971648	25.36677185	35.36416676	32.89454214		
34.38807949					
ENSG00000151012	586.084124	827.4704682	691.6825317		
912.688244	1438.279703	991.172263	701.745708		
1114.046737	-0.665972914	0.001826975	0.020110367		
SLC7A11 4	138164097	138242349	-	9645	
protein_coding	solute carrier family 7 member 11 [Source:HGNC Symbol;Acc:HGNC:11059]				
		646	935	595	881
1149	3.279887665	4.593416433	3.83814679		1260
5.075580499	8.030002368	5.539222558			
ENSG00000105556	570.6608576	710.651108	778.8694054		
951.0190783	1107.247073	998.9360144	686.7271237		
1019.067389	-0.570150868	0.001836379	0.020201309		MIER2
19	301444	344815	-	7939	protein_coding
family member 2	[Source:HGNC Symbol;Acc:HGNC:29210]				-
803	670	918	970	1158	3.879837417
4.792655185	5.25068358	6.425233617	7.510230953		
6.782249709					
ENSG00000164087	730.3370276	802.6906039	814.9066466		
629.8688449	359.5699259	460.6492502	782.6447594		
483.3626737	0.69456985	0.001846003	0.020294562		POC1A
3	52075253	52154690	-	2247	
protein_coding	POC1 centriolar protein A [Source:HGNC Symbol;Acc:HGNC:24488]				
		805	907	701	608
534	17.54371209	19.12628643	19.4098327		315
15.03531566	8.616975171	11.05017619			
ENSG00000159399	693.139738	621.2665975	1050.892452		
590.5020421	392.6731889	407.1656294	788.432929		
463.4469535	0.765438406	0.001854398	0.02037419		HK2
2	74833981	74893359	+	6064	
protein_coding	hexokinase 2 [Source:HGNC Symbol;Acc:HGNC:4923]				-

	764	702	904	570	344	472	6.169682987	
	5.485350212		9.275046262		5.223092374		3.486957147	
	3.619210341							
ENSG00000131381	1118.640441			1162.883631		1022.992652		
1478.327042	1507.910705			1557.063477		1101.505575		
1514.433741	-0.458876416			0.001859774		0.020418662		RBSN
3	15070073			15099163		-	7921	
protein_coding	"rabenosyn, RAB effector [Source:HGNC							
Symbol;Acc:HGNC:20759]"	-			1233	1314	880	1427	1321
1805	7.622751232			7.860348341		6.912091928		
10.01050538	10.25109279			10.59566481				
ENSG00000138735	151.5109113			138.944239		165.0738143		
64.23004668	71.91398517			74.18695789		151.8429882		
70.11032992	1.11347745			0.001860754		0.020418662		PDE5A
4	119494395			119628991		-	9775	
protein_coding	phosphodiesterase 5A [Source:HGNC							
Symbol;Acc:HGNC:8784]"	-			167	157	142	62	63
86	0.836620282			0.76104323		0.90381267		
0.35244144	0.396160475			0.409084197				
ENSG00000172943	1203.014781			1163.768626		956.7306279		
1557.060648	1572.975739			1525.145832		1107.838012		
1551.727406	-0.485170556			0.001865276		0.020455588		PHF8
X	53936676			54048958		-	9015	
protein_coding	PHD finger protein 8 [Source:HGNC							
Symbol;Acc:HGNC:20672]"	-			1326	1315	823	1503	1378
1768	7.202884927			6.911725195		5.679903415		
9.264143918	9.395736891			9.119006972				
ENSG00000141076	4000.97676			4081.597646		3991.996326		
4987.152334	5686.912288			5064.553835		4024.856911		
5246.206152	-0.382185518			0.00187642		0.020562221		UTP4
16	69131291			69231130		+	5681	
protein_coding	"UTP4, small subunit processome component [Source:HGNC							
Symbol;Acc:HGNC:1983]"	-			4410	4612	3434	4814	4982
5871	38.01390489			38.46723319		37.60818272		
47.08616719	53.90465789			48.0527569				
ENSG00000131711	3809.546806			2616.045673		3510.724783		
2580.597521	2317.228411			2028.064395		3312.105754		
2308.630109	0.520788474			0.001877641		0.020562221		MAP1B
5	72107234			72209570		+	12630	
protein_coding	microtubule associated protein 1B [Source:HGNC							
Symbol;Acc:HGNC:6836]"	-			4199	2956	3020	2491	2030
2351	16.28063004			11.08989719		14.87683133		
10.95929004	9.879615608			8.655263553				
ENSG00000168135	17.23776835			15.92991276		4.6499666		0
0	0			12.60588257		0		
0.001878487	0.020562221			KCNJ4	22	38426327		
38455199	-			2065		protein_coding		potassium voltage-
gated channel	subfamily J member 4 [Source:HGNC					Symbol;Acc:HGNC:6265]"		
-	19	18		4	0	0	0	
0.450569955	0.413027425			0.120516575		0	0	0

ENSG00000233117	461.7907417	339.8381388	463.8341683		
271.4237457	182.6386925	267.418104	421.8210163		
240.4935141	0.808128114	0.001880343	0.020569818		
LINC00702	10	4201141	4243912	-	6785 lincRNA long
intergenic non-protein coding RNA 702 [Source:HGNC					
Symbol;Acc:HGNC:44676]	-	509	384	399	262 160
310	3.673640158	2.681685311	3.658726031		
2.145672736	1.449497567	2.124432125			
ENSG00000121210	244.9577608	211.5138416	242.9607548		
158.5031797	90.17785443	47.44514749	233.1441191		
98.70872721	1.243123998	0.001886446	0.020623816		
TMEM131L	4	153466346	153636711	+	6393
protein_coding transmembrane 131 like [Source:HGNC					
Symbol;Acc:HGNC:29146]	-	270	239	209	153 79
55	2.068177187	1.771412224	2.033988196		
1.329838096	0.759573399	0.400026722			
ENSG00000169554	2399.678805	2160.273169	2469.132264		
1881.318787	1668.861053	1631.250435	2343.028079		
1727.143425	0.439883067	0.001890143	0.020651478		ZEB2
2	144364364	144524583	-	25058	
protein_coding zinc finger E-box binding homeobox 2 [Source:HGNC					
Symbol;Acc:HGNC:14881]	zf-C2H2	2645	2441	2124	1816 1462
1891	5.169016935	4.615808848	5.273694332		
4.02699864	3.586314135	3.508941615			
ENSG00000198053	296.6710659	292.0484005	624.258016		
193.7261085	171.2237742	240.6762936	404.3258275		
201.8753921	0.99814096	0.001893067	0.02067066		SIRPA
20	1894167	1940592	+	5068	protein_coding signal
regulatory protein alpha [Source:HGNC Symbol;Acc:HGNC:9662]					
327	330	537	187	150	279 3.159656201
3.085345292	6.592414806	2.050298264	1.819290338		
2.559756268					
ENSG00000273270	134.273143	145.1392051	160.4238477		
217.5533839	285.372957	309.6874173	146.6120653		
270.8712527	-0.887510067	0.001905908	0.020798034		
AC090114.2	7	128524016	128531069	-	7054
lincRNA novel transcript					
210	250	359	1.02743639	1.101627664	138
1.217167865	1.654229963	2.178471655	2.366410106		
ENSG00000131165	4382.022166	5707.333742	4966.164328		
5498.920771	7626.306904	8495.269318	5018.506745		
7206.832331	-0.522161833	0.001931808	0.021061089		CHMP1A
16	89644431	89657845	-	3208	
protein_coding charged multivesicular body protein 1A [Source:HGNC					
Symbol;Acc:HGNC:8740]	-	4830	6449	4272	5308 6681
9848	73.72952818	95.25427111	82.85214013		
91.94086772	128.013117	142.7396733			
ENSG00000066557	1091.422912	808.0005748	1007.88026		
747.9692533	606.1321608	552.088989	969.1012491		
635.396801	0.609225468	0.001932396	0.021061089		LRRC40

1	70144805	70205620	-	2884	
protein_coding	leucine rich repeat containing	40	[Source:HGNC		
Symbol;Acc:HGNC:26004]	-	1203 913	867	722	531
640	20.42673971	15.00036968	18.7038361		
13.91086017	11.31739894	10.31848022			
ENSG00000187801	54.43505796	39.82478189	30.2247829		
154.3593057	115.2906746	75.91223598	41.49487425		
115.1874055	-1.466750581	0.001934746	0.02107372		ZFP69B
1	40450102	40463718	+	2386	
protein_coding	ZFP69 zinc finger protein B	[Source:HGNC			
Symbol;Acc:HGNC:28053]	zf-C2H2	60 45	26	149	101
88	1.231429334	0.893652172	0.677968873		
3.4699872	2.601946093	1.714917574			
ENSG00000175213	356.5496296	505.3322324	454.5342351		
591.5380106	712.2909008	778.1004188	438.8053657		
693.9764434	-0.661884449	0.001936288	0.021077539		ZNF408
11	46700818	46705912	+	3078	
protein_coding	zinc finger protein 408	[Source:HGNC			
Symbol;Acc:HGNC:20041]	zf-C2H2	393 571	391	571	624
902	6.252484423	8.790102383	7.903418669		
10.30812168	12.46129951	13.62601743			
ENSG00000166881	1682.950542	1254.038132	1449.627087		
1249.378005	803.610247	723.754159	1462.205254		
925.5808036	0.660085601	0.001942934	0.02113688		NEMP1
12	57055643	57088063	-	5708	
protein_coding	nuclear envelope integral membrane protein 1	[Source:HGNC			
Symbol;Acc:HGNC:29001]	-	1855	1417		1247
1206	704 839	15.91434003	11.76284371		
13.59218684	11.74019707	7.58116685	6.834535671		
ENSG00000203434	5.443505796	4.424975766	1.16249165		
22.79130689	53.65011592	18.978059	3.67699107		
31.80649394	-3.082461993	0.001950643	0.021207701		
AL353740.1	10 108547975	108561815	-		575
lincRNA	novel transcript	-	6	5	1
22	47 22	0.510989633	0.412029774		
0.108202925	2.126017719	5.024320943	1.779040579		
ENSG00000271216	182.3574442	166.3790888	86.02438209		
229.9850059	337.8815811	320.9017248	144.920305		
296.256104	-1.027247208	0.001953316	0.021223714		
LINC01050	13 42810366	42812562	-		760
lincRNA	long intergenic non-protein coding RNA 1050	[Source:HGNC			
Symbol;Acc:HGNC:49044]	-	201	188		74
222	296 372	12.95123396	11.72116279		
6.05794009	16.23122977	23.94007348	22.75937679		
ENSG00000154898	32.66103478	23.00987398	17.43737475		
4.14387398	0 0	24.36942783	1.381291327		
4.160611959	0.001964231	0.021329213	CCDC144CP		17
20321164	20403557	+	8145		
transcribed_processed_pseudogene	"coiled-coil domain containing				
144C, pseudogene	[Source:HGNC	Symbol;Acc:HGNC:29073]"	-		36

26	15	4	0	0	0.216441281	
0.151254638	0.114579525		0.027288581	0	0	
ENSG00000130724	1680.228789		2132.838319	1984.373246		
2157.922375	2974.727704		3341.001022	1932.480118		
2824.550367	-0.547815408		0.0019661	0.02133641		CHMP2A
19	58551566		58555124	-	2129	
protein_coding	charged multivesicular body protein 2A					[Source:HGNC
Symbol;Acc:HGNC:30216]	-		1852	2410	1707	2083
3873	42.59847035		53.63741286	49.88439464		2606
54.36578361	75.23953627		84.58685029			
ENSG00000123472	1605.83421		1691.225738	1529.839011		
1128.169691	1208.839846		1203.381468	1608.96632		
1180.130335	0.447436781		0.001967643	0.021340056		ATPAF1
1	46632737		46673867	-	5677	
protein_coding	ATP synthase mitochondrial F1 complex assembly factor					
1 [Source:HGNC	Symbol;Acc:HGNC:18803]		-	1770	1911	1316
1089	1059	1395	15.2680318	15.95027715		
14.42260939	10.65911209		11.46632972	11.42579247		
ENSG00000101474	2366.110519		2569.14093	2714.418002		
1841.951984	1525.033082		2099.663436	2549.889817		
1822.216168	0.483915891		0.001969243	0.021344329		APMAP
20	24962925		24992979	-	2454	
protein_coding	adipocyte plasma membrane associated protein					
[Source:HGNC	Symbol;Acc:HGNC:13238]		-	2608	2903	2335
1778	1336	2434	52.04292677	56.05300735		
59.19965464	40.25958019		33.46410852	46.11869753		
ENSG00000120539	725.8007728		549.5819901	582.4083166		
456.8621063	355.0039586		357.1325647	619.2636932		
389.6662099	0.668801936		0.001975086	0.021394542		MASTL
10	27154824		27186924	+	3631	
protein_coding	microtubule associated serine/threonine kinase like					
[Source:HGNC	Symbol;Acc:HGNC:19042]		-	800	621	501
441	311	414	10.78927895	8.103857433		
8.584565597	6.748766219		5.264795424	5.30157745		
ENSG00000116489	8376.648169		6612.683784	7291.147628		
6143.293175	5310.219985		5090.433006	7426.826527		
5514.648722	0.42954629		0.001980691	0.021438056		CAPZA1
1	112619173		112671619	+	4130	
protein_coding	capping actin protein of muscle Z-line subunit alpha 1					
[Source:HGNC	Symbol;Acc:HGNC:1488]		-	9233	7472	6272
5930	4652	5901	109.4766419	85.72613669		
94.48499504	79.78416154		69.23680434	66.43647494		
ENSG00000135775	775.6995759		806.2305845	723.0698062		
1233.838477	1061.5874		1008.425044	768.3333222		
1101.283641	-0.518653358		0.00198167	0.021438056		COG2
1	230642489		230693982	+	10938	
protein_coding	component of oligomeric golgi complex 2					
[Source:HGNC	Symbol;Acc:HGNC:6546]		-	855	911	622
1169	3.827867348		3.946452671	3.538012087		
6.050425059	5.226276585		4.969441818			

ENSG00000138398	1786.377152	1376.167463	1408.93988	
1195.507643	979.3999886	990.309624	1523.828165	
1055.072419	0.530680773	0.001982738	0.021438056	PPIG
2	169584340	169641406	+ 7368	
protein_coding	peptidylprolyl isomerase G [Source:HGNC			
Symbol;Acc:HGNC:14650]	-	1969 1555	1212 1154	858
1148	13.08653836	10.00016618	10.2343402	
8.702985006	7.157890179	7.244748089		
ENSG00000108828	5491.590097	5730.343616	7062.136773	
8216.266133	8908.202227	7523.937753	6094.690162	
8216.135371	-0.431043996	0.001994706	0.021551771	VAT1
17	43014605	43025123	- 3501	
protein_coding	vesicle amine transport 1 [Source:HGNC			
Symbol;Acc:HGNC:16919]	-	6053 6475	6075 7931	7804
8722	84.66564996	87.63429613	107.9595382	
125.8774344	137.0163866	115.8390507		
ENSG00000156603	604.2291433	879.6851822	909.0684702	
1017.321062	1220.254764	1488.914992	797.6609319	
1242.163606	-0.640110313	0.001995692	0.021551771	MED19
11	57703714	57712323	- 1877	
protein_coding	mediator complex subunit 19 [Source:HGNC			
Symbol;Acc:HGNC:29600]	-	666 994	782 982	1069
1726	17.37555318	25.09276692	25.92085526	
29.07095232	35.00747544	42.75703063		
ENSG00000250786	74.39457921	106.1994184	142.9864729	
40.4027713	17.12237742	48.30778654	107.8601568	
35.27764509	1.602460314	0.002003239	0.021620066	SNHG18
5	9546200 9550609 +	1951	lincRNA small	
nucleolar RNA host gene 18 [Source:HGNC	Symbol;Acc:HGNC:49007]	-		
82	120 123	39 15	56 2.058189065	
2.91440845	3.922425365	1.110757825	0.472586542	
1.334632744				
ENSG00000133703	1123.176696	860.2152888	1069.492318	
768.6886232	648.3673584	649.5672011	1017.628101	
688.8743942	0.56268016	0.002036474	0.021952455	KRAS
12	25204789	25250936	- 7302	
protein_coding	"KRAS proto-oncogene, GTPase [Source:HGNC			
Symbol;Acc:HGNC:6407]"	-	1238 972	920 742	568
753	8.302473529	6.307407311	7.838858867	
5.646432234	4.781386679	4.794950915		
ENSG00000242808	8.165258694	8.849951531	19.76235805	0
0	0	12.25918942 0	6.045360067	
0.002036519	0.021952455	SOX2-OT 3	180989762	
181836880	+ 31629	sense_overlapping	SOX2	
overlapping transcript [Source:HGNC	Symbol;Acc:HGNC:20209]	-		
9	10 17	0 0	0 0.013934318	
0.014981006	0.033440311	0	0 0	
ENSG00000075240	368.3438922	396.4778286	401.0596192	
239.3087223	252.269694	224.2861518	388.6271133	
238.6215227	0.704269309	0.002050136	0.022082428	GRAMD4

22	46576012	46679790	+	4885	
protein_coding	GRAM domain containing 4 [Source:HGNC				
Symbol;Acc:HGNC:29113]	-	406	448	345	231 221
260	4.069960076	4.345501326		4.394013366	
2.627601224	2.780834007	2.474798237			
ENSG00000169188	1260.171592	1683.260781		1250.841015	
1903.074125	1870.905106	2227.334015		1398.091129	
2000.437749	-0.516644062	0.002051401		0.022082428	APEX2
X	55000357	55009057	+	3245	
protein_coding	apurinic/apyrimidinic endodeoxyribonuclease 2				
[Source:HGNC Symbol;Acc:HGNC:17889]	-			1389 1902	1076
1837	1639	2582	20.96120417	27.77296535	
20.63024648	31.45621748	31.04642602		36.997515	
ENSG00000273291	15.42326642	7.079961225		13.9498998	0
0	0	12.15104248	0	6.035066757	
0.002052321	0.022082428	AC092042.3	3	42809446	
43055871	+	1654	protein_coding	novel protein	
-	17	8	12	0	0
0.50331758	0.22918222	0.45139068	0	0	0
ENSG00000263513	144.2529036	89.38451047		118.5741483	
35.22292883	65.06503421	21.56597613		117.4038541	
40.61797972	1.540292062	0.002061159		0.022164042	FAM72C
1	143955364	143971965	-	2297	
protein_coding	family with sequence similarity 72 member C				
[Source:HGNC Symbol;Acc:HGNC:30602]	-			159 101	102
34	57	25	3.389727703	2.083467928	
2.762778217	0.822488748	1.525320899		0.506069346	
ENSG00000113732	1030.637097	1246.073176		1212.478791	
1483.506885	1663.153594	1717.514339		1163.063021	
1621.391606	-0.479649573	0.002070415		0.022239191	
ATP6V0E1	5	172983757	173035445	+	1623
protein_coding	ATPase H+ transporting V0 subunit e1				
[Source:HGNC Symbol;Acc:HGNC:863]	-			1136 1408	1043
1432	1457	1991	34.27587064	41.10650713	
39.98274759	49.02713801	55.18085078		57.04055708	
ENSG00000162711	146.0674055	118.5893505		180.1862057	
266.2439032	239.7132839	325.2149201		148.2809873	
277.0573691	-0.906115395	0.002070662		0.022239191	NLRP3
1	247416156	247449108	+	4757	
protein_coding	NLR family pyrin domain containing 3 [Source:HGNC				
Symbol;Acc:HGNC:16400]	-	161	134	155 257	210
377	1.657377383	1.33474434		2.027241058	
3.002009177	2.713522978	3.685014634			
ENSG00000181666	341.1263632	340.723134		291.7854041	
424.7470829	591.292767	555.5395452		324.5449671	
523.8597984	-0.689611092	0.002072475		0.0222445	HKR1
19	37312837	37369365	+	7203	
protein_coding	"HKR1, GLI-Kruppel zinc finger family member				
[Source:HGNC Symbol;Acc:HGNC:4928]"	zf-C2H2	376	385		251
410	518	644	2.556248754	2.532641713	

2.168039315	3.162878329	4.42042173	4.15722443	
ENSG00000171302	2530.322944	2839.064451	2943.428858	
3464.278647	3699.575015	3837.881112	2770.938751	
3667.244925	-0.404610299	0.002073672	0.0222445	CANT1
17	78991717	79009867	- 4421	
protein_coding	calcium activated nucleotidase 1 [Source:HGNC			
Symbol;Acc:HGNC:19721]	-	2789 3208	2532 3344	3241
4449	30.89275804	34.38272435	35.63280679	
42.02984588	45.06152407	46.79214013		
ENSG00000189184	289.4130581	292.0484005	323.1726787	
164.7189907	205.4685291	107.8298807	301.5447124	
159.3391335	0.923753436	0.002083097	0.022324547	PCDH18
4	137518918	137532494	- 6686	
protein_coding	protocadherin 18 [Source:HGNC			
Symbol;Acc:HGNC:14268]	-	319 330	278 159	180 125
2.336431186	2.338697269	2.586933532	1.321425842	
1.65483041	0.869309967			
ENSG00000115524	6752.66894	5313.510899	5953.119739	
5151.871325	4144.756828	3240.072254	6006.433193	
4178.900136	0.523593967	0.002083658	0.022324547	SF3B1
2	197389784	197435091	- 9164	
protein_coding	splicing factor 3b subunit 1 [Source:HGNC			
Symbol;Acc:HGNC:10768]	-	7443 6004	5121 4973	3631
3756	39.77329964	31.04431231	34.76774646	
30.15403415	24.35502213	19.05774542		
ENSG00000134996	476.3067571	433.647625	599.8456913	
357.4091307	224.8738902	305.374222	503.2666912	
295.8857476	0.764047948	0.002102043	0.022507891	OSTF1
9	75088543	75147265	+ 1319	
protein_coding	osteoclast stimulating factor 1 [Source:HGNC			
Symbol;Acc:HGNC:8510]	-	525 490	516 345	197
354	19.49140706	17.60263668	24.33950562	
14.53403973	9.180551915	12.47927872		
ENSG00000133083	468.1414984	393.8228431	540.5586172	
350.1573513	221.4494147	241.5389327	467.5076529	
271.0485662	0.7854748	0.002115724	0.022640676	DCLK1
13	35768652	36131306	- 14375	
protein_coding	doublecortin like kinase 1 [Source:HGNC			
Symbol;Acc:HGNC:2700]	-	516 445	465 338	194
280	1.757804338	1.466825997	2.012574409	
1.306534526	0.829547458	0.905693386		
ENSG00000112319	303.0218226	334.5281679	215.0609552	
526.2719954	447.4647966	453.7481378	284.2036486	
475.82831	-0.740870359	0.002120451	0.022677542	EYA4
6	133240598	133532120	+ 8968	
protein_coding	EYA transcriptional coactivator and phosphatase 4			
[Source:HGNC	Symbol;Acc:HGNC:3522]	-	334 378	185
508	392 526	1.823809824	1.997204984	
1.283461883	3.147604491	2.686815392	2.727226214	
ENSG00000159363	1919.743044	1723.970558	2180.834335	



1207.939265	1471.382967	1468.211655	1941.515979	
1382.511296	0.489353346	0.002121939	0.022679747	
ATP13A2 1	16985958	17011928	- 5253	
protein_coding	ATPase cation transporting	13A2	[Source:HGNC	
Symbol;Acc:HGNC:30213]	-	2116 1948	1876 1166	1289
1702	19.7259054	17.57146584	22.21939757	
12.33397868	15.08317871	15.06548693		
ENSG00000124659	409.1701857	522.1471403	489.4089846	
584.2862311	818.4496408	825.5455663	473.5754369	
742.7604794	-0.649672657	0.002127457	0.022724997	TBCC
6	42744481	42746096	- 1616	
protein_coding	tubulin folding cofactor C		[Source:HGNC	
Symbol;Acc:HGNC:11580]	-	451 590	421 564	717
957	13.66670654	17.29964121	16.20867768	
19.39321406	27.27251312	27.53604733		
ENSG00000131149	2669.132342	2370.902015	2821.367234	
1965.232235	1779.58576	2065.157874	2620.467197	
1936.658623	0.435636959	0.002130031	0.022738756	GSE1
16	85169525	85676204	+ 13387	
protein_coding	Gse1 coiled-coil protein		[Source:HGNC	
Symbol;Acc:HGNC:28979]	-	2942 2679	2427 1897	1559
2394	10.7618786	9.482348028	11.27959119	
7.874012704	7.158305218	8.315184708		
ENSG00000006459	75.30183018	169.9190694	95.32431529	
153.3233372	269.3920714	364.8963162	113.5150716	
262.5372416	-1.208810634	0.002150794	0.022946562	KDM7A
7	140084746	140177035	- 9430	
protein_coding	lysine demethylase 7A		[Source:HGNC	
Symbol;Acc:HGNC:22224]	-	83 192	82 148	236
423	0.431017678	0.964752642	0.541014626	
0.872091526	1.538323485	2.085737708		
ENSG00000143494	307.5580775	197.3539191	282.4854709	
169.8988332	117.5736583	115.5936321	262.4658225	
134.3553745	0.965981304	0.002162781	0.023060542	VASH2
1	212950520	212992037	+ 9086	
protein_coding	vasohibin 2		[Source:HGNC Symbol;Acc:HGNC:25723]	-
339	223 243	164 103	134 1.827071946	
1.162943382	1.663950443	1.002958952	0.696805953	
0.685745686				
ENSG00000139083	797.4735991	501.7922518	628.9079826	
465.1498542	327.6081547	375.2479847	642.7246112	
389.3353312	0.722885758	0.00216473	0.023067416	ETV6
12	11649854	11895402	+ 7075	
protein_coding	ETS variant 6		[Source:HGNC Symbol;Acc:HGNC:3495]	
ETS	879 567	541 449	287 435	
6.084026744	3.797371228	4.757487628	3.526402985	
2.493462337	2.858866205			
ENSG00000173531	46.26979926	46.90474312	51.1496326	
65.26601518	158.6673641	161.3135015	48.10805833	
128.4156269	-1.418007248	0.002166056	0.02306765	MST1

3	49683947	49689501	-	5084		
protein_coding	macrophage stimulating 1 [Source:HGNC					
Symbol;Acc:HGNC:7380]	-	51	53	44	63	139
187	0.491239542	0.493965672	0.538460663			
0.688568342	1.680570046	1.710279471				
ENSG00000135404	5060.645888	6153.3713	7627.107715			
4380.074796	5007.72465	3920.694461	6280.374968			
4436.164636	0.501507607	0.002181251	0.023215495			CD63
12	55725323	55729707	-	2633		
protein_coding	CD63 molecule [Source:HGNC Symbol;Acc:HGNC:1692]					
-	5578	6953	6561	4228	4387	4545
103.7424104	125.126072	155.0336691	89.22697367			
102.4151335	80.26275202					
ENSG00000126016	320.259591	251.3386235	290.6229125			
137.7838098	182.6386925	160.4508624	287.4070423			
160.2911216	0.842988271	0.002182633	0.023216233			AMOT
X	112774503	112840815	-	8502		
protein_coding	angiomotin [Source:HGNC Symbol;Acc:HGNC:17810] -					
353	284	250	133	160	186	2.03321024
1.582791394	1.829471948	0.869245766	1.156767936			
1.017238671						
ENSG00000162631	204.1314673	153.9891566	173.2112558			
77.69763712	102.7342645	75.04959694	177.1106266			
85.16049953	1.059157122	0.002199163	0.023378003			NTNG1
1	107140007	107483458	+	9138		
protein_coding	netrin G1 [Source:HGNC Symbol;Acc:HGNC:23319] -					
225	174	149	75	90	87	1.205757711
0.902245107	1.01447643	0.456060179	0.605394841			
0.442689394						
ENSG00000129911	1056.040124	1323.067754	1232.241149			
1377.838098	1752.189956	2340.33973	1203.783009			
1823.455928	-0.599665223	0.002217431	0.023545514			KLF16
19	1852399	1863568	-	2955		protein_coding
Kruppel like factor 16 [Source:HGNC Symbol;Acc:HGNC:16857]						zf-
C2H2	1164	1495	1060	1330	1535	2713
23.97232452	22.31799761	25.00956854	31.9299512			
42.689722						
ENSG00000231595	19.05227029	2.654985459	16.2748831			0
0	0	12.66071295	0	6.093566089		
0.002217583	0.023545514	AC005224.1	17	14210488		
14217922	+	1537	lincRNA	novel transcript		
-	21	3	14	0	0	0
0.669073934	0.092485538	0.566710181	0	0		0
ENSG00000174371	1776.397391	1600.956232	1492.639278			
1371.622287	995.3808742	988.5843459	1623.330967			
1118.529169	0.537790543	0.002230683	0.023670396			EX01
1	241847967	241895148	+	4140		
protein_coding	exonuclease 1 [Source:HGNC Symbol;Acc:HGNC:3511]					
-	1958	1809	1284	1324	872	1146
23.16013198	20.70449616	19.29618833	17.77050164			

12.94683174	12.87108904						
ENSG00000128617	218.6474828	201.7788949	226.6858717				
102.560881	128.9885766	109.5551588	215.7040831				
113.7015388	0.924563609	0.002237132	0.023724592	OPN1SW			
7	128772491	128775790	- 1096				
protein_coding	"opsin 1, short wave sensitive [Source:HGNC						
Symbol;Acc:HGNC:1012]"	-	241 228	195 99	113			
127	10.7680031	9.857135661	11.0695739				
5.019225226	6.337460267	5.387957792					
ENSG00000196967	35.38278767	72.56960256	60.44956579				
132.6039673	133.5545439	139.7475253	56.13398534				
135.3020122	-1.270287306	0.002240477	0.023745833				
ZNF585A 19	37106734	37172741	- 10758				
protein_coding	zinc finger protein 585A [Source:HGNC						
Symbol;Acc:HGNC:26305]"	zf-C2H2	39 82	52 128	117			
162	0.177525911	0.361167575	0.300731313				
0.661135494	0.668500416	0.700187725					
ENSG00000101680	1.814501932	4.424975766	2.3249833				
4.14387398	14.83939377	81.9507093	2.854820332				
33.64465902	-3.555578127	0.002242744	0.023755624	LAMA1			
18	6941744 7117814	- 15872	protein_coding				
laminin subunit	alpha 1 [Source:HGNC Symbol;Acc:HGNC:6481]"						
2	5 2 4	13	95	0.006170595			
0.014926734	0.007839804	0.014003622	0.050345314				
0.278306256							
ENSG00000174516	204.1314673	285.8534345	196.4610888				
291.1071471	406.3710908	582.2813556	228.8153302				
426.5865312	-0.898537847	0.00226131	0.023937947	PELI3			
11	66466327	66477337	+ 3926				
protein_coding	pellino E3 ubiquitin protein ligase family member 3						
[Source:HGNC Symbol;Acc:HGNC:30010]"	-		225 323	169			
281	356 675	2.806473246	3.898330609				
2.678201543	3.977114261	5.573744578	7.994374621				
ENSG00000177352	788.4010894	1022.169402	835.8314963				
1040.112369	1437.138212	1472.52485	882.1339959				
1316.59181	-0.577540664	0.002275137	0.024069913	CCDC71			
3	49162535	49166321	- 1781				
protein_coding	coiled-coil domain containing 71 [Source:HGNC						
Symbol;Acc:HGNC:25760]"	-	869 1155	719 1004	1259			
1707	23.89376239	30.72872251	25.11723434				
31.32433335	43.45193997	44.56568844					
ENSG00000123933	581.5478692	739.855948	924.1808617				
822.558985	1359.516767	1513.931524	748.5282263				
1232.002426	-0.72011286	0.002288437	0.024196151	MXD4			
4	2247432 2262294	- 7058	protein_coding	MAX			
dimerization protein 4 [Source:HGNC Symbol;Acc:HGNC:13906]"				bHLH			
641	836 795 794	1191 1755	4.447388401				
5.612431639	7.007971407	6.251020052	10.37235728				
11.56182748							
ENSG00000103021	25.40302705	13.2749273	0 56.97826722				

	90.17785443	66.42320649	12.89265145	71.19310938	
	-2.445926411	0.002297911	0.024281805	CCDC113 16	
	58231157	58283836	+ 5927	protein_coding	
	coiled-coil domain containing 113 [Source:HGNC				
Symbol;Acc:HGNC:25002]	-	28	15	0	55 79
	77	0.231340563	0.119917557	0	0.515631934
	0.819293528	0.604069372			
ENSG00000123572	35.38278767	33.62981582	44.1746827		
6.215810969	0	8.626390453	37.7290954	4.947400474	
	2.900016098	0.002304546	0.024337384	NRK X	
	105822543	105958610	+ 9573	protein_coding	
	Nik related kinase [Source:HGNC Symbol;Acc:HGNC:25391] -				
	39	38	38	6	0
	0.188088385	0.246968966	0.034826933	0	0.199501071
	0.048571661				
ENSG00000116132	5195.826282	5390.505478	5733.408817		
7164.758111	7203.954928	6625.067868	5439.913526		
6997.926969	-0.363381121	0.002308986	0.024369718	PRRX1	
	1	170662728	170739419	+ 8246	
	protein_coding paired related homeobox 1 [Source:HGNC				
Symbol;Acc:HGNC:9142]	Homeobox	5727	6091	4932	6916
	6311	7680	34.01046237	35.00029541	37.21230605
	46.60405411	47.04377995	43.30608338		
ENSG00000119986	131.5513901	145.1392051	142.9864729		
191.6541716	336.7400893	271.7312993	139.892356		
266.70852	-0.930518725	0.002316735	0.024436922	AVPI1	
	10	97677424	97687323	- 1457	
	protein_coding arginine vasopressin induced 1 [Source:HGNC				
Symbol;Acc:HGNC:30898]	-	145	164	123	185
	315	4.87345695	5.333480813	5.252334857	295
7.055441906	12.44542765	10.05268375			
ENSG00000166016	165.1196758	92.03949592	165.0738143		
37.29486582	83.32890346	39.68139608	140.7443287		
53.43505512	1.401896976	0.002340353	0.024671339	ABTB2	
	11	34150988	34358008	- 4973	
	protein_coding ankyrin repeat and BTB domain containing 2				
[Source:HGNC Symbol;Acc:HGNC:23842]	-	182	104	142	
	36	73	46	1.792179942	0.990926222
1.776547123	0.40225003	0.90230167	0.430100939		
ENSG00000152518	1186.684264	1107.128937	1257.815965		
874.3574097	831.0060509	848.8368206	1183.876388		
851.4000937	0.475142276	0.002359176	0.0248522		
ZFP36L2 2	43222402	43226609	- 3696		
	protein_coding ZFP36 ring finger protein like 2 [Source:HGNC				
Symbol;Acc:HGNC:1108]	Others	1308	1251	1082	844
	984	17.33023552	16.0380583	18.21386632	728
12.68885772	12.10728532	12.37924488			
ENSG00000146410	347.47712	274.3484975	235.9858049		
173.0067386	158.6673641	141.4728034	285.9371408		
157.7156354	0.860632637	0.00236032	0.0248522	MTRF2	

6	136231024	136250335	-	2450		
protein_coding	mitochondrial fission regulator 2				[Source:HGNC	
Symbol;Acc:HGNC:21115]	-	383 310	203 167	139		
164	7.655285166	5.995453656	5.155096509			
3.787585371	3.487354332	3.112495855				
ENSG00000157216	1330.937167	1240.763205	1725.137608			
976.9182907	940.5892664	1059.320748	1432.279327			
992.2761016	0.528261991	0.002362805	0.024863573	SSBP3		
1	54225432	54413479	-	5227		
protein_coding	single stranded DNA binding protein 3				[Source:HGNC	
Symbol;Acc:HGNC:15674]	-	1467 1402	1484 943	824		
1228	13.74378325	12.70930946	17.66396711			
10.02469657	9.689961952	10.9238791				
ENSG00000128609	1600.390704	1461.126998	1575.176186			
1220.370887	1102.681106	1062.771304	1545.564629			
1128.607766	0.453675341	0.002374155	0.024968149	NDUFA5		
7	123536997	123558255	-	9851		
protein_coding	NADH:ubiquinone oxidoreductase subunit A5				[Source:HGNC	
Symbol;Acc:HGNC:7688]	-	1764 1651	1355 1178	966		
1232	8.768936906	7.941329115	8.557872715			
6.644725049	6.027596438	5.815156497				
ENSG00000140830	771.1633211	757.5558511	730.0447561			
1030.788652	947.4382174	1332.777325	752.9213094			
1103.668065	-0.5524664	0.002376956	0.024982754	TXNL4B		
16	72044289	72094431	-	3170		
protein_coding	thioredoxin like 4B				[Source:HGNC	
Symbol;Acc:HGNC:26041]	-	850 856	628 995	830		
1545	13.13071415	12.79501924	12.32557612			
17.44117992	16.09408128	22.6621046				
ENSG00000178078	356.5496296	328.3332018	358.0474282			
468.2577597	561.6139795	587.4571898	347.6434199			
539.109643	-0.633680487	0.002382457	0.025018499	STAP2		
19	4324043 4342786	-	2766	protein_coding	signal	
transducing adaptor family member 2					[Source:HGNC	
Symbol;Acc:HGNC:30430]	-	393 371	308 452	492		
681	6.957753816	6.355477341	6.927960252			
9.080260389	10.93352714	11.44790335				
ENSG00000269927	23.58852512	23.89486913	30.2247829			
5.179842475	0 0	25.90272572	1.726614158			
3.922056534	0.002383186	0.025018499	AC004817.3	14		
71141125	71143253	-	2129	lincRNA	novel	
transcript	-	26 27	5 0	0		
0.598034681	0.600917074	0.759809174	0.13049876			
0	0					
ENSG00000048471	614.208904	625.6915733	630.0704742			
1124.025817	1027.342645	711.6772124	623.3236505			
954.3485582	-0.613699924	0.002391199	0.025087737	SNX29		
16	11976737	12574289	+	11298		
protein_coding	sorting nexin 29				[Source:HGNC	
-	677 707	542 1085	900 825		Symbol;Acc:HGNC:30542]	

2.934376134	2.965133723	2.984726646	5.336299685	
4.896528642	3.395340988			
ENSG00000240038	9.979760626	20.35488852	9.299933199	
33.15099184	58.21608324	78.50015312	13.21152745	
56.6224094	-2.09289343	0.002399291	0.025157711	AMY2B
1	103553815	103579534	+ 7491	
protein_coding	"amylase, alpha 2B (pancreatic) [Source:HGNC Symbol;Acc:HGNC:478]"	-	11 23 8 32	51
91	0.071908722	0.145483748	0.066444194	
0.23736803	0.418482922	0.564849324		
ENSG00000182054	1670.249028	1732.82051	2492.382097	
1338.471295	1523.891591	1046.381162	1965.150545	
1302.914683	0.592957498	0.002407951	0.025233555	IDH2
15	90083045	90102504	- 2814	
protein_coding	"isocitrate dehydrogenase (NADP(+)) 2, mitochondrial [Source:HGNC Symbol;Acc:HGNC:5383]"	-	1841 1958 2144	
1292	1335 1213	32.03748228	32.96970302	
47.40318629	25.51234999	29.16114234	20.04323073	
ENSG00000077232	2219.135863	1827.514991	1889.048931	
1689.664615	1278.470848	1034.304215	1978.566595	
1334.146559	0.569124099	0.002412343	0.025264616	
DNAJC10 2	182716041	182794464	+ 21835	
protein_coding	DnaJ heat shock protein family (Hsp40) member C10 [Source:HGNC Symbol;Acc:HGNC:24637]	-	2446 2065 1625	
1631	1120 1199	5.485698568	4.481189406	
4.630277456	4.150618414	3.152914448	2.553271543	
ENSG00000067141	1046.967615	962.8747266	1191.553941	
779.0483082	787.6293614	468.4130016	1067.132094	
678.3635571	0.654660439	0.002434357	0.025466601	NEO1
15	73051710	73305206	+ 8117	
protein_coding	neogenin 1 [Source:HGNC Symbol;Acc:HGNC:7754]	-		
1154	1088 1025	752 690	543 6.962078991	
	6.351258516	7.856609468	5.147950215 5.225175778	
	3.110536499			
ENSG00000090857	951.7062633	1086.774048	875.3562124	
1412.025059	1348.101849	1310.34871	971.2788412	
1356.825206	-0.481424086	0.002434509	0.025466601	PDPR
16	70113626	70162537	+ 10385	
protein_coding	pyruvate dehydrogenase phosphatase regulatory subunit [Source:HGNC Symbol;Acc:HGNC:30264]	-	1049 1228 753	
1363	1181 1519	4.946496099	5.602970124	
4.511233659	7.292919144	6.990218594	6.801149025	
ENSG00000110013	216.8329809	180.5390112	240.6357715	
128.4600934	105.0172482	94.02765594	212.6692545	
109.1683325	0.962078305	0.002435991	0.025467046	SIAE
11	124633113	124695707	- 8139	
protein_coding	sialic acid acetyltransferase [Source:HGNC Symbol;Acc:HGNC:18187]	-	239 204 207 124	92
109	1.437988908	1.187642033	1.582363088	
0.846569622	0.694806926	0.6227109		

ENSG00000214022	2044.036426	1939.909376	1958.79843	
1499.046412	1587.815133	1255.139811	1980.914744	
1447.333785	0.453487297	0.002439168	0.0254852	REPIN1
7	150368189	150374044	+ 4649	
protein_coding	replication initiator 1 [Source:HGNC			
Symbol;Acc:HGNC:17922]	zf-C2H2	2253 2192	1685 1447	1391
1455	23.73178084	22.34124877	22.55003424	
17.29501841	18.39140652	14.55239469		
ENSG00000145390	1095.959167	955.7947654	1074.142285	
1628.542474	1586.673641	1234.436474	1041.965406	
1483.21753	-0.509055437	0.002443762	0.025518131	USP53
4	119212587	119295517	+ 11950	
protein_coding	ubiquitin specific peptidase 53 [Source:HGNC			
Symbol;Acc:HGNC:29255]	-	1208 1080	924 1572	1390
1431	4.950256612	4.282351295	4.810729219	
7.30965164	7.149805954	5.568045129		
ENSG00000082458	215.9257299	147.7941906	203.4360387	
123.2802509	62.78205055	69.87376267	189.0519864	
85.31202137	1.147577883	0.002450181	0.025570055	DLG3
X	70444861	70505490	+ 7844	
protein_coding	discs large MAGUK scaffold protein 3 [Source:HGNC			
Symbol;Acc:HGNC:2902]	-	238 167	175 119	55
81	1.485826349	1.008800589	1.388057031	
0.842988054	0.430995231	0.480151679		
ENSG00000119333	1987.786866	2266.472587	2363.345524	
1709.348017	1385.771079	1704.574753	2205.868326	
1599.89795	0.462686367	0.002465439	0.025714124	WDR34
9	128633661	128656787	- 2604	
protein_coding	WD repeat domain 34 [Source:HGNC			
Symbol;Acc:HGNC:28296]	-	2191 2561	2033 1650	1214
1976	41.20311792	46.60097888	48.57393031	
35.20910681	28.65662675	35.28393217		
ENSG00000125650	152.4181623	180.5390112	149.9614228	
190.6182031	369.8433523	374.3853456	160.9728655	
311.6156337	-0.95247081	0.002474464	0.025793044	PSPN
19	6375148 6379058	- 3911	protein_coding	
persephin [Source:HGNC	Symbol;Acc:HGNC:9579]			
129	184 324	434 2.103536971	2.471546537	204
	2.052148294	2.614219505	5.09218947	5.159800755
ENSG00000272325	203.2242164	315.9432697	259.2356379	
102.560881	98.16829722	180.2915605	259.467708	
127.0069129	1.026455029	0.002480893	0.025844824	NUDT3
6	34279679	34392674	- 9905	
protein_coding	nudix hydrolase 3 [Source:HGNC			
Symbol;Acc:HGNC:8050]	-	224 357	223 99	86 209
1.107445141	1.707812457	1.400739029	0.555383225	
0.533692785	0.981121571			
ENSG00000115363	685.8817303	914.1999932	1171.791583	
581.1783256	576.4533732	617.6495564	923.9577688	
591.7604184	0.641444558	0.002485134	0.025873766	EVA1A

2	75469302	75569722	-	2744	
protein_coding	"eva-1 homolog A, regulator of programmed cell death [Source:HGNC Symbol;Acc:HGNC:25816]"				
	561	505	716	13.49169057	17.83785607
22.85510768	11.3603261	11.31239683	12.13276912		
ENSG00000105429	1991.41587	2193.017989	2986.441049		
1323.967736	1671.144036	1858.987143	2390.291636		
1618.032972	0.562147843	0.002492416	0.025934322		MEGF8
19	42325609	42378769	+	11372	
protein_coding	multiple EGF like domains 8 [Source:HGNC Symbol;Acc:HGNC:3233]				
	2155	9.452057548	10.32501977	14.05510518	
6.244620443	7.913189862	8.811329492			
ENSG00000164266	0	0.884995153	0	39.36680281	0
	18.978059	0.294998384	19.44828727	-5.797083149	
	0.002508992	0.02609145	SPINK1	5	147824568
	147831786	-	1480	protein_coding	"serine
peptidase inhibitor, Kazal type 1 [Source:HGNC Symbol;Acc:HGNC:11244]"	-	0	1	0	38
	22	0	0.032015827	0	1.426704151
	0.691181306				0
ENSG00000163159	1261.986094	1513.341712	1583.313627		
1725.923513	2351.473166	2098.800797	1452.880478		
2058.732492	-0.503065956	0.002516482	0.026153965		VPS72
1	151169987	151195321	-	4545	
protein_coding	vacuolar protein sorting 72 homolog [Source:HGNC Symbol;Acc:HGNC:11644]				
	2433	14.98724911	17.82742687	18.64447104	
20.36822356	27.85997312	24.89082202			
ENSG00000198774	202.3169654	107.9694087	148.7989312		
62.15810969	55.93309958	80.22543121	153.0284351		
66.10554683	1.207722222	0.002524541	0.026211886		RASSF9
12	85800697	85836570	-	5682	
protein_coding	Ras association domain family member 9 [Source:HGNC Symbol;Acc:HGNC:15739]				
	93	1.921906773	1.017384325	1.401572562	
0.586762114	0.530080967	0.761049206			
ENSG00000185164	585.1768731	761.0958317	1053.217435		
486.9051926	567.3214386	401.9897951	799.8300465		
485.4054754	0.720431454	0.002525019	0.026211886		NOMO2
16	18417325	18562211	-	6801	
protein_coding	NODAL modulator 2 [Source:HGNC Symbol;Acc:HGNC:22652]				
	645	860	906	470	497
4.644250359	5.991728376	8.288239067	3.840052189		
4.491909255	3.185988178				
ENSG00000127554	459.9762398	565.5119028	519.6337675		
300.4308635	386.9657298	273.4565774	515.0406367		
320.2843902	0.687206339	0.002528036	0.02622782		GFER
16	1984207	1987749	+	2687	
protein_coding	"growth factor, augmenter of liver regeneration				



[Source:HGNC Symbol;Acc:HGNC:4236]"	-	507	639	447
290	339 317	9.239936284	11.26833196	
10.35015142	5.997114975	7.754956963	5.485580769	
ENSG00000240996	10.88701159	8.849951531	15.11239145	0
0	0 11.61645152	0	5.969365176	
0.002540748	0.026323561	AL157400.4	10	89694295
89697928	-	667	lincRNA	novel transcript
-	12 10	13	0	0
0.881016609	0.710396163	1.21261899	0	0
ENSG00000170006	238.6070041	273.4635023	142.9864729	0
406.09965	406.3710908	363.1710381	218.3523264	
391.880593	-0.83978429	0.002541483	0.026323561	
TMEM154 4	152618632	152680165	-	11587
protein_coding	transmembrane protein 154	[Source:HGNC		
Symbol;Acc:HGNC:26489]	-	263 309	123 392	356
421	1.11151013	1.2636125	0.660451531	
1.879866911	1.888540711	1.689437411		
ENSG00000137252	35.38278767	46.01974796	49.98714095	
8.287747959	0 11.21430759	43.79655886	6.500685183	
2.725912014	0.002541729	0.026323561	HCRTR2	6
55106460	55282620	+	1964	protein_coding
hypocretin receptor 2	[Source:HGNC Symbol;Acc:HGNC:4849]			
-	39 52	43 8	0	13
0.972415353	1.254550942	1.362177865	0.226339602	0
0.307774679				
ENSG00000257167	139.7166488	101.7744426	144.1489646	
44.54664528	41.09370581	71.59904076	128.5466853	
52.41313062	1.28744592	0.002545757	0.026349856	TMPO-
AS1 12	98512973	98516422	-	3357
antisense	TMPO antisense RNA 1	[Source:HGNC		
Symbol;Acc:HGNC:44158]	-	154 115	124 43	36
83	2.246456757	1.623203386	2.29814375	
0.711752757	0.659171648	1.149629155		
ENSG00000033170	1011.584827	855.7903131	1055.542418	
754.1850643	433.7668947	664.2320649	974.3058527	
617.3946746	0.656829681	0.002547914	0.026356756	FUT8
14	65410592	65744121	+	6700
protein_coding	fucosyltransferase 8	[Source:HGNC		
Symbol;Acc:HGNC:4019]	-	115 967	908 728	380
770	8.14945842	6.8387718	8.431753322	
6.037659547	3.48623095	5.343759948		
ENSG00000137434	66.22932052	69.9146171	52.31212425	
117.0644399	117.5736583	207.0333709	62.81868729	
147.223823	-1.2285942	0.002557804	0.026443597	
C6orf52 6	10671418	10694797	-	884
protein_coding	chromosome 6 open reading frame 52	[Source:HGNC		
Symbol;Acc:HGNC:20881]	-	73 79	45 113	103
240	4.043889488	4.234491516	3.16713879	
7.102941243	7.161967071	12.62379679		
ENSG00000224032	182.3574442	261.0735702	233.6608216	

370.8767212	355.0039586	413.2041027	225.6972787		
379.6949275	-0.751343482	0.002565219	0.026504766		
EPB41L4A-AS1	5	112160526	112164276	+	3344
lincRNA EPB41L4A antisense RNA 1 [Source:HGNC					
Symbol;Acc:HGNC:30749]	-	201	295	201	358
479	2.943462263	4.180056847	3.739698888		311
5.948792239	5.71664838	6.660399243			
ENSG00000179954	291.2275601	192.9289434	383.6222445		
155.3952742	100.4512809	172.5278091	289.2595826		
142.7914547	1.01384921	0.002569583	0.02653436		SSC5D
19	55488404	55519098	+	7314	
protein_coding scavenger receptor cysteine rich family member with 5					
domains [Source:HGNC Symbol;Acc:HGNC:26641]	-			321	218
330	150	88	200	2.149209541	1.412303315
	2.807151362	1.139589258	0.739562831		1.271469825
ENSG00000283041	3449.368173	3576.265414	4397.705912		
4353.139616	6106.981281	5438.93918	3807.779833		
5299.686692	-0.477184495	0.002574065	0.026549666		
AC008038.1	7	133034607	133035920	-	1314
processed_pseudogene eukaryotic translation elongation					
factor 1 gamma (	-	3802	4041	3783	4202
6305	141.6920328	145.7202562	179.1215434		5350
177.6939848	250.2682616	223.1108772			
ENSG00000140199	650.4989426	623.9215829	647.507849		
859.8538508	860.6848384	1049.831718	640.6427915		
923.4568024	-0.528370987	0.002574067	0.026549666		
SLC12A6 15	34229996	34338060	-	10056	
protein_coding solute carrier family 12 member 6 [Source:HGNC					
Symbol;Acc:HGNC:10914]	-	717	705	557	830
1217	3.491584642	3.321928596	3.446170632		754
4.58632547	4.608859207	5.627251579			
ENSG00000130726	14400.79458	16138.77161	16076.09703		
16867.63903	22092.43284	24266.89898	15538.55441		
21075.65695	-0.439772975	0.002586147	0.026658716		TRIM28
19	58544091	58550722	+	4034	
protein_coding tripartite motif containing 28 [Source:HGNC					
Symbol;Acc:HGNC:16384]	-	15873	18236	13829	16282
28131	192.6867297	214.2003275	213.2856954		19354
224.2765672	294.9050456	324.2502316			
ENSG00000112531	3983.738992	3217.842377	3773.447896		
2914.179376	2717.892043	2587.917136	3658.343088		
2739.996185	0.417025613	0.002588935	0.026671909		QKI
6	163414000	163578596	+	17368	
protein_coding "QKI, KH domain containing RNA binding [Source:HGNC					
Symbol;Acc:HGNC:21100]"	-	4391	3636	3246	2813
3000	12.38061761	9.919744925	11.62801415		2381
8.999781495	8.426688597	8.031607237			
ENSG00000157873	47.17705023	25.66485944	24.41232465		
45.58261378	119.856642	144.9233596	32.41807811		
103.4542051	-1.671633666	0.002592268	0.02667899		

TNFRSF14	1	2555639	2565382	+	6219	protein_coding	
TNF receptor superfamily member 14 [Source:HGNC							
Symbol;Acc:HGNC:11912]	-	52	29	21	44	105	
168	0.409459989	0.220955025	0.210090098				
0.393137221	1.037805821	1.256087064					
ENSG00000117682	627.8176685	794.7256475	764.9195056				
1000.745566	1244.226093	966.1557307	729.1542739				
1070.375796	-0.553468488	0.002592639	0.02667899			DHDDS	
1	26432282	26471294	+	5596			
protein_coding	dehydrodolichyl diphosphate synthase subunit						
[Source:HGNC	Symbol;Acc:HGNC:20603]						
966	1090	1120	6.055598492	7.603701716		658	
7.315685625	9.59205067	11.9728117	9.30617757				
ENSG00000167565	382.8599076	412.4077414	519.6337675				
292.1431156	284.2314652	204.4454537	438.3004722				
260.2733448	0.752592787	0.002604681	0.026787325				
SERTAD3	19	40440844	40444705	-	2218		
protein_coding	SERTA domain containing 3 [Source:HGNC						
Symbol;Acc:HGNC:17931]	-	422	466	447	282	249	
237	9.317075027	9.95521894	12.53870913				
7.064795744	6.900573173	4.96841452					
ENSG00000151247	1263.800596	1221.293311	1097.392117				
975.8823222	751.1016229	765.1608332	1194.162008				
830.7149261	0.524064075	0.00260843	0.026810293			EIF4E	
4	98871684	98930637	-	14067			
protein_coding	eukaryotic translation initiation factor 4E						
[Source:HGNC	Symbol;Acc:HGNC:3287]						
942	658	887	4.849291739	4.648405857		944	
4.175200669	3.721015328	2.875224539	2.931926984				
ENSG00000237596	43.54804637	31.85982551	11.6249165				
109.8126605	103.8757564	68.14848458	29.01092946				
93.9456338	-1.683225787	0.002613154	0.026839281				
AL138828.1	6	135991936	136225751	-	6585		
	antisense	novel transcript		-	48	36	
10	106	91	79	0.356955552	0.259043776		
	0.094482433	0.894462483	0.849440519	0.557830595			
ENSG00000119927	790.2155914	667.2863455	691.6825317				
475.5095392	444.0403212	527.0724567	716.3948228				
482.207439	0.570358853	0.002614285	0.026839281			GPAM	
10	112149864	112215377	-	9808			
protein_coding	"glycerol-3-phosphate acyltransferase, mitochondrial						
[Source:HGNC	Symbol;Acc:HGNC:24865]"						
459	389	611	4.348769422	3.642649035		595	
3.774360297	2.600424637	2.437903463	2.896621642				
ENSG00000213614	469.0487494	578.7868301	652.1578156				
225.8411319	327.6081547	431.3195226	566.664465				
328.2562697	0.785389146	0.002618415	0.02685514			HEXA	
15	72340919	72376476	-	12611			
protein_coding	hexosaminidase subunit alpha [Source:HGNC						
Symbol;Acc:HGNC:4878]	-	517	654	561	218	287	

500	2.007565395	2.457280099	2.767707446	
0.960547866	1.398877649	1.843535465		
ENSG00000145868	951.7062633	793.8406523	899.768537	
1259.73769	1272.763388	1162.837433	881.7718176	
1231.779504	-0.482202178	0.002618866	0.02685514	FBX038
5	148383935	148442836	+ 8722	
protein_coding	F-box protein 38 [Source:HGNC Symbol;Acc:HGNC:28844]			
-	1049 897	774 1216	1115 1348	
5.889631046	4.873071701	5.521177697	7.746928296	
7.857893624	7.186291472			
ENSG00000061273	1706.539067	1763.79534	1729.787575	
1111.594195	1389.195555	1296.546485	1733.373994	
1265.778745	0.453710778	0.002627896	0.026924997	HDAC7
12	47782722	47833132	- 9928	
protein_coding	histone deacetylase 7 [Source:HGNC			
Symbol;Acc:HGNC:14067]	-	1881 1993	1488 1073	1217
1503	9.278028679	9.512002835	9.324982154	
6.00551142	7.534877047	7.039279835		
ENSG00000261620	9.07250966	17.69990306	8.137441549	0
0	0	11.63661809 0	5.97561647	
0.002628722	0.026924997	HMG2P41	16 35802869	
35803280	-	412	processed_pseudogene	high
mobility group nucleosomal binding domain 2 pseudogene 41 [Source:HGNC				
Symbol;Acc:HGNC:39412]	-	10 20	7 0	0
0	1.188588345	2.300166216	1.057079549	0
0	0			
ENSG00000100258	1660.269268	2008.938998	2162.234469	
1423.420712	1506.769213	1245.650781	1943.814245	
1391.946902	0.481911933	0.002634188	0.026954646	LMF2
22	50502949	50507691	- 3054	
protein_coding	lipase maturation factor 2 [Source:HGNC			
Symbol;Acc:HGNC:25096]	-	1830 2270	1860 1374	1320
1444	29.34342072	35.21950642	37.89228177	
24.9994091	26.56759601	21.98513712		
ENSG00000091651	885.4769428	861.100284	720.7448229	
636.0846559	452.030764	542.5999595	822.4406832	
543.5717931	0.597584708	0.002634665	0.026954646	ORC6
16	46689643	46698394	+ 4309	
protein_coding	origin recognition complex subunit 6 [Source:HGNC			
Symbol;Acc:HGNC:17151]	-	976 973	620 614	396
629	11.09179941	10.69948285	8.952040576	
7.917788938	5.648928165	6.787426965		
ENSG00000251562	2751.69218	2607.195721	1553.088844	
3502.609481	3239.553808	3524.743139	2303.992248	
3422.302143	-0.570199909	0.002637606	0.02696914	MALAT1
11	65497688	65506516	+ 8829	
lincRNA metastasis associated lung adenocarcinoma transcript 1				
[Source:HGNC Symbol;Acc:HGNC:29665]	-		3033 2946	1336
3381	2838 4086	16.82246282	15.81057507	
9.41459816	21.27872969	19.758239	21.51879081	

ENSG00000231638	4.53625483	35.39980612	1.16249165	0	
0	0	13.69951753	0	6.213574302	
0.002640599	0.026972264	LUARIS	7	43508728	
43522542	-	2916	antisense	lncRNA upregulator of	
antiviral response interferon signaling [Source:HGNC					
Symbol;Acc:HGNC:40992]	-	5	40	1	0
0	0.083967489	0.649978382	0.021336311	0	0
0	0				
ENSG00000146223	7770.604524	8092.39568	7498.071142		
9760.895159	9574.833455	10324.06409	7787.023782		
9886.597569	-0.344391425	0.002640961	0.026972264		RPL7L1
6	42879618	42889925	+	7809	
protein_coding ribosomal protein L7 like 1 [Source:HGNC					
Symbol;Acc:HGNC:21370]	-	8565	9144	6450	9422
11968	53.71067719	55.48393259	51.38911499		8388
67.04396964	66.02529635	71.26186364			
ENSG00000244045	265.824533	346.0331049	366.1848697		
485.8692241	619.8300627	473.5888359	326.0141692		
526.4293742	-0.691565647	0.002654176	0.027085259		
TMEM199	17	28357581	28363683	+	4620
protein_coding transmembrane protein 199 [Source:HGNC					
Symbol;Acc:HGNC:18085]	-	293	391	315	469
549	3.105663002	4.010155586	4.2420465		543
5.640828693	7.224457062	5.525370276			
ENSG00000198952	4449.158737	4694.014292	4197.757348		
5199.525876	6091.000395	6180.808759	4446.976792		
5823.778343	-0.389031843	0.002655087	0.027085259		SMG5
1	156249224	156282825	-	5304	
protein_coding "SMG5, nonsense mediated mRNA decay factor					
[Source:HGNC Symbol;Acc:HGNC:24644]"	-	4904	5304		3611
5019	5336	7165	45.27679007	47.38342406	
42.35754878	52.58062256	61.83860241	62.81215554		
ENSG00000133247	167.8414287	242.488672	196.4610888		
69.40988916	66.20652603	138.0222472	202.2637298		
91.21288748	1.143426855	0.002675994	0.027270205		KMT5C
19	55339853	55348120	+	4775	
protein_coding lysine methyltransferase 5C [Source:HGNC					
Symbol;Acc:HGNC:28405]	-	185	274	169	67
160	1.89726081	2.718965066	2.202014504		58
0.779674751	0.746624055	1.55803649			
ENSG00000285644	0	0	6.215810969	10.27342645	
18.11541995	0	11.53488579	-6.006144273		
0.0026763	0.027270205	AC108448.3	11	3057538	
3064707	+	2507	antisense	"novel transcript, antisense	
to CARS"	-	0	0	0	6
0	0	0	0.13298693	0.220666057	21
0.389489701					
ENSG00000109805	2319.84072	1778.840258	2297.0835		
1251.449942	497.6904371	392.5007656	2131.921493		
713.8803815	1.578527257	0.00267921	0.027284136		NCAPG

4	17810902	17844862	+	4921	
protein_coding	non-SMC condensin I complex subunit G [Source:HGNC				
Symbol;Acc:HGNC:24304]	-	2557	2010	1976	1208 436
455	25.44521041	19.35392854		24.98276034	
13.6403531	5.446035707	4.299213866			
ENSG00000121774	6868.797063	6524.184269		8057.229625	
5955.782877	5285.107164	4856.657825		7150.070319	
5365.849289	0.41407942	0.002698372		0.027461867	
KHDRBS1 1	32013829	32060850	+	3588	
protein_coding	"KH RNA binding domain containing, signal transduction				
associated 1 [Source:HGNC Symbol;Acc:HGNC:18116]"	-			7571	
7372	6931	5749	4630	5630	103.3307295
97.35524028	120.185012	89.03318668		79.31876012	
72.96036175					
ENSG00000135723	2619.233539	2622.240639		2642.34352	
2134.095099	1966.79042	1899.531178		2627.939233	
2000.138899	0.393945267	0.002699768		0.027461867	FHOD1
16	67229387	67247658	-	5407	
protein_coding	formin homology 2 domain containing 1 [Source:HGNC				
Symbol;Acc:HGNC:17905]	-	2887	2963	2273	2060 1723
2202	26.14683329	25.9658009		26.15471023	
21.17009927	19.58737636	18.93616212			
ENSG0000012822	276.7115446	333.6431727		292.9478958	
440.2866103	460.0212068	521.8966224		301.100871	
474.0681465	-0.655044599	0.002706912		0.027518712	
CALCOC01	12	53708517	53727745	-	8898
protein_coding	calcium binding and coiled-coil domain 1				
[Source:HGNC Symbol;Acc:HGNC:29306]	-		305	377	252
425	403	605	1.678557108	2.007591691	
1.762036847	2.654046773	2.783940858		3.161505862	
ENSG00000213073	34.47553671	35.39980612		22.08734135	
66.30198367	126.7055929	77.63751407		30.65422806	
90.21503023	-1.549661698	0.002717099		0.027606408	
AL353625.1	6	160093082	160096212	+	3131
transcribed_processed_pseudogene	calcineurin like EF-				
hand protein 1 pseudogene [Source:NCBI gene;Acc:729603]	-			38	
40	19	64	111	90	0.594332135
0.605345564	0.377552526	1.135818531		2.179150732	
1.336566156					
ENSG00000160285	3540.093269	3393.071417		3173.602204	
2825.086086	2462.197873	1648.503216		3368.922297	
2311.929058	0.543775924	0.002722648		0.027646908	LSS
21	46188141	46228824	-	7238	
protein_coding	lanosterol synthase [Source:HGNC Symbol;Acc:HGNC:6708]				
-	3902	3834	2730	2727	2157 1911
26.39960141	25.09920528	23.46664021		20.93527176	
18.31803677	12.27645925				
ENSG00000161091	1985.065114	2349.662132		2100.622411	
2610.640607	2854.871062	3229.720586		2145.116552	
2898.410752	-0.434332632	0.002732973		0.027735837	MFS12

19	3538261	3574290	-	5277	protein_coding	major
facilitator superfamily domain containing 12	[Source:HGNC					
Symbol;Acc:HGNC:28299]	-	2188	2655	1807	2520	2501
3744	20.3043414	23.83986941		21.30482175		
26.53539093	29.13224527	32.98980618				
ENSG00000198373	1522.367121	1428.382177		1492.639278		
2003.563069	1902.866878	1988.382999		1481.129526		
1964.937649	-0.407952008	0.002745949		0.027842799		WWP2
16	69762306	69941741		+	9015	
protein_coding WW domain containing E3 ubiquitin protein ligase 2	[Source:HGNC					
Symbol;Acc:HGNC:16804]	-	1678	1614	1284		
1934	1667	2305	9.114962977	8.483288566		
8.861477504	11.9207281	11.36625065		11.88875061		
ENSG00000026508	12051.92183	11204.92363		14059.17401		
10334.82171	9522.324831	7856.916424		12438.67316		
9238.020987	0.429186573	0.002746661		0.027842799		CD44
11	35138870	35232402		+	10004	
protein_coding CD44 molecule (Indian blood group) [Source:HGNC	Symbol;Acc:HGNC:1681]					
9108	65.02552502	59.96816593		75.21476931		8342
55.41084857	51.25589988	42.33312773				
ENSG00000203923	2.721752898	1.769990306		0	8.287747959	
21.68834474	37.95611799	1.497247735		22.64407023		
-3.871108117	0.002770383	0.028067187		SPANXN1 X		
145246828	145256112	+	1276	protein_coding		
SPANX family member N1 [Source:HGNC	Symbol;Acc:HGNC:33174]					
-	3	2	0	8	19	44
0.115132852	0.07426869	0	0.348378509	0.915272232		
1.603367293						
ENSG00000113441	1144.950719	894.7300998		960.2181028		
833.9546384	590.1512752	494.2921729		999.9663072		
639.4660288	0.645822739	0.002783224		0.028181142		LNPEP
5	96935394	97037515		+	15266	
protein_coding leucyl and cystinyl aminopeptidase [Source:HGNC	Symbol;Acc:HGNC:6656]					
573	4.048207642	3.137995658		3.366368357		517
2.930101508	2.081673652	1.745260992				
ENSG00000163536	156.0471661	105.3144232		155.7738811		
85.98538508	42.23519764	35.36820086		139.0451568		
54.52959453	1.351782965	0.002790605		0.028239707		
SERPINI1	3	167735243		167825568	+	2418
protein_coding serpin family I member 1 [Source:HGNC	Symbol;Acc:HGNC:8943]					
41	3.483379839	2.33193857		3.447905454		37
1.907365133	0.940573606	0.788421717				
ENSG00000267317	393.7469192	446.0375572		352.2349699		
497.2648776	624.39603	786.7268093		397.3398154		
636.129239	-0.678821092	0.00279885		0.02830695		
AC027307.2	19	1457670	1458580	-	911	antisense
"novel transcript, antisense to APC2"				-	434	504

	303	480	547	912	23.32921019	26.21432022	
	20.69336405		29.27756164		36.90764287	46.54869173	
ENSG00000111011	1040.616858			997.3895376		1109.017034	
773.8684657	765.9410167			713.4024904		1049.00781	
751.0706576	0.481984424			0.002809983		0.028403311	RSRC2
12	122503458			122527000		- 8741	
protein_coding	arginine and serine rich coiled-coil 2 [Source:HGNC						
Symbol;Acc:HGNC:30559]	-			1147	1127	954 747	671
827	6.425855885			6.109268838		6.790380349	
4.748664917	4.718552159			4.399217228			
ENSG00000115211	532.556317			659.3213891		678.8951235	
775.9404027	1088.983204			942.0018374		623.5909432	
935.6418147	-0.585642574			0.002813889		0.028426551	EIF2B4
2	27364352			27370486		- 5341	
protein_coding	eukaryotic translation initiation factor 2B subunit						
delta [Source:HGNC	Symbol;Acc:HGNC:3260]						
584	749	954	1092	5.382006362		6.609371077	745
6.802947443	7.79240082			10.9792622		9.506728223	
ENSG00000058668	1662.08377			1342.537647		1793.724616	
1257.665753	1095.832155			1026.540464		1599.448678	
1126.679457	0.505250118			0.002818822		0.028460129	ATP2B4
1	203626561			203744081		+ 9721	
protein_coding	ATPase plasma membrane Ca2+ transporting 4						
[Source:HGNC	Symbol;Acc:HGNC:817]						
1214	960	1190		9.228756977		7.394368305	1543
9.875562219	6.939365894			6.07026499		5.692028113	
ENSG00000165661	1229.325059			1309.792827		1264.790915	
977.9542592	792.1953288			952.353506		1267.9696	
907.5010313	0.48196408			0.002824764		0.028503852	QS0X2
9	136206333			136245841		- 4530	
protein_coding	quiescin sulphydryl oxidase 2 [Source:HGNC						
Symbol;Acc:HGNC:30249]	-			1355	1480	1088 944	694
1104	14.64771147			15.48067717		14.94299117	
11.57939412	9.416914529			11.33187798			
ENSG00000177602	469.0487494			400.0178092		474.2965932	
314.9344225	223.7323983			286.396163		447.7877173	
275.0209946	0.701645166			0.002830142		0.028541837	HASPIN
17	3723903	3726699	+	2797		protein_coding	
histone H3 associated	protein kinase [Source:HGNC						
Symbol;Acc:HGNC:19682]	-			517	452	408 304	196
332	9.051629315			7.657242643		9.075583217	
6.039391187	4.307357962			5.519206399			
ENSG00000160703	360.1786335			346.0331049		426.6344355	
494.1569721	696.3100152			585.7319117		377.6153913	
592.0662997	-0.649633638			0.002832539		0.028549731	NLRX1
11	119166568			119184016		+ 5320	
protein_coding	NLR family member X1 [Source:HGNC						
Symbol;Acc:HGNC:29890]	-			397	391	367 477	610
679	3.654328273			3.482503535		4.292015469	
4.982172846	7.047994604			5.934568678			



ENSG00000165572	777.5140778	749.5908947	711.4448897	
959.3068263	1219.113272	1017.051434	746.1832874	
1065.157178	-0.512613198	0.002839015	0.028598707	KBTBD6
13	41127569	41132746	- 5178	
protein_coding	kelch repeat and BTB domain containing 6 [Source:HGNC			
Symbol;Acc:HGNC:25340]	-	857 847	612 926	1068
1179	8.104896241	7.750822745	7.353535996	
9.937130293	12.67816988	10.58724046		
ENSG00000177613	956.2425181	1260.233098	1033.455077	
1390.26972	1464.534016	1817.580468	1083.310231	
1557.461401	-0.523938555	0.002849718	0.02869019	CSTF2T
10	51695487	51699591	- 4105	
protein_coding	cleavage stimulation factor subunit 2 tau variant			
[Source:HGNC	Symbol;Acc:HGNC:17086]	-	1054 1424	889
1342	1283 2107	12.57349846	16.437027	
13.47396597	18.16566906	19.21148142	23.86615145	
ENSG00000155959	2469.537129	2223.107825	2583.056446	
1995.275321	1779.58576	1570.003062	2425.2338	
1781.621381	0.445048091	0.002868834	0.028865965	VBP1
X	155197007	155239817	+ 2018	
protein_coding	VHL binding protein 1 [Source:HGNC			
Symbol;Acc:HGNC:12662]	-	2722 2512	2222 1926	1559
1820	66.05347077	58.98273599	68.5061781	
53.03311837	47.48673536	41.93544387		
ENSG00000162458	849.1869042	935.4398768	1333.377922	
638.1565929	807.0347225	525.3471786	1039.334901	
656.8461647	0.662260948	0.002870441	0.028865965	FBLIM1
1	15756607	15786594	+ 4716	
protein_coding	filamin binding LIM protein 1 [Source:HGNC			
Symbol;Acc:HGNC:24686]	-	936 1057	1147 616	707
609	9.719204852	10.62007617	15.13200472	
7.25803335	9.214949883	6.004467719		
ENSG00000011275	3225.277184	3437.321175	3174.764696	
3778.177101	4371.913702	5062.828557	3279.121018	
4404.306453	-0.425713498	0.002873451	0.028879814	RNF216
7	5620047 5781739	- 7619	protein_coding	ring
finger protein 216 [Source:HGNC	Symbol;Acc:HGNC:21698]	-		3555
3884	2731 3647	3830 5869	22.84916401	
24.15503597	22.30132019	26.59805216	30.89926583	
35.81765542				
ENSG00000166848	2052.201685	2462.056516	2234.308951	
2588.885269	3174.488774	3526.468417	2249.522384	
3096.614153	-0.461219012	0.002923614	0.0293673	
TERF2IP 16	75647786	75761872	+ 3379	
protein_coding	TERF2 interacting protein [Source:HGNC			
Symbol;Acc:HGNC:19246]	-	2262 2782	1922 2499	2781
4088	32.78182234	39.01174481	35.38930536	
41.09510628	50.58947323	56.25403946		
ENSG00000144161	299.3928188	421.2576929	239.4732799	
591.5380106	450.8892721	576.2428822	320.0412638	

539.5567217	-0.751807382	0.002942247	0.029530124	ZC3H8
2	112211525	112255136	- 6600	
protein_coding	zinc finger CCCH-type containing 8 [Source:HGNC			
Symbol;Acc:HGNC:30941]	-	330 476	206 571	395
668	2.448491992	3.417349977	1.94191462	
4.80733311	3.678752077	4.70612594		
ENSG00000183496	277.6187956	198.2389143	315.0352371	
125.3521879	140.4034949	158.7255843	263.6309823	
141.4937557	0.895075014	0.002943163	0.029530124	MEX3B
15	82041778	82046141	- 4364	
protein_coding	mex-3 RNA binding family member B [Source:HGNC			
Symbol;Acc:HGNC:25297]	-	306 224	271 121	123
184	3.433723875	2.432146423	3.863593223	
1.540680806	1.732478005	1.960487598		
ENSG00000185480	499.8952823	386.7428819	423.1469606	
338.7616978	220.3079228	137.1596082	436.5950416	
232.0764096	0.913769486	0.002945162	0.029533434	PARPBP
12	102120185	102197520	+ 4745	
protein_coding	PARP1 binding protein [Source:HGNC			
Symbol;Acc:HGNC:26074]	-	551 437	364 327	193
159	5.686487196	4.363868559	4.772786565	
3.829336925	2.500163741	1.558087795		
ENSG00000137154	18382.71907	24532.06564	24451.84936	
27781.56713	32629.54391	29660.11829	22455.54469	
30023.74311	-0.41905051	0.002949	0.029555157	RPS6
9	19375715	19380254	- 2714	
protein_coding	ribosomal protein S6 [Source:HGNC			
Symbol;Acc:HGNC:10429]	-	20262 27720	21034 26817	28585
34383	365.5957607	483.960396	482.1907477	
549.0506276	647.4044995	589.0673366		
ENSG00000147614	19.95952125	11.50493699	15.11239145	
44.54664528	77.62144432	50.89570367	15.52561656	
57.68793109	-1.891794455	0.002966724	0.02971596	
ATP6V0D2	8 85987323	86154228	+ 3010	
protein_coding	ATPase H+ transporting V0 subunit d2			
[Source:HGNC Symbol;Acc:HGNC:18266]	-	22 13	13	
43	68 59	0.357919095	0.204646018	
0.268709922	0.793805317	1.38864034	0.91141576	
ENSG00000132196	408.2629347	382.3179061	373.1598196	
284.8913361	149.5354295	225.1487908	387.9135535	
219.8585188	0.81790191	0.002970705	0.029738989	
HSD17B7 1	162790702	162812817	+ 4778	
protein_coding	hydroxysteroid 17-beta dehydrogenase 7 [Source:HGNC			
Symbol;Acc:HGNC:5215]	-	450 432	321 275	131
261	4.612061098	4.284143824	4.179898477	
3.198148254	1.685281721	2.539951244		
ENSG00000121440	360.1786335	303.5533375	387.1097194	
108.776692	197.4780863	245.8521279	350.2805635	
184.0356354	0.926062297	0.002976197	0.029777122	PDZRN3
3	73382433	73624940	- 6136	

protein_coding	PDZ domain containing ring finger 3 [Source:HGNC					
Symbol;Acc:HGNC:17704]	-	397	343	333	105	173
285	3.168355022	2.648714871	3.376492032			
0.950858716	1.733038107	2.159685573				
ENSG00000156869	221.3692357	158.4141324	229.010855			
100.488944	125.5641011	56.93417699	202.9314077			
94.32907403	1.109451913	0.002985083	0.029849145			FRRS1
1	99708632	99766631	-	3958		
protein_coding	ferric chelate reductase 1 [Source:HGNC					
Symbol;Acc:HGNC:27622]	-	244	179	197	97	110
66	3.018858241	2.142908769	3.0966868			
1.36178325	1.708300451	0.77535245				
ENSG00000246575	3.629003864	2.654985459	4.6499666			
16.57549592	18.26386925	51.75834272	3.644651974			
28.86590263	-3.001881567	0.002990698	0.029888394			
AC093162.2	2	85315041	85316529	+		704
unprocessed_pseudogene	"retinol saturase (all-trans-retinol					
13,14-reductase) (RESAT) pseudogene"	-	4	3			4
16	16	60	0.278237726	0.201918		
0.353503875	1.262872096	1.39699446	3.962868026			
ENSG00000120686	2374.275778	2402.761841	2540.044255			
3025.028005	3239.553808	3231.445864	2439.027291			
3165.342559	-0.376255584	0.00299667	0.02993117			UFM1
13	38349849	38363619	+	4382		
protein_coding	ubiquitin fold modifier 1 [Source:HGNC					
Symbol;Acc:HGNC:20597]	-	2617	2715	2185	2920	2838
3746	29.24556614	29.35782663	31.02315157			
37.02734067	39.80956005	39.74901929				
ENSG00000168710	5131.411464	4156.822234	4918.502171			
3559.587748	3905.043544	3108.08848	4735.578623			
3524.239924	0.426434117	0.003000034	0.0299373			AHCYL1
1	109984686	110023741	+	5113		
protein_coding	adenosylhomocysteine like 1 [Source:HGNC					
Symbol;Acc:HGNC:344]	-	5656	4697	4231	3436	3421
3603	54.17043108	43.52825011	51.4842131			
37.34129765	41.12677372	32.76570279				
ENSG00000166250	4369.320652	4517.900257	4894.089846			
5968.214499	6046.482214	5652.873664	4593.770252			
5889.190126	-0.358483648	0.003000669	0.0299373			CLMP
11	123069865	123195281	-	5097		
protein_coding	CXADR like membrane protein [Source:HGNC					
Symbol;Acc:HGNC:24039]	-	4816	5105	4210	5761	5297
6553	46.2701096	47.45779474	51.38949014			
62.80515406	63.87967524	59.78008834				
ENSG00000185250	25.40302705	28.3198449	44.1746827			
91.16522755	86.75337894	88.85182166	32.63251821			
88.92347605	-1.453802845	0.003006112	0.029974699			PPIL6
6	109390215	109441171	-	4481		
protein_coding	peptidylprolyl isomerase like 6 [Source:HGNC					
Symbol;Acc:HGNC:21557]	-	28	32	38	88	76

103	0.305993197	0.338377498	0.527613014	
1.091238731	1.042523873	1.068792257		
ENSG00000177370	677.7164716	885.8801483	671.9201736	
927.1918029	1167.74614	1205.969385	745.1722645	
1100.302443	-0.561706452	0.003009292	0.029989499	TIMM22
17	997117	1003671 +	3194	protein_coding
translocase of inner mitochondrial membrane 22 [Source:HGNC				
Symbol;Acc:HGNC:17317] -				
		747	1001	578 895 1023
1398	11.45287112	14.84997103	11.25899881	
15.57041425	19.68738717	20.35182116		
ENSG00000138944	1395.351986	1128.36882	1000.905311	
787.3360561	696.3100152	910.9468318	1174.875372	
798.1976344	0.557394442	0.003013795	0.030017467	
SHISAL1 22	44243667	44312851	-	6751
protein_coding shisa like 1 [Source:HGNC Symbol;Acc:HGNC:29335]				
-	1538	1275	861	760 610 1056
11.15621592	8.948876562	7.934907896	6.255435176	
5.554041075	7.273221743			
ENSG00000119705	938.0974988	1046.064271	1028.80511	
735.5376314	578.7363569	766.8861113	1004.322293	
693.7200332	0.532632761	0.003016841	0.030030893	SLIRP
14	77708071	77761104	+	2631
protein_coding SRA stem-loop interacting RNA binding protein				
[Source:HGNC Symbol;Acc:HGNC:20495] -				
			1034	1182 885
710	507	889	19.24546347	21.28742198
20.92807433	14.99510614	11.84498381	15.71129311	
ENSG00000068784	352.0133748	275.2334926	365.0223781	
204.0857935	207.7515127	169.0772529	330.7564152	
193.6381864	0.772972948	0.003024032	0.030085549	SRBD1
2	45388680	45612165	-	5045
protein_coding S1 RNA binding domain 1 [Source:HGNC				
Symbol;Acc:HGNC:25521] -				
		388	311	314 197 182
196	3.766164094	2.920960333	3.872356422	
2.169786982	2.217469104	1.80644989		
ENSG00000143740	1117.73319	1077.924097	1038.105043	
1446.212019	1445.128654	1466.486377	1077.920777	
1452.609017	-0.430170321	0.003028788	0.030113017	SNAP47
1	227728539	227781231	+	6580
protein_coding synaptosome associated protein 47 [Source:HGNC				
Symbol;Acc:HGNC:30669] -				
		1232	1218	893 1396 1266
1700	9.168821075	8.77097424	8.443692558	
11.78885343	11.82647103	12.01307106		
ENSG00000109943	10.88701159	8.849951531	13.9498998	0
0	0	11.22895431	0	5.920759172
0.003030198	0.030113017	CRTAM	11	122838500
122872639	+	2675	protein_coding	cytotoxic and
regulatory T cell molecule [Source:HGNC Symbol;Acc:HGNC:24313] -				
				0 0.219677786
12	10	12	0	0
0.177134296	0.279102873	0	0	0
ENSG00000276023	958.0570201	1021.284407	991.6053774	

1532.197404	1284.178307	1286.194817	990.3156014	
1367.523509	-0.465516218	0.003033832	0.030132208	DUSP14
17	37489831	37513501	+ 2499	
protein_coding	dual specificity phosphatase 14	[Source:HGNC		
Symbol;Acc:HGNC:17007]	-	1056 1154	853 1479	1125
1491	20.6931376	21.88094092	21.23682663	
32.88622028	27.67155892	27.74229627		
ENSG00000165476	1750.087113	1583.256329	1708.862725	
1426.528617	1142.63332	957.5293403	1680.735389	
1175.563759	0.516212861	0.003037648	0.030153179	REEP3
10	63521363	63625123	+ 5248	
protein_coding	receptor accessory protein 3	[Source:HGNC		
Symbol;Acc:HGNC:23711]	-	1929 1789	1470 1377	1001
1110	17.99977535	16.15261921	17.42730994	
14.57981984	11.72431859	9.834678576		
ENSG00000166685	684.9744793	791.1856669	806.769205	
1014.213157	1280.753831	996.3480973	760.9764504	
1097.105028	-0.527523171	0.003043466	0.030193982	COG1
17	73192632	73208507	+ 5317	
protein_coding	component of oligomeric golgi complex 1	[Source:HGNC		
Symbol;Acc:HGNC:6545]	-	755 894	694 979	1122
1155	6.953588315	7.967045534	8.120815744	
10.23123536	12.97100291	10.10058068		
ENSG00000114648	1064.205383	1110.668917	1035.78006	
1410.98909	1320.706045	1791.701297	1070.21812	
1507.798811	-0.495068933	0.003047295	0.030215018	KLHL18
3	47282917	47346816	+ 7064	
protein_coding	kelch like family member 18	[Source:HGNC		
Symbol;Acc:HGNC:29120]	-	1173 1255	891 1362	1157
2077	8.131599961	8.418204585	7.847545819	
10.71367482	10.0676945	13.67152069		
ENSG00000267414	4.53625483	23.89486913	6.974949899	0
0	0	11.80202462	0	5.996636775
0.003054731	0.030271784	AC120049.1	18	44676927
44679717	-	2065	lincRNA uncharacterized	
LOC101927943	[Source:NCBI gene;Acc:101927943]	-	5	27
6	0	0	0	0.118571041
0.180774863	0	0	0	0.619541138
ENSG00000142541	37269.86968	43445.29706	44403.69355	
49983.40794	52305.43855	60407.16178	41706.28677	
54232.00276	-0.378912583	0.003058393	0.030291103	RPL13A
19	49487554	49492308	+ 2369	
protein_coding	ribosomal protein L13a	[Source:HGNC		
Symbol;Acc:HGNC:10304]	-	41080 49091	38197 48248	45822
70026	849.1688562	981.8909541	1003.161926	
1131.686925	1188.93015	1374.438389		
ENSG00000108946	4497.243038	4187.797065	5390.473781	
3733.630456	3674.462195	2756.994389	4691.837961	
3388.362346	0.469658332	0.003064526	0.030334858	
PRKAR1A 17	68511780	68551319	+ 6821	

protein_coding	protein kinase cAMP-dependent type I regulatory subunit alpha [Source:HGNC Symbol;Acc:HGNC:9388]	-	4957
4732	4637 3604	3219 3196	35.58766985
32.87177285	42.29566844	29.3595082	29.00816702
21.78661401			
ENSG00000217165	108.8701159	126.5543069	88.34936539
198.905951	234.0058248	190.643229	107.9245961
207.8516683	-0.941688131	0.003070503	0.030377025
ANKRD18EP	6 39110321	39112952	+ 2632
	processed_pseudogene "ankyrin repeat domain 18E, pseudogene [Source:HGNC Symbol;Acc:HGNC:43609]"	-	120 143 76
192	205 221	2.23266747	2.574403359
1.796530331	4.05347396	4.787572198	3.904248093
ENSG00000152475	59.87856375	133.6342681	98.81179024
165.7549592	205.4685291	257.0664355	97.44154071
209.4299746	-1.104603874	0.003083681	0.030490345
19	58367618	58381060	- 2076
protein_coding	zinc finger protein 837 [Source:HGNC Symbol;Acc:HGNC:25164]	zf-C2H2	66 151 85 160 180
298	1.556844619	3.446482193	2.5474075
4.282572039	5.329574239	6.674518375	
ENSG00000165646	12.70151352	7.079961225	13.9498998 0
0	0 11.24379152	0	5.922607716
0.003097687	0.030611727	SLC18A2 10	117241073
117279430	+ 4145	protein_coding	solute carrier family
18 member A2 [Source:HGNC Symbol;Acc:HGNC:10935]	-		14
8	12 0	0 0	0.165398735
0.091451723	0.180120672	0 0	0
ENSG00000228222	17.23776835	14.15992245	3.48747495 0
0	0 11.62838858	0	5.976461345
0.003100824	0.030615006	AC073050.1	2 167293171
167558333	+ 462	lincRNA novel transcript	
(hCG1660379)	- 19	16 3	0 0 0
2.013911162	1.640984383	0.404004429	0 0
0			
ENSG00000075420	2198.269091	2023.983915	2578.406479
1894.786377	1582.107674	1289.645373	2266.886495
1588.846475	0.512813716	0.003101481	0.030615006
3	172039628	172401665	+ 13270
protein_coding	fibronectin type III domain containing 3B [Source:HGNC Symbol;Acc:HGNC:24670]	-	2423 2287 2218 1829 1386
1495	8.941516346	8.16623141	10.39914097
7.658695912	6.420068585	5.238431725	
ENSG00000140941	3452.997177	3713.439662	4343.068804
5459.553968	5048.818356	4739.338915	3836.501881
5082.570413	-0.40600627	0.003111584	0.030697609
MAP1LC3B	16 87383995	87404779	+ 5313
	protein_coding microtubule associated protein 1 light chain 3 beta [Source:HGNC Symbol;Acc:HGNC:13352]	-	3806 4196
3736	5270 4423	5494 35.07984385	37.42157864

	43.74958102	55.11665377	51.17106828	48.08170475	
ENSG0000033100	1305.53414	1733.705505	1554.251336		
1702.096237	2321.794379	2706.961324	1531.16366		
2243.617313	-0.551485478	0.003117038	0.030734277		CHPF2
7	151232489	151238827	+	4205	
protein_coding	chondroitin polymerizing factor 2 [Source:HGNC				
Symbol;Acc:HGNC:29270]	-	1439	1959	1337	1643
3138	16.75804983	22.07470338	19.78209366		2034
21.71118895	29.73256032	34.69907976			
ENSG00000160447	492.6372745	531.882087	532.4211757		
295.251021	377.8337951	338.1545057	518.9801791		
337.079774	0.622938915	0.003126906	0.030814395		PKN3
9	128702523	128720918	+	3375	
protein_coding	protein kinase N3 [Source:HGNC Symbol;Acc:HGNC:17999]				
-	543	601	458	285	331
7.87870312	8.437759365	8.44303418	4.69227143		
6.028393277	5.400616115				
ENSG00000134318	2196.454589	1648.74597	1643.763193		
1476.255105	1255.641011	1068.809777	1829.654584		
1266.901964	0.530961389	0.003129748	0.030825229		ROCK2
2	11179761	11348330	-	10145	
protein_coding	Rho associated coiled-coil containing protein kinase 2				
[Source:HGNC Symbol;Acc:HGNC:10252]	-		2421	1863	1414
1425	1100	1239	11.68614906	8.70136215	
8.671699197	7.805035031	6.66481339	5.678717615		
ENSG00000205531	2620.14079	2950.573841	2800.442385		
2282.238594	2064.958717	1997.872029	2790.385672		
2115.023113	0.39991841	0.003145184	0.030925997		NAP1L4
11	2944431	2992377	-	5200	protein_coding
nucleosome assembly protein 1 like 4 [Source:HGNC					
Symbol;Acc:HGNC:7640]	-	2888	3334	2409	2203
2316	27.19709566	30.38006458	28.82307441		1809
23.5409073	21.38368673	20.70933863			
ENSG00000278635	9.979760626	14.15992245	9.299933199		0
0	0	11.14653876	0	5.912687492	
0.003145671	0.030925997	AC141557.2	12	9415641	
9416718	+	482	unprocessed_pseudogene	WAS protein family	
homolog 1 (WASH1) pseudogene	-	11	16	8	0
0	0	1.117568959	1.572893745	1.032642025	
0	0	0			
ENSG00000167716	1391.722982	1616.886145	1121.804442		
1448.283956	2231.616524	2728.5273	1376.804523		
2136.142593	-0.633444737	0.003147392	0.030925997		WDR81
17	1716523	1738599	+	7913	protein_coding
repeat domain 81 [Source:HGNC Symbol;Acc:HGNC:26600]	-				WD
1827	965	1398	1955	3163	1534
10.94016375	7.587400244	9.816983235	15.18633431		
18.58613316					
ENSG00000163545	97.07585336	70.79961225	153.4488978		
36.25889732	50.22564044	32.78028372	107.1081211		

39.75494049	1.430559211	0.003148572	0.030925997	NUAK2
1	205302059	205321791	- 3441	
protein_coding	NUAK family kinase 2 [Source:HGNC			
Symbol;Acc:HGNC:29558]	-	107 80	132 35	44
38	1.522747126	1.101619856	2.386690504	
0.565191231	0.785987002	0.513487578		
ENSG00000196954	847.3724022	1185.00851	953.2431529	
1404.773279	1333.262455	1514.794164	995.2080217	
1417.609966	-0.510344744	0.00314913	0.030925997	CASP4
11	104942866	104969436	- 7256	
protein_coding	caspase 4 [Source:HGNC Symbol;Acc:HGNC:1505]			-
934	1339 820	1356 1168	1756 6.303449615	
8.743991843	7.031102432	10.38423383	9.89447895	
11.25273925				
ENSG00000134343	6.350756762	18.58489822	2.3249833	
96.34507003	30.82027936	30.19236658	9.086879426	
52.45257199	-2.509234304	0.003153055	0.030925997	AN03
11	26309599	26663288	+ 7700	
protein_coding	anoctamin 3 [Source:HGNC Symbol;Acc:HGNC:14004]			-
7	21 2	93 27	35 0.044518036	
0.12922752	0.016160177	0.671126314	0.215536288	
0.211352961				
ENSG00000157557	2147.463036	1860.259812	2359.858049	
1495.938507	1615.210937	1587.255843	2122.526966	
1566.135096	0.4381437	0.003153911	0.030925997	ETS2
21	38805307	38824955	+ 4595	
protein_coding	"ETS proto-oncogene 2, transcription factor			
[Source:HGNC Symbol;Acc:HGNC:3489]"	ETS	2367 2102	2030	
1444	1415 1840	25.2255954	21.67572522	
27.48636876	17.46198944	18.92859087	18.61929897	
ENSG00000123131	1949.682326	2674.455353	2835.317134	
1742.499008	1929.12119	1607.95918	2486.484938	
1759.859793	0.498657746	0.003154153	0.030925997	PRDX4
X	23664262	23686399	+ 1904	
protein_coding	peroxiredoxin 4 [Source:HGNC Symbol;Acc:HGNC:17169]			
-	2149 3022	2439 1682	1690 1864	
55.27110599	75.20625394	79.6987854	49.08751998	
54.55909034	45.52081008			
ENSG00000112139	53.52780699	45.13475281	106.9492318	
9.323716454	25.11282022	20.70333709	68.53726386	
18.37995792	1.896198625	0.003158284	0.030925997	MDGA1
6	37630679	37699306	- 14187	
protein_coding	MAM domain containing glycosylphosphatidylinositol			
anchor 1 [Source:HGNC Symbol;Acc:HGNC:19267]	-	59 51		
92	9 22	24 0.203652679	0.170335845	
0.403463364	0.035250395	0.095318999	0.078659592	
ENSG00000110080	1491.520588	1649.630965	1782.099699	
1247.306068	1186.010009	1199.068273	1641.083751	
1210.794783	0.438279137	0.003158794	0.030925997	
ST3GAL4 11	126355640	126440344	+ 4465	



protein_coding	"ST3 beta-galactoside alpha-2,3-sialyltransferase 4 [Source:HGNC Symbol;Acc:HGNC:10864]"	-	1644	1864	1533
	1204	1039	1390	18.03055245	19.78112037
21.36129306	14.98363094		14.30347116	14.47519274	
ENSG00000165072	168.7486797		110.6243941	218.5484302	
96.34507003	26.25431205		66.42320649	165.9738347	
63.00752952	1.392487418		0.003159211	0.030925997	MAMDC2
	9	70043581	70226970	+	3854
protein_coding	MAM domain containing 2 [Source:HGNC Symbol;Acc:HGNC:23673]	-	186	125	188
	77	2.363360199	1.536826156	3.034960098	93
1.340859526	0.366828851		0.928987848		23
ENSG00000176485	246.7722627		177.8840258	161.5863393	
131.5679989	55.93309958		75.91223598	195.4142093	
87.80444481	1.154459754		0.003181058	0.031122646	
PLA2G16	11	63573195	63616883	-	3116
protein_coding	phospholipase A2 group XVI [Source:HGNC Symbol;Acc:HGNC:17825]	-	272	201	139
	88	4.274645839	3.056504568	2.775391142	127
2.264739817	0.96659822		1.313155755		49
ENSG00000112245	16.33051739		7.964956378	9.299933199	0
	0	0	11.19846899	0	5.919125837
0.003188641	0.031162776		PTP4A1	6	63521746
63583377	+	5281	protein_coding	"protein tyrosine phosphatase type IVA, member 1 [Source:HGNC Symbol;Acc:HGNC:9634]"	
	-	18	9	8	0
0.166911024	0.080751906		0.09424985	0	0
ENSG00000173402	3447.553671		3447.056121	4086.158149	0
3040.567533	2753.27829		2168.67456	3660.25598	
2654.173461	0.463814821		0.003188684	0.031162776	DAG1
	3	49468703	49535618	+	6923
protein_coding	dystroglycan 1 [Source:HGNC Symbol;Acc:HGNC:2666]	-	3800	3895	3515
					2935
26.87929963	26.65873706		31.58914304	23.55731654	2412
21.41560422	16.88503479				2514
ENSG00000070759	63.50756762		53.09970919	86.02438209	
27.97114936	9.131934625		19.84069804	67.5438863	
18.98126068	1.82394722		0.003193659	0.031194168	TESK2
	1	45343883	45491166	-	3322
protein_coding	testis associated actin remodelling kinase 2 [Source:HGNC Symbol;Acc:HGNC:11732]	-		70	60
	27	8	23	1.031875012	0.855811392
1.385922477	0.451623133		0.148025903	0.321928352	74
ENSG00000213096	286.6913052		261.0735702	322.010187	
210.3016045	143.8279703		100.0661293	289.9250208	
151.398568	0.938932718		0.003195835	0.03119819	ZNF254
	19	24033405	24129961	+	7602
protein_coding	zinc finger protein 254 [Source:HGNC Symbol;Acc:HGNC:13047]	zf-C2H2	316	295	277
	116	2.035578714	1.838741133	2.267037742	203
					126

1.483816569	1.018802589	0.709514282					
ENSG00000127863	776.6068269	615.9566266	807.9316967				
574.9625147	461.1626986	359.7204819	733.4983834				
465.2818984	0.657248204	0.003214093	0.031359128				
TNFRSF19	13	23570370	23676104	+			5113
	protein_coding TNF receptor superfamily member 19						
[Source:HGNC Symbol;Acc:HGNC:11915]		-	856	696			695
555	404	417	8.198353784	6.45000257			
8.456990806	6.03155419	4.856830337	3.792200406				
ENSG00000135372	1973.270851	2031.063876	1909.973781				
2339.216861	2840.031668	2676.768957	1971.436169				
2618.672496	-0.409372143	0.003233492	0.031522367				NAT10
11	34105602	34147670	+	5242			
	protein_coding N-acetyltransferase 10 [Source:HGNC						
Symbol;Acc:HGNC:29830]		-	2175	2295	1643	2258	2488
3103	20.31846655	20.7449367	19.50057393				
23.93530493	29.17431848	27.52426795					
ENSG00000108798	150.6036604	171.6890597	168.5612892				
89.09329056	85.61188711	32.78028372	163.6180031				
69.16182047	1.248251671	0.003234388	0.031522367				ABI3
17	49210227	49223225	+	2456			
	protein_coding ABI family member 3 [Source:HGNC						
Symbol;Acc:HGNC:29859]		-	166	194	145	86	75
38	3.309850738	3.74282747	3.673216161				
1.945728017	1.877069103	0.719426204					
ENSG00000120217	278.5260466	277.8884781	245.2857381				
440.2866103	404.0881072	415.7920198	267.2334209				
420.0555791	-0.651470148	0.003253154	0.031687795				CD274
9	5450503	5470566	+	4108			protein_coding CD274
	molecule [Source:HGNC Symbol;Acc:HGNC:17635]						
211	425	354	482	3.659625323	3.621809921		
3.195647493	5.748711827	5.296880648	5.455664076				
ENSG00000210196	288.5058072	242.488672	261.5606212				
394.7039966	430.3424192	426.1436884	264.1850335				
417.063368	-0.658701571	0.003256583	0.031697267				MT-TP
MT	15956	16023	-	68			Mt_tRNA
	mitochondrially encoded tRNA proline [Source:HGNC						
Symbol;Acc:HGNC:7494]		-	318	274	225	381	377
494	229.0060157	190.9273263	205.8640213				
311.3351148	340.784472	337.7917624					
ENSG00000112761	2.721752898	0	1.16249165	11.39565344			
20.54685291	29.32972754	1.294748183	20.42407796				
-3.981177332	0.003259201	0.031697267	WISP3	6			
112054072	112070969	+	3202				protein_coding
	WNT1 inducible signaling pathway protein 3 [Source:HGNC						
Symbol;Acc:HGNC:12771]		-	3	0	1	11	18
34	0.045880549	0	0.019430569	0.190890098			
0.345540166	0.493728967						
ENSG00000117305	574.2898615	683.2162582	743.9946559				
917.8680865	949.721201	1000.661293	667.1669252				

956.0835267	-0.520197168	0.003259502	0.031697267	HMGCL
1	23801885	23838620	- 5658	
protein_coding	3-hydroxy-3-methylglutaryl-CoA lyase [Source:HGNC			
Symbol;Acc:HGNC:5005]	-	633 772	640 886	832
1160	5.4785982	6.465182639	7.037588633	
8.701273554	9.038736864	9.532922542		
ENSG00000141424	2634.656805	2177.088077	2923.666499	
1953.836581	2020.440536	1565.689867	2578.47046	
1846.655661	0.481724132	0.003264465	0.031728091	
SLC39A6 18	36108532	36129385	- 3682	
protein_coding	solute carrier family 39 member 6 [Source:HGNC			
Symbol;Acc:HGNC:18607]	-	2904 2460	2515 1886	1770
1815	38.62260045	31.6575837	42.49727193	
28.46229711	29.54859547	22.92048818		
ENSG00000253738	624.1886646	685.8712437	617.2830661	
449.6103268	470.2946332	365.7589552	642.4476581	
428.5546384	0.585791371	0.003270561	0.03176913	
OTUD6B-AS1	8	91059909	91070189	- 6009
antisense	OTUD6B antisense RNA 1 (head to head)			
[Source:HGNC Symbol;Acc:HGNC:50466]	-		688 775	531
434	412 424	5.606798104	6.111192152	
5.497929463	4.013281001	4.214464231	3.28091267	
ENSG00000117318	3675.273663	3905.483611	4888.277388	
2594.065111	3038.651247	3409.149507	4156.344887	
3013.955288	0.463161986	0.003273799	0.03176913	ID3
1	23557918	23559794	- 1797	
protein_coding	"inhibitor of DNA binding 3, HLH protein [Source:HGNC			
Symbol;Acc:HGNC:5362]"	bHLH	4051 4413	4205 2504	2662
3952	110.393334	116.3622985	145.5877283	
77.42804452	91.05574127	102.2586081		
ENSG00000145757	9.07250966	6.194966072	18.5998664	0
0	0	11.28911404	0	5.926158928
0.003274076	0.03176913	SPATA9 5	95652181	
95698711	- 2811	protein_coding	spermatogenesis	
associated 9 [Source:HGNC Symbol;Acc:HGNC:22988]	-			10
7	16 0	0 0	0.174207897	
0.117995008	0.354132662	0 0	0	
ENSG00000181649	304.8363246	457.5424942	654.4827989	
266.2439032	302.4953345	217.3850394	472.2872059	
262.0414257	0.849550628	0.003277074	0.031780789	PHLDA2
11	2928273 2929455	- 955	protein_coding	
pleckstrin homology like domain	family A member 2 [Source:HGNC			
Symbol;Acc:HGNC:12385]	-	336 517	563 257	265
252	17.22917925	25.65154999	36.67852562	
14.95346351	17.0564978	12.26953736		
ENSG00000073536	977.1092904	1360.23755	1357.790247	
1566.384364	1797.849629	1905.569651	1231.712363	
1756.601215	-0.512695664	0.003283342	0.031807243	NLE1
17	35128753	35142315	- 5463	
protein_coding	notchless homolog 1 [Source:HGNC			

Symbol;Acc:HGNC:19889]	-	1077	1537	1168	1512	1575
2209	9.654130972	13.33119582		13.30204733		
15.37916068	17.72134652	18.80163137				
ENSG00000114520	653.2206955	660.2063842		668.4326987		
491.0490666	405.229599	451.1602207		660.6199261		
449.1462954	0.556099808	0.003283398		0.031807243		SNX4
3	125446644	125520197		-	2709	
protein_coding	sorting nexin 4	[Source:HGNC Symbol;Acc:HGNC:11175]				
-	720	746	575	474	355	523
13.01523982	13.04837001		13.20582951		9.722576753	
8.055021579	8.976844494					
ENSG00000058804	3160.862365		2606.310726		2650.480962	
2461.461144	1746.482497		1755.470457		2805.884684	
1987.804699	0.497472142		0.003288411		0.031838369	NDC1
1	53765460		53838860		-	5135
protein_coding	NDC1 transmembrane nucleoporin	[Source:HGNC				
Symbol;Acc:HGNC:25525]	-	3484	2945	2280	2376	1530
2035	33.22510652		27.17510883		27.62493378	
25.71094457	18.31463817		18.42701476			
ENSG00000160445	729.4297766		739.855948		776.5444221	
944.8032674	974.8340213		1407.826922		748.6100489	
1109.154737	-0.568367755		0.003319104		0.032117958	ZER1
9	128729786		128772414		-	4370
protein_coding	zyg-11 related cell cycle regulator	[Source:HGNC				
Symbol;Acc:HGNC:30960]	-	804	836	668	912	854
1632	9.009554056		9.064655037		9.510467638	
11.59646029	12.01223428		17.364798			
ENSG00000198331	278.5260466		222.1337834		212.7359719	
100.488944	140.4034949		141.4728034		237.7986006	
127.4550808	0.900049318		0.003323166		0.032139684	HYLS1
11	125883614		125900648		+	2999
protein_coding	"HYLS1, centriolar and ciliogenesis associated	[Source:HGNC Symbol;Acc:HGNC:26558]"				
97	123	164	5.012917915		307	251
3.796483097	1.797245116		2.521018344		3.965735058	183
ENSG00000164236	104.3338611		107.0844135		2.542719188	
34.18696033	68.48950969		31.91764468		133.6865397	
44.8647049	1.364204313		0.003328847		115.0349381	
ANKRD33B	5	10564330	10657816		0.032177032	9783
protein_coding	ankyrin repeat domain 33B	[Source:HGNC				
Symbol;Acc:HGNC:35240]	-	115	121	115	33	60
37	0.575644647		0.586056865		0.731362407	
0.187436398	0.376987159		0.175857416			
ENSG00000122862	620.5596607		717.7310692		798.6317635	
509.6964995	446.3233048		485.6657825		712.3074978	
480.5618623	0.566656473		0.003336551		0.032233891	SRGN
10	69088106		69104811		+	1220
protein_coding	serglycin	[Source:HGNC Symbol;Acc:HGNC:9361]				
684	811	687	492	391	563	27.45522168
31.49832534	35.03513159		22.40873371		19.69991203	

	21.45752278						
ENSG00000101654	1751.901615	1425.727192	1684.450401				
2267.735035	2002.176667	2314.460558	1620.693069				
2194.790753	-0.437962716	0.003341845	0.032267415				RNMT
18	13726660	13764558	+ 6982				
protein_coding	RNA guanine-7 methyltransferase [Source:HGNC						
Symbol;Acc:HGNC:10075]	-	1931 1611	1449 2189				1754
2683	13.54350626	10.9330702	12.9120556				
17.42119575	15.4417709	17.86783142					
ENSG00000105499	20.86677222	69.02962194	51.1496326				
113.9565344	102.7342645	166.4893357	47.01534225				
127.7267116	-1.44414988	0.003353626	0.032363493				
PLA2G4C 19	48047843	48110817	- 6613				
protein_coding	phospholipase A2 group IVC [Source:HGNC						
Symbol;Acc:HGNC:9037]	-	23 78	44 110				90
193	0.170316999	0.558885086	0.413962499				
0.924285641	0.836548928	1.357031111					
ENSG00000157538	1536.883136	1563.786436	1589.126085				
2075.044895	2209.928179	1927.998266	1563.265219				
2070.990447	-0.405528592	0.003357337	0.032373392				VPS26C
21	37223420	37267919	- 9301				
protein_coding	VPS26 endosomal protein sorting factor C [Source:HGNC						
Symbol;Acc:HGNC:3044]	-	1694 1767	1367 2003				1936
2235	8.918923629	9.001882626	9.144200011				
11.96639539	12.79449264	11.17323418					
ENSG00000227496	7.258007728	16.81490791	9.299933199				0
0	0	11.12428295	0				
0.003358312	0.032373392	AC099066.2	1				225700604
225752243	+	1530	antisense				novel
transcript	-	8	19				0
0.25605145	0.588421606	0.325315984	0				0
0							
ENSG00000133265	2340.707492	3028.453414	2902.74165				
3244.653326	3989.513939	4050.952957	2757.300852				
3761.706741	-0.448299985	0.003364252	0.032412992				HSPBP1
19	55262231	55280381	- 2159				
protein_coding	HSPA (Hsp70) binding protein 1 [Source:HGNC						
Symbol;Acc:HGNC:24989]	-	2580 3422	2497 3132				3495
4696	58.51884519	75.10239792	71.95694996				
80.60855847	99.50431125	101.1361609					
ENSG00000169689	1456.1378	1936.369395	1779.774716				
1301.17643	1312.715602	1054.144913	1724.09397				
1222.678982	0.496319296	0.003369622	0.032447056				CENPX
17	82018702	82024107	- 1531				
protein_coding	centromere protein X [Source:HGNC						
Symbol;Acc:HGNC:11422]	-	1605 2188	1531 1256				1150
1222	51.33676873	67.71713379	62.216682				
45.58547582	46.1710775	37.11308304					
ENSG00000198355	1468.839314	1846.984885	1690.262859				
1680.340899	2693.920714	3242.660171	1668.695686				

2538.973928	-0.605790521	0.00338265	0.032554222	PIM3
22	49960513	49964080	+ 2461	
protein_coding	"Pim-3 proto-oncogene, serine/threonine kinase [Source:HGNC Symbol;Acc:HGNC:19310]"			
1622	2360	3759	- 1619 2087	1454
36.75865731	36.62277762	58.94510552	40.18252987	
ENSG00000136950	1082.350402	1399.177337	71.02180902	
1473.1472	1725.935644	1877.102563	1120.64195	
1692.061802	-0.494713596	0.003384432	1200.72323	
9	124862130	124877733	0.032554222	ARPC5L
			+ 3610	
protein_coding	actin related protein 2/3 complex subunit 5 like [Source:HGNC Symbol;Acc:HGNC:23366]			
1422	1512	2176	- 1193 1581	964
16.61409459	21.88791725	25.74494388	20.75157713	
ENSG00000136754	1100.495422	1011.54946	28.02739326	
1469.003326	1619.776904	1513.068885	1248.516032	
1533.949705	-0.45413275	0.003386328	1120.186971	
10	26746593	26861087	0.032554761	ABI1
protein_coding	abl interactor 1 [Source:HGNC Symbol;Acc:HGNC:11320]			
-	1213	1143	- 4218	
14.08260211	12.8400317	1074 1418	1419 1754	
20.6786975	19.33543877	15.84180097	18.68020763	
ENSG00000182183	0	0	21.75533839	0
19.84069804	0	13.86534548	-6.271886673	0.003391663
	0.032588331	SHISAL2A	1	52633344
52669683	+ 2508	protein_coding	shisa like 2A	
[Source:HGNC Symbol;Acc:HGNC:28757]	-	0	0	0
21	0	23	0	0.465268667
0	0.426413869			
ENSG00000102977	964.4077768	1238.108219	1031.130093	
1436.888302	1560.419329	1480.288602	1077.88203	
1492.532078	-0.469109701	0.003393872	0.032591859	ACD
16	67657512	67660815	- 3223	
protein_coding	"ACD, shelterin complex subunit and telomerase recruitment factor [Source:HGNC Symbol;Acc:HGNC:25070]"			
1399	887	1387	- 1063	
20.567611	17.12261773	1367 1716	16.15108276	
24.75642878	23.91267708	26.07087271		
ENSG00000154144	940.8192517	869.0652404	703.3074482	
1136.457439	1122.086467	1346.57955	837.7306468	
1201.707819	-0.519981428	0.003397425	0.03260827	TBRG1
11	124622836	124635398	+ 6627	
protein_coding	transforming growth factor beta regulator 1 [Source:HGNC Symbol;Acc:HGNC:29551]			
1097	983	1561	- 605	
5.679959652	9.198175691	7.662852559	1037 982	
ENSG00000121680	660.4787032	9.117670796	7.021355428	
882.6451577	1294.451733	874.3752113	10.95259303	
1156.73094	-0.584187027	1293.095929	780.0318971	
11	45909669	45918812	771.6286039	
			0.032760518	PEX16
			- 3013	

protein_coding	peroxisomal biogenesis factor 16	[Source:HGNC				
Symbol;Acc:HGNC:8857]	-	728	988	671	852	1134
1499	11.83207547	15.53761134	13.85575626			
15.71276107	23.13456208	23.13308317				
ENSG0000010361	540.7215757	683.2162582	577.75835			
732.4297259	899.4955606	1079.161446	600.5653946			
903.6955774	-0.589799503	0.003422218	0.032810627			FUZ
19	49806869	49817376	-	2950		
protein_coding	fuzzy planar cell polarity protein	[Source:HGNC				
Symbol;Acc:HGNC:26219]	-	596	772	497	707	788
1251	9.893567641	12.40000114	10.48192914			
13.31709327	16.4191837	19.71815662				
ENSG00000245857	22.68127415	7.079961225	4.6499666			0
0	0	11.47040066	0	5.955865666		
0.003443831	0.032999962	GS1-24F4.2	8	6835554		
6885276 +	1433	lincRNA uncharacterized	LOC100652791			
[Source:NCBI gene;Acc:100652791]		-	25	8		4
0	0	0	0.854323793	0.264527141		
0.173668338	0	0	0			
ENSG00000134851	1310.070395	1457.587017	1529.839011			
1071.191424	1119.803483	916.1226661	1432.498808			
1035.705858	0.468324918	0.00344633	0.033006026			
TMEM165 4	55395957	55453397	+	7045		
protein_coding	transmembrane protein 165	[Source:HGNC				
Symbol;Acc:HGNC:30760]	-	1444	1647	1316	1034	981
1062	10.03725319	11.07743072	11.62202321			
8.155518645	8.559243272	7.00929821				
ENSG00000135631	1384.464974	1469.091954	1646.088176			
1750.786756	2276.134705	2169.537199	1499.881702			
2065.48622	-0.462055493	0.003451807	0.033040596			
RAB11FIP5	2	73073382	73156721	-		7058
protein_coding	RAB11 family interacting protein 5	[Source:HGNC				
Symbol;Acc:HGNC:24845]	-	1526	1660			1416
1690	1994	2515	10.58769844	11.14430206		
12.48212266	13.30506787	17.36564266	16.56865876			
ENSG00000136213	673.1802168	829.2404585	841.6439545			
887.8250001	1231.669683	1394.024697	781.3548766			
1171.173127	-0.584688685	0.003453752	0.033041326			CHST12
7	2403560	2448483 +	16143	protein_coding		
carbohydrate sulfotransferase 12	[Source:HGNC	Symbol;Acc:HGNC:17423]				
-	742	937	724	857	1079	1616
2.250859267	2.750310868	2.790365965	2.949908999			
4.108511984	4.654661762					
ENSG00000132507	10701.02514	13296.16718	14092.88627			
8940.408111	8901.353276	10702.76263	12696.69287			
9514.841341	0.41603254	0.003462246	0.033096962			EIF5A
17	7306999	7312463 +	2815	protein_coding		
eukaryotic translation initiation factor 5A	[Source:HGNC					
Symbol;Acc:HGNC:3300]	-	11795	15024	12123	8630	7798
12407	205.1862383	252.8911414	267.9406167			

170.3509031	170.2755108	204.9365407					
ENSG00000280206	155.1399152	218.5938028	267.3730795				
100.488944	136.9790194	63.83528935	213.7022658				
100.4344176	1.092626294	0.003463309	0.033096962				
AC026401.3	16	15701237	15702118	+		882	
lincRNA	novel transcript	-	171	247		230	
97	120	74	9.49415262	13.26950764			
16.22430483	6.111040934	8.36296003	3.901163505				
ENSG00000204574	5243.910583	5638.304121	5109.150801				
6313.192008	6872.922297	7389.366062	5330.455168				
6858.493456	-0.363620458	0.003466059	0.033104097			ABCF1	
6	30571376	30597179	+	4523			
protein_coding	ATP binding cassette subfamily F member 1 [Source:HGNC						
Symbol;Acc:HGNC:70]	-	5780	6371	4395	6094	6021	
8566	62.57918953	66.74326656	60.45596228				
74.86656471	81.8256379	88.06077443					
ENSG00000074842	2595.645014	3554.140535	3432.837842				
2434.525963	2313.803936	2287.718748	3194.207797				
2345.349549	0.445540887	0.003467799	0.033104097			MYDGF	
19	4641374	4670370	-	1678			
myeloid derived	growth factor [Source:HGNC Symbol;Acc:HGNC:16948]						
-	2861	4016	2953	2350	2027	2652	
83.49386875	113.4039517	109.4909785	77.8194128				
74.25217036	73.48734909						
ENSG00000249249	13.60876449	12.38993214	6.974949899	0			
0	0	10.99121551	0	5.893482466			
0.003478213	0.033185606	AC010226.1	5	115602057			
115620659	+	1218	antisense				
uncharacterized	LOC101927100 [Source:NCBI gene;Acc:101927100]						
15	14	6	0	0	0	0.603076845	
0.544637058	0.306486118	0	0	0	0		
ENSG00000116478	3161.769616	3129.342861	3653.711256				
2433.489995	2688.213255	2444.719054	3314.941244				
2522.140768	0.394208973	0.003482511	0.033208702			HDAC1	
1	32292086	32333635	+	3963			
protein_coding	histone deacetylase 1 [Source:HGNC						
Symbol;Acc:HGNC:4852]	-	3485	3536	3143	2349	2355	
2834	43.06330856	42.27801854	49.34318232				
32.93601017	36.52701638	33.25115931					
ENSG00000169213	1282.852866	1005.354494	1155.5167				
983.1341017	667.7727195	416.6546589	1147.90802				
689.18716	0.736989165	0.003492675	0.033287673			RAB3B	
1	51907956	51990764	-	12844			
protein_coding	"RAB3B, member RAS oncogene family [Source:HGNC						
Symbol;Acc:HGNC:9778]"	-	1414	1136	994	949	585	
483	5.39110507	4.19087276	4.814962777				
4.105612521	2.799644767	1.748549181					
ENSG00000177600	7598.22684	10954.47001	10470.56229				
10799.97156	14790.30962	15241.96929	9674.419712				
13610.75016	-0.492563533	0.003495285	0.033294613			RPLP2	



11	809647	812880	+	1955	protein_coding		
ribosomal protein lateral stalk subunit P2 [Source:HGNC							
Symbol;Acc:HGNC:10377]	-		8375	12378	9007	10425	12957
17669	209.7812832		300.0061499		286.6422787		
296.3066139	407.3850217		420.2388769				
ENSG00000136999	935.3757459		845.1703712		689.3575484		
1457.607672	1007.937284		1186.128687		823.3012218		
1217.224548	-0.56339928		0.003505599		0.033374891		NOV
8	119416306		119424353		+	2673	
protein_coding nephroblastoma overexpressed [Source:HGNC							
Symbol;Acc:HGNC:7885]	-		1031	955	593	1407	883
1375	18.88810508		16.92898241		13.80265336		
29.24874137	20.30528572		23.91854501				
ENSG00000132768	1785.469901		2248.772684		1536.813961		
2099.908139	3036.368263		2963.165121		1857.018849		
2699.813841	-0.539389624		0.003516325		0.033458992		DPH2
1	43970000		43973369		+	2930	
protein_coding DPH2 homolog [Source:HGNC Symbol;Acc:HGNC:3004] -							
1968	2541	1322	2027	2660	3435	32.89168764	
41.09258721		28.07182717		38.44130937		55.80349199	
54.51175184							
ENSG00000138071	7704.375203		6445.4197		8001.430026		
6269.681331	5412.954249		4949.822842		7383.741643		
5544.152807	0.413372406		0.003521624		0.033491401		ACTR2
2	65227753		65271253		+	4347	
protein_coding ARP2 actin related protein 2 homolog [Source:HGNC							
Symbol;Acc:HGNC:169]	-		8492	7283	6883	6052	4742
5738	95.66410855		79.38658325		98.51332465		
77.36086602	67.0531631		61.37647212				
ENSG00000104228	901.8074602		1121.288859		1016.017702		
1236.946383	1430.289261		1620.036127		1013.038007		
1429.09059	-0.496747376		0.003526759		0.033522218		TRIM35
8	27284887		27311319		-	4269	
protein_coding tripartite motif containing 35 [Source:HGNC							
Symbol;Acc:HGNC:16285]	-		994	1267	874	1194	1253
1878	11.40220679		14.06296516		12.73773251		
15.54140277	18.04148478		20.45504556				
ENSG00000153071	915.4162247		843.4003809		940.4557448		
1215.191045	1340.111406		1159.386877		899.7574501		
1238.229776	-0.460621774		0.003533688		0.033555535		DAB2
5	39371675		39462300		-	7717	
protein_coding "DAB2, clathrin adaptor protein [Source:HGNC							
Symbol;Acc:HGNC:2662]"	-		1009	953	809	1173	1174
1344	6.402820836		5.851548934		6.52239157		
8.446203783	9.351191629		8.09807485				
ENSG00000107104	713.0992593		449.5775378		603.3331663		
355.3371938	351.5794831		405.4403513		588.6699878		
370.785676	0.665876409		0.003535457		0.033555535		KANK1
9	470291	746106	+	11908	protein_coding		KN
motif and ankyrin repeat domains 1 [Source:HGNC							

Symbol;Acc:HGNC:19309]	-	786	508	519	343	308
470	3.232305518	2.021395652		2.711660897		
1.600542968	1.589861347	1.835228099				
ENSG00000160124	344.7553671	350.4580806		404.5470942		
242.4166278	139.262003	242.4015717		366.5868473		
208.0267342	0.814181892	0.003535956		0.033555535		CCDC58
3	122359591	122383231		-	1746	
protein_coding	coiled-coil domain containing 58					
[Source:HGNC						
Symbol;Acc:HGNC:31136]	-	380	396	348	234	122
281	10.65781165	10.74675597		12.40057579		
7.447039574	4.294997857	7.48329901				
ENSG00000230910	20.86677222	7.079961225		5.812458249		0
0	0	11.2530639	0	5.927750142		
0.00354443	0.033588211	AL391807.1		6	68628117	
68635161	-	5924		processed_transcript		
uncharacterized	LOC101928307	[Source:NCBI	gene;Acc:101928307]	-		
23	8	5	0	0	0	0.190125982
0.063988419	0.052512392	0	0	0	0	
ENSG00000104969	4453.694992	4262.136657		4008.271209		
4669.110007	5874.116948	6663.886625		4241.367619		
5735.704526	-0.435475366	0.003544665		0.033588211		SGTA
19	2754714	2783371	-	3801	protein_coding	small
glutamine rich tetratricopeptide repeat containing alpha						
[Source:HGNC						
Symbol;Acc:HGNC:10819]	-	4909	4816	3448	4507	5146
7725	63.24465765	60.03645626		56.43860025		
65.88730321	83.21838293	94.4999626				
ENSG00000120656	657.7569503	829.2404585		745.1571476		
978.9902277	1063.870384	1116.254925		744.0515188		
1053.038512	-0.501220719	0.003545095		0.033588211		TAF12
1	28589323	28643085		-	2337	
protein_coding	TATA-box binding protein associated factor 12					
[Source:HGNC						
Symbol;Acc:HGNC:11545]	-	725	937			641
945	932	1294	15.19175605	18.99797533		
17.06499494	22.4690722	24.51345691		25.74581131		
ENSG00000128581	300.3000697	301.7833472		344.0975284		
477.5814762	587.8682915	424.4184103		315.3936484		
496.622726	-0.654782464	0.003557516		0.033687846		IFT22
7	101313367	101321823		-	4132	
protein_coding	intraflagellar transport 22					
[Source:HGNC						
Symbol;Acc:HGNC:21895]	-	331	341	296	461	515
492	3.922801787	3.910393902		4.456954955		
6.199442784	7.661155482	5.536506423				
ENSG00000145362	528.0200622	508.872213		444.0718103		
848.4581973	768.2240004	609.885805		493.6546952		
742.1893342	-0.586642732	0.003566462		0.033742169		ANK2
4	112818109	113383740		+	18224	
protein_coding	ankyrin 2					
[Source:HGNC						
Symbol;Acc:HGNC:493]	-					
582	575	382	819	673	707	1.563896334
1.495032311	1.304146868	2.497193746		2.269962683		
1.803876186						

ENSG00000258441	472.6777533	452.2325232	418.496994		
683.7392066	561.6139795	777.2377798	447.8024235		
674.1969886	-0.590780799	0.003567439	0.033742169		
LINC00641	14	21200079	21206900	-	5715
	processed_transcript	long intergenic	non-protein coding RNA		
641 [Source:HGNC Symbol;Acc:HGNC:27511]	-	521	511		360
660	492	901	4.464267113	4.236733105	
3.919161071	6.41711385	5.291712346	7.330600875		
ENSG00000162946	171.4704326	169.9190694	191.8111222		
77.69763712	95.88531357	99.20349021	177.7335414		
90.92881363	0.965487441	0.003568975	0.033742169		DISC1
1	231626815	232041272	+	12906	
protein_coding	DISC1 scaffold protein [Source:HGNC				
Symbol;Acc:HGNC:2888]	-	189	192	165	75
115	0.717131546	0.704913793	0.795424805		84
0.322910113	0.400069078	0.41432124			
ENSG00000186960	782.9575836	807.1155796	963.7055778		
714.8182615	463.4456822	474.4514749	851.2595803		
550.9051395	0.627397619	0.003573464	0.033766561		
LINC01551	14	28772704	28813453	+	2772
	lincRNA	long intergenic	non-protein coding RNA	1551	
[Source:HGNC Symbol;Acc:HGNC:19828]	-	863	912		829
690	406	550	15.24566081	15.58935164	
18.60664841	13.83145628	9.002853184	9.225724504		
ENSG00000166813	578.8261163	606.2216799	607.9831329		
353.2652568	364.1358932	464.9624454	597.6769764		
394.1211985	0.599066774	0.003587192	0.033878187		KIF7
15	89608789	89655451	-	5001	
protein_coding	kinesin family member 7 [Source:HGNC				
Symbol;Acc:HGNC:30497]	-	638	685	523	341
539	6.247302102	6.490231049	6.506563625		319
3.78886881	3.920858675	5.011444543			
ENSG00000125651	2948.565639	4112.572477	3697.885938		
3975.011115	5388.982921	5858.181756	3586.341351		
5074.058597	-0.500747105	0.003590297	0.033889416		GTF2F1
19	6379569	6393981	-	3134	protein_coding
general transcription factor IIF subunit 1 [Source:HGNC					
Symbol;Acc:HGNC:4652]	-	3250	4647	3181	3837
6791	50.78238017	70.25870185	63.14973371		4721
68.03068607	92.59389825	100.7548026			
ENSG00000255197	9.07250966	9.734946684	2.3249833		
31.07905485	26.25431205	62.11001126	7.044146548		
39.81445938	-2.481967506	0.003592733	0.033894321		
AC090559.1	11	47383148	47409190	-	1113
	antisense	novel transcript		-	10
2	30	23	72	0.439980591	0.468299789
0.111799968	1.497745881	1.270223174	3.007934329		
ENSG00000167770	2384.255539	2624.895624	2826.017201		
2968.049738	3797.743312	3810.276663	2611.722788		
3525.356571	-0.433057391	0.003608253	0.034007845		OTUB1

11	63985853	64001811	+	5336	
protein_coding	"OTU deubiquitinase, ubiquitin aldehyde binding 1 [Source:HGNC Symbol;Acc:HGNC:23077]"		-	2628	2966
2865	3327	4417		24.11782966	26.33793773
28.34496888	29.83464325	38.32519208		38.48952899	
ENSG00000120837	648.6844407	546.0420095		554.508517	
390.5601226	420.0689928	351.9567305		583.0783224	
387.5286153	0.59072012	0.003608611		0.034007845	NFYB
12	104117077	104138289	-	4956	
protein_coding	nuclear transcription factor Y subunit beta [Source:HGNC Symbol;Acc:HGNC:7805]		NF-YB	715	617
377	368	408		7.064857845	5.899025957
5.988167336	4.226901195	4.564191745		3.827893828	
ENSG00000121957	1804.522171	1290.322933		1606.56346	
1004.88944	420.0689928	371.7974285		1567.136188	
598.9186204	1.387845466	0.003612866		0.034029808	GPSM2
1	108875350	108934545	+	9130	
protein_coding	G protein signaling modulator 2 [Source:HGNC Symbol;Acc:HGNC:29501]		-	1989	1458
431	10.66823783	7.56681624		1382	970
5.903546663	2.477561258	2.195015093		9.417683957	
ENSG00000092847	1574.080426	1517.766688		1379.877588	
1179.968116	1034.191596	1079.161446		1490.574901	
1097.773719	0.441584542	0.003616547		0.034046357	AG01
1	35869808	35930528	+	13886	
protein_coding	"argonaute 1, RISC catalytic component [Source:HGNC Symbol;Acc:HGNC:3262]"		-	1735	1715
1251	6.118585057	5.852122444		1187	1139
4.557835081	4.010498857	4.18900778		906	
ENSG00000198542	864.6101706	782.3357154		1213.641282	
763.5087807	575.3118814	428.7316055		953.5290561	
589.1840892	0.694534893	0.003623734		0.034095869	ITGBL1
13	101452593	101720856	+	6174	
protein_coding	integrin subunit beta like 1 [Source:HGNC Symbol;Acc:HGNC:6164]		-	953	884
497	7.558836631	6.784409923		1044	737
6.63304443	5.017776018	3.743008227		504	
ENSG00000203943	34.47553671	13.2749273		10.52060512	
5.179842475	4.565967313	0		29.86672113	3.248603262
	3.230948793	0.003626704		0.034105674	SAMD13
	84298366	84389957	+	3455	1
	sterile alpha motif domain containing 13 [Source:HGNC Symbol;Acc:HGNC:24582]		-	38	15
	0	0.53859737		36	5
0.080414432	0.071163828	0		0.648278018	4
ENSG00000011198	939.0047498	894.7300998		928.8308283	
1133.349533	1536.448001	1226.672722		920.855226	
1298.823419	-0.495715187	0.003638606		0.034199418	ABHD5
3	43690108	43734371	+	7549	
protein_coding	abhydrolase domain containing 5 [Source:HGNC				

Symbol;Acc:HGNC:21396]	-	1035	1011	799	1094	1346
1422	6.713973271	6.345826165	6.585127689			
8.05267071	10.95980923	8.758731015				
ENSG00000229163	1.814501932	2.654985459	2.3249833			
17.61146441	13.69790194	36.2308399	2.264823564			
22.51340208	-3.317965174	0.003661333	0.034394757			
NAP1L1P2	Y	2929001	2931120	-	1089	
processed_pseudogene	nucleosome assembly protein 1 like 1					
pseudogene 2 [Source:HGNC	Symbol;Acc:HGNC:38005]	-				2
3	2	17	12	42	0.089935427	
0.130532849	0.114263879	0.867427298	0.677330647			
1.793297854						
ENSG00000196628	1917.928542	1426.612187	2000.648129			
1252.48591	1413.166883	1055.870191	1781.729619			
1240.507662	0.522601685	0.003672117	0.03447775			TCF4
18	55222331	55664787	-	27828		
protein_coding	transcription factor 4 [Source:HGNC					
Symbol;Acc:HGNC:11634]	bHLH	2114	1612	1721	1209	1238
1224	3.720074795	2.74479228	3.847740036			
2.41410608	2.734550891	2.04517484				
ENSG00000125485	585.1768731	697.3761807	562.6459585			
742.7894108	862.9678221	1261.178284	615.0663374			
955.6451724	-0.63614488	0.003679475	0.034528505			DDX31
9	132592997	132670401	-	5546		
protein_coding	DEAD-box helicase 31 [Source:HGNC					
Symbol;Acc:HGNC:16715]	-	645	788	484	717	756
1462	5.695194138	6.732444673	5.429656345			
7.18375205	8.37894405	12.2574047				
ENSG00000101596	2573.87099	1969.114216	2207.571643			
1911.361873	1227.103715	1541.535974	2250.185616			
1560.000521	0.528253731	0.00369671	0.034671842			SMCHD1
18	2655738	2805017	+	12435	protein_coding	
structural maintenance of chromosomes flexible hinge domain containing	1 [Source:HGNC	Symbol;Acc:HGNC:29090]	-	2837	2225	1899
1845	1075	1787	11.17229076	8.478336833		
9.50136543	8.244467769	5.313859102	6.682050923			
ENSG00000140563	273.9897917	230.0987398	365.0223781			
171.9707702	179.214217	75.91223598	289.7036365			
142.3657411	1.027644877	0.003703544	0.03471754			MCTP2
15	94231538	94483952	+	12978		
protein_coding	multiple C2 and transmembrane domain containing 2					
[Source:HGNC	Symbol;Acc:HGNC:25636]	-	302	260	314	
166	157	88	1.139535493	0.949274946		
1.505319629	0.710742625	0.743599763	0.315286896			
ENSG00000144134	69.85832438	90.26950562	79.04943219			
139.8557468	157.5258723	189.78059	79.72575406			
162.387403	-1.027095999	0.003707545	0.034722393			RABL2A
2	113627229	113643396	+	6008		
protein_coding	"RAB, member of RAS oncogene family like 2A					
[Source:HGNC	Symbol;Acc:HGNC:9799]"	-	77	102	68	

135	138	220	0.627609465	0.804445615	
0.704183485	1.248578603		1.411875892	1.702643697	
ENSG0000048828	3204.410412		2846.144412	3092.227789	
2583.705426	2262.436803		1929.723544	3047.594204	
2258.621925	0.432514383		0.003707988	0.034722393	
FAM120A 9	93451722		93566107	+ 7204	
protein_coding	family with	sequence	similarity	120A	[Source:HGNC
Symbol;Acc:HGNC:13247]	-	3532	3216	2660	2494 1982
2237	24.0090886		21.1528445	22.97284483	
19.23688677	16.91131216		14.43854059		
ENSG00000159335	3729.708721		4937.387959	5752.008684	
3332.710648	3675.603687		3413.462702	4806.368455	
3473.925679	0.468182494		0.003712481	0.034732454	PTMS
12	6765516	6770952	+ 1475	protein_coding	
parathymosin	[Source:HGNC	Symbol;Acc:HGNC:9629]	-	4111	5579
4948	3217	3220	3957	136.4847536	179.2217782
208.7106051	121.1911996		134.1872373	124.7398013	
ENSG00000198554	1113.196935		861.9852791	1059.029893	
871.2495042	557.0480121		518.4460662	1011.404036	
648.9145275	0.640472992		0.003712989	0.034732454	WDHD1
14	54938950		55027105	- 6385	
protein_coding	WD repeat and	HMG-box	DNA binding	protein 1	
[Source:HGNC	Symbol;Acc:HGNC:23170]	HMG	1227	974	911
841	488	601	9.410492322	7.228105721	
8.876961207	7.318922321		4.697927179	4.376677925	
ENSG00000132603	3160.862365		3653.259992	3242.189212	
4407.009977	4290.867782		4266.612718	3352.103856	
4321.496826	-0.366321204		0.003718838	0.034768778	NIP7
16	69337996		69343111	+ 4749	
protein_coding	"NIP7, nucleolar	pre-rRNA	processing	protein	
[Source:HGNC	Symbol;Acc:HGNC:24328]"	-	3484	4128	2789
4254	3759	4946	35.92565213	41.18736039	
36.53870838	49.77455198		48.65388411	48.42648649	
ENSG00000139613	1499.685847		1408.027289	1498.451737	
1204.83136	956.570152		1050.694357	1468.721624	
1070.698623	0.455697948		0.003731157	0.034865525	
SMARCC2 12	56162983		56189567	- 8555	
protein_coding	"SWI/SNF related,	matrix	associated,	actin	dependent
regulator of	chromatin	subfamily	c member 2	[Source:HGNC	
Symbol;Acc:HGNC:11105]"	MYB	1653	1591	1289	1163 838
1218	9.461969052		8.812042977	9.374319474	
7.553908927	6.021037956		6.62000462		
ENSG00000129245	1771.861137		2037.258842	2042.497829	
2010.814849	3127.687609		3338.413105	1950.539269	
2825.638521	-0.534955338		0.003739249	0.034922692	FXR2
17	7591230	7614871	- 4331	protein_coding	FMR1
autosomal	homolog 2	[Source:HGNC	Symbol;Acc:HGNC:4024]	-	1953
2302	1757	1941	2740	3870	22.08222055
25.18509401	25.24006241		24.90286965	38.8874745	
41.54835172					

ENSG0000006652	1647.567754	1648.74597	1569.363727	
1196.543612	1183.727026	1274.980509	1621.892484	
1218.417049	0.412548898	0.003760918	0.035106529	IFRD1
7	112422968	112481017	+ 7489	
protein_coding	interferon related developmental regulator 1			
[Source:HGNC Symbol;Acc:HGNC:5456]	-	1816	1863	1350
1155	1037 1478	11.8746467	11.78733062	
11.21545209	8.569790345	8.511425184	9.176596197	
ENSG00000177426	555.2375912	642.5064812	691.6825317	
788.3720246	1014.786235	939.4139203	629.808868	
914.1907267	-0.538181592	0.003793334	0.035374311	TGIF1
18	3411608 3459978	+ 8222	protein_coding	TGFB
induced factor homeobox 1	[Source:HGNC Symbol;Acc:HGNC:11776]			
Homeobox	612 726	595 761	889 1089	
3.645042809	4.18394136	4.502423473	5.143032017	
6.646173106	6.158591886			
ENSG00000188486	7082.00104	7587.948443	8236.253339	
6008.61727	5874.116948	6107.484441	7635.400941	
5996.739553	0.34836225	0.003793604	0.035374311	H2AFX
11	119093854	119095467	- 1614	
protein_coding	H2A histone family member X [Source:HGNC			
Symbol;Acc:HGNC:4739]	-	7806 8574	7085 5800	5146
7080	236.8392625	251.7134311	273.1135019	
199.6808914	195.9808386	203.9673932		
ENSG0000015285	63.50756762	134.5192633	183.6736807	
47.65455077	63.92354238	22.42861518	127.2335039	
44.66890277	1.514908411	0.003799177	0.03540468	WAS
X	48676596	48691427	+ 2381	
protein_coding	Wiskott-Aldrich syndrome [Source:HGNC			
Symbol;Acc:HGNC:12731]	-	70 152	158 46	56
26	1.439684497	3.024897294	4.128616446	
1.073520841	1.445692712	0.507744199		
ENSG00000143153	853.723159	643.3914763	581.2458249	
575.9984832	213.4589719	352.8193695	692.7868201	
380.7589415	0.863314538	0.00380235	0.03540468	ATP1B1
1	169105697	169132722	+ 2962	
protein_coding	ATPase Na <sup>+</sup> /K <sup>+</sup> transporting subunit beta 1 [Source:HGNC			
Symbol;Acc:HGNC:804]	-	941 727	500 556	187
409	15.55726512	11.6298951	10.50247839	
10.43041963	3.880644974	6.420506233		
ENSG00000150672	8.165258694	5.309970919	19.76235805	0
0	0 11.07919589	0	5.898359852	
0.003803604	0.03540468	DLG2 11	83455012	
85627922	- 16709	protein_coding	discs large	MAGUK
scaffold protein 2	[Source:HGNC Symbol;Acc:HGNC:2901]			9
6	17 0	0 0	0.026376717	
0.017014815	0.063300233	0 0	0	
ENSG00000160214	1547.770148	1874.419734	1650.738143	
1820.196646	2540.96081	2937.285949	1690.976008	
2432.814468	-0.524931018	0.003804867	0.03540468	RRP1

21	43789513	43805293	+	4251	
protein_coding	ribosomal RNA processing 1 [Source:HGNC				
Symbol;Acc:HGNC:18785]	-	1706 2118	1420 1757	2226	
3405	19.65244572	23.60811389	20.78280133		
22.96638813	32.18706783	37.24406101			
ENSG00000213015	915.4162247	848.7103518	998.5803273		
701.350671	606.1321608	643.5287278	920.9023013		
650.3371865	0.501115633	0.00381941	0.035521315	ZNF580	
19	55635016	55643469	+	2692	
protein_coding	zinc finger protein 580 [Source:HGNC				
Symbol;Acc:HGNC:29473]	zf-C2H2	1009 959	859 677	531	
746	18.3545945	16.87990478	19.85294571		
13.97415824	12.12458341	12.88530759			
ENSG00000100991	2084.86272	2314.262325	2650.480962		
2730.812953	3373.108352	3485.061743	2349.868669		
3196.327683	-0.44431796	0.00382148	0.035521893		
TRPC4AP 20	35002404	35092871	-	3226	
protein_coding	transient receptor potential cation channel subfamily				
C member 4 associated protein [Source:HGNC	Symbol;Acc:HGNC:16181]				
-	2298 2615	2280 2636	2955 4040		
34.88304152	38.40906817	43.97211251	45.40389248		
56.30415984	58.23016493				
ENSG00000111863	304.8363246	339.8381388	167.3987976		
438.2146733	474.8606005	495.154812	270.691087		
469.4100286	-0.791041966	0.003827443	0.035558631	ADTRP	
6	11712054	11807046	-	4150	
protein_coding	androgen dependent TFPI regulating protein				
[Source:HGNC	Symbol;Acc:HGNC:21214]	-	336 384	144	
423	416 574	3.964787032	4.384393937		
2.158843906	5.663753118	6.16158713	6.431241436		
ENSG00000178741	1245.655576	1505.376755	2148.284569		
1032.860589	1244.226093	982.5458726	1633.105634		
1086.544185	0.587525896	0.003858495	0.035803035	COX5A	
15	74919791	74938168	-	1411	
protein_coding	cytochrome c oxidase subunit 5A [Source:HGNC				
Symbol;Acc:HGNC:2267]	-	1373 1701	1848 997	1090	
1139	47.65102062	57.12204417	81.48577487		
39.2627024	47.48395059	37.5342488			
ENSG00000104427	509.8750429	442.4975766	433.6093854		
362.5889732	248.8452185	238.0883765	461.9940016		
283.1741894	0.707133535	0.003859401	0.035803035		
ZC2HC1A 8	78666047	78719765	+	4181	
protein_coding	zinc finger C2HC-type containing 1A [Source:HGNC				
Symbol;Acc:HGNC:24277]	-	562 500	373 350	218	
276	6.582408511	5.666518065	5.550543503		
4.651573851	3.204967916	3.069445543			
ENSG00000234769	53.52780699	60.17967041	41.8496994		
110.848629	150.6769213	100.9287683	51.85239227		
120.8181062	-1.214938984	0.003859822	0.035803035	WASH4P	
16	14381 18068	-	1246	unprocessed_pseudogene	



"WAS protein family homolog 4, pseudogene [Source:HGNC						
Symbol;Acc:HGNC:14126]"	-	59	68	36	107	132
117	2.318796589	2.585933255	1.797592738			
4.771751064	6.511832922	4.366151866				
ENSG00000175806	584.2696221	703.5711467	811.4191716			
442.3585473	503.3978962	456.336055	699.7533135			
467.3641662	0.581758869	0.003867916	0.035859311			MSRA
8	10054268	10428891	+	4162		
protein_coding methionine sulfoxide reductase A [Source:HGNC						
Symbol;Acc:HGNC:7377]"	-	644	795	698	427	441
529	7.577264981	9.050894311	10.4342249			
5.700826749	6.513041925	5.909960991				
ENSG00000117152	1252.913584	931.8998962	1299.665665			
978.9902277	671.197195	365.7589552	1161.493048			
671.9821259	0.790261236	0.003882027	0.035971277			RGS4
1	163068775	163076802	+	4836		
protein_coding regulator of G protein signaling 4 [Source:HGNC						
Symbol;Acc:HGNC:10000]"	-	1381	1053	1118	945	588
424	13.98414988	10.31735846	14.38342648			
10.85819308	7.473747034	4.07671717				
ENSG00000214460	0	0	0	21.68834474		
18.978059	0	13.55546791	-6.236713858	0.00388509		
0.035980816	TPT1P6	6	85427453	85427966		
-	514	processed_pseudogene	"tumor protein,			
translationally-controlled 1 pseudogene 6 [Source:HGNC						
Symbol;Acc:HGNC:49297]"	-	0	0	0	0	19
22	0	0	0	2.272154413		
1.990171854						
ENSG00000137699	14.51601546	4.424975766	13.9498998	0		
0	0	10.96363034	0	5.885965198		
0.003895534	0.03605866	TRIM29	11	120111275		
120185529	-	10218	protein_coding	tripartite motif		
containing 29 [Source:HGNC Symbol;Acc:HGNC:17274]"						
5	12	0	0	0	0.076680117	16
0.023186252	0.073067154	0	0	0		
ENSG00000019505	4.53625483	50.44472373	30.2247829	0		
5.707459141	0	28.40192048	1.90248638			
3.963502901	0.003913298	0.036204148	SYT13	11		
45240301	45286319	-	5424	protein_coding		
synaptotagmin 13 [Source:HGNC Symbol;Acc:HGNC:14962]"						
57	26	0	5	0	0.045141814	5
0.497945275	0.298236308	0	0.056662755	0		
ENSG00000134352	3534.649763	2806.319631	3260.789078			
2656.223221	2378.86897	2022.888561	3200.586157			
2352.660251	0.444280819	0.003923587	0.036280365			IL6ST
5	55935095	55994993	-	9292		
protein_coding interleukin 6 signal transducer [Source:HGNC						
Symbol;Acc:HGNC:6021]"	-	3896	3171	2805	2564	2084
2345	20.53233921	16.17012889	18.78151023			
15.33277855	13.7859238	11.73450202				

ENSG00000273893	43.54804637	58.40968011	36.03724115					
95.30910153	120.9981338	114.730993	45.99832254					
110.3460761	-1.257877501	0.003943731	0.036447577					
AL133520.1	20	46681676	46682375	-		700		
	sense_intronic	"novel transcript, sense intronic to SLC13A3"						
-	48	66	31	92	106	133		
3.357931874	4.467579982	2.755310203	7.303008918					
9.307974513	8.834553785							
ENSG00000085733	4418.312204	4770.123875	4275.644288					
3739.846267	3191.611152	3470.396879	4488.026789					
3467.284766	0.372297198	0.003968345	0.036653745				CTTN	
11	70398404	70436584	+	6949				
protein_coding	cortactin [Source:HGNC Symbol;Acc:HGNC:3338]					-		
4870	5390	3678	3610	2796	4023	34.31905598		
36.75300844	32.93034342	28.86668638	24.73216958					
26.91898863								
ENSG00000141540	4.53625483	19.46989337	12.78740815					
55.94229872	30.82027936	74.18695789	12.26451878					
53.64984533	-2.131554779	0.003970183	0.036653745				TTYH2	
17	74213514	74262020	+	5375				
protein_coding	tweety family member 2 [Source:HGNC							
Symbol;Acc:HGNC:13877]	-	5	22	11	54	27		
86	0.045553339	0.193941457	0.127327163					
0.558248204	0.308768264	0.743962424						
ENSG00000071205	551.6085873	578.7868301	613.7955911					
727.2498834	1076.426794	795.3531997	581.3970029					
866.3432924	-0.575047297	0.003994971	0.036859403					
ARHGAP10	4	147732063	148072780	+		10759		
protein_coding	Rho GTPase activating protein 10 [Source:HGNC							
Symbol;Acc:HGNC:26099]	-	608	654	528	702	943		
922	2.767326203	2.880263903	3.053295669					
3.625577961	5.387498291	3.984648637						
ENSG00000271204	0	0	0	10.35968495	12.55641011			
8.626390453	0	10.51416184	-5.868923559					
0.003997459	0.036859403	AC016831.4	7	130930209				
130932206	-	1998	lincRNA novel transcript					
-	0	0	0	10	11	10	0	
0	0	0.278109971	0.33841107	0.232720978				
ENSG00000127445	1284.667368	1721.315573	2065.747662					
968.6305427	1227.103715	1250.826616	1690.576868					
1148.853625	0.556596355	0.003998711	0.036859403				PIN1	
19	9835257	9849682	+	4570				
protein_coding	"peptidylprolyl cis/trans isomerase, NIMA-interacting							
1 [Source:HGNC Symbol;Acc:HGNC:8988]"	-	1416	1945	1777				
935	1075	1450	15.1731495	20.16646822				
24.19235097	11.36861226	14.4590455	14.75308417					
ENSG00000250251	329.3321007	290.2784102	289.4604208					
223.7691949	148.3939377	145.7859987	303.0236439					
172.6497104	0.812479108	0.004002462	0.036874762				PKD1P6	
16	15125242	15154564	-	6015				

transcribed_unprocessed_pseudogene	"polycystin 1, transient receptor potential channel interacting pseudogene 6 [Source:HGNC Symbol;Acc:HGNC:30070]"					
	-	363	328	249	216	130
	169	2.955287092	2.583834263	2.57555342		
1.995400897		1.328480184	1.306417806			
ENSG00000160345		48.99155216	46.01974796	47.66215765		
78.73360561		106.15874	163.9014186	47.55781926		
116.2645881		-1.292131776	0.004012876	0.036944384		
C9orf116	9	135495181	135501734	-		1864
	protein_coding chromosome 9 open reading frame 116					
[Source:HGNC Symbol;Acc:HGNC:28435]		-	54	52		41
	76	93	190	1.418654158	1.321855178	
1.36849998		2.265581699	3.066792558	4.739567481		
ENSG00000196961		3518.319246	3185.097556	3819.947562		
2631.359977		2703.052649	2752.681193	3507.788121		
2695.69794		0.379583384	0.004014196	0.036944384		AP2A1
	19	49766968	49807113	+	8746	
	protein_coding adaptor related protein complex 2 subunit alpha 1					
[Source:HGNC Symbol;Acc:HGNC:561]		-	3878	3599		3286
	2540	2368	3191	21.71335912	19.49839277	
23.37571656		16.13750119	16.64253907	16.96478458		
ENSG00000257218		389.2106644	312.4032891	369.6723447		
571.8546092		486.2755188	570.2044089	357.0954327		
542.778179		-0.605097452	0.004020474	0.036982922		GATC
	12	120446438	120463749	+	4422	
	protein_coding glutamyl-tRNA amidotransferase subunit C [Source:HGNC Symbol;Acc:HGNC:25068]					
	-	429	353	318	552	426
	661	4.750805357	3.782530233	4.474198299		
6.936372107		5.921588455	6.950463058			
ENSG00000164258		655.0351974	774.370759	874.1937207		
550.0992708		503.3978962	521.0339833	767.866559		
524.8437168		0.548015953	0.004033201	0.037080715		NDUFS4
	5	53560633	53683340	+	1176	
	protein_coding NADH:ubiquinone oxidoreductase subunit S4 [Source:HGNC Symbol;Acc:HGNC:7711]					
	-	722	875	752	531	441
	604	30.06481663	35.25552385	39.78481706		
25.08991806		23.05040858	23.88144686			
ENSG00000113300		906.343715	839.8604003	977.6554776		
628.8328764		705.4419498	584.0066337	907.9531976		
639.4271533		0.506193929	0.00403765	0.037102333		CNOT6
	5	180494412	180578405	+	6586	
	protein_coding CCR4-NOT transcription complex subunit 6 [Source:HGNC Symbol;Acc:HGNC:14099]					
	-	999	949	841	607	618
	677	7.428009413	6.827644918	7.944766105		
5.121285747		5.767852011	4.779670523			
ENSG00000140406		1142.228966	1130.138811	1496.126753		
785.2641191		763.658033	1029.99102	1256.164843		
859.6377241		0.545480263	0.004047886	0.037177076		TLNRD1
	15	81000944	81005788	+	4845	
	protein_coding talin rod domain containing 1 [Source:HGNC					

Symbol;Acc:HGNC:13519]	-	1259	1277	1287	758	669
1194	12.72508325	12.48888184	16.5269081			
8.693356064	8.487498227	11.45886396				
ENSG00000204178	1103.217175	969.9546878	1109.017034			
1319.823863	1583.249166	1446.645679	1060.729632			
1449.906236	-0.451056103	0.004053259	0.037207107			MAC01
1	25430858	25500209	+	3979		
protein_coding	macoilin 1 [Source:HGNC	Symbol;Acc:HGNC:25572]	-			
1216	1096	954	1274	1387	1677	14.96539966
13.05157898	14.91699287	17.79129384	21.42643324			
19.59702477						
ENSG00000278535	263.1027801	263.7285556	209.248497			
181.2944866	103.8757564	63.83528935	245.3599442			
116.3351774	1.080079915	0.004073718	0.037375517			DHRS11
17	36591798	36600806	+	5462		
protein_coding	dehydrogenase/reductase 11 [Source:HGNC					
Symbol;Acc:HGNC:28639]	-	290	298	180	175	91
74	2.600009804	2.58518132	2.050348363			
1.780321336	1.02408748	0.629957197				
ENSG00000114544	1057.854626	1073.499121	1109.017034			
1308.428209	1434.855228	1731.316564	1080.123594			
1491.533334	-0.466307028	0.004082639	0.037437943			
SLC41A3 3	126006355	126101561	-	6592		
protein_coding	solute carrier family 41 member 3 [Source:HGNC					
Symbol;Acc:HGNC:31046]	-	1166	1213	954	1263	1257
2007	8.661837567	8.719067564	9.004052584			
10.64628764	11.72102087	14.15667272				
ENSG00000114062	1880.731252	1599.186242	1868.124081			
2573.345741	2212.211163	2337.751813	1782.680525			
2374.436239	-0.413857734	0.004107181	0.037643484			UBE3A
15	25333728	25439056	-	12813		
protein_coding	ubiquitin protein ligase E3A [Source:HGNC					
Symbol;Acc:HGNC:12496]	-	2073	1807	1607	2484	1938
2710	7.922772026	6.682419985	7.803184889			
10.77240838	9.297160037	9.834436554				
ENSG00000165280	9237.629336	9221.649496	9942.791082			
11657.75347	12196.84018	11690.48434	9467.356638			
11848.35933	-0.323703881	0.004110121	0.037650925			VCP
9	35056064	35073249	-	5438		
protein_coding	valosin containing protein [Source:HGNC					
Symbol;Acc:HGNC:12666]	-	10182	10420	8553	11253	10685
13552	91.69012673	90.7935415	97.85569717			
114.984992	120.7765677	115.876457				
ENSG00000138035	1326.400912	1037.214319	1079.954743			
905.4364645	710.0079171	796.2158388	1147.856658			
803.8867402	0.51384285	0.004149347	0.037990582			PNPT1
2	55634265	55693910	-	5134		
protein_coding	polyribonucleotide nucleotidyltransferase 1					
[Source:HGNC	Symbol;Acc:HGNC:23166]	-	1462	1172	929	
874	622	923	13.94505373	10.81678477		

11.25814133	9.459487593	7.447009032	8.359433645	
ENSG00000104897	2161.071801	2916.944025	2723.717936	
2994.984919	3674.462195	4169.997145	2600.57792	
3613.148086	-0.474679952	0.004159762	0.038066236	SF3A2
19	2236504	2248679 +	3134	protein_coding
splicing factor	3a subunit 2 [Source:HGNC Symbol;Acc:HGNC:10766]			
-	2382	3296	2343	2891
37.21957833	49.83272677	46.51362027	51.25793939	
63.13487788	71.71973432			
ENSG00000223891	109.7773669	89.38451047	101.1367735	
49.72648776	43.37668947	23.29125422	100.0995503	
38.79814382	1.373160193	0.004177488	0.038208679	OSER1-
DT	20	44210960	44226027	+ 2186
lincRNA	OSER1 divergent transcript [Source:HGNC Symbol;Acc:HGNC:48585]			
-	121	101	87	48
2.710590402	2.189261587	2.476144252	1.220121622	
1.068515433	0.574307681			
ENSG00000146701	4435.549973	4973.672761	5164.9504	
5726.83384	6829.545608	6330.045314	4858.057711	
6295.474921	-0.374011182	0.004180239	0.038214082	MDH2
7	76048051	76067508	+ 3641	
protein_coding	malate dehydrogenase 2 [Source:HGNC			
Symbol;Acc:HGNC:6971]	-	4889	5620	4443
7338	65.75488793	73.13783114	75.92109809	5983
84.36443437	101.0056538	93.71045501		
ENSG00000153015	557.9593441	614.1866363	691.6825317	
457.8980747	399.5221399	396.8139608	621.2761707	
418.0780585	0.570835741	0.004204357	0.03841471	CWC27
5	64768930	65018763	+ 3740	
protein_coding	CWC27 spliceosome associated protein homolog			
[Source:HGNC Symbol;Acc:HGNC:10664]	-		615	694
442	350	460	8.052527138	8.792539116
9.898108501	6.566934897	5.752330128	5.718962484	
ENSG00000090097	990.7180548	1479.711896	1249.678524	
666.1277422	979.3999886	843.6609863	1240.036158	
829.7295724	0.580010846	0.004206891	0.038418012	PCBP4
3	51957454	51974016	- 3738	
protein_coding	poly(rC) binding protein 4 [Source:HGNC			
Symbol;Acc:HGNC:8652]	-	1092	1672	1075
978	14.30579591	21.19451178	17.8927055	858
9.558367396	14.10897133	12.16551717		
ENSG00000089006	1969.641847	1840.789918	1576.338677	
1520.801751	1187.151501	1149.897847	1795.590148	
1285.950366	0.482227795	0.004210524	0.038431356	SNX5
20	17941597	17968980	- 7953	
protein_coding	sorting nexin 5 [Source:HGNC Symbol;Acc:HGNC:14969]			
-	2171	2080	1356	1468
13.36772567	12.39249617	10.60804989	10.25668734	
8.038031745	7.793457745			
ENSG00000145604	1171.260997	1035.444329	859.0813293	

764.5447492	704.300458	674.5837334	1021.928885	
714.4763135	0.517392535	0.004214168	0.038444771	SKP2
5	36151989	36184319	+ 3837	
protein_coding	S-phase kinase associated protein 2 [Source:HGNC			
Symbol;Acc:HGNC:10901]	-	1291 1170	739 738	617
782	16.47643034	14.44842485	11.98283242	
10.68751178	9.884181805	9.476456469		
ENSG00000272391	2593.830512	2361.167069	2445.882431	
3147.272288	3093.442854	3281.478928	2466.960004	
3174.06469	-0.363688725	0.004224616	0.038514185	
POM121C 7	75416787	75486271	- 8767	
protein_coding	POM121 transmembrane nucleoporin C [Source:HGNC			
Symbol;Acc:HGNC:34005]	-	2859 2668	2104 3038	2710
3804	15.96951889	14.41986716	14.93143595	
19.25523426	19.0005269	20.17532409		
ENSG00000177311	3091.911292	2492.146351	3437.487809	
2394.123192	2288.691115	1355.20594	3007.181817	
2012.673416	0.579653642	0.004226222	0.038514185	ZBTB38
3	141324213	141449792	+ 14243	
protein_coding	zinc finger and BTB domain containing 38 [Source:HGNC			
Symbol;Acc:HGNC:26636]	ZBTB	3408 2816	2957 2311	2005
1571	11.71727966	9.368231562	12.9168524	
9.015929661	8.652871672	5.128681493		
ENSG00000139722	667.736711	1063.764174	850.9438877	
1091.910794	1300.159192	1445.78304	860.8149242	
1279.284342	-0.571678845	0.004228308	0.038514185	VPS37B
12	122865328	122896444	- 5953	
protein_coding	"VPS37B, ESCRT-I subunit [Source:HGNC			
Symbol;Acc:HGNC:25754]"	-	736 1202	732 1054	1139
1676	6.054393099	9.567424108	7.650363048	
9.838225483	11.76075497	13.09088929		
ENSG00000185414	946.2627575	903.5800513	760.269539	
1109.522258	1211.12283	1326.738852	870.0374493	
1215.794646	-0.4821871	0.004238062	0.038582146	MRPL30
2	99181079	99197626	+ 2898	
protein_coding	mitochondrial ribosomal protein L30 [Source:HGNC			
Symbol;Acc:HGNC:14036]	-	1043 1021	654 1071	1061
1538	17.62441095	16.69374602	14.04061768	
20.53539842	22.50424063	24.67680746		
ENSG00000105245	1024.286341	1363.777531	1097.392117	
1330.183547	1870.905106	1810.679356	1161.818663	
1670.589337	-0.523689439	0.004240132	0.038582146	NUMBL
19	40665905	40690972	- 5823	
protein_coding	"NUMB like, endocytic adaptor protein [Source:HGNC			
Symbol;Acc:HGNC:8061]"	-	1129 1541	944 1284	1639
2099	9.494581688	12.53955976	10.08630393	
12.25265703	17.30133135	16.76087421		
ENSG00000164930	2083.048218	1791.23019	2175.021877	
1655.477655	1451.977605	1353.480662	2016.433428	
1486.978641	0.439353244	0.004249092	0.038627763	FZD6

8	103298433	103332866	+	4065	
protein_coding	frizzled class receptor 6 [Source:HGNC				
Symbol;Acc:HGNC:4044]	-	2296 2024	1871	1598	1272
1569	27.65922565	23.5926323	28.63650972		
21.84380388	19.23419088	17.94706401			
ENSG00000095015	509.8750429	429.2226493	412.6845357		
319.0782964	240.8547757	295.0225535	450.594076		
284.9852086	0.660553673	0.004249512	0.038627763		MAP3K1
5	56815574	56896152	+	7716	
protein_coding	mitogen-activated protein kinase kinase kinase 1				
[Source:HGNC	Symbol;Acc:HGNC:6848]	-	562	485	355
308	211 342	3.566750905	2.978351564		
2.862483426	2.218045961	1.680883432	2.060937897		
ENSG00000166435	315.7233362	319.4832503	408.0345691		
475.5095392	511.388339	639.2155325	347.7470518		
542.0378036	-0.642987191	0.004252347	0.038633673		XRRA1
11	74807739	74949200	-	9086	
protein_coding	X-ray radiation resistance associated 1 [Source:HGNC				
Symbol;Acc:HGNC:18868]	-	348 361	351	459	448
741	1.875578281	1.88261238	2.403483974		
2.807061946	3.030767641	3.792071292			
ENSG00000255327	8.165258694	10.61994184	12.78740815		0
0	0	10.52420289	0	5.827509457	
0.004260611	0.0386885	AP003062.1	11	134950708	
134951568	+	762	lincRNA uncharacterized		
LOC105369586 [Source:NCBI	gene;Acc:105369586]	-	9	12	
11	0 0	0	0.578383935	0.746195654	
0.898141079	0	0	0		
ENSG00000180573	237.6997531	176.9990306	223.1983968		
311.826517	463.4456822	315.7258906	212.6323935		
363.6660299	-0.773622043	0.004262756	0.0386885		
HIST1H2AC	6	26124145	26139116	+	1668
protein_coding	histone cluster 1 H2A family member c				
[Source:HGNC	Symbol;Acc:HGNC:4733]	-	262	200	192
301	406 366	7.691905297	5.681465714		
7.161632461	10.02726501	14.96157615	10.20272209		
ENSG00000105053	643.2409349	563.7419125	742.8321643		
861.9257878	942.8722501	984.2711507	649.9383372		
929.6897295	-0.517856595	0.004267921	0.038715512		VRK3
19	49976467	50025946	-	9796	
protein_coding	vaccinia related kinase 3 [Source:HGNC				
Symbol;Acc:HGNC:18996]	-	709 637	639	832	826
1141	3.544264643	3.081180188	4.058438118		
4.719397884	5.182969236	5.415865696			
ENSG00000120694	10881.56809	10105.75965	9410.369906		
12683.36228	13148.84437	12497.91449	10132.56588		
12776.70705	-0.334403464	0.004281429	0.038818141		HSPH1
13	31134974	31162388	-	8390	
protein_coding	heat shock protein family H (Hsp110) member 1				
[Source:HGNC	Symbol;Acc:HGNC:16969]	-	11994	11419	8095

12243	11519	14488	70.0052752	64.49002614	
60.02908711	81.08451667		84.39178592	80.29296483	
ENSG00000163900	567.0318537		700.0311661	576.5958583	
738.6455369	1005.654301		967.0183698	614.5529594	
903.7727357	-0.555896219		0.00428524	0.038832796	
TMEM41A 3	185476496		185499057	-	8668
protein_coding	transmembrane protein 41A		[Source:HGNC		
Symbol;Acc:HGNC:30544]	-	625	791	496	713
1121	3.530935613		4.323983437	3.560160853	881
4.570699513	6.247472685		6.013367251		
ENSG00000134986	671.3657148		514.182184	929.9933199	
308.7186115	525.086241		430.4568836	705.1804062	
421.4205787	0.742006516		0.004295263	0.038903693	NREP
5	111662621		111997464	-	9337
protein_coding	neuronal regeneration related protein		[Source:HGNC		
Symbol;Acc:HGNC:16834]	-	740	581	800	298
499	3.881084018		2.948459824	5.330764229	460
1.773458168	3.028292584		2.48498748		
ENSG00000153815	1186.684264		922.1649496	1682.125417	
967.5945742	744.252672		736.6937447	1263.65821	
816.1803303	0.62978724		0.004318314	0.039089008	CMIP
16	81445170		81711762	+	12715
protein_coding	c-Maf inducing protein		[Source:HGNC		
Symbol;Acc:HGNC:24319]	-	1308	1042	1447	934
854	5.037558042		3.883093029	7.080419887	652
4.081713853	3.151944715		3.123003884		
ENSG00000170322	1318.235654		1234.568239	1085.767201	
1621.290695	1630.050331		1639.014186	1212.857031	
1630.118404	-0.425922256		0.004320143	0.039089008	NFRKB
11	129863636		129895590	-	6335
protein_coding	nuclear factor related to kappaB binding protein		[Source:HGNC		
Symbol;Acc:HGNC:7802]	-	Others	1453	1395	934
1565	1428	1900	11.23175648	10.4340768	
9.172909391	13.72713062		13.85571521	13.94562555	
ENSG00000138162	407.3556837		388.5128722	416.1720107	
298.3589265	152.959905		251.0279622	404.0135222	
234.1155979	0.785191246		0.004327524	0.039128942	TACC2
10	121989174		122254545	+	18844
protein_coding	transforming acidic coiled-coil containing protein 2		[Source:HGNC		
Symbol;Acc:HGNC:11523]	-		449	439	358
288	134	291	1.1668148	1.103869834	
1.181998098	0.849241944		0.437098245	0.718043759	
ENSG00000111237	680.4382245		619.4966072	840.4814629	
466.1858227	465.7286659		513.2702319	713.4720982	
481.7282402	0.564951954		0.004328981	0.039128942	VPS29
12	110491097		110502117	-	3211
protein_coding	"VPS29, retromer complex component		[Source:HGNC		
Symbol;Acc:HGNC:14340]"	-	750	700	723	450
595	11.43798813		10.32961596	14.00892591	408
7.787252411	7.810291043		8.61603944		



ENSG00000197324	2636.471307	2755.874907	3674.636105	
2181.74965	2414.255217	1971.130218	3022.32744	
2189.045028	0.465204722	0.004337348	0.03917289	LRP10
14	22871613	22881580	+ 7112	
protein_coding	LDL receptor related protein 10	[Source:HGNC		
Symbol;Acc:HGNC:14553]	-	2906 3114	3161 2106	2115
2285	20.00932994	20.74690418	27.65283068	
16.45427163	18.27957036	14.93913578		
ENSG00000139644	10154.86006	10478.34261	11300.58133	
13553.57582	13943.32268	12679.93133	10644.59467	
13392.27661	-0.331304734	0.004338272	0.03917289	TMBIM6
12	49707725	49764934	+ 6186	
protein_coding	transmembrane BAX inhibitor motif containing 6	[Source:HGNC		
Symbol;Acc:HGNC:11723]	-	11193 11840		9721
13083	12215 14699	88.60643667	90.691843	
97.77050853	117.519374	121.3754675	110.4864176	
ENSG00000142634	3402.191122	3856.808877	5167.275384	
2720.453268	3250.968727	2974.379428	4142.091794	
2981.933807	0.473813066	0.004341607	0.039182999	EFHD2
1	15409895	15430343	+ 2531	
protein_coding	EF-hand domain family member D2	[Source:HGNC		
Symbol;Acc:HGNC:28670]	-	3750 4358	4445 2626	2848
3448	72.5550768	81.58710472	109.2663578	
57.65203216	69.16640447	63.34409418		
ENSG00000182923	822.8766261	684.1012534	695.1700066	
498.300846	568.4629304	418.379937	734.0492954	
495.0479045	0.570003238	0.004357639	0.039300446	CEP63
3	134485721	134575017	+ 10385	
protein_coding	centrosomal protein 63	[Source:HGNC		
Symbol;Acc:HGNC:25815]	-	907 773	598 481	498
485	4.276903681	3.526951064	3.582626465	
2.573656719	2.947611227	2.171532111		
ENSG00000147955	2347.058249	2181.513052	2181.996827	
1657.549592	1725.935644	1766.684765	2236.856043	
1716.723334	0.381812648	0.004359064	0.039300446	
SIGMAR1	9 34634722	34637809	- 2196	
protein_coding	sigma non-opioid intracellular receptor 1	[Source:HGNC		
Symbol;Acc:HGNC:8157]	-	2587 2465	1877 1600	1512
2048	57.68896887	53.18767773	53.17883066	
40.48551709	42.32206166	43.36393		
ENSG00000103111	1556.842658	1383.247424	1505.426687	
1797.405339	2054.685291	2058.256762	1481.838923	
1970.115797	-0.4110649	0.004368649	0.039366805	MON1B
16	77190835	77202405	+ 6942	
protein_coding	"MON1 homolog B, secretory trafficking associated	[Source:HGNC		
Symbol;Acc:HGNC:25020]"	-	1716 1563		1295
1735	1800 2386	12.10490423	10.66843731	
11.60625226	13.88759086	15.93805261	15.98147457	
ENSG00000138185	176.0066874	161.954113	112.76169	
225.8411319	325.325171	268.2807431	150.2408302	

273.1490153	-0.858684005	0.00438096	0.039457636	ENTPD1
10	95711779	95869695	+ 6975	
protein_coding	ectonucleoside triphosphate diphosphohydrolase 1			
[Source:HGNC Symbol;Acc:HGNC:3363]	-	194	183	97
218	285	311	1.36202852	1.243178007
0.865235578	1.736698085	2.511585738	2.073228619	
ENSG00000166086	1112.289684	1085.004058	1246.191049	
761.4368438	893.7881015	837.622513	1147.828264	
830.9491527	0.465762887	0.004387663	0.0394979	JAM3
11	134068925	134152001	+ 5451	
protein_coding	junctional adhesion molecule 3 [Source:HGNC			
Symbol;Acc:HGNC:15532]	-	1226	1226	783
971	11.01394673	10.65714142	12.23560505	
7.492438739	8.829435538	8.282740709		
ENSG00000087008	456.3472359	587.6367817	535.9086506	
796.6597726	757.9505739	731.5179104	526.6308894	
762.0427523	-0.532983706	0.004395072	0.039525782	ACOX3
4	8366282	8440723	- 3846	protein_coding "acyl-
CoA oxidase 3, pristanoyl [Source:HGNC Symbol;Acc:HGNC:121]"	-			-
503	664	461	769	664
8.180601553	7.457589809	11.11038487	10.61221792	
10.25221229				
ENSG00000183741	1588.596441	2114.253421	1714.675184	
2410.698688	2027.289487	3653.276357	1805.841682	
2697.088177	-0.579108989	0.004395229	0.039525782	CBX6
22	38861450	38872314	- 8030	
protein_coding	chromobox 6 [Source:HGNC Symbol;Acc:HGNC:1556]			-
1751	2389	1475	2327	1776
14.09701122	11.42834445	16.1024842	4235	10.67823033
24.52273401				13.59486115
ENSG00000198836	2672.761346	2210.717892	2277.321142	
2037.750029	1687.124922	1457.859987	2386.93346	
1727.578313	0.466865529	0.004405457	0.039597623	OPA1
3	193593144	193697823	+ 9052	
protein_coding	"OPA1, mitochondrial dynamin like GTPase [Source:HGNC			
Symbol;Acc:HGNC:8140]"	-	2946	2498	1959
1690	15.93737827	13.07598247	13.46470173	1478
12.07457514	10.03638353	8.681068387		
ENSG00000267493	41.73354444	27.43484975	18.5998664	
3.107905485	0	6.901112362	29.25608686	3.336339282
3.093249392	0.004421479	0.039711083		CIRBP-AS1
19	1267814	1270241	- 994	antisense
antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:28588]	-			CIRBP
31	16	3	0	8
1.477752662	1.001475767	0.167705349	0	0.374226571
ENSG00000154217	92.53959853	45.13475281	60.44956579	
98.41700702	142.6864785	233.7751813	66.04130571	
158.2928889	-1.262508289	0.00442257	0.039711083	
PITPNC1 17	67377281	67697261	+ 7819	
protein_coding	phosphatidylinositol transfer protein cytoplasmic 1			

[Source:HGNC Symbol;Acc:HGNC:21045]	-	102	51	52
95	125	271	0.638818732	0.309061853
0.413769979	0.675125382	0.982666521	1.611569709	
ENSG00000106608	1109.567931	1375.282468	1390.340013	
1531.161435	1836.660352	2024.613839	1291.730138	
1797.478542	-0.477259575	0.004426195	0.039723472	URGCP
7	43875894	43926411	-	7830
protein_coding	upregulator of cell proliferation [Source:HGNC			
Symbol;Acc:HGNC:30890]	-	1223	1554	1196
2347	7.648801292	9.404066537	9.503339933	1609
10.48877371	12.63111363	13.93741866		
ENSG00000149182	1855.328225	2116.908406	2080.860053	
2273.950846	2890.257309	3025.275132	2017.698895	
2729.827762	-0.436327047	0.004443022	0.039854267	
ARFGAP2	11	47164299	47177125	-
5918				
protein_coding	ADP ribosylation factor GTPase activating protein 2			
[Source:HGNC Symbol;Acc:HGNC:13504]	-	2045	2392	1790
2195	2532	3507	16.9218186	19.15193483
18.81849625	20.60969702	26.2988102	27.55445485	
ENSG00000148339	361.0858845	461.9674699	433.6093854	
235.1648483	265.967596	290.7093583	418.8875799	
263.9472675	0.665347191	0.00444611	0.039861758	
SLC25A25	9	128068201	128109245	+
4936				
protein_coding	solute carrier family 25 member 25			
[Source:HGNC Symbol;Acc:HGNC:20663]	-	398	522	373
227	233	337	3.94854057	5.010969886
4.701544244	2.555422709	2.901537115	3.174576288	
ENSG00000132823	582.4551202	615.9566266	709.1199064	
807.0194575	883.514675	1064.496582	635.8438844	
918.3435715	-0.53191726	0.004448689	0.039864667	OSER1
20	44196496	44210791	-	1712
protein_coding	oxidative stress responsive serine rich 1 [Source:HGNC			
Symbol;Acc:HGNC:16105]	-	642	696	610
1234	18.36368994	19.26335464	22.16832712	774
25.28399763	27.78974493	33.51524647		
ENSG00000183648	202.3169654	232.7537253	215.0609552	
133.6399358	90.17785443	126.8079397	216.7105486	
116.8752433	0.888726771	0.004452411	0.039873069	NDUFB1
14	92116122	92121917	-	2263
protein_coding	NADH:ubiquinone oxidoreductase subunit B1 [Source:HGNC			
Symbol;Acc:HGNC:7695]	-	223	263	185
147	4.825574142	5.506778845	5.086206881	129
3.167504204	2.145803244	3.020395391		79
ENSG00000163902	6737.245673	7010.931603	7791.019038	
6254.141804	5401.539331	4013.859478	7179.732105	
5223.180204	0.45913626	0.004454134	0.039873069	RPN1
3	128619970	128681075	-	3992
protein_coding	ribophorin I [Source:HGNC Symbol;Acc:HGNC:10381]			
-	7426	7922	6702	6037
91.09469704	94.03093321	104.4529566	84.03161047	4732
				4653

72.86207977	54.19678668					
ENSG00000137312	2243.631639	2385.946933	3378.200735			
1710.383985	2214.494147	1635.56363	2669.259769			
1853.480587	0.526117767	0.004456413	0.03987329			FLOT1
6	30727709	30742733	-	3186		
protein_coding	flotillin 1 [Source:HGNC Symbol;Acc:HGNC:3757]					-
2473	2696	2906	1651	1940	1896	38.0108016
40.09595457	56.74880035	28.7947522	37.42857723			
27.67091878						
ENSG00000225697	690.4179851	547.8119998	480.1090514			
386.4162486	234.0058248	414.0667417	572.7796788			
344.829605	0.730832616	0.00448905	0.040135866			
SLC26A6	3	48625723	48635493	-	6373	
protein_coding	solute carrier family 26 member 6 [Source:HGNC					
Symbol;Acc:HGNC:14472]	-	761	619	413	373	205
480	5.847489112	4.60228142	4.031929965			
3.25219784	1.977230508	3.50209834				
ENSG00000167395	738.5022863	739.855948	702.1449565			
831.8827014	1148.340779	1155.936321	726.834397			
1045.3866	-0.524249569	0.004490298	0.040135866			ZNF646
16	31074422	31084196	+	8635		
protein_coding	zinc finger protein 646 [Source:HGNC					
Symbol;Acc:HGNC:29004]	zf-C2H2	814	836	604	803	1006
1340	4.616265156	4.587439781	4.351925412			
5.167318689	7.161153765	7.215617025				
ENSG00000247626	280.3405485	476.1273924	297.5978624			
537.6676489	577.5948651	589.1824679	351.3552677			
568.1483273	-0.691953335	0.00449471	0.040141137			MARS2
2	197705369	197708387	+	3019		
protein_coding	"methionyl-tRNA synthetase 2, mitochondrial					
[Source:HGNC Symbol;Acc:HGNC:25133]"	-		309	538		256
519	506	683	5.012149887	8.443949037		
5.27574382	9.55248333	10.30231356	10.51934282			
ENSG00000134779	2249.075145	1967.344225	2251.746326			
1744.570945	1612.927953	1523.420554	2156.055232			
1626.973151	0.40620502	0.004495426	0.040141137			TPGS2
18	36777647	36829216	-	10571		
protein_coding	tubulin polyglutamylase complex subunit 2 [Source:HGNC					
Symbol;Acc:HGNC:24561]	-	2479	2223	1937	1684	1413
1766	11.483893	9.96436966	11.40040801			
8.851931775	8.216246291	7.767936103				
ENSG00000171861	366.5293903	515.9521743	339.4475618			
478.6174446	668.9142113	877.303909	407.3097088			
674.9451883	-0.728259508	0.004498124	0.040144958			MRM3
17	782273	792509	+	2065		
mitochondrial	rRNA methyltransferase 3 [Source:HGNC					
Symbol;Acc:HGNC:18485]	-	404	583	292	462	586
1017	9.580540093	13.37749938	8.797709998			
12.43179853	17.44315019	22.8998119				
ENSG00000127526	1936.980812	2229.302791	2102.947395			

2542.266686	2674.515353	3069.269723	2089.743666	
2762.017254	-0.402671719	0.004503935	0.040176558	
SLC35E1 19	16549831	16572382	- 7257	
protein_coding	solute carrier family 35 member E1 [Source:HGNC			
Symbol;Acc:HGNC:20803]	-	2135 2519	1809 2454	2343
3558	14.40686345	16.44740874	15.5091605	
18.79011677	19.84552195	22.79711231		
ENSG00000188229	8213.342995	10111.95462	9996.265697	
10337.92961	14469.55041	13282.91602	9440.521104	
12696.79868	-0.427552802	0.00450913	0.040202624	TUBB4B
9	137241213	137243707	+ 2111	
protein_coding	tubulin beta 4B class IVb [Source:HGNC			
Symbol;Acc:HGNC:20771]	-	9053 11426	8599 9979	12676
15398	210.006613	256.4675525	253.4349827	
262.6702171	369.0977157	339.1619317		
ENSG00000138496	327.5175987	292.0484005	319.6852037	
421.6391774	526.2277328	489.1163387	313.0837343	
478.9944163	-0.613568057	0.004533791	0.040402127	PARP9
3	122527924	122564577	- 8938	
protein_coding	poly(ADP-ribose) polymerase family member 9			
[Source:HGNC Symbol;Acc:HGNC:24118]	-		361 330	275
407	461 567	1.977859944	1.74944394	
1.914252355	2.53026555	3.170355294	2.949672007	
ENSG00000139318	958.964271	934.5548817	1047.404977	
1269.061406	1235.094158	1554.47556	980.3080431	
1352.877041	-0.465832586	0.004541606	0.040450845	DUSP6
12	89347232	89353271	- 4632	
protein_coding	dual specificity phosphatase 6 [Source:HGNC			
Symbol;Acc:HGNC:3072]	-	1057 1056	901 1225	1082
1802	11.17468064	10.80243864	12.10216548	
14.69533807	14.35840074	18.08911226		
ENSG00000108424	15646.45016	13382.89671	14597.40765	
12846.00934	10811.0691	9471.776717	14542.2515	
11042.95172	0.397187467	0.004545466	0.040450845	KPNB1
17	47649476	47685505	+ 7678	
protein_coding	karyopherin subunit beta 1 [Source:HGNC			
Symbol;Acc:HGNC:6400]	-	17246 15122	12557 12400	9471
10980	109.9939903	93.32275834	101.7523933	
89.73990822	75.82197436	66.49442739		
ENSG00000111639	899.9929583	1282.357977	1365.927689	
673.3795217	828.7230673	890.2434947	1182.759541	
797.4486946	0.567824709	0.004546118	0.040450845	MRPL51
12	6491886 6493841	- 1551	protein_coding	
mitochondrial ribosomal protein L51 [Source:HGNC				
Symbol;Acc:HGNC:14044]	-	992 1449	1175 650	726
1032	31.32049072	44.26729946	47.13385	
23.28700318	28.77214121	30.93847605		
ENSG00000143061	147.8819075	165.4940936	155.7738811	
93.23716454	79.90442797	43.99459131	156.3832941	
72.37872794	1.116127919	0.004558415	0.040539868	IGSF3

1	116574399	116667755	-	7400		
protein_coding	immunoglobulin superfamily member 3 [Source:HGNC					
Symbol;Acc:HGNC:5950]	-	163 187	134 90	70		
51	1.078659985	1.197391932	1.126626404			
0.675807229	0.581451748	0.320456787				
ENSG00000161526	1558.65716	1662.905893	1927.411156			
1975.59192	2496.442628	2566.35116	1716.324736			
2346.128569	-0.451556536	0.004565716	0.040584401			
SAP30BP 17	75667116	75708062	+	8268		
protein_coding	SAP30 binding protein [Source:HGNC					
Symbol;Acc:HGNC:30785]	-	1718 1879	1658 1907	2187		
2975	10.17539729	10.76843902	12.47644639			
12.81628832	16.25906904	16.7308313				
ENSG00000180917	897.2712054	867.2952501	934.6432865			
1108.48629	1219.113272	1385.398307	899.7365806			
1237.665956	-0.460804288	0.004582149	0.040696047	CMTR2		
16	71281389	71289715	-	7582		
protein_coding	cap methyltransferase 2 [Source:HGNC					
Symbol;Acc:HGNC:25635]	-	989 980	804 1070	1068		
1606	6.387651226	6.12447317	6.597495691			
7.841732822	8.658343925	9.849014549				
ENSG00000230202	602.4146414	769.9457832	791.6568136			
896.1127481	1049.03099	1188.716604	721.3390794			
1044.620114	-0.535253383	0.004582999	0.040696047			
AL450405.1	6	117998975	117999448	+	474	
processed_pseudogene	ribosomal protein L29 (RPL29)					
pseudogene	-	664 870	681 865	919 1378		
68.59910052	86.9695758	89.38725832	101.4027678			
119.1748269	135.1767168					
ENSG00000174574	1485.169831	1315.102798	1372.902639			
1842.987952	1691.690889	2061.707318	1391.058422			
1865.462053	-0.423757235	0.004585179	0.040696047			
AKIRIN1 1	38991223	39006059	+	2741		
protein_coding	akirin 1 [Source:HGNC Symbol;Acc:HGNC:25744]			-		
1637	1486 1181	1779 1482	2390 29.2461247			
25.68835029	26.80696879	36.06442034	33.23429942			
40.54337362						
ENSG00000152642	921.7669814	808.88557	911.3934535			
669.2356477	635.8109483	566.7538527	880.6820016			
623.9334829	0.497581611	0.004587693	0.040697945	GPD1L		
3	32105689	32168713	+	4802		
protein_coding	glycerol-3-phosphate dehydrogenase 1 like [Source:HGNC					
Symbol;Acc:HGNC:28956]	-	1016 914	784 646	557		
657	10.3609657	9.018835816	10.15782563			
7.475192929	7.129850107	6.361715334				
ENSG00000085978	756.6473056	745.1659189	687.0325651			
879.5372522	1015.927727	1241.337586	729.6152632			
1045.600855	-0.519392714	0.00459052	0.040702613			
ATG16L1 2	233210051	233295674	+	6047		
protein_coding	autophagy related 16 like 1 [Source:HGNC					

Symbol;Acc:HGNC:21498]	-	834	842	591	849	890		
1439	6.75390217	6.597791145	6.080710942					
7.801529684	9.04685018	11.06501083						
ENSG00000105287	739.4095373	810.6555603	899.768537					
988.3139441	1200.849403	1258.590367	816.6112115					
1149.251238	-0.493896741	0.004596149	0.040732106			PRKD2		
19	46674275	46717127	-	5446				
protein_coding	protein kinase D2 [Source:HGNC	Symbol;Acc:HGNC:17293]						
-	815	916	774	954	1052	1459		
7.328391381	7.969742276	8.84240027	9.733808131					
11.87368335	12.45686257							
ENSG00000205517	68.95107341	54.86969949	109.2742151					
34.18696033	12.55641011	26.7418104	77.69832933					
24.49506028	1.657484008	0.004602146	0.04076483			RGL3		
19	11384341	11419342	-	4358				
protein_coding	ral guanine nucleotide dissociation stimulator like 3	[Source:HGNC	Symbol;Acc:HGNC:30282]	-	76	62	94	
33	11	31	0.853994453	0.674110209				
1.341984421	0.420764177	0.155150371	0.33075429					
ENSG00000258102	39.9190425	67.25963164	54.63710754					
127.4241249	133.5545439	106.1046026	53.9385939					
122.3610904	-1.18051894	0.004607004	0.040775048					
MAP1LC3B2	12	116548105	116576448	+		1767		
protein_coding	microtubule associated protein 1 light chain 3	beta 2 [Source:HGNC	Symbol;Acc:HGNC:34390]	-	44	76		
47	123	117	123	1.219396125	2.037996734			
1.654886279	3.86794781	4.07002121	3.236678627					
ENSG00000169136	849.1869042	1051.374242	856.756346					
902.3285591	1777.302776	1623.486683	919.1058307					
1434.372673	-0.641808451	0.00460791	0.040775048			ATF5		
19	49928702	49933935	+	2954				
protein_coding	activating transcription factor 5 [Source:HGNC	Symbol;Acc:HGNC:790]	TF_bZIP	936	1188	737	871	1557
1882	15.51650985	19.05602836	15.52257774					
16.38399126	32.39854314	29.62375766						
ENSG00000104967	41.73354444	38.93978674	120.8991316					
20.7193699	14.83939377	0	67.19082092	11.85292122				
2.513955203	0.004611586	0.040783115	NOVA2	19				
45933734	45973546	-	8684	protein_coding				
NOVA	alternative splicing regulator 2 [Source:HGNC	Symbol;Acc:HGNC:7887]	-	46	44	104	20	13
0	0.259398046	0.240081835	0.745109964					
0.127974141	0.092017599	0						
ENSG00000203446	17.23776835	16.81490791	8.137441549					
58.01423571	41.09370581	57.79681603	14.0633726					
52.30158585	-1.885394583	0.004613433	0.040783115					
AC004988.1	7	40538127	40546928	-		1771		
antisense	novel transcript			-	19	19		
7	56	36	67	0.525368129	0.508348423			
0.245915739	1.757039437	1.249485728	1.759086759					

ENSG00000100644	4304.905834	3141.732794	3719.97328		
3128.624855	2639.129107	2388.647516	3722.203969		
2718.800493	0.453335477	0.004618736	0.040809604	HIF1A	
14	61695513	61748259	+	5151	
protein_coding	hypoxia inducible factor 1 subunit alpha [Source:HGNC				
Symbol;Acc:HGNC:4910]	Others	4745	3550	3200	3020 2312
2769	45.11005436	32.6560193	38.65140408		
32.57822637	27.58948794	24.99553427			
ENSG00000039523	1711.982573	1517.766688	1949.498497		
1220.370887	1357.233784	1232.711196	1726.415919		
1270.105289	0.44252821	0.004628012	0.040871142	RIPOR1	
16	67518418	67546788	+	6729	
protein_coding	RH0 family interacting cell polarization regulator 1				
[Source:HGNC Symbol;Acc:HGNC:25836]	-	1887	1715	1677	
1178	1189 1429	13.73251416	12.07647084		
15.50562873	9.727624677	10.8612219	9.874445533		
ENSG00000173486	451.8109811	777.9107396	755.6195724		
406.09965	335.5985975	477.039392	661.780431		
406.2458798	0.702183705	0.004633645	0.040900468	FKBP2	
11	64241003	64244132	+	1608	
protein_coding	FK506 binding protein 2 [Source:HGNC				
Symbol;Acc:HGNC:3718]	-	498 879	650 392	294	
553	15.16603249	25.90175979	25.14977817		
13.54603103	11.23850767	15.99079682			
ENSG00000112033	1352.71119	1066.41916	1535.65147		
784.2281506	852.6943956	1073.985611	1318.260606		
903.6360526	0.543411329	0.004649114	0.041007483	PPARD	
6	35342558	35428191	+	4457	
protein_coding	peroxisome proliferator activated receptor delta				
[Source:HGNC Symbol;Acc:HGNC:9235]	THR-like	1491	1205		
1321	757 747	1245	16.38187821	12.81064079	
18.44025958	9.437680897	10.30208972	12.98846222		
ENSG00000136490	541.6288267	754.0158705	886.9811289		
300.4308635	551.340553	467.5503625	727.541942		
439.7739264	0.725848862	0.004650405	0.041007483	LIMD2	
17	63695902	63701172	-	4745	
protein_coding	LIM domain containing 2 [Source:HGNC				
Symbol;Acc:HGNC:28142]	-	597 852	763 290	483	
542	6.161221155	8.508045795	10.00449491		
3.396048038	6.25688646	5.311217516			
ENSG00000131067	508.0605409	693.8362	607.9831329		
360.5170362	396.0976644	438.220635	603.2932913		
398.2784452	0.598447976	0.004659628	0.041055406	GGT7	
20	34844720	34872860	-	2966	
protein_coding	gamma-glutamyltransferase 7 [Source:HGNC				
Symbol;Acc:HGNC:4259]	-	560 784	523 348	347	
508	9.24582276	12.52481607	10.97077704		
6.519587838	7.191271547	7.963859394			
ENSG00000196141	2744.434172	2152.308212	2566.781563		
2165.174154	1685.98343	1448.370957	2487.841316		



1766.509514	0.494222052	0.004660481	0.041055406		
SPATS2L 2	200305881	200482263	+	10437	
protein_coding	spermatogenesis associated serine rich 2 like				
[Source:HGNC Symbol;Acc:HGNC:24574]	-		3025	2432	2208
2090	1477	1679	14.19313648	11.04115046	
13.16225293	11.12711679	8.698656313	7.48007635		
ENSG00000104852	4087.165602	5101.112063	4479.080327		
3286.092066	3419.909517	3745.578735	4555.785997		
3483.860106	0.386914855	0.004678183	0.041190828		
SNRNP70 19	49085419	49108605	+	4684	
protein_coding	small nuclear ribonucleoprotein U1 subunit 70				
[Source:HGNC Symbol;Acc:HGNC:11150]	-		4505	5764	3853
3172	2996	4342	47.09844758	58.30872251	
51.1786669	37.62949031	39.31626764	43.10264791		
ENSG00000125868	5184.939271	5023.232489	5778.745992		
4670.145975	3939.288299	3260.775591	5328.972584		
3956.736622	0.429641624	0.004684536	0.041226249		DSTN
20	17569863	17609919	+	3851	
protein_coding	"destrin, actin depolymerizing factor [Source:HGNC				
Symbol;Acc:HGNC:15750]"	-	5715	5676	4971	4508
3780	72.67271738	69.83856529	80.31138048		3451
65.04627522	55.08315417	45.64038501			
ENSG00000171241	1363.598202	994.7345521	1375.227622		
740.7174739	357.2869422	219.1103175	1244.520125		
439.0382445	1.503470334	0.004694639	0.041294612		SHCBP1
16	46580554	46621626	-	4459	
protein_coding	SHC binding and spindle associated 1 [Source:HGNC				
Symbol;Acc:HGNC:29547]	-	1503	1124	1183	715
254	16.5063174	11.94415085	16.50646665		313
8.910059683	4.314735971	2.648666401			
ENSG00000196591	3170.842126	3268.2871	3766.472946		
2828.193991	2617.440762	2205.768039	3401.867391		
2550.467597	0.415625174	0.004700631	0.04132677		HDAC2
6	113933028	114011308	-	15461	
protein_coding	histone deacetylase 2 [Source:HGNC				
Symbol;Acc:HGNC:4853]	-	3495	3693	3240	2730
2557	11.069762	11.31796035	13.03809907		2293
9.811538459	9.116199794	7.689961509			
ENSG00000205609	56.24955989	76.99457832	159.261356		
1329.147579	98.16829722	629.7265031	97.50183142		
685.6807931	-2.815252087	0.004708119	0.041372045		EIF3CL
16	28379579	28403879	-	3091	
protein_coding	eukaryotic translation initiation factor 3 subunit C				
like [Source:HGNC Symbol;Acc:HGNC:26347]	-			62	87
137	1283	86	730	0.982248486	1.333664799
2.757581829	23.06426902	1.710199623	10.98132824		
ENSG00000089486	169.6559306	182.3090015	119.7366399		
214.4454784	273.9580388	386.4622923	157.2338574		
291.6219365	-0.889992696	0.004713439	0.041398224		CDIP1
16	4510675	4538828	-	4268	protein_coding cell

death inducing p53 target 1 [Source:HGNC Symbol;Acc:HGNC:13234] zf-						
LITAF-like	187	206	103	207	240	448
2.145585766	2.28701625		1.501480376		2.69499509	
3.456481137	4.88072818					
ENSG00000163565	3701.583941		3793.974221		4267.506847	
5308.302568	4966.630944		4803.174204		3921.02167	
5026.035905	-0.358383334		0.004716227		0.041402153	IFI16
1	158999968		159055155		+ 5294	
protein_coding interferon gamma inducible protein 16 [Source:HGNC						
Symbol;Acc:HGNC:5395]	-		4080	4287	3671	5124 4351
5568	37.7402619		38.37037003		43.14269733	
53.7820346	50.51873958		48.90421676			
ENSG00000140280	287.5985562		457.5424942		317.3602204	
198.905951	231.7228411		194.9564242		354.1670903	
208.5284055	0.766028561		0.004724831		0.041457114	LYSMD2
15	51723011		51751585		- 2074	
protein_coding LysM domain containing 2 [Source:HGNC						
Symbol;Acc:HGNC:28571]	-		317	517	273	192 203
226	7.484782655		11.81158642		8.189563253	
5.144042171	6.01637151		5.066764339			
ENSG00000182405	221.3692357		165.4940936		101.1367735	
331.5099184	299.070859		276.9071335		162.666701	
302.4959703	-0.890815462		0.004738484		0.041548913	PGBD4
15	34102073		34108684		+ 6612	
protein_coding piggyBac transposable element derived 4 [Source:HGNC						
Symbol;Acc:HGNC:19401]	-		244	187	87	320 262
321	1.807114477		1.340093814		0.818640553	
2.689237614	2.435655192		2.257372373			
ENSG00000065485	387.3961625		429.2226493		445.2343019	
298.3589265	247.7037267		265.6928259		420.6177045	
270.5851597	0.635699344		0.004741683		0.041548913	PDIA5
3	123067062		123225227		+ 4030	
protein_coding protein disulfide isomerase family A member 5						
[Source:HGNC Symbol;Acc:HGNC:24811]	-				427	485 383
288	217 308		5.188615784		5.70247163	
5.912900548	3.970996326		3.309802258		3.553666665	
ENSG00000140395	577.0116144		633.6565296		747.4821309	
459.9700117	376.6923033		471.8635578		652.7167583	
436.1752909	0.579602982		0.00474234		0.041548913	WDR61
15	78277835		78299794		- 7279	
protein_coding WD repeat domain 61 [Source:HGNC						
Symbol;Acc:HGNC:30300]	-		636	716	643	444 330
547	4.278722095		4.660878091		5.495992105	
3.389403662	2.786695913		3.494190874			
ENSG00000137574	1329.122665		1259.348103		1210.153808	
1753.894662	1566.126788		1722.690173		1266.208192	
1680.903875	-0.408663706		0.004760063		0.041677556	TGS1
8	55773142		55825448		+ 3869	
protein_coding trimethylguanosine synthase 1 [Source:HGNC						
Symbol;Acc:HGNC:17843]	-		1465	1423	1041	1693 1372

1997	18.54246972	17.42740047	16.74013077	
24.31477595	21.79730202	23.9999509		
ENSG00000147454	2641.914813	2470.906468	2657.455912	
1688.628647	2268.144263	1812.404634	2590.092397	
1923.059181	0.429944857	0.004761736	0.041677556	
SLC25A37	8	23528805	23575463	+
	protein_coding	solute carrier family 25 member 37		8147
[Source:HGNC Symbol;Acc:HGNC:29786]		-	2912	2792
1630	1987	2101	17.50339678	16.23843377
17.45763288	11.11736672	14.9915836	11.9911091	
ENSG00000129534	1071.463391	654.0114182	766.0819973	
625.7249709	519.3787818	211.3465661	830.5189354	
452.1501063	0.878974096	0.004770144	0.041730501	
MIS18BP1	14	45203190	45253540	-
	protein_coding	MIS18 binding protein 1	[Source:HGNC	
Symbol;Acc:HGNC:20190]		-	1181	739
245	9.253340935	5.60261606	6.560126951	
5.36993421	4.474852653	1.822707939		
ENSG00000085872	2345.243747	2276.207534	2301.733467	
2842.69755	2793.230504	3485.924382	2307.728249	
3040.617479	-0.398261439	0.004793718	0.041916002	CHERP
19	16517889	16542530	-	6113
	protein_coding	calcium homeostasis endoplasmic reticulum protein		
[Source:HGNC Symbol;Acc:HGNC:16930]		-	2585	2572
2744	2447	4041	20.70784164	19.9362288
20.15197618	24.94260189	24.60520194	30.73728279	
ENSG00000152413	505.3387881	466.3924457	441.746827	
565.6387982	724.8473109	825.5455663	471.1593536	
705.3438918	-0.582200503	0.00481546	0.042085315	HOMER1
5	79372636	79514217	-	6154
	protein_coding	homer scaffold protein 1	[Source:HGNC	
Symbol;Acc:HGNC:17512]		-	557	527
957	4.432271821	4.057696535	3.841784069	
4.930003124	6.342545531	7.230785259		
ENSG00000126947	950.7990123	969.0696927	796.3067802	
1101.23451	1377.780637	1311.211349	905.3918284	
1263.408832	-0.479842201	0.004821064	0.042104911	ARMCX1
X	101550531	101554700	+	2141
	protein_coding	armadillo repeat containing X-linked 1	[Source:HGNC	
Symbol;Acc:HGNC:18073]		-	1048	1095
1520	23.97029059	24.23393243	19.90585109	
27.5885351	34.65277055	33.01094362		
ENSG00000147251	698.5832438	458.4274893	573.1083834	
462.0419487	319.6177119	185.4673947	576.7063722	
322.3756851	0.840740388	0.004822463	0.042104911	DOCK11
X	118495898	118686163	+	6721
	protein_coding	dedicator of cytokinesis 11	[Source:HGNC	
Symbol;Acc:HGNC:23483]		-	770	518
215	5.610292616	3.651928829	4.563729241	
3.687338492	2.560775441	1.487426733		
				280

ENSG00000110851	900.9002092	999.1595279	890.4686038		
1443.104113	1120.944975	1294.821207	930.1761136		
1286.290099	-0.467594544	0.004828391	0.042120594	PRDM4	
12	107732866	107761272	- 4777		
protein_coding	PR/SET domain 4	[Source:HGNC	Symbol;Acc:HGNC:9348]		
zf-C2H2	993 1129	766 1393	982 1501		
10.17941196	11.19863633	9.976549804	16.20346587		
12.63582512	14.61021036				
ENSG00000158863	830.1346339	1081.464077	877.6811957		
1060.831739	1384.629588	1628.662517	929.7599689		
1358.041281	-0.546686018	0.004829022	0.042120594		
FAM160B2	8 22089159	22104898	+ 8278		
protein_coding	family with sequence	similarity 160	member B2		
[Source:HGNC	Symbol;Acc:HGNC:16492]	-	915 1222 755		
1024	1213 1888	5.412829602	6.994750446		
5.674510137	6.873636764	9.00705343	10.60492462		
ENSG00000274825	10.88701159	19.46989337	2.3249833	0	
0	0 10.89396275	0	5.88291822		
0.004833444	0.042138391	AL023803.2	20 38955910		
38956547	+	638	lincRNA novel transcript		
-	12 22	2 0	0 0		
0.921062818	1.633911174	0.195036621	0 0 0		
ENSG00000224982	0 0	0 0	25.11282022		
13.80222472	0 12.97168165	-6.171811986	0.004850399		
0.042265371	TMEM233 12	119593459	119643066		
+	3146	protein_coding	transmembrane protein 233		
[Source:HGNC	Symbol;Acc:HGNC:37219]	-	0 0 0		
0	22 16	0 0	0 0		
0.429844449	0.236478838				
ENSG00000150938	2063.088697	1412.452264	1750.712425		
1596.427451	906.3445116	803.1169512	1742.084462		
1101.962971	0.661011869	0.004860434	0.042331962	CRIM1	
2	36355926	36551135	+ 7122		
protein_coding	cysteine rich transmembrane	BMP regulator 1			
[Source:HGNC	Symbol;Acc:HGNC:2359]	-	2274 1596 1506		
1541	794 931	15.63569444	10.61835788		
13.15618128	12.02299629	6.852765858	6.078252393		
ENSG00000176697	164.2124248	161.954113	216.2234469		
98.41700702	55.93309958	107.8298807	180.7966616		
87.39332909	1.043113155	0.004880217	0.042483345	BDNF	
11	27654893	27722058	- 7740		
protein_coding	brain derived neurotrophic factor	[Source:HGNC	Symbol;Acc:HGNC:1033]		
125	1.145160337	1.120305763	1.495129568	49	
0.682016196	0.389136958	0.750931064			
ENSG00000138650	168.7486797	133.6342681	191.8111222		
219.6253209	300.2123508	362.308399	164.7313567		
294.0486902	-0.838990618	0.004885988	0.042512659	PCDH10	
4	133149315	133208606	+ 10161		
protein_coding	protocadherin 10	[Source:HGNC	Symbol;Acc:HGNC:13404]		

-	186	151	165	212	263	420	
0.89640687	0.704152842		1.010309274		1.159341689		
1.590987096	1.921957842						
ENSG00000172965	1271.058603		999.1595279		1083.442218		
933.4076139	740.8281965		609.023166		1117.886783		
761.0863255	0.555442036		0.004896712		0.042585026		
MIR4435-2HG	2	111036776		111523376	-		13094
lincRNA	MIR4435-2	host gene	[Source:HGNC				
Symbol;Acc:HGNC:35163]	-	1401	1129	932	901		649
706	5.23955595	4.085526635		4.428436507			
3.823529964	3.046630043	2.507052235					
ENSG00000140319	3003.907948	3098.368031		3440.975284			
2798.150905	2238.465475	2020.300644		3181.083754			
2352.305675	0.435484175	0.00491513		0.042724191			SRP14
15	40035739	40039188		-	2005		
protein_coding	signal recognition particle 14	[Source:HGNC					
Symbol;Acc:HGNC:11299]	-	3311	3501	2960	2701		1961
2342	80.86740134	82.73783921		91.85106171			
74.85524754	60.11883788	54.31296749					
ENSG00000187164	369.2511432	222.1337834		258.0731463			
166.7909277	182.6386925	97.47821212		283.152691			
148.9692774	0.930334533	0.004928919		0.042823014			SHTN1
10	116881482	117126586		-	8247		
protein_coding	shootin 1	[Source:HGNC Symbol;Acc:HGNC:29319]					-
407	251	222	161	160	113	2.416724241	
1.442129191	1.674803372	1.084780638		1.192535588			
0.637108599							
ENSG00000100395	611.4871511	689.4112243		633.5579492			
807.0194575	922.3253972	998.0733754		644.8187748			
909.13941	-0.495780736	0.004933886		0.042845124			
L3MBTL2 22	41205205	41231271		+	6451		
protein_coding	"L3MBTL2, polycomb repressive complex 1 subunit	[Source:HGNC Symbol;Acc:HGNC:18594]"					
779	808	1157	5.116365222	5.721855114			545
5.256253556	6.709999061	7.69895319		8.339448579			
ENSG00000172809	3982.831741	5229.43636		4913.852204			
5730.977714	6196.017643	6682.864684		4708.706768			
6203.28668	-0.397835871	0.004939672		0.042863565			RPL38
17	74203582	74210655		+	3829		
protein_coding	ribosomal protein L38	[Source:HGNC					
Symbol;Acc:HGNC:10349]	-	4390	5909	4227	5532		5428
7747	56.14458001	73.12317909		68.68370719			
80.28027449	87.13684533	94.07607892					
ENSG00000153187	17913.67032	17450.33443		17891.90898			
15693.88673	12307.56489	13640.04858		17751.97125			
13880.50007	0.354886991	0.004941819		0.042863565			HNRNPU
1	244840638	244864560		-	22512		
protein_coding	heterogeneous nuclear ribonucleoprotein U	[Source:HGNC					
Symbol;Acc:HGNC:5048]	-	19745	19718	15391	15149		10782
15812	42.95084788	41.5025922		42.53628966			

37.39227845	29.43964764	32.65906474			
ENSG00000145723	184.1719461	184.0789918	185.998664		
119.1363769	91.31934625	80.22543121	184.7498673		
96.89371813	0.932514353	0.00494328	0.042863565	GIN1	
5	103086000	103120151	- 4182		
protein_coding	gypsy retrotransposon integrase	1	[Source:HGNC		
Symbol;Acc:HGNC:25959]	-	203 208	160 115	80	
93	2.377063005	2.356707844	2.380360861		
1.5280088	1.175853778	1.034022379			
ENSG00000047634	532.556317	492.9423003	416.1720107		
305.610706	302.4953345	335.5665886	480.556876		
314.557543	0.611721839	0.004948126	0.042875319	SCML1	
X	17737449	17754988	+ 5497		
protein_coding	Scm polycomb group protein like	1	[Source:HGNC		
Symbol;Acc:HGNC:10580]	-	587 557	358 295	265	
389	5.22926978	4.801267455	4.051950547		
2.982004693	2.963244569	3.290446868			
ENSG00000197561	12.70151352	12.38993214	5.812458249	0	
0	0	10.30130131	0 5.800377638		
0.004949483	0.042875319	ELANE 19	851014 856247	+	
1028	protein_coding	"elastase, neutrophil expressed			
[Source:HGNC Symbol;Acc:HGNC:3309]"	-	14 14	5		
0	0	0	0.666904434	0.645299549	
0.302610321	0	0	0		
ENSG00000139977	635.9829272	673.4813115	625.4205076		
941.6953619	818.4496408	937.6886422	644.9615821		
899.2778816	-0.479682215	0.004956098	0.042911613	NAA30	
14	57390544	57415917	+ 7653		
protein_coding	"N(alpha)-acetyltransferase 30,	NatC catalytic subunit			
[Source:HGNC Symbol;Acc:HGNC:19844]"	-	701 761	538		
909	717 1087	4.485542627	4.711719026		
4.37378478	6.600004225	5.758837215	6.604331266		
ENSG00000049167	222.2764867	215.0538222	235.9858049		
148.1434948	114.1491828	114.730993	224.4387046		
125.6745569	0.836484857	0.004961574	0.042938005	ERCC8	
5	60873831	60945073	- 5448		
protein_coding	"ERCC excision repair 8, CSA ubiquitin ligase complex	subunit			
[Source:HGNC Symbol;Acc:HGNC:3439]"	-	245 243			
203	143 100	133	2.202204618	2.113467703	
2.318279451	1.458515276	1.128262779	1.135129892		
ENSG00000134321	5.443505796	12.38993214	12.78740815		
5.179842475	95.88531357	69.87376267	10.2069487		
56.97963957	-2.484968078	0.004979381	0.043071035	RSAD2	
2	6865806 6898239	+ 4834	protein_coding		
radical S-adenosyl methionine domain containing	2	[Source:HGNC			
Symbol;Acc:HGNC:30908]	-	6 14	11 5	84	
81	0.060781762	0.13722961	0.141577059		
0.057474526	1.068119885	0.779129038			
ENSG00000146409	43.54804637	33.62981582	26.73730795		
142.9636523	155.2428886	30.19236658	34.63839004		

109.4663025	-1.653893825	0.004987655	0.043087586		
SLC18B1 6	132769370	132813339	-	2760	
protein_coding	solute carrier family 18 member B1		[Source:HGNC		
Symbol;Acc:HGNC:21573]	-	48 38	23 138	136	
35	0.851649388	0.652380476	0.51847235		
2.77831861	3.028845959	0.589644131			
ENSG00000204054	407.3556837	438.0726008	497.5464262		
502.44472	667.7727195	1017.051434	447.6582369		
729.0896246	-0.705505862	0.004988425	0.043087586		
LINC00963	9 129483451	129513686	+	13171	
processed_transcript	long intergenic non-protein coding RNA				
963 [Source:HGNC	Symbol;Acc:HGNC:48716]	-	449 495	428	
485	585 1179	1.669384108	1.780790745		
2.021770549	2.046138525	2.730137225	4.162229984		
ENSG00000170604	1730.127592	2151.423217	1946.011022		
1830.55633	3156.224905	3905.166958	1942.52061		
2963.982731	-0.60982416	0.004988602	0.043087586		
IRF2BP1 19	45883607	45886170	-	2564	
protein_coding	interferon regulatory factor 2 binding protein 1				
[Source:HGNC	Symbol;Acc:HGNC:21728]	-	1907 2431	1674	
1767	2765 4527	36.42179585	44.92554753		
40.62040783	38.29398584	66.28640638	82.0962825		
ENSG00000124313	153.3254133	132.749273	198.7860721		
105.6687865	63.92354238	56.07153794	161.6202528		
75.22128893	1.103293336	0.005007085	0.043226125		IQSEC2
X	53225828	53321350	-	13115	
protein_coding	IQ motif and Sec7 domain 2		[Source:HGNC		
Symbol;Acc:HGNC:29059]	-	169 150	171 102	56	
65	0.631025767	0.541937751	0.811212552		
0.432159357	0.262462398	0.230449664			
ENSG00000257467	13.60876449	0.884995153	19.76235805	0	
0	0 11.4187059	0	5.942578409		
0.005017195	0.043292274	PPFIA2-AS1	12 81270675		
81312422	+	2024 lincRNA	PPFIA2 antisense RNA 1		
[Source:HGNC	Symbol;Acc:HGNC:53397]	-	15 1	17	
0	0 0	0.362918773	0.023410783		
0.522570946	0 0	0			
ENSG00000050405	1341.824179	888.5351337	1515.889111		
958.2708578	828.7230673	672.8584553	1248.749475		
819.9507935	0.606733058	0.005021229	0.043305957		LIMA1
12	50175788	50283546	-	6317	
protein_coding	LIM domain and actin binding 1		[Source:HGNC		
Symbol;Acc:HGNC:24636]	-	1479 1004	1304 925	726	
780	11.46531472	7.530941547	12.84320933		
8.136598747	7.064364574	5.741359533			
ENSG00000188976	6501.360422	7740.167609	6595.977621		
7291.146267	10004.03438	11218.62078	6945.835218		
9504.600478	-0.452490683	0.005025727	0.043323625		NOC2L
1	944204 959309	-	5539	protein_coding	NOC2
like nucleolar associated transcriptional repressor			[Source:HGNC		

Symbol;Acc:HGNC:24517]	-	7166	8746	5674	7038	8764
13005	63.35401196	74.81773367		63.7330662		
70.60410319	97.25643898	109.171684				
ENSG00000100316	20863.14321	24393.12141		25300.46827		
26990.0872	32618.12899	31194.75316		23518.91096		
30267.65645	-0.363983227	0.005028606		0.043327333		RPL3
22	39312882	39320389		-	4787	
protein_coding	ribosomal protein L3 [Source:HGNC					
Symbol;Acc:HGNC:10332]	-	22996	27563	21764	26053	28575
36162	235.2434587	272.8283512		282.8669035		
302.4171078	366.9189751	351.2529922				
ENSG00000088888	2149.277538	2160.273169		1790.237141		
2553.66234	2512.423514	3137.418208		2033.262616		
2734.501354	-0.427393438	0.005047632		0.043470091		MAVS
20	3846799	3876123	+	11771	protein_coding	
mitochondrial	antiviral signaling protein [Source:HGNC					
Symbol;Acc:HGNC:29233]	-	2369	2441	1540	2465	2201
3637	9.855539084	9.826092781		8.139808877		
11.63631871	11.49354613	14.36683022				
ENSG00000141002	3544.629524	3718.749633		4433.743153		
2635.503851	3314.892269	2819.967039		3899.04077		
2923.454386	0.415373438	0.005053887		0.043483223		TCF25
16	89873570	89913627		+	7967	
protein_coding	transcription factor 25 [Source:HGNC					
Symbol;Acc:HGNC:29181]	Others	3907	4202	3814	2544	2904
3269	24.01470619	24.99123232		29.78466489		
17.74329746	22.40521703	19.07880291				
ENSG00000172164	442.7384714	241.6036768		409.1970608		
277.6395566	167.7992987	117.3189102		364.5130697		
187.5859218	0.959432263	0.005054074		0.043483223		SNTB1
8	120535745	120813273		-	6868	
protein_coding	syntrophin beta 1 [Source:HGNC					
Symbol;Acc:HGNC:11168]						
-	488	273		147	136	
3.479511042	1.883470409	3.188740837		2.168285928		
1.31563194	0.920745574					
ENSG00000135677	3065.601014	2611.620697		3526.999666		
2586.813332	2203.079228	1888.31687		3068.073792		
2226.06981	0.462779532	0.005057125		0.043488322		GNS
12	64713445	64759447		-	6284	
protein_coding	glucosamine (N-acetyl)-6-sulfatase [Source:HGNC					
Symbol;Acc:HGNC:4422]	-	3379	2951	3034	2497	1930
2189	26.33180916	22.25150929		30.03905366		
22.07976311	18.87854384	16.19722456				
ENSG00000260916	282.1550504	287.6234248		255.748163		
152.2873688	181.4972007	158.7255843		275.1755461		
164.1700513	0.746761167	0.005061818		0.043507535		CCPG1
15	55340032	55408510		-	8790	
protein_coding	cell cycle progression 1 [Source:HGNC					
Symbol;Acc:HGNC:24227]	-	311	325	220	147	159
184	1.73260753	1.751946851		1.55718658		



0.929266975	1.111874089	0.973329679				
ENSG00000153944	1378.114217	1051.374242	1164.816633			
1074.299329	630.1034892	628.001225	1198.101697			
777.4680144	0.624177285	0.00507648	0.043612358	MSI2		
17	57255851	57684685	+ 21479			
protein_coding	musashi RNA binding protein 2 [Source:HGNC					
Symbol;Acc:HGNC:18585]	-	1519 1188	1002 1037	552		
728	3.463158746	2.620769485	2.902421685			
2.682728617	1.579691859	1.575971428				
ENSG00000266094	592.4348808	516.8371694	482.4340347			
271.4237457	415.5030255	330.3907543	530.568695			
339.1058418	0.647358413	0.005082247	0.043640711	RASSF5		
1	206507530	206589448	+ 6976			
protein_coding	Ras association domain family member 5 [Source:HGNC					
Symbol;Acc:HGNC:17609]	-	653 584	415 262	364		
383	4.583902725	3.966731601	3.701250435			
2.086925103	3.207319849	2.552838378				
ENSG00000171502	70.76557535	50.44472373	54.63710754			
12.43162194	10.27342645	26.7418104	58.61580221			
16.48228627	1.817596514	0.005085517	0.0436476			
COL24A1 1	85729233	86156943	- 9568			
protein_coding	collagen type XXIV alpha 1 chain [Source:HGNC					
Symbol;Acc:HGNC:20821]	-	78 57	47 12	9		
31	0.399210651	0.282280014	0.305621243			
0.069690266	0.057818751	0.150650836				
ENSG00000226853	0 0	0 4.14387398	13.69790194			
12.93958568	0	10.26045387	-5.835064188			
0.005092897	0.043666953	AC010894.2	2 174487389			
174488386	+ 0	791 lincRNA novel transcript				
- 0	0	0 4	12 15	0		
0	0	0.280993033	0.932507048	0.881750661		
ENSG00000126785	258.5665253	197.3539191	361.5349031			
158.5031797	159.8088559	127.6705787	272.4851159			
148.6608715	0.873320427	0.005094543	0.043666953	RH0J		
14	63204114	63293219	+ 3793			
protein_coding	ras homolog family member J [Source:HGNC					
Symbol;Acc:HGNC:688]	-	285 223	311 153	140		
148	3.679516043	2.785790552	5.101341446			
2.241406524	2.268780878	1.814303301				
ENSG00000130741	4219.624243	3490.420884	3659.523714			
3026.063974	2967.878753	2768.208696	3789.85628			
2920.717141	0.376025133	0.005095177	0.043666953	EIF2S3		
X	24054716	24077971	+ 3472			
protein_coding	eukaryotic translation initiation factor 2 subunit					
gamma [Source:HGNC	Symbol;Acc:HGNC:3267]	-	4651 3944			
3148	2921 2600	3209 65.59871113	53.82494945			
56.41074739	46.74809136	46.03000178	42.97550797			
ENSG00000183114	36.29003864	47.78973827	32.5497662			
107.7407235	78.76293614	100.9287683	38.87651437			
95.8108093	-1.298736316	0.005102363	0.043707358	FAM43B		

1	20552439	20555010	+	2572	
protein_coding	family with sequence similarity			43 member B	
[Source:HGNC Symbol;Acc:HGNC:31791]		-	40	54	28
104	69	117	0.761583823	0.994830832	
0.677320022	2.246851753	1.649018343	2.115173105		
ENSG00000013288	672.2729658	542.5020289	606.8206412		
405.0636815	471.436125	278.6324116	607.1985453		
385.0440727	0.659318886	0.005111751	0.043766586		MAN2B2
4	6575175	6623362	+	8898	protein_coding
mannosidase alpha class 2B member 2	[Source:HGNC				
Symbol;Acc:HGNC:29623]	-	741	613	522	391
323	4.078068253	3.26433344	3.649933469		413
2.441723031	2.853021277	1.687878336			
ENSG00000107937	3371.34459	3380.681485	2786.492485		
3936.680281	4016.909743	4524.541792	3179.506186		
4159.377272	-0.387363746	0.005118906	0.043806644		GTPBP4
10	988019	1019936	+	6540	protein_coding
binding protein 4	[Source:HGNC Symbol;Acc:HGNC:21535]			-	3716
3820	2397	3800	3519	5245	27.82445334
27.67655656	22.80327015	32.28627131	33.07416424		
37.29054772					
ENSG00000170345	149.6964094	127.439302	105.7867401		
511.7684365	125.5641011	227.736708	127.6408172		
288.3564152	-1.174802192	0.005124103	0.043822566		FOS
14	75278774	75282230	+	3238	
protein_coding	"Fos proto-oncogene, AP-1 transcription factor			subunit	
[Source:HGNC Symbol;Acc:HGNC:3796]"	TF_bZIP	165	144	91	
494	110	264	2.495374791	2.107230718	
1.748523182	8.477389706	2.088157253	3.791037676		
ENSG00000101361	4183.334204	5240.056302	4198.919839		
5401.539732	5971.143753	6604.364531	4540.770115		
5992.349339	-0.400121236	0.005125722	0.043822566		NOP56
20	2652145	2658393	+	5398	protein_coding
ribonucleoprotein	[Source:HGNC Symbol;Acc:HGNC:15911]			-	4611
5921	3612	5214	5231	7656	41.83029482
51.97429675	41.63146636	53.67229801	59.56610463		
65.94776211					
ENSG00000176340	1205.736534	2216.027863	2293.596025		
1004.88944	1309.291127	1391.43678	1905.120141		
1235.205782	0.624619574	0.00513108	0.043847189		COX8A
11	63974607	63976543	+	507	
protein_coding	cytochrome c oxidase subunit 8A			[Source:HGNC	
Symbol;Acc:HGNC:2294]	-	1329	2504	1973	970
1613	128.3647281	234.0199089	242.1173838		1147
106.3104162	139.0601901	147.9303982			
ENSG00000254838	13.60876449	23.89486913	19.76235805		0
3.424475485	0	19.08866389	1.141491828		
4.149810214	0.005152511	0.044009063	GVINP1	11	
6713536	6746439	-	8438	transcribed_unprocessed_pseudogene	
	"GTPase, very large interferon inducible pseudogene 1				

[Source:HGNC Symbol;Acc:HGNC:25813]"	-	15	27	17
0	3	0	0.087052334	0.151617972
0.125347665	0	0.021853907	0	
ENSG00000075568	640.519182	628.3465587	694.007515	
559.4229872	364.1358932	320.0390858	654.2910852	
414.5326554	0.658920057	0.005176926	0.044192636	
TMEM131	2	97756333	97995891	- 12985
protein_coding	transmembrane protein 131	[Source:HGNC		
Symbol;Acc:HGNC:30366]	-	706	710	597 540 319
371	2.662511122	2.590853375	2.86048203	
2.310807931	1.510066556	1.328504329		
ENSG00000134954	2995.74269	2735.520018	3538.624582	
2643.791599	2221.343098	1868.476172	3089.96243	
2244.536956	0.461161532	0.005179	0.044192636	ETS1
11	128458761	128587558	- 7149	
protein_coding	"ETS proto-oncogene 1, transcription factor			
[Source:HGNC Symbol;Acc:HGNC:3488]"	ETS	3302	3091	3044
2552	1946	2166	22.6183258	20.48708403
26.49147853	19.83569476	16.73188608	14.08783231	
ENSG00000233927	870.0536764	1297.402894	1291.528223	
1729.031418	1418.874342	1840.009084	1152.994931	
1662.638281	-0.528917532	0.00518506	0.044223009	RPS28
19	8321158	8323340	+	2119 protein_coding
ribosomal protein S28	[Source:HGNC Symbol;Acc:HGNC:10418]			-
959	1466	1111	1669	1243 2133 22.16237678
32.78154774	32.62045007	43.7660572	36.05682916	
46.80485637				
ENSG00000124217	510.7822938	587.6367817	562.6459585	
622.6170654	870.9582649	1006.699766	553.6883447	
833.4250321	-0.590620594	0.005191143	0.044233907	MOCS3
20	50958826	50963931	+	5106
protein_coding	molybdenum cofactor synthesis 3	[Source:HGNC		
Symbol;Acc:HGNC:15765]	-	563	664	484 601 763
1167	5.399533847	6.161886716	5.897546825	
6.540421013	9.185252251	10.62725407		
ENSG00000125247	243.1432589	226.5587592	269.6980628	
340.8336348	530.7937001	350.2314524	246.4666936	
407.2862624	-0.724276833	0.005195292	0.044233907	TMTC4
13	100603927	100675093	-	6272
protein_coding	transmembrane and tetratricopeptide repeat containing			
4	[Source:HGNC Symbol;Acc:HGNC:25904]	-	268	256 232
329	465	406	2.092461268	1.934017308
2.30138237	2.914753899	4.55715986	3.009892619	
ENSG00000182973	1480.633576	1477.941906	1382.202572	
1955.908518	1745.341005	2022.025922	1446.926018	
1907.758482	-0.398954804	0.005196177	0.044233907	CNOT10
3	32685145	32773875	+	4846
protein_coding	CCR4-NOT transcription complex subunit 10	[Source:HGNC		
Symbol;Acc:HGNC:23817]	-	1632	1670	1189 1888 1529
2344	16.49170008	16.32899673	15.26529816	

21.64864026	19.39418061	22.49081616				
ENSG00000137275	1579.523932	1635.471043	1547.276386			
1909.289936	2354.897642	2046.179815	1587.423787			
2103.455798	-0.405671587	0.005197413	0.044233907	RIPK1		
6	3063991	3115187	+	4231	protein_coding	
receptor interacting serine/threonine kinase 1 [Source:HGNC						
Symbol;Acc:HGNC:10019]	-	1741	1848	1331	1843	2063
2372	20.15043516	20.69595076	19.57230058			
24.20440179	29.97116074	26.06769779				
ENSG00000111843	2849.675284	2981.548671	3778.097862			
2771.215724	2252.163377	1596.744873	3203.107272			
2206.707991	0.537717989	0.005198841	0.044233907			
TMEM14C	6	10722915	10731129	+	1321	
protein_coding transmembrane protein 14C [Source:HGNC						
Symbol;Acc:HGNC:20952]	-	3141	3369	3250	2675	1973
1851	116.4377494	120.8438726	153.0690511			
112.5208521	91.80611887	65.15303022				
ENSG00000164754	9661.315537	7720.697716	9446.407147			
7662.022988	6754.207147	5848.692727	8942.8068			
6754.974288	0.404824688	0.005210559	0.044299635	RAD21		
8	116845935	116874866	-	6192		
protein_coding RAD21 cohesin complex component [Source:HGNC						
Symbol;Acc:HGNC:9811]	-	10649	8724	8126	7396	5917
6780	84.21831789	66.75920405	81.64934722			
66.37094458	58.73784134	50.91312616				
ENSG00000143198	997.0688116	1099.16398	1235.728624			
885.7530631	811.6006898	590.045107	1110.653805			
762.4662866	0.543262174	0.005211574	0.044299635	MGST3		
1	165630861	165661796	+	8401		
protein_coding microsomal glutathione S-transferase 3 [Source:HGNC						
Symbol;Acc:HGNC:7064]	-	1099	1242	1063	855	711
684	6.406124744	7.005143754	7.872435778			
5.655189648	5.202187201	3.785786648				
ENSG00000139278	1803.61492	1425.727192	1427.539746			
1430.672491	724.8473109	835.8972349	1552.293953			
997.1390124	0.638681756	0.005214448	0.044302772	GLIPR1		
12	75480680	75503853	+	6273		
protein_coding GLI pathogenesis related 1 [Source:HGNC						
Symbol;Acc:HGNC:17001]	-	1988	1611	1228	1381	635
969	15.51921594	12.16877031	12.17951307			
12.23292843	6.222226239	7.182564053				
ENSG00000270562	14.51601546	23.89486913	0	0	0	
0	12.8036282	0	6.115670274	0.00521854		
0.044316254	AC097634.1	3	71584943			
71587409	+	2467	lincRNA novel transcript	-		
16	27	0	0	0	0.317599285	
0.518586319	0	0	0	0		
ENSG00000047644	1077.814148	1072.614126	1345.002839			
910.616307	551.340553	865.2269624	1165.143704			
775.7279408	0.585366496	0.005234662	0.044427697	WWC3		

X	10015562	10144478	+	7114	
protein_coding	WWC family member 3 [Source:HGNC				
Symbol;Acc:HGNC:	29237]	-	1188	1212	1157 879 483
1003	8.177701676	8.07263283	10.11873785		
6.865735334	4.173309847	6.555685192			
ENSG00000167363	104.3338611	96.46447169	110.4367067		
281.7834306	216.8834474	127.6705787	103.7450132		
208.7791522	-1.007988357	0.005236687	0.044427697		FN3K
17	82735575	82751197	+	3872	
protein_coding	fructosamine 3 kinase [Source:HGNC				
Symbol;Acc:HGNC:	24822]	-	115	109	95 272 190
148	1.454424478	1.333882547	1.526494006		
3.903422841	3.016238038	1.777286266			
ENSG00000130830	1056.040124	977.9196442	1162.49165		
793.5518671	835.5720182	492.5668949	1065.483806		
707.2302601	0.59240295	0.005253502	0.044548995		MPP1
X	154778684	154821007	-	5396	
protein_coding	membrane palmitoylated protein 1 [Source:HGNC				
Symbol;Acc:HGNC:	7219]	-	1164	1105	1000 766 732
571	10.56354588	9.7032401	11.53014863		
7.888035787	8.338472489	4.920340809			
ENSG00000119681	1817.223685	1338.112672	1435.677188		
1246.270099	1027.342645	992.8975411	1530.337848		
1088.836762	0.491430537	0.005256463	0.04455274		LTBP2
14	74498170	74612378	-	9091	
protein_coding	latent transforming growth factor beta binding protein				
2 [Source:HGNC	Symbol;Acc:HGNC:	6715]	-	2003	1512 1235
1203	900	1151	10.78941692	7.880732282	
8.45205173	7.353024503	6.085247013	5.887008786		
ENSG00000149269	1530.53238	1488.561848	1456.602037		
2072.972958	2174.541933	1727.003369	1491.898755		
1991.506087	-0.416094684	0.005265251	0.044587091		PAK1
11	77321707	77474635	-	6299	
protein_coding	p21 (RAC1) activated kinase 1 [Source:HGNC				
Symbol;Acc:HGNC:	8590]	-	1687	1682	1253 2001 1905
2002	13.11511665	12.65263046	12.37617123		
17.65174008	18.5896294	14.77826612			
ENSG00000197956	4597.947896	8144.610394	11487.74248		
4055.816658	4168.728156	3950.024188	8076.766925		
4058.189667	0.992880139	0.005267635	0.044587091		S100A6
1	153534599	153536244	-	971	
protein_coding	S100 calcium binding protein A6 [Source:HGNC				
Symbol;Acc:HGNC:	10496]	-	5068	9203	9882 3915 3652
4579	255.5912958	449.093359	633.1876947		
224.0394925	231.1845991	219.2716233			
ENSG00000106211	5494.31185	7814.507202	8151.391449		
7564.64195	10717.46677	12566.06297	7153.4035		
10282.7239	-0.523672457	0.005270037	0.044587091		HSPB1
7	76302544	76304295	+	1634	
protein_coding	heat shock protein family B (small) member 1				

[Source:HGNC Symbol;Acc:HGNC:5246]	-	6056	8830	7012
7302	9389	14567	181.4940943	256.0560798
266.9910491	248.3143512	353.1950815	414.5234329	
ENSG00000053501	434.5732127	490.2873148	598.6831997	
724.1419779	652.9333257	908.3589147	507.8479091	
761.8114061	-0.587361612	0.005270598	0.044587091	USE1
19	17215346	17219829	+ 2431	
protein_coding	unconventional SNARE in the ER 1	[Source:HGNC		
Symbol;Acc:HGNC:30882]	-	479	554	515 699 572
1053	9.64893183	10.79819701	13.18041597	
15.97733203	14.46300146	20.14069397		
ENSG00000198929	13.60876449	15.92991276	2.3249833	0
0	0	10.62122018	0	5.846234921
0.005296563	0.044785326	NOS1AP 1	162069774	
162370475	+ 7771	protein_coding	nitric oxide synthase	
1 adaptor protein	[Source:HGNC	Symbol;Acc:HGNC:16859]	-	15
18	2	0	0	0.094524205
0.109754425	0.016012529	0	0	0
ENSG00000106554	1882.545754	1876.189725	2035.522879	
1500.082381	1364.082735	1544.123891	1931.419453	
1469.429669	0.39378479	0.005307219	0.044853987	CHCHD3
7	132784868	133082088	- 3428	
protein_coding	coiled-coil-helix-coiled-coil-helix domain containing			
3 [Source:HGNC	Symbol;Acc:HGNC:21906]	-	2075	2120 1751
1448	1195	1790	29.64189546	29.30363448
31.77987462	23.4714431	21.42764547	24.2796955	
ENSG00000134905	1685.672295	1922.209473	1754.1999	
2107.159919	2519.272465	2455.070723	1787.360556	
2360.501035	-0.401146155	0.005311552	0.044869171	CARS2
13	110641412	110713603	- 10460	
protein_coding	"cysteinyl-tRNA synthetase 2, mitochondrial			
[Source:HGNC	Symbol;Acc:HGNC:25695]"	-	1858	2172 1509
2034	2207	2846	8.698466769	9.839081936
8.975618848	10.80516263	12.96934397	12.65127306	
ENSG00000117501	1.814501932	1.769990306	2.3249833	
23.82727538	9.131934625	27.60444945	1.969825179	
20.18788649	-3.369797681	0.005316631	0.044890636	MROH9
1	170935471	171064765	+ 3831	
protein_coding	maestro heat like repeat family member 9	[Source:HGNC		
Symbol;Acc:HGNC:26287]	-	2	2	2 23 8
32	0.025565043	0.024736844	0.032480648	
0.333601295	0.128358666	0.38839072		
ENSG00000176407	1268.33685	1323.952749	1476.364395	
1998.383227	1700.822824	1737.355037	1356.217998	
1812.187029	-0.418630352	0.005349006	0.045142447	KCMF1
2	84971093	85059472	+ 7968	
protein_coding	potassium channel modulatory factor 1	[Source:HGNC		
Symbol;Acc:HGNC:20589]	-	1398	1496	1270 1929 1490
2014	8.591846898	8.89628544	9.916564526	
13.4522505	11.49434698	11.75279494		

ENSG00000135845	703.1194986	747.8209044	654.4827989	
511.7684365	483.9925351	486.5284215	701.807734	
494.0964644	0.506844645	0.005393126	0.045493085	PIGC
1	172370189	172444086	- 5225	
protein_coding	phosphatidylinositol glycan anchor biosynthesis class			
C [Source:HGNC Symbol;Acc:HGNC:8960]	-	775	845	563
494	424 564	7.263469066	7.66296523	
6.703921908	5.253547917	4.988005481	5.01907664	
ENSG00000175606	937.1902479	1183.23852	956.7306279	
1366.442445	1467.958491	1371.596082	1025.719798	
1401.999006	-0.450182672	0.005396649	0.045496572	TMEM70
8	73972437	73982783	+ 2982	
protein_coding	transmembrane protein 70 [Source:HGNC			
Symbol;Acc:HGNC:26050]	-	1033 1337	823 1319	1286
1590	16.96373057	21.24468074	17.17113658	
24.57815055	26.50822753	24.79251036		
ENSG00000124541	2153.813793	2339.04219	2242.446393	
2616.856418	3128.829101	3020.961937	2245.100792	
2922.215819	-0.380243901	0.005398683	0.045496572	RRP36
6	43021645	43034156	+ 2212	
protein_coding	ribosomal RNA processing 36 [Source:HGNC			
Symbol;Acc:HGNC:21374]	-	2374 2643	1929 2526	2741
3502	52.55623859	56.61590858	54.25677197	
63.45418453	76.16777568	73.61427466		
ENSG00000101003	1248.377329	1139.873757	1196.203908	
1061.867707	739.6867047	568.4791308	1194.818331	
790.0111809	0.597596267	0.005422391	0.045674609	GINS1
20	25407727	25452628	+ 4068	
protein_coding	GINS complex subunit 1 [Source:HGNC			
Symbol;Acc:HGNC:28980]	-	1376 1288	1029 1025	648
659	16.56403629	15.00242138	15.73770054	
14.00086812	9.791324	7.532436661		
ENSG00000069188	15.42326642	7.964956378	6.974949899	0
0	0 10.12105757	0	5.774008772	
0.005428721	0.04570616	SDK2 17	73334384	
73644089	- 11607	protein_coding	sidekick cell adhesion	
molecule 2 [Source:HGNC Symbol;Acc:HGNC:19308]	-	17	9	
6	0 0	0 0.071722864	0.03674083	
0.032161635	0 0	0 0		
ENSG00000125885	1694.744804	1323.067754	1107.854542	
1179.968116	777.355935	781.550975	1375.222367	
912.9583419	0.59171935	0.005442114	0.04579712	MCM8
20	5950652 5998977	+ 7691	protein_coding	
minichromosome maintenance 8 homologous recombination repair factor				
[Source:HGNC Symbol;Acc:HGNC:16147]	-	1868	1495	953
1139	681 906	11.89385786	9.210534256	
7.709335321	8.229111681	5.442665711	5.477424556	
ENSG00000177084	3847.651347	3519.625724	3073.627922	
2684.19437	2679.081321	2673.318401	3480.301664	
2678.864697	0.377907448	0.005468645	0.045998506	POLE

12	132623753	132687365	-	16609	
protein_coding	"DNA polymerase epsilon, catalytic subunit [Source:HGNC Symbol;Acc:HGNC:9177]"				
2591	2347	3099	-	4241	3977 2644
9.904323392	8.668340681	8.685942793	12.50412973	11.34588943	
ENSG00000135763	575.1971124	576.1318447	8.675791559	573.1083834	
780.0842767	690.602556	1104.177978	574.8124468		
858.2882702	-0.579615896	0.005474771	0.046015266		URB2
1	229626234	229660199	+	6001	
protein_coding	URB2 ribosome biogenesis 2 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:HGNC:28967]				
753	605	1280	-	634	651 493
5.11128549	6.972417642	6.196965925	5.173617473	5.140244803	
ENSG00000177707	1715.611577	1402.717318	9.917846012	1556.576319	
1406.845216	950.8626929	727.2047152	1558.301738		
1028.304208	0.600284316	0.00547584	0.046015266		
NECTIN3	3	111070071	111275563	+	6184
protein_coding	nectin cell adhesion molecule 3 [Source:HGNC Symbol;Acc:HGNC:17664]				
843	14.97444488	12.14468421	1891	1585	1339 1358 833
12.20231783	8.279857848	6.338538198	13.47156164		
ENSG00000170989	9.979760626	10.61994184	9.299933199		0
0	0	9.966545221	0	5.750597865	
0.005512301	0.046281729	S1PR1	1	101236865	
101243713	+	5223	protein_coding	sphingosine-1-phosphate receptor 1 [Source:HGNC Symbol;Acc:HGNC:3165]	- 11
12	8	0	0	0	0.103133877
0.108864846	0.095296469	0	0	0	
ENSG00000069424	342.0336142	452.2325232	403.3846025		
534.5597434	711.149409	569.3417699	399.2169133		
605.0169741	-0.599103781	0.005515393	0.046281729		KCNAB2
1	5991466	6101193	+	9534	protein_coding
potassium voltage-gated channel subfamily A regulatory beta subunit 2 [Source:HGNC Symbol;Acc:HGNC:6229]			-	377	511 347
516	623	660	1.936399163	2.539640203	
2.264441856	3.007368162	4.016615495	3.218843087		
ENSG00000073969	1574.987677	1179.698539	1520.539078		
1220.370887	938.3062828	684.9354019	1425.075098		
947.8708572	0.588791269	0.005515399	0.046281729		NSF
17	46590669	46757464	+	5005	
protein_coding	"N-ethylmaleimide sensitive factor, vesicle fusing ATPase [Source:HGNC Symbol;Acc:HGNC:8016]"				
1308	1178	822	794	16.98534305	12.61980105 1333
16.25962439	13.07835893	10.09520392	7.376450608		
ENSG00000058063	1691.115801	1422.187211	1497.289245		
1199.651517	1127.793926	1121.430759	1536.864086		
1149.625401	0.418976971	0.005531438	0.04639431		ATP11B
3	182793500	182921635	+	9196	
protein_coding	ATPase phospholipid transporting 11B (putative) [Source:HGNC Symbol;Acc:HGNC:13553]				
			-	1864	1607 1288



1158	988	1300	9.92603104	8.280248201	
8.71412423	6.997157352		6.603973809	6.573178224	
ENSG00000260260	40.82629347		87.61452016	83.69939879	
26.93518087	21.68834474		21.56597613	70.71340414	
23.39650058	1.594950946		0.005539789	0.046422769	SNHG19
16	2154797	2155358	-	342	lincRNA small
nucleolar RNA host gene 19	[Source:HGNC Symbol;Acc:HGNC:49574] -				
45	99	72	26	19	25
13.71625433		13.09824884		4.224344086	3.414875346
3.398951133					
ENSG00000129824	3663.479401		3922.298519	3768.797929	
4590.376401	4962.064977		4762.630169	3784.858616	
4771.690516	-0.334194503		0.005540079	0.046422769	RPS4Y1
Y	2841486	2932000	+	2275	protein_coding
ribosomal protein S4 Y-linked 1	[Source:HGNC Symbol;Acc:HGNC:10425]				
-	4038	4432	3242	4431	4347 5521
86.91877505	92.30915842		88.66219036	108.2261957	
117.4506973	112.8411138				
ENSG00000268628	3.629003864		27.43484975	2.3249833	0
0	0	11.1296123	0	5.913752349	
0.005551019	0.046484611		AL121761.1	20	19756390
19758037	-		1648	lincRNA	novel transcript
-	4	31	2	0	0 0
0.118858835	0.891314409		0.075505682	0	0 0
ENSG00000226380	29.03203091		61.94966072	15.11239145	
121.2083139	65.06503421		128.5332177	35.36469436	
104.935522	-1.561610448		0.005552715	0.046484611	LINC-
PINT 7	130876809		130913310	-	6619
lincRNA "long intergenic non-protein coding RNA, p53 induced transcript [Source:NCBI gene;Acc:378805]"	- 32 70				
13	117	57	149	0.236747979	0.501108881
0.122196233	0.982212653		0.529334054	1.046706462	
ENSG00000092199	10104.05401		11042.08453	12542.12241	
8816.091892	8740.402928		8948.154817	11229.42031	
8834.883212	0.345868756		0.005569451	0.046602654	HNRNPC
14	21209136		21269494	-	7309
protein_coding heterogeneous nuclear ribonucleoprotein C (C1/C2)	[Source:HGNC Symbol;Acc:HGNC:5035] - 11137 12477 10789				
8510	7657	10373	74.61719882	80.88698617	
91.83961994	64.69692536		64.39439176	65.98989451	
ENSG00000172936	1057.854626		1185.00851	1009.042752	
1292.888682	1795.566646		1439.744567	1083.968629	
1509.399965	-0.476827148		0.005610954	0.046927738	MYD88
3	38138478		38143022	+	3989
protein_coding "MYD88, innate immune signal transduction adaptor [Source:HGNC Symbol;Acc:HGNC:7562]"	- 1166 1339 868				
1248	1573	1669	14.31407201	15.90534089	
13.53825018	17.38451554		24.23885198	19.45464536	
ENSG00000159202	3746.946489		4412.585833	4073.370741	
4487.81552	5704.034665		6009.143589	4077.634355	

5400.331258	-0.405378437	0.005614151	0.046932287	UBE2Z
17	48908369	48929056	+ 5753	
protein_coding	ubiquitin conjugating enzyme E2 Z [Source:HGNC			
Symbol;Acc:HGNC:25847]	-	4130 4986	3504 4332	4997
6966	35.15477812	41.06618327	37.89453394	
41.84139134	53.39029686	56.30151927		
ENSG00000183137	367.4366412	310.6332987	352.2349699	
200.977888	247.7037267	188.0553119	343.43497	
212.2456422	0.695855324	0.005624595	0.046979718	
CEP57L1 6	109095110	109163932	+ 6432	
protein_coding	centrosomal protein 57 like 1 [Source:HGNC			
Symbol;Acc:HGNC:21561]	-	405 351	303 194	217
218	3.0834554	2.585755884	2.930916456	
1.675975778	2.073772248	1.575946522		
ENSG00000075391	1873.473245	1831.054972	1393.827488	
2347.504609	2143.721653	2411.076132	1699.451902	
2300.767465	-0.436480754	0.005627377	0.046979718	RASAL2
1	178094141	178484147	+ 16044	
protein_coding	RAS protein activator like 2 [Source:HGNC			
Symbol;Acc:HGNC:9874]	-	2065 2069	1199 2266	1878
2795	6.302837151	6.110465244	4.649576273	
7.848005448	7.194991659	8.100282719		
ENSG00000259330	409.1701857	437.1876056	437.0968604	
318.0423279	232.8643329	274.3192164	427.8182172	
275.0752924	0.636322759	0.005631214	0.046979718	INAFM2
15	40323664	40326715	+ 3052	
protein_coding	InaF motif containing 2 [Source:HGNC			
Symbol;Acc:HGNC:35165]	-	451 494	376 307	204
318	7.236368861	7.669531941	7.664964755	
5.589408999	4.108591831	4.84477496		
ENSG00000034152	1406.238997	1795.655166	1613.53841	
1878.210881	2131.165243	2670.730484	1605.144191	
2226.702203	-0.4725912	0.00563273	0.046979718	MAP2K3
17	21284672	21315240	+ 3783	
protein_coding	mitogen-activated protein kinase kinase 3 [Source:HGNC			
Symbol;Acc:HGNC:6843]	-	1550 2029	1388 1813	1867
3096	20.06430128	25.41394856	22.82758515	
26.63014348	30.33579193	38.05358949		
ENSG00000151466	413.7064405	253.1086138	288.2979292	
252.7763128	130.1300684	94.89029498	318.3709945	
159.2655587	1.001216119	0.005633104	0.046979718	SCLT1
4	128864921	129093607	- 8292	
protein_coding	sodium channel and clathrin linker 1 [Source:HGNC			
Symbol;Acc:HGNC:26406]	-	456 286	248 244	114
110	2.69298685	1.634305268	1.860798015	
1.635093442	0.845070455	0.616828469		
ENSG00000149636	772.070572	724.8110304	723.0698062	
654.7320888	372.126336	384.7370142	739.9838029	
470.531813	0.653538585	0.005637456	0.046993854	DSN1
20	36751791	36773818	- 2739	



0.687197647	1.389705793	1.114146625			
ENSG00000225706	8.165258694	8.849951531	12.78740815	0	
0	0	9.934206125	0	5.743802236	
0.005714538	0.047479788	PTPRD-AS1	9	8858130	
8862255 +	2494	lincRNA PTPRD antisense RNA 1 [Source:HGNC			
Symbol;Acc:HGNC:49753]	-	9	10	11	0
0	0.176715541	0.189989671	0.27441199	0	
0	0				
ENSG00000110330	2954.009145	2429.311695	2726.042919		
2011.850817	2199.654753	1988.382999	2703.121253		
2066.629523	0.387508718	0.005733258	0.047597222		BIRC2
11	102347211	102378670	+	4532	
protein_coding	baculoviral IAP repeat containing 2 [Source:HGNC				
Symbol;Acc:HGNC:590]	-	3256	2745	2345	1942
2305	35.18221502	28.6998012	32.19287716		1927
23.8106564	26.13600314	23.64896			
ENSG00000119900	1627.608233	1243.41819	1531.001503		
1156.14084	1066.153368	976.5073993	1467.342642		
1066.267202	0.460726444	0.005735151	0.047597222		OGFRL1
6	71288803	71308950	+	9075	
protein_coding	opioid growth factor receptor like 1 [Source:HGNC				
Symbol;Acc:HGNC:21378]	-	1794	1405	1317	1116
1132	9.680649329	7.335946093	9.029131703		934
6.833286102	6.326268243	5.800037631			
ENSG00000136044	1450.694295	1439.887114	1560.063794		
2100.944108	1904.008369	1833.107971	1483.548401		
1946.020149	-0.391646951	0.005736953	0.047597222		APPL2
12	105173296	105236238	-	5124	
protein_coding	"adaptor protein, phosphotyrosine interacting with PH				
domain and leucine zipper 2 [Source:HGNC	Symbol;Acc:HGNC:18242]"				
-	1599	1627	1342	2028	1668
15.2815718	15.04543929	16.29484529	21.99231125		
20.0094101	19.28327663				
ENSG00000182324	148.7891584	110.6243941	80.21192384		
137.7838098	198.6195781	405.4403513	113.2084921		
247.2812464	-1.12680606	0.005739436	0.047597222		KCNJ14
19	48455509	48466980	+	4340	
protein_coding	potassium voltage-gated channel subfamily J member 14				
[Source:HGNC	Symbol;Acc:HGNC:6260]	-	164	125	69
133	174	470	1.85047321	1.364729956	
0.98915923	1.702840438	2.46437548	5.035459955		
ENSG00000173812	8997.20783	11444.75732	12186.39997		
14330.55219	13316.64367	14919.34229	10876.12171		
14188.84605	-0.383724626	0.005753681	0.047692997		EIF1
17	41688885	41692668	+	3623	
protein_coding	eukaryotic translation initiation factor 1				
[Source:HGNC	Symbol;Acc:HGNC:3249]	-	9917	12932	10483
13833	11666	17295	134.041927	169.1312282	
180.0213849	212.1583292	197.9251571	221.9643618		
ENSG00000206503	2022.262403	2808.974616	3832.73497		

1421.348775	2542.102301	1580.354731	2887.990663	
1847.935269	0.644221991	0.005759383	0.047710658	HLA-A
6	29941260	29945884	+ 2710	
protein_coding	"major histocompatibility complex, class I, A [Source:HGNC Symbol;Acc:HGNC:4931]"			
	-	2229	3174	3297
1372	2227	1832	40.27814501	55.49630552
75.69313674	28.13175744	50.51243288	31.43309873	
ENSG00000184378	41.73354444	53.09970919	26.73730795	
70.44585765	113.007691	125.0826616	40.52352052	
102.8454034	-1.338243358	0.005763217	0.047710658	ACTRT3
3	169766921	169769895	- 2005	
protein_coding	actin related protein T3 [Source:HGNC Symbol;Acc:HGNC:24022]			
	-	46	60	23
				68
145	1.123497572	1.417957827	0.713707574	99
1.884545292	3.035066267	3.362673051		
ENSG00000087302	1567.729669	1691.225738	1806.512024	
1341.579201	1122.086467	1317.249822	1688.489144	
1260.305163	0.421218942	0.005767299	0.047710658	RTRAF
14	51989475	52010691	+ 8323	
protein_coding	"RNA transcription, translation and transport factor [Source:HGNC Symbol;Acc:HGNC:23169]"			
	-	1728	1911	1554
1295	983	1527	10.16699306	10.87945733
11.61657141	8.645734952	7.2597386	8.530807863	
ENSG00000173705	158.768919	176.1140355	259.2356379	
96.34507003	130.1300684	64.6979284	198.0395308	
97.05768894	1.031385775	0.005768749	0.047710658	SUSD5
3	33150042	33219215	- 5008	
protein_coding	sushi domain containing 5 [Source:HGNC Symbol;Acc:HGNC:29061]			
	-	175	199	223
				93
75	1.711206464	1.882847721	2.770431327	114
1.031883509	1.39922608	0.696350612		
ENSG00000172340	1809.058426	1643.435999	1741.412492	
1519.765782	1187.151501	1018.776712	1731.302306	
1241.897999	0.479749042	0.005769297	0.047710658	SUCLG2
3	67360460	67654614	- 3090	
protein_coding	succinate-CoA ligase GDP-forming beta subunit [Source:HGNC Symbol;Acc:HGNC:11450]			
	-	1994	1857	1498
1467	1040	1181	31.60060214	28.47605776
30.16200312	26.38053981	20.68817685	17.7714325	
ENSG00000277203	260.3810272	215.9388174	296.4353707	
325.2941074	366.4188768	659.9188696	257.5850718	
450.5439513	-0.809616348	0.005772688	0.047716393	F8A1
X	154886349	154888061	+ 1713	
protein_coding	coagulation factor VIII associated 1 [Source:HGNC Symbol;Acc:HGNC:3547]			
	-	287	244	255
				314
765	8.204520742	6.749302668	9.261677706	321
10.18554633	11.51847621	20.76515084		
ENSG00000119720	308.4653284	353.9980612	282.4854709	
437.1787048	547.9160775	461.5118892	314.9829535	
482.2022239	-0.612520677	0.005781887	0.047753336	NRDE2

14	90267856	90332137	-	17565			
protein_coding	"NRDE-2, necessary for RNA interference, domain containing [Source:HGNC Symbol;Acc:HGNC:20186]"				-	340	400
243	422	480	535	0.947893285	1.079041823		
	0.860726088	1.33498486	1.679733731	1.416239314			
ENSG00000180611	107.962865	143.3692148	152.2864061				
174.0427071	288.7974325	282.0829678	134.5394953				
248.3077025	-0.885780831	0.005782557	0.047753336		MB21D2		
3	192796815	192918161	-	3368			
protein_coding	Mab-21 domain containing 2 [Source:HGNC Symbol;Acc:HGNC:30438]				-	119	162
			131	168	253		
327	1.730228901	2.279131442	2.419948142				
2.771719279	4.617381925	4.514469133					
ENSG00000161204	1168.539244	1465.551974	1103.204576				
1607.823104	1602.654527	1953.014799	1245.765264				
1721.164143	-0.466154444	0.005822114	0.04805757		ABCF3		
3	184186023	184194012	+	5207			
protein_coding	ATP binding cassette subfamily F member 3 [Source:HGNC Symbol;Acc:HGNC:72]				-	1288	1656
			949	1552	1404		
2264	12.11314648	15.06951224	11.33928005				
16.56212976	16.57398305	20.21714672					
ENSG00000250906	0	0	0	3.107905485	12.55641011		
	14.66486377	0	10.10972645	-5.814609078			
0.005827288	0.048077844	AC131953.1	4	40812779			
40826151	+	477	antisense	novel			
transcript	-	0	0	3	11	17	
	0	0	0.349474039	1.417495426			
1.657149005							
ENSG00000022840	2053.108936	2113.368426	2413.332665				
2566.093962	3102.574789	2981.28054	2193.270009				
2883.31643	-0.395011051	0.005868288	0.048393543		RNF10		
12	120533480	120577594	+	5911			
protein_coding	ring finger protein 10 [Source:HGNC Symbol;Acc:HGNC:10055]				-	2263	2388
			2076	2477	2718		
3456	18.74788488	19.14255061	21.85109657				
23.2850455	28.26414505	27.18590485					
ENSG00000131873	1720.147831	1564.671431	2041.335337				
1378.874067	1362.941243	1173.189102	1775.384866				
1305.00147	0.443922029	0.005874986	0.048412247		CHSY1		
15	101175723	101251932	-	5555			
protein_coding	chondroitin sulfate synthase 1 [Source:HGNC Symbol;Acc:HGNC:17198]				-	1896	1768
			1756	1331	1194		
1360	16.71409835	15.08080895	19.66741559				
13.31392284	13.21197136	11.38376346					
ENSG00000135045	913.6017227	892.0751143	1074.142285				
800.8036466	607.2736526	596.0835803	959.9397072				
668.0536265	0.52261427	0.005876392	0.048412247				
C9orf40	9	74946581	74952886	-	2327		
protein_coding	chromosome 9 open reading frame 40 [Source:HGNC Symbol;Acc:HGNC:23433]				-	1007	1008
			924	773	532		

691	21.19150353	20.52535086	24.70486213	
18.4584468	14.05279171	13.80742466		
ENSG00000158747	437.2949656	819.5055118	1526.351536	
438.2146733	562.7554713	519.3087053	927.7173379	
506.7596166	0.871268415	0.005878914	0.048412247	NBL1
1	19596979	19658456	+ 3596	
protein_coding	"NBL1, DAN family BMP antagonist [Source:HGNC Symbol;Acc:HGNC:7650]"			-
		482 926	1313 423	493
602	6.563810567	12.201627	22.71704768	
6.536311302	8.427031095	7.7840896		
ENSG00000106615	1620.350225	1715.120607	1501.939212	
1323.967736	1038.757564	1215.458415	1612.470015	
1192.727905	0.434946833	0.005881504	0.048412247	RHEB
7	151466012	151520120	- 3535	
protein_coding	"Ras homolog, mTORC1 binding [Source:HGNC Symbol;Acc:HGNC:10011]"			-
		1786 1938	1292 1278	910
1409	24.74119772	25.97710773	22.73944926	
20.08877615	15.82338279	18.53329306		
ENSG00000232480	3.629003864	10.61994184	16.2748831	0
0	0	10.1746096	0	5.776756054
0.00589095	0.048466354	TGFB2-AS1	1	218344196
218345678	-	557 antisense	TGFB2	
antisense RNA 1 (head to head)	[Source:HGNC Symbol;Acc:HGNC:50628]			
-	4 12	14 0	0 0	
0.351668509	1.020827807	1.563794521	0 0	0
ENSG00000051108	1754.623368	1993.89408	1641.43821	
3268.480601	2032.996946	2331.713339	1796.651886	
2544.396962	-0.501793095	0.005898286	0.048466354	
HERPUD1 16	56932048	56944863	+ 5155	
protein_coding	homocysteine inducible ER protein with ubiquitin like domain 1 [Source:HGNC Symbol;Acc:HGNC:13744]			-
		1412 3155 1781 2703	18.37200199 20.70899212	2253
	17.04169835	34.00812886	21.23648377	24.38082483
ENSG00000251669	75.30183018	116.8193602	72.07448229	
203.049825	176.9312334	147.5112767	88.06522423	
175.8307784	-0.993678912	0.005898944	0.048466354	
FAM86EP 4	3941760 3955419	- 3476		
transcribed_unprocessed_pseudogene	"family with sequence similarity 86 member E, pseudogene [Source:HGNC Symbol;Acc:HGNC:28017]"			-
		83 132	62 196	155
171	1.16930285	1.799370534	1.109733684	
3.133201655	2.740938497	2.28742762		
ENSG00000113387	3227.091686	3196.602493	3408.425517	
2756.712165	2513.565006	2401.587102	3277.373232	
2557.288091	0.357930734	0.005899037	0.048466354	SUB1
5	32531633	32604079	+ 9324	
protein_coding	"SUB1 homolog, transcriptional regulator [Source:HGNC Symbol;Acc:HGNC:19985]"			PC4
		3557 3612	2932 2661	2202
2784	18.68143718	18.35574085	19.56449074	
15.85822785	14.51651643	13.88346866		

ENSG00000104763	1222.974302	1140.758752	1275.25334		
1027.680747	838.9964937	531.3856519	1212.995465		
799.3542975	0.602601438	0.005923708	0.048646456	ASAH1	
8	18055992	18084998	-	15378	
protein_coding	N-acylsphingosine amidohydrolase 1 [Source:HGNC				
Symbol;Acc:HGNC:735]	-	1348	1289	1097	992
616	4.292583177	3.971728028	4.438268966	735	
3.584460998	2.937885344	1.86256687			
ENSG00000130702	137.9021468	129.2092924	642.8578824		
21.75533839	81.0459198	8.626390453	303.3231072		
37.14254955	3.032925473	0.005952231	0.048858012	LAMA5	
20	62307955	62367312	-	14291	
protein_coding	laminin subunit alpha 5 [Source:HGNC				
Symbol;Acc:HGNC:6485]	-	152	146	553	21
10	0.520846383	0.484079484	2.407516979	71	
0.081652356	0.305381757	0.032536318			
ENSG00000067369	1342.73143	1092.969014	1188.066466		
1004.88944	716.8568681	841.9357082	1207.922303		
854.5606721	0.498970821	0.005956744	0.048862776		
TP53BP1	15	43403061	43510728	-	12991
protein_coding	tumor protein p53 binding protein 1 [Source:HGNC				
Symbol;Acc:HGNC:11999]	-	1480	1235	1022	970
976	5.578890228	4.504543816	4.894576939	628	
4.148978603	2.971422593	3.493319057			
ENSG00000157833	156.9544171	203.5488852	106.9492318		
293.1790841	228.2983656	332.1160324	155.8175114		
284.5311607	-0.866290488	0.005958336	0.048862776	GAREM2	
2	26173091	26189663	+	5939	
protein_coding	GRB2 associated regulator of MAPK1 subtype 2				
[Source:HGNC Symbol;Acc:HGNC:27172]	-		173	230	92
283	200	385	1.426466121	1.835020632	
0.963787632	2.647799854	2.069969901	3.01424412		
ENSG00000119725	16.33051739	12.38993214	2.3249833	0	
0	0	10.34847761	0	5.808550491	
0.005975158	0.048978018	ZNF410	14	73886617	
73932511	+	6486	protein_coding	zinc finger protein	
410	[Source:HGNC Symbol;Acc:HGNC:20144]	zf-C2H2	18	14	2
0	0	0	0.135901498	0.102276894	
0.019184916	0	0	0		
ENSG00000279412	35.38278767	18.58489822	11.6249165		
59.05020421	49.08414861	108.6925197	21.8642008		
72.27562418	-1.719584003	0.005984759	0.049033994		
AC020763.3	16	70713987	70716890	+	2904
TEC	novel transcript				
57	43	126	0.657652808	0.342648728	10
0.214244773	1.090662264	0.910163057	2.017460086		
ENSG00000100629	297.5783168	209.7438513	312.7102538		
203.049825	47.94265678	119.9068273	273.3441407		
123.633103	1.142254024	0.006016198	0.049252768	CEP128	
14	80476983	80959517	-	9400	



protein_coding	centrosomal protein 128	[Source:HGNC					
Symbol;Acc:HGNC:20359]	-	328	237	269	196	42	
139	1.708734837	1.194667181	1.780456113				
1.158617974	0.274643166	0.687571655					
ENSG00000145217	177.8211893	277.8884781	145.3114562				
275.5676196	360.7114177	440.8085521	200.3403745				
359.0291965	-0.839698436	0.006019471	0.049252768				
SLC26A1	4	979073	993440	-	4293	protein_coding	solute
carrier family 26 member 1	[Source:HGNC	Symbol;Acc:HGNC:10993]	-				
196	314	125	266	316	511	2.235753228	
3.465733788	1.81157355	3.442966458	4.524530856				
5.534661057							
ENSG00000115165	9.07250966	7.079961225	12.78740815				
58.01423571	22.82983656	43.99459131	9.646626345				
41.61288786	-2.120015043	0.006019814	0.049252768			CYTIP	
2	157414619	157488961	-	3428			
protein_coding	cytohesin 1 interacting protein	[Source:HGNC					
Symbol;Acc:HGNC:9506]	-	10	8	11	56	20	
51	0.142852508	0.110579753	0.199645129				
0.907735369	0.358621682	0.691767861					
ENSG00000182173	626.0031665	783.2207105	626.5829993				
845.3502918	1010.220268	1031.716298	678.6022921				
962.4289526	-0.503602275	0.00602601	0.049280674			TSEN54	
17	75516060	75524739	+	3440			
protein_coding	tRNA splicing endonuclease subunit 54	[Source:HGNC					
Symbol;Acc:HGNC:27561]	-	690	885	539	816	885	
1196	9.822438803	12.19021229	9.74848593				
13.18086038	15.8136524	16.16604395					
ENSG00000144655	485.3792668	565.5119028	685.8700734				
723.1060094	1019.352203	832.4466787	578.9204144				
858.3016302	-0.568928002	0.00604413	0.049406017			CSRNP1	
3	39141855	39154562	-	3214			
protein_coding	cysteine and serine rich nuclear protein 1	[Source:HGNC					
Symbol;Acc:HGNC:14300]	-		535	639	590		
698	893	965	8.151482362	9.420662094			
11.42123285	12.0676191	17.07862673	13.96086923				
ENSG00000161791	2219.135863	1840.789918	2302.895958				
1583.995829	1525.033082	1682.146138	2120.94058				
1597.05835	0.408670522	0.006050412	0.049415827			FMNL3	
12	49636499	49708165	-	13424			
protein_coding	formin like 3	[Source:HGNC					
Symbol;Acc:HGNC:23698]	-	2446	2080	1981	1529	1336	1950
8.922841793	7.341889305	9.181409941	6.329036286				
6.117470375	6.754351939						
ENSG00000222032	194.1517067	140.7142293	192.9736139				
33.15099184	73.055477	119.9068273	175.9465166				
75.37109871	1.217823091	0.006050918	0.049415827				
AC112721.2	2	237428920	237434822	-	541		
lincRNA	novel protein (LOC728009)			-	214	159	
166	32	64	139	19.3706945	13.92599709		

	19.0905161	3.286735509	7.271601475	11.94671637	
ENSG00000246250	1.814501932	4.424975766	0	27.97114936	
	30.82027936	9.489029498	2.079825899	22.76015274	
	-3.402954606	0.006058473	0.049454701	AC087521.2	
	11	43829709	43880726	-	3296
antisense	novel transcript		-	2	5
	27	27	11	0.029714709	0.071880194
	0.455185695	0.503528343	0.155180269		0
ENSG00000100092	98.89035529	114.1643748	116.249165		
14.50355893	23.97132839	72.4616798	109.767965		
36.97885571	1.558486471	0.006070279	0.049528216		SH3BP1
	22	37634654	37656119	+	4892
protein_coding	SH3 domain binding protein 1	[Source:HGNC			
Symbol;Acc:HGNC:10824]	-	109	129	100	14
	84	1.091110495	1.249481133	1.27180462	21
	0.159020689	0.263864039	0.798406117		
ENSG00000179869	88.91059467	161.954113	62.77454909		
173.0067386	293.3633998	198.4069804	104.5464189		
221.592373	-1.07815645	0.006096026	0.049696178		ABCA13
	7	48171458	48647496	+	19074
protein_coding	ATP binding cassette subfamily A member 13	[Source:HGNC			
Symbol;Acc:HGNC:14638]	-		98	183	54
	167	257	230	0.251601358	0.454606616
	0.176140339	0.48650436	0.828206635	0.560682596	
ENSG00000182220	1297.368881	1267.313059	1684.450401		
1066.011581	1092.40768	876.44127	1416.377447		
1011.620177	0.485435115	0.006096484	0.049696178		
ATP6AP2 X	40579372	40606848	+	9560	
protein_coding	ATPase H+ transporting accessory protein 2	[Source:HGNC			
Symbol;Acc:HGNC:18305]	-		1430	1432	1449
	1029	957	1016	7.324986502	7.097600758
	9.430122618	5.980941108	6.153205304	4.941591415	
ENSG00000196821	2995.74269	3715.209653	3494.4499		
3601.026488	4807.96358	5704.632006	3401.800747		
4704.540692	-0.4679569	0.006107271	0.049761176		
C6orf106	6	34587288	34696859	-	4551
protein_coding	chromosome 6 open reading frame 106	[Source:HGNC			
Symbol;Acc:HGNC:21215]	-		3302	4198	3006
	3476	4212	6613	35.53030348	43.70811123
	41.09500024	42.44093821	56.88907695	67.56514379	
ENSG00000088756	158.768919	146.9091954	304.5728123		
119.1363769	105.0172482	62.97265031	203.4169756		
95.70875847	1.087910273	0.006116863	0.04981253		
ARHGAP28	18	6729718	6915716	+	11910
protein_coding	Rho GTPase activating protein 28	[Source:HGNC			
Symbol;Acc:HGNC:25509]	-	175	166	262	115
	73	0.719540048	0.660423879	1.368662526	92
	0.53653508	0.474813902	0.2849982		
ENSG00000076003	3049.270497	3109.872968	3444.462759		
2801.25881	2377.727478	1872.789367	3201.202074		

2350.591885	0.445822497	0.006119206	0.04981253	MCM6
2	135839626	135876426	- 4118	
protein_coding	minichromosome maintenance complex component 6			
[Source:HGNC Symbol;Acc:HGNC:6949]	-	3361	3514	2963
2704	2083 2171	39.96785616	40.43354836	
44.76639844	36.4865154	31.09211661	24.51345347	
ENSG00000169047	1828.110696	1862.914797	2025.060454	
1273.20528	1437.138212	1587.255843	1905.361983	
1432.533112	0.410857834	0.006152753	0.050047059	IRS1
2	226731317	226799759	- 9953	
protein_coding	insulin receptor substrate 1 [Source:HGNC			
Symbol;Acc:HGNC:6125]	-	2015 2105	1742 1229	1259
1840	9.914018614	10.02131093	10.88932584	
6.861355515	7.775334581	8.59596893		
ENSG00000237523	71.67282631	38.93978674	40.68720775	
19.6834014	5.707459141	0 50.4332736	8.463620181	
2.587646849	0.006153675	0.050047059	LINC00857	
10	80207710	80219657	+ 2171	
lincRNA	long intergenic non-protein coding RNA 857 [Source:HGNC			
Symbol;Acc:HGNC:45114]	-	79 44	35 19	5
0	1.781951795	0.960327342	1.003032644	
0.486301737	0.141565537	0		
ENSG00000205413	394.6541702	269.9235217	377.8097862	
221.6972579	182.6386925	226.0114299	347.4624927	
210.1157934	0.723712767	0.006176057	0.050206007	SAMD9
7	93099513	93118023	- 6855	
protein_coding	sterile alpha motif domain containing 9 [Source:HGNC			
Symbol;Acc:HGNC:1348]	-	435 305	325 214	160
262	3.107495307	2.108234039	2.949733283	
1.734675952	1.434695988	1.777153128		
ENSG00000106683	1334.566171	1168.193602	1608.888443	
855.7099768	1132.359894	918.7105832	1370.549406	
968.9268179	0.50014341	0.006181677	0.050228612	LIMK1
7	74082933	74122525	+ 6902	
protein_coding	LIM domain kinase 1 [Source:HGNC Symbol;Acc:HGNC:6613]			
-	1471 1320	1384 826	992 1065	
10.43677693	9.062028362	12.47578787	6.649930953	
8.834542766	7.174731795			
ENSG00000110063	505.3387881	562.8569174	541.7211088	
395.7399651	325.325171	370.0721504	536.6389381	
363.7124288	0.560508915	0.006187176	0.050243854	DCPS
11	126303752	126345754	+ 3936	
protein_coding	"decapping enzyme, scavenger [Source:HGNC			
Symbol;Acc:HGNC:29812]"	-	557 636	466 382	285
429	6.929929062	7.656467911	7.366101071	
5.392874538	4.450790275	5.067960491		
ENSG00000276805	78.93083404	64.60464618	61.61205744	
113.9565344	162.0918396	145.7859987	68.38251255	
140.6114576	-1.038140291	0.006189234	0.050243854	
AL133216.2	10 38403189	38452153	+ 7213	

transcribed_unprocessed_pseudogene	general transcription				
factor III (GTF2I) pseudogene	-	87	73	53	110
142	169	0.590652442	0.479549419	0.457158484	
0.847400657	1.210095852	1.089436171			
ENSG00000174365	162.3979229	204.4338804	141.8239813		
297.322958	234.0058248	348.5061743	169.5519282		
293.278319	-0.789919494	0.006210286	0.050391625		SNHG11
20	38446578	38450921	+	2813	
processed_transcript	small nucleolar RNA	host gene 11	[Source:HGNC		
Symbol;Acc:HGNC:25046]	-	179	231	122	287
404	3.116104277	3.891066817	2.698341701		205
5.669231718	4.479520094	6.677942128			
ENSG00000185386	171.4704326	215.9388174	203.4360387		
258.9921237	331.0326302	397.6765999	196.9484296		
329.2337846	-0.742571607	0.006239431	0.050604904		MAPK11
22	50263713	50270767	-	2688	
protein_coding	mitogen-activated protein kinase 11	[Source:HGNC			
Symbol;Acc:HGNC:6873]	-	189	244	175	250
461	3.443191863	4.30117391	4.050565235		290
5.168003367	6.631565961	7.974485618			
ENSG00000057657	88.91059467	68.14462679	198.7860721		
22.79130689	70.77249335	29.32972754	118.6137645		
40.96450926	1.53674389	0.006253122	0.050692704		PRDM1
6	106086320	106109939	+	6392	
protein_coding	PR/SET domain 1	[Source:HGNC Symbol;Acc:HGNC:9346]			
zf-C2H2	98	77	171	22	62
0.750789159	0.570795315	1.664432513	0.191248465		
0.596214156	0.247327934				
ENSG00000232479	3.629003864	10.61994184	3.48747495		
24.86324388	47.94265678	26.7418104	5.912140217		
33.18257035	-2.471723023	0.006260849	0.05073209		
AC010900.1	2	202924609	202925904	+	1296
processed_pseudogene	keratin 8 (KRT8) pseudogene				
4	12	3	24	42	31
0.438735408	0.144020097	1.029006893	1.992010618		
1.112212343					
ENSG00000106636	4194.221216	5032.967436	4139.632765		
5049.310444	5948.313917	6633.694258	4455.607139		
5877.106206	-0.399449465	0.006270174	0.050784392		YKT6
7	44200968	44214294	+	3707	
protein_coding	YKT6 v-SNARE homolog	[Source:HGNC			
Symbol;Acc:HGNC:16959]	-	4623	5687	3561	4874
7690	61.07029122	72.69207785	59.76628126		5211
73.05921179	86.40638728	96.45722688			
ENSG00000104738	8725.939791	8536.663247	8253.690714		
7976.957411	5641.252615	5341.460968	8505.431251		
6319.890331	0.42857575	0.006276528	0.050812584		MCM4
8	47960185	47978160	+	6973	
protein_coding	minichromosome maintenance complex component 4	[Source:HGNC Symbol;Acc:HGNC:6947]			
	-		9618	9646	7100

7700	4942	6192	67.54509099	65.5471832	
63.34984113	61.35968248		43.5642695	41.28975449	
ENSG00000169155	322.0740929		409.7527559	305.7353039	
568.7467037	571.8874059		449.4349426	345.8540509	
530.0230174	-0.613746696		0.006288384	0.050885283	ZBTB43
9	126805006		126838210	+ 7052	
protein_coding	zinc finger and	BTB domain containing 43	[Source:HGNC		
Symbol;Acc:HGNC:17908]	ZBTB	355	463	263	549 501
521	2.465157847		3.110965022	2.320332865	
4.325856259	4.36689533		3.435234888		
ENSG00000087365	10729.14992		10904.02528	11035.53323	
12933.03069	13342.89798		14071.36811	10889.56948	
13449.09893	-0.304614754		0.006295586	0.050920264	SF3B2
11	66050729		66069308	+ 9795	
protein_coding	splicing factor 3b	subunit 2	[Source:HGNC		
Symbol;Acc:HGNC:10769]	-	11826	12321	9493	12484 11689
16312	59.12376987		59.60297782	60.29841371	
70.82088725	73.35340505		77.43437379		
ENSG00000110619	1802.707669		2131.953324	2292.433534	
2465.605018	3018.104394		2800.126341	2075.698176	
2761.278584	-0.412027542		0.006302071	0.050949421	CARS
11	3000922	3057613	- 10037	protein_coding	
cysteinyI-tRNA	synthetase	[Source:HGNC Symbol;Acc:HGNC:1493]			-
1987	2409	1972	2380	2644	3246 9.694437755
11.37258828	12.22390126		13.17604522	16.19216374	
15.03749893					
ENSG00000138629	1775.49014		1654.940936	1532.163995	
1804.657118	2433.660578		2543.059905	1654.198357	
2260.4592	-0.450355218		0.006306466	0.050957604	UBL7
15	74445977		74461182	- 1885	
protein_coding	ubiquitin like 7	[Source:HGNC Symbol;Acc:HGNC:28221]			
-	1957	1870	1318	1742	2132 2948
50.84030586	47.00636763		43.50216811	51.35099224	
69.52215186	72.71887354				
ENSG00000182544	504.4315371		515.0671791	516.1462926	
527.3079639	883.514675		967.0183698	511.8816696	
792.6136696	-0.631272677		0.006308845	0.050957604	MFSD5
12	53251251		53254405	+ 2581	
protein_coding	major facilitator	superfamily domain containing 5	[Source:HGNC Symbol;Acc:HGNC:28156]		
[Source:HGNC Symbol;Acc:HGNC:28156]	-	556	582	444	
509	774	1121	10.54910149	10.68467757	
10.70290849	10.95826558		18.43318222	20.19522175	
ENSG00000186184	1890.711013		2320.457291	2022.735471	
2379.619633	3046.641689		2898.467192	2077.967925	
2774.909505	-0.417112423		0.006327187	0.051082429	POLR1D
13	27620742		27744237	+ 11210	
protein_coding	RNA polymerase I and III	subunit D	[Source:HGNC		
Symbol;Acc:HGNC:20422]	-	2084	2622	1740	2297 2669
3360	9.103759698		11.08290258	9.657183469	
11.3859016	14.63491894		13.93685183		

ENSG00000179922	213.203977	256.6485944	240.6357715		
305.610706	409.7955663	420.9678541	236.8294476		
378.7913755	-0.677968951	0.006333914	0.051113417	ZNF784	
19	55620742	55624601	- 2058		
protein_coding	zinc finger protein 784 [Source:HGNC				
Symbol;Acc:HGNC:33111]	zf-C2H2	235 290	207 295	359	
488	5.59179415	6.676964517	6.257946149		
7.965053353	10.72250947	11.02568218			
ENSG00000127585	446.3674753	459.3124845	578.9208416		
312.8624855	358.428434	306.2368611	494.8669338		
325.8425935	0.602473966	0.006343085	0.051138304	FBXL16	
16	692498 705829	- 3989	protein_coding	F-box	
and leucine rich repeat protein	16 [Source:HGNC				
Symbol;Acc:HGNC:14150]	-	492 519	498 302	314	
355	6.039900024	6.164952892	7.767337087		
4.206829883	4.838524806	4.138046198			
ENSG00000161654	788.4010894	837.2054149	884.6561456		
709.638419	440.6158457	542.5999595	836.7542166		
564.2847414	0.567670595	0.006345355	0.051138304	LSM12	
17	44034635	44067619	- 2811		
protein_coding	LSM12 homolog [Source:HGNC Symbol;Acc:HGNC:26407]				
-	869 946	761 685	386 629		
15.13866624	15.94618255	16.84343472	13.54072037		
8.440609712	10.4044905				
ENSG00000160145	146.0674055	92.92449108	185.998664		
73.55376314	71.91398517	45.7198694	141.6635202		
63.7292059	1.153637163	0.006347191	0.051138304	KALRN	
3	124080023	124726325	+ 24490		
protein_coding	kalirin RhoGEF kinase [Source:HGNC				
Symbol;Acc:HGNC:4814]	-	161 105	160 71	63	
53	0.321933206	0.203154738	0.406478935		
0.161094832	0.158124485	0.100627829			
ENSG00000140262	2779.81696	2073.543644	3109.665163		
2103.016045	2010.167109	1551.025003	2654.341922		
1888.069386	0.491475047	0.006348562	0.051138304	TCF12	
15	56918623	57299281	+ 9446		
protein_coding	transcription factor 12 [Source:HGNC				
Symbol;Acc:HGNC:11623]	bHLH	3064 2343	2675 2030	1761	
1798	15.88435203	11.75305553	17.61905826		
11.94153457	11.45931809	8.850601037			
ENSG00000112837	102.5193592	51.32971888	132.5240481		
53.87036173	25.11282022	12.93958568	95.45770871		
30.64092254	1.641998375	0.006358548	0.05119543	TBX18	
6	84687351	84764519	- 8469		
protein_coding	T-box 18 [Source:HGNC Symbol;Acc:HGNC:11595]				
113	58 114	52 22	15	0.653393777	T-box
	0.324505679	0.837489875	0.341179756	0.159675362	
	0.082355033				
ENSG00000259744	0 0	0 0	14.83939377		
21.56597613	0 12.1351233	-6.078617503	0.006369547		

0.051260651	AC009269.4	15	70848883		
70849770	-	755	sense_intronic	"novel transcript,	
sense intronic to LARP6"	-	0	0	0	0
13	25	0	0	0	1.058385206
1.539657334					
ENSG00000206053	2376.09028	2328.422248	2980.62859		
1890.642503	1996.469207	1921.097154	2561.713706		
1936.069622	0.403528491	0.006382707	0.051343201	JPT2	
16	1678256	1702280 +	4768	protein_coding	
Jupiter microtubule associated homolog 2 [Source:HGNC					
Symbol;Acc:HGNC:14137]	-	2619	2631	2564	1825 1749
2227	26.89849214	26.1463483	33.45712514		
21.26858835	22.54763121	21.71775795			
ENSG00000124831	2038.592921	1860.259812	2111.084836		
1557.060648	1539.872476	1530.321666	2003.312523		
1542.418263	0.376952135	0.006386495	0.051350326		
LRRFIP1 2	237627576	237813682	+	11901	
protein_coding	LRR binding	FLII interacting	protein 1 [Source:HGNC		
Symbol;Acc:HGNC:6702]	-	2247	2102	1816	1503 1349
1774	9.245881027	8.369041036	9.493781575		
7.01758318	6.967481988	6.931084259			
ENSG00000095383	158.768919	200.8938998	233.6608216		
279.7114936	295.6463835	443.3964693	197.7745468		
339.5847821	-0.783368225	0.006390329	0.051357809	TBC1D2	
9	98198999	98255721	-	3681	
protein_coding	TBC1 domain	family member 2 [Source:HGNC			
Symbol;Acc:HGNC:18026]	-	175	227	201	270 259
514	2.328096162	2.922042179	3.397324934		
4.075773022	4.324952149	6.4927446			
ENSG00000131473	10900.62036	9187.134685	11144.80745		
8766.365404	8410.51179	6503.435762	10410.85416		
7893.437652	0.399448404	0.00641124	0.05150246	ACLY	
17	41866908	41930542	-	5217	
protein_coding	ATP citrate	lyase [Source:HGNC	Symbol;Acc:HGNC:115]		
-	12015	10381	9587	8462	7368 7539
112.7798784	94.28547539	114.3322466	90.12893264		
86.81127618	67.19298345				
ENSG00000077238	1246.562827	1182.353525	1413.589846		
928.2277714	1034.191596	859.1884891	1280.835399		
940.5359523	0.44565036	0.006442886	0.051733186	IL4R	
16	27313668	27364778	+	5894	
protein_coding	interleukin 4	receptor [Source:HGNC			
Symbol;Acc:HGNC:6015]	-	1374	1336	1216	896 906
996	11.41577196	10.74045717	12.83601719		
8.447144468	9.448555673	7.857424651			
ENSG00000164346	1335.473422	1435.462138	1403.127421		
1156.14084	961.1361193	994.6228192	1391.354327		
1037.299926	0.423614586	0.006447449	0.051746336	NSA2	
5	74766991	74780113	+	4962	
protein_coding	"NSA2, ribosome	biogenesis homolog [Source:HGNC			

Symbol;Acc:HGNC:30728]" -	1472	1622	1207	1116	842
1153	14.52712701	15.48889839	15.1341264		
12.49739447	10.4304415	10.80447243			
ENSG00000134363	186.893699	110.6243941	181.3486974		
75.62570013	93.60232991	22.42861518	159.6222635		
63.88554841	1.327327203	0.006476613	0.051945811		FST
5	53480409	53487134	+	2969	
protein_coding	follistatin [Source:HGNC Symbol;Acc:HGNC:3971] -				
206	125	156	73	82	26
1.994923546	3.269047623	1.366232796	1.697661169		
0.407187248					
ENSG00000080189	2205.527098	2462.056516	2166.884435		
2300.886027	3409.636091	3936.221964	2278.156017		
3215.581361	-0.497291389	0.006478176	0.051945811		
SLC35C2 20	46345980	46364458	-	7708	
protein_coding	solute carrier family 35 member C2 [Source:HGNC				
Symbol;Acc:HGNC:17117] -	2431	2782	1864	2221	2987
4563	15.44443184	17.10180147	15.04565325		
16.01101617	23.81995172	27.52578928			
ENSG00000213793	136.9948959	87.61452016	81.37441549		
44.54664528	47.94265678	36.2308399	101.9946105		
42.90671399	1.253545728	0.006527203	0.052315221		ZNF888
19	52904417	52923481	-	4444	
protein_coding	zinc finger protein 888 [Source:HGNC				
Symbol;Acc:HGNC:38695] -	151	99	70	43	42
42	1.6639167	1.055571328	0.980010743		
0.537658417	0.580928389	0.439446751			
ENSG00000173818	485.3792668	620.3816023	551.021042		
661.9838682	829.8645591	929.0622518	552.2606371		
806.9702264	-0.547548834	0.006534169	0.052340747		ENDOV
17	80415165	80438086	+	7253	
protein_coding	endonuclease V [Source:HGNC Symbol;Acc:HGNC:26640]				
-	535	701	474	639	727
3.612141777	4.579591929	4.066001278	4.895479365		
6.161182789	6.904449285				
ENSG00000268520	0	0	2.3249833	18.64743291	
11.41491828	17.25278091	0.774994433			
15.7717107	-4.486317983	0.006536306	0.052340747		
AC008750.5	19	51361712	51365544	-	473
	sense_intronic "novel transcript, sense intronic to ETFB"				
-	0	0	2	18	10
0	0.263072651	2.114576532	1.29952973	20	0
1.966074059					
ENSG00000130414	726.7080237	681.4462679	880.006179		
467.2217912	606.1321608	498.6053682	762.7201569		
523.98644	0.541487851	0.006544705	0.052384295		
NDUFA10 2	239892450	240025402	-	9517	
protein_coding	NADH:ubiquinone oxidoreductase subunit A10				
[Source:HGNC Symbol;Acc:HGNC:7684]	-	-	801	770	757
451	531	578	4.121555291	3.833690924	



4.948831384	2.633228314	3.429586903	2.823961602	
ENSG00000259207	77.11633211	78.76456863	132.5240481	
42.47470829	35.38624667	3.450556181	96.13498294	
27.10383705	1.834666772	0.006550737	0.052408855	ITGB3
17	47253846	47311816	+ 4394	
protein_coding	integrin subunit beta 3 [Source:HGNC			
Symbol;Acc:HGNC:6156]	-	85	89	114 41 31
4	0.947300042	0.959746186	1.614178823	
0.518484584	0.433659637	0.042328313		
ENSG00000139233	601.5073904	836.3204197	590.5457581	
967.5945742	885.7976587	1080.886724	676.1245228	
978.0929855	-0.532232135	0.006555984	0.052427128	LLPH
12	66116555	66130768	- 7993	
protein_coding	"LLP homolog, long-term synaptic facilitation factor			
[Source:HGNC Symbol;Acc:HGNC:28229]"	-	663	945	508
934	776	1253	4.061929665	5.602068777
3.954219249	6.493055378	5.967593998	7.289072605	
ENSG00000150051	9.979760626	13.2749273	6.974949899	
48.69051926	59.35757507	21.56597613	10.07654594	
43.20469015	-2.087926321	0.006565459	0.05247917	MKX
10	27672875	27746060	- 4106	
protein_coding	mohawk homeobox [Source:HGNC Symbol;Acc:HGNC:23729]			
Others	11	15	6	47 52 25
0.131190511	0.173100672	0.090915755	0.63604956	
0.778451857	0.283107961			
ENSG00000260000	46.26979926	35.39980612	25.5748163	
6.215810969	10.27342645	0	35.74814056	5.496412474
2.732578937	0.006570587	0.052496436	AL133338.1	
6	100881471	100882987	+ 1517	
antisense	"novel transcript, antisense to ASCC3" - 51			
40	22	6	9	0 1.646316303
1.249398129	0.902285434	0.219774709	0.36467357	0
ENSG00000104412	652.3134445	604.4516896	618.4455577	
461.0059802	460.0212068	376.9732628	625.0702306	
432.6668166	0.53197465	0.006573895	0.052499155	EMC2
8	108443601	108486918	+ 3781	
protein_coding	ER membrane protein complex subunit 2 [Source:HGNC			
Symbol;Acc:HGNC:28963]	-	719	683	532 445 403
437	9.312170018	8.559343727	8.754106011	
6.539813708	6.55157518	5.374100425		
ENSG00000135930	1183.962511	1215.98334	1253.165999	
1464.859452	1768.170842	1608.821819	1217.70395	
1613.950704	-0.406417506	0.006577668	0.052505584	EIF4E2
2	232550052	232583644	+ 7177	
protein_coding	eukaryotic translation initiation factor 4E family			
member 2 [Source:HGNC Symbol;Acc:HGNC:3293]	-	1305	1374	
1078	1414	1549	1865	8.90422753 9.071314568
9.345072203	10.94758956	13.26648382	12.08278111	
ENSG00000108588	3278.804991	2947.918855	3368.900801	
2837.517708	2044.411864	2292.031943	3198.541549	

2391.320505	0.419378204	0.006588329	0.052566961	CCDC47
17	63745250	63776351	- 4537	
protein_coding	coiled-coil domain containing	47	[Source:HGNC	
Symbol;Acc:HGNC:24856]	-	3614 3331	2898 2739	1791
2657	39.00749419	34.78822692	39.74078564	
33.54557934	24.26465757	27.23038573		
ENSG00000275091	0 0	0 0	25.11282022	
11.21430759	0	12.1090426	-6.071937865	0.006645214
0.052990008	AC022098.4	19	14006422	
14006773	+	352	antisense	"novel transcript,
antisense to RFX1"	-	0 0	0 0	22
13	0 0	0 0	3.841734764	
1.717242811				
ENSG00000091831	2.721752898	13.2749273	3.48747495	
68.37392066	34.24475485	13.80222472	6.494718381	
38.80696674	-2.56236545	0.006647342	0.052990008	ESR1
6	151656691	152129619	+ 13854	
protein_coding	estrogen receptor 1	[Source:HGNC	Symbol;Acc:HGNC:3467]	
ESR-like	3	15	3	66 30 16
0.010604123	0.051302971	0.013472647	0.264716368	
0.133104712	0.053700189			
ENSG00000064703	1633.051739	1616.00115	1613.53841	
2017.03066	2028.430979	2234.235127	1620.863766	
2093.232255	-0.369204832	0.006650748	0.05299328	DDX20
1	111755245	111768016	+ 6019	
protein_coding	DEAD-box helicase 20	[Source:HGNC		
Symbol;Acc:HGNC:2743]	-	1800 1826	1388 1947	1777
2590	14.64457745	14.37483508	14.34735913	
17.97436894	18.14723423	20.00812716		
ENSG00000182118	288.5058072	315.9432697	377.8097862	
406.09965	562.7554713	547.7757938	327.419621	
505.5436383	-0.6282578	0.006656617	0.053016164	FAM89A
1	231018958	231040246	- 2394	
protein_coding	family with sequence similarity	89 member A		
[Source:HGNC	Symbol;Acc:HGNC:25057]	-	318 357	325
392	493 635	6.504765692	7.065949201	
8.446291417	9.098587261	12.65814696	12.33333697	
ENSG00000214194	649.5916916	498.2522712	560.3209752	
416.459335	405.229599	307.0995001	569.3883127	
376.2628114	0.59914581	0.006672859	0.0531216	SMIM30
7	113116718	113118613	- 1896	
protein_coding	small integral membrane protein	30	[Source:HGNC	
Symbol;Acc:HGNC:48953]	-	716 563	482 402	355
356	18.49282981	14.07007792	15.81668815	
11.78147765	11.50899444	8.730571695		
ENSG00000246273	117.0353746	70.79961225	41.8496994	
196.834014	128.9885766	183.7421166	76.56156209	
169.8549024	-1.145160018	0.006694196	0.053224044	SBF2-
AS1	11	9758292 9811335	+ 4644	antisense
antisense RNA 1	[Source:HGNC	Symbol;Acc:HGNC:27438]	-	129

80	36	190	113	213	1.360273329	
0.816251922	0.482299861		2.273387321		1.495662458	
2.132644223						
ENSG00000271601	2252.704149		2170.008115		2408.682699	
1890.642503	1731.643103		1638.151547		2277.131654	
1753.479051	0.376956178		0.006695026		0.053224044	LIX1L
1	145933423		145958001		- 3975	
protein_coding	limb and CNS expressed 1 like [Source:HGNC					
Symbol;Acc:HGNC:28715]	-		2483	2452	2072	1825
1899	30.58921064		29.22871844		32.43093462	1517
25.51160485	23.45826068		22.21359502			
ENSG00000143537	1813.594681		1897.429608		2172.696894	
1224.514761	1757.897415		1246.51342		1961.240394	
1409.641866	0.476828384		0.006696096		0.053224044	ADAM15
1	155050566		155062775		+ 6584	
protein_coding	ADAM metalloproteinase domain 15 [Source:HGNC					
Symbol;Acc:HGNC:193]	-		1999	2144	1869	1182
1445	14.86796929		15.42983918		17.66144876	1540
9.975615423	14.37733059		10.20490681			
ENSG00000071553	2776.187956		2971.813724		3685.09853	
2346.468641	2519.272465		2264.427494		3144.366737	
2376.722867	0.403545948		0.006697763		0.053224044	
ATP6AP1 X	154428632		154436516		+ 4884	
protein_coding	ATPase H+ transporting accessory protein 1					
[Source:HGNC Symbol;Acc:HGNC:868]	-				3060	3358
2265	2207	2625	30.68134928		32.57852948	3170
40.38224446	25.76941708		27.77627723		24.99105962	
ENSG00000109171	1738.292851		1594.761266		1536.813961	
2095.764265	2088.930046		2111.740383		1623.289359	
2098.811565	-0.370391354		0.006704995		0.053257589	SLAIN2
4	48341322		48426212		+ 6524	
protein_coding	SLAIN motif family member 2 [Source:HGNC					
Symbol;Acc:HGNC:29282]	-		1916	1802	1322	2023
2448	14.38170036		13.08781885		12.60736567	1830
17.23034503	17.24187521		17.44731007			
ENSG00000142669	3466.605941		4221.42688		4445.368069	
4200.852247	5990.549114		6562.957856		4044.466964	
5584.786406	-0.465780197		0.006738458		0.053499361	
SH3BGRL3	1	26279176	26281522		+ 1786	
protein_coding	SH3 domain binding glutamate rich protein like					
3 [Source:HGNC Symbol;Acc:HGNC:15568]	-				3821	4770
4055	5248	7608	104.7669418		126.5503543	3824
133.2119776	126.1599324		180.6174606		198.070623	
ENSG00000166347	542.5360777		584.0968011		632.3954575	
355.3371938	380.1167788		458.061333		586.3427788	
397.8384352	0.557802321		0.006747199		0.053544728	CYB5A
18	74250847		74292016		- 9313	
protein_coding	cytochrome b5 type A [Source:HGNC					
Symbol;Acc:HGNC:2570]	-		598	660	544	343
531	3.144417934		3.358000631		3.634261249	333

2.046522674	2.197869948	2.651159986			
ENSG00000166831	33.56828574	6.194966072	43.01219105	0	
	6.848950969	0	27.59181429	2.282983656	
3.648683263	0.006769675	0.053699002	RBPMS2	15	
64739892	64775587	-	2101	protein_coding	"RNA
binding protein, mRNA processing factor 2 [Source:HGNC					
Symbol;Acc:HGNC:19098]" -					
		37	7	37	0
	0	0.862391277	0.157869571	1.095676932	0
	0.175538571	0			
ENSG0000003436	921.7669814	788.5306814	1390.340013		
750.0411903	644.9428829	663.3694258	1033.545892		
686.117833	0.589784297	0.006776889	0.053732131	TFPI	
	2	187464230	187565760	-	11714
protein_coding tissue factor pathway inhibitor [Source:HGNC					
Symbol;Acc:HGNC:11760] -					
	769	4.247341409	3.604117367	6.352326419	565
3.434356622	2.964767139	3.052475158			
ENSG00000108587	1774.582889	1615.116154	1511.239145		
1983.879668	2188.239835	2238.548322	1633.646063		
2136.889275	-0.387131469	0.00678185	0.053742314	GOSR1	
	17	30477362	30527592	+	9855
protein_coding golgi SNAP receptor complex member 1 [Source:HGNC					
Symbol;Acc:HGNC:4430] -					
	2595	9.719432442	8.774708158	8.207172664	1917
10.79752438	11.95674162	12.24367383			
ENSG00000102393	893.6422015	808.0005748	932.3183032		
553.2071763	585.5853079	721.1662419	877.9870265		
619.986242	0.50050125	0.006784249	0.053742314	GLA	
	X	101397803	101408012	-	2275
protein_coding galactosidase alpha [Source:HGNC Symbol;Acc:HGNC:4296]					
	-	985	913	802	534
				513	836
21.20232626	19.01585326	21.93308966	13.04283198		
13.86064129	17.08660952				
ENSG00000085719	2416.916573	2185.053033	2358.695558		
3263.300759	3157.366397	2644.851313	2320.221721		
3021.839489	-0.380949028	0.006792661	0.053784862	CPNE3	
	8	86514427	86561498	+	6745
protein_coding copine 3 [Source:HGNC Symbol;Acc:HGNC:2316] -					
	2664	2469	2029	3150	2766
				3066	19.34109019
	17.34465144	18.71573726	25.95019606	25.20679225	
	21.13592283				
ENSG00000143774	3355.921323	4376.301032	4501.167668		
4386.290607	6022.510885	6378.353101	4077.796675		
5595.718198	-0.456744213	0.006798046	0.053803415	GUK1	
	1	228139962	228148984	+	4725
protein_coding guanylate kinase 1 [Source:HGNC Symbol;Acc:HGNC:4693]					
	-	3699	4945	3872	4234
				5276	7394
38.3363889	49.58963639	50.98476036	49.79217352		
68.63574218	72.76267411				
ENSG00000158270	114.3136217	115.9343651	232.49833		

34.18696033	108.4417237	37.95611799	154.2487723		
60.194934	1.361519059	0.006813986	0.053905458		
COLEC12 18	316740 500722	- 7340	protein_coding		
collectin subfamily member 12 [Source:HGNC Symbol;Acc:HGNC:16016]					
-	126 131	200 33	95 44		
0.840626678	0.845671465	1.695277439	0.249821564		
0.795563602	0.278732516				
ENSG00000171453	686.7889812	869.0652404	787.006847		
1028.716715	955.4286602	1374.183999	780.9536895		
1119.443125	-0.520350976	0.006817615	0.053910056	POLR1C	
6	43509702	43562419	+ 5550		
protein_coding RNA polymerase I and III subunit C [Source:HGNC Symbol;Acc:HGNC:20194]	-	757 982	677 993	837	
1593	6.679309685	8.383877914	7.589314183		
9.941875243	9.270002154	13.34608267			
ENSG00000112996	1462.488557	1361.122545	1377.552605		
1794.297433	1776.161285	1877.965202	1400.387903		
1816.141306	-0.375121734	0.006830606	0.053978614	MRPS30	
5	44808925	44820428	+ 6202		
protein_coding mitochondrial ribosomal protein S30 [Source:HGNC Symbol;Acc:HGNC:8769]	-	1612 1538	1185 1732	1556	
2177	12.72805253	11.75035572	11.88757952		
15.51772923	15.42144932	16.3214104			
ENSG00000187189	813.8041165	688.5262291	734.6947227		
996.6016921	1015.927727	1032.578937	745.6750228		
1015.036119	-0.444918056	0.006832388	0.053978614	TSPYL4	
6	116249961	116254140	- 4180		
protein_coding TSPY like 4 [Source:HGNC Symbol;Acc:HGNC:21559]	-				
897	778 632	962 890	1197 10.5085996		
8.819211463	9.406924169	12.78824164	13.08763231		
13.31523657					
ENSG00000213390	435.4804637	410.637751	545.2085838		
362.5889732	261.4016287	257.9290745	463.7755995		
293.9732255	0.656948083	0.006843108	0.054026714		
ARHGAP19	10 97222173	97292673	- 6167		
protein_coding Rho GTPase activating protein 19 [Source:HGNC Symbol;Acc:HGNC:23724]	-	480 464	469 350	229	
299	3.811500425	3.565089794	4.731575135		
3.153596606	2.282490056	2.254385892			
ENSG00000147586	361.9931354	385.8578868	362.6973948		
222.7332264	232.8643329	262.2422698	370.1828057		
239.279943	0.628752777	0.006844585	0.054026714	MRPS28	
8	79918717	80030289	- 1817		
protein_coding mitochondrial ribosomal protein S28 [Source:HGNC Symbol;Acc:HGNC:14513]	-	399 436	312 215	204	
304	10.75342107	11.36993555	10.68332679		
6.574997261	6.901168007	7.779463982			
ENSG00000166508	7836.833844	9055.270407	8772.16199		
6573.2201	6966.524627	6945.106954	8554.755414		
6828.283894	0.325169872	0.006868451	0.054190918	MCM7	

7	100092728	100101940	-	4386		
protein_coding	minichromosome maintenance complex component 7					
[Source:HGNC Symbol;Acc:HGNC:6950]			-	8638	10232	7546
6345	6103	8051	96.44356509	110.5397161		
107.0421985	80.38500493		85.53071505	85.35170821		
ENSG00000065328	1477.004573		1392.982371	1255.490982		
1160.284714	988.5319232		831.5840396	1375.159309		
993.4668924	0.470032361		0.006879152	0.054251147		MCM10
10	13161554		13211104	+	5454	
protein_coding	minichromosome maintenance 10 replication initiation factor					
[Source:HGNC Symbol;Acc:HGNC:18043]			-	1628	1574	
1080	1120	866	964	14.61732659	13.6746442	
12.32013505	11.4107695		9.760006763	8.218506792		
ENSG00000064115	1309.163144		1274.39302	1250.841015		
1016.285093	997.6638578		829.8587616	1278.132393		
947.9359043	0.432030746		0.006885139	0.054261012		TM7SF3
12	26973195		27014434	-	3888	
protein_coding	transmembrane 7 superfamily member 3 [Source:HGNC Symbol;Acc:HGNC:23049]					
	-	1443	1440	1076	981	874
962	18.17476309		17.54941632	17.21840274		
14.02021891	13.81759746		11.50482015			
ENSG00000077458	653.2206955		541.6170337	563.8084502		
381.2364061	409.7955663		420.9678541	586.2153931		
403.9999422	0.537067328		0.006886588	0.054261012		FAM76B
11	95768942		95790409	-	6042	
protein_coding	family with sequence similarity 76 member B					
[Source:HGNC Symbol;Acc:HGNC:28492]			-	720	612	485
368	359	488	5.835532055	4.799512665		
4.99422224	3.384380167		3.652254962	3.755520346		
ENSG00000182310	68.95107341		46.90474312	82.53690714		0
11.41491828	28.46708849		66.13090789	13.29400226		
2.299578302	0.006889606		0.054261012	SPACA6	19	
51689128	51712387		+	4103		protein_coding
	sperm acrosome associated 6 [Source:HGNC Symbol;Acc:HGNC:27113]					
	-	76	53	71	0	10
33	0.907069907		0.612069577	1.076623062		0
0.149811738	0.373975749					
ENSG00000275496	103.4266101		80.53455893	87.18687374		
15.53952742	50.22564044		1.725278091	90.38268093		
22.49681532	2.0213888		0.006897213	0.054296748		
CU633906.1	21	6228966	6267317	-	2878	lincRNA
uncharacterized	LOC102724701 [Source:NCBI gene;Acc:102724701]					
						-
114	91	75	15	44	2	1.939736533
1.498225014	1.621352033		0.289609306	0.93974332		
0.032312475						
ENSG00000162298	1583.152936		1660.250907	1394.98998		
2077.116832	1901.725386		2102.251353	1546.131274		
2027.03119	-0.390365676		0.006901484	0.054306209		SYVN1
11	65121780		65134533	-	5496	
protein_coding	synoviolin 1 [Source:HGNC Symbol;Acc:HGNC:20738]					

-	1745	1876	1200	2005	1666	2437		
15.54810235	16.17381796		13.58442839		20.27121111			
18.63269321	20.61768135							
ENSG00000115758	5201.269788		5494.934906		5478.823146			
6062.487632	7047.570547		7438.536487		5391.675947			
6849.531556	-0.345370455		0.006908452		0.054336866		ODC1	
2	10439968		10448504		-	2968		
protein_coding	ornithine decarboxylase 1 [Source:HGNC							
Symbol;Acc:HGNC:8109]	-		5733	6209	4713	5852	6174	
8623	94.59032741		99.1252291		98.79623392			
109.5601112	127.8645306		135.0907173					
ENSG00000185504	1333.65892		1728.395534		1342.677856			
1640.974096	2056.968274		2527.532403		1468.244103			
2075.158258	-0.499155215		0.006911774		0.054338828			
FAAP100 17	81539885		81553961		-	5354		
protein_coding	FA core complex associated protein 100 [Source:HGNC							
Symbol;Acc:HGNC:26171]	-		1470	1953	1155	1584	1802	
2930	13.44521191		17.28424116		13.42179076			
16.43950945	20.68825116		25.44604387					
ENSG00000150593	587.898626		478.7823778		540.5586172			
416.459335	288.7974325		351.9567305		535.7465403			
352.4044993	0.603505139		0.006921002		0.054379163		PDCD4	
10	110871795		110900006		+	4547		
protein_coding	programmed cell death 4 [Source:HGNC							
Symbol;Acc:HGNC:8763]	-		648	541	465	402	253	
408	6.978767585		5.637658327		6.362603284			
4.912619667	3.420132466		4.172210647					
ENSG00000160439	206.8532202		230.0987398		204.5985304			
320.1142649	320.7592037		370.9347895		213.8501635			
337.2694194	-0.657415365		0.006923052		0.054379163		RDH13	
19	55039108		55071291		-	8594		
protein_coding	retinol dehydrogenase 13 [Source:HGNC							
Symbol;Acc:HGNC:19978]	-		228	260	176	309	281	
430	1.299176575		1.433522254		1.274160581			
1.997906564	2.009825401		2.326505719					
ENSG00000136048	475.3995062		433.647625		448.7217769			
173.0067386	240.8547757		381.286458		452.589636			
265.0493241	0.769336531		0.006927575		0.054390307		DRAM1	
12	101877351		102012130		+	4180		
protein_coding	DNA damage regulated autophagy modulator 1							
[Source:HGNC Symbol;Acc:HGNC:25645]	-				524	490	386	
167	211	442	6.138802888		5.554516217			
5.745368243	2.21999621		3.102798221		4.916737312			
ENSG00000127564	824.6911281		976.1496539		979.9804609			
765.5807177	644.9428829		502.0559244		926.9404143			
637.5265083	0.540740579		0.006930621		0.054390307		PKMYT1	
16	2968024	2980539	-	5034				
protein_coding	"protein kinase, membrane associated tyrosine/							
threonine 1 [Source:HGNC Symbol;Acc:HGNC:29650]"	-						909	
1103	843	739	565	582	8.842587288			

10.38218449	10.41888417	8.157240576	6.898943636	
5.375771389				
ENSG00000106346	799.288101	679.6762776	741.6696726	
1081.551109	1011.36176	946.3150327	740.2113504	
1013.075967	-0.452540412	0.006957539	0.054577339	USP42
7	6104884 6161564 +	7072	protein_coding	
ubiquitin specific peptidase 42	[Source:HGNC	Symbol;Acc:HGNC:20068]		
-	881 768	638 1044	886 1097	
6.100456574	5.14571121	5.612873744	8.202954267	
7.700852943	7.212658894			
ENSG00000104067	1050.596619	815.9655312	1112.504509	
901.2925906	514.8128145	475.3141139	993.0222196	
630.473173	0.655413961	0.006970414	0.054654105	TJP1
15	29699367	29968865	- 11265	
protein_coding	tight junction protein 1	[Source:HGNC		
Symbol;Acc:HGNC:11827]	-	1158 922	957 870	451
551	5.033916957	3.878163957	5.285518391	
4.291410902	2.460892859	2.274319217		
ENSG00000085185	254.9375214	240.7186816	258.0731463	
391.5960911	326.4666629	463.2371673	251.2431165	
393.7666404	-0.650051393	0.006978636	0.054694329	BCORL1
X	129981107	130058083	+ 7996	
protein_coding	BCL6 corepressor like 1	[Source:HGNC		
Symbol;Acc:HGNC:25657]	-	281 272	222 378	286
537	1.720926087	1.611842339	1.727376614	
2.626824499	2.198571571	3.122716215		
ENSG00000185838	356.5496296	461.0824748	406.8720775	
388.4881856	687.1780806	1023.089908	408.1680606	
699.5853913	-0.778214408	0.006981793	0.054694832	GNB1L
22	19783224	19854939	- 6988	
protein_coding	G protein subunit beta 1 like	[Source:HGNC		
Symbol;Acc:HGNC:4397]	-	393 521	350 375	602
1186	2.754027913	3.532736682	3.116176116	
2.981881737	5.2953047	7.891559055		
ENSG00000185860	7.258007728	15.92991276	5.812458249	0
0	0 9.666792911	0	5.708647509	
0.006988024	0.054719416	CCDC190 1	162824458	
162868815	- 4316	protein_coding	coiled-coil domain	
containing 190	[Source:HGNC	Symbol;Acc:HGNC:28736]	-	8
18	5 0	0 0	0.090768934	
0.197613909	0.072076786	0 0	0	
ENSG00000062822	2186.474828	2119.563392	2015.760521	
1729.031418	1608.361986	1555.338199	2107.266247	
1630.910534	0.370027235	0.006991235	0.054720333	POLD1
19	50384204	50418016	+ 4932	
protein_coding	"DNA polymerase delta 1, catalytic subunit	[Source:HGNC		
Symbol;Acc:HGNC:9175]"	-	2410 2395		1734
1669	1409 1803	23.92889578	23.00959055	
21.87423491	18.80378654	17.56043563	16.99822905	
ENSG00000110427	1344.545932	1200.053428	1184.578991	



1050.472054	854.9773793	810.0180635	1243.05945		
905.1558322	0.458184418	0.007003102	0.054788978		
KIAA1549L	11	33376466	33674102	+	13012
protein_coding	KIAA1549 like [Source:HGNC				
Symbol;Acc:HGNC:24836]	-	1482	1356	1019	1014
939	5.577413359	4.937897558	4.872333151		749
4.330179943	3.538222365	3.355463784			
ENSG00000117592	4109.846876	4199.302002	4881.302438		
3345.14227	3691.584572	3234.033781	4396.817105		
3423.586874	0.360897477	0.007012377	0.054837282		PRDX6
1	173477266	173488807	+	2367	
protein_coding	peroxiredoxin 6 [Source:HGNC Symbol;Acc:HGNC:16753]				
-	4530	4745	4199	3229	3234
93.71921185	94.98704991	110.3708693	75.80220357		
83.98256173	73.6458367				
ENSG00000092853	1930.630056	1506.261751	1433.352204		
1537.377246	797.9027879	793.6279217	1623.41467		
1042.969319	0.638733342	0.007021973	0.054888063		CLSPN
1	35720218	35769967	-	5411	
protein_coding	claspin [Source:HGNC Symbol;Acc:HGNC:19715]				
2128	1702	1233	1484	699	920
14.90419289	14.17726278	15.23941903	7.940484494		
7.905717867					
ENSG00000073060	1037.895105	1140.758752	1053.217435		
681.6672696	868.6752812	802.2543121	1077.290431		
784.1989543	0.458477532	0.007049015	0.055075097		SCARB1
12	124776856	124882668	-	7741	
protein_coding	scavenger receptor class B member 1 [Source:HGNC				
Symbol;Acc:HGNC:1664]	-	1144	1289	906	658
930	7.236984468	7.890096061	7.281787094		761
4.72324931	6.042754487	5.586205386			
ENSG00000101574	309.3725794	239.8336865	388.2722111		
221.6972579	179.214217	83.67598739	312.4928257		
161.5291541	0.953976911	0.007053436	0.055085311		METTL4
18	2537525	2571509	-	5724	protein_coding
methyltransferase like 4 [Source:HGNC Symbol;Acc:HGNC:24726]	-				
341	271	334	214	157	97
2.243345199	3.630393394	2.07742901	1.685960469		
0.787958105					
ENSG00000111196	496.2662784	549.5819901	485.9215097		
405.0636815	302.4953345	308.8247782	510.589926		
338.7945981	0.592311466	0.007059464	0.055108059		MAGOHB
12	10604190	10613623	-	4856	
protein_coding	"mago homolog B, exon junction complex subunit				
[Source:HGNC Symbol;Acc:HGNC:25504]"	-		547	621	418
391	265	358	5.51616606	6.059535902	
5.355554588	4.474145702	3.354397734	3.427957009		
ENSG00000128283	1706.539067	2026.638901	2213.384101		
1175.824242	1606.079002	1538.085418	1982.187356		
1439.996221	0.46069447	0.007077982	0.055190517		

CDC42EP1	22	37560447	37569405	+	2573
protein_coding	CDC42 effector protein 1	[Source:HGNC			
Symbol;Acc:HGNC:17014]	-	1881	2290	1904	1135
1783	35.79956033	42.17179988	46.03986107		1407
24.5114001	33.61256627	32.22126414			
ENSG00000148572	399.190425	367.2729885	437.0968604		
636.0846559	603.8491771	517.5834272	401.186758		
585.8390867	-0.546551633	0.007078772	0.055190517		NRBF2
10	63133247	63155031	+ 1901		
protein_coding	nuclear receptor binding factor 2	[Source:HGNC			
Symbol;Acc:HGNC:19692]	-	440	415	376	614
600	11.33441848	10.3440931	12.30587714		529
17.94726593	17.1049148	14.67574482			
ENSG00000182472	3.629003864	17.69990306	8.137441549		0
0	0	9.822116159	0		
0.007079387	0.055190517	CAPN12	19		
38769904	-	5966	protein_coding calpain 12		
[Source:HGNC	Symbol;Acc:HGNC:13249]	-	4		20
0	0	0	0.032832611		0.158844868
0.072999795	0	0	0		
ENSG00000188786	899.9929583	968.1846975	718.4198396		
1442.068145	1173.453599	1055.870191	862.1991651		
1223.797312	-0.503975886	0.007097966	0.055301975		MTF1
1	37809567	37859620	- 8024		
protein_coding	metal regulatory transcription factor 1	[Source:HGNC			
Symbol;Acc:HGNC:7428]	zf-C2H2	992	1094	618	1392
1224	6.054097846	6.460302333	4.791863096		1028
9.639629874	7.874981729	7.092862093			
ENSG00000127483	4550.770845	3786.89426	4098.945558		
3483.962048	3280.647514	2760.444945	4145.536888		
3175.018169	0.385069738	0.007099937	0.055301975		HP1BP3
1	20742661	20787323	- 7442		
protein_coding	heterochromatin protein 1 binding protein 3	[Source:HGNC			
Symbol;Acc:HGNC:24973]	-	5016		4279	3526
3363	2874	3200	33.00627742		27.24451378
29.47810007	25.11014643	23.73801819	19.99361526		
ENSG00000182534	1983.250612	2354.087107	2612.118737		
1522.873688	1991.90324	1593.294317	2316.485485		
1702.690415	0.444195797	0.007108313	0.0553193		MXRA7
17	76672551	76711016	- 9257		
protein_coding	matrix remodeling associated 7	[Source:HGNC			
Symbol;Acc:HGNC:7541]	-	2186	2660	2247	1470
1847	11.56401317	13.61563228	15.10218045		1745
8.823870275	11.58704058	9.277429223			
ENSG00000120334	646.8699387	558.4319416	567.2959251		
444.4304843	429.2009274	300.1983878	590.8659352		
391.2765998	0.596593938	0.007108416	0.0553193		CENPL
1	173799550	173824720	- 4914		
protein_coding	centromere protein L	[Source:HGNC			
Symbol;Acc:HGNC:17879]	-	713	631	488	429
					376

348	7.105310501	6.084440492	6.178620435	
4.851032494	4.703271538	3.292873977		
ENSG00000228672	97.98310433	120.3593408	116.249165	
169.8988332	195.1951026	241.5389327	111.5305367	
202.2109562	-0.860175613	0.007117362	0.055364561	PROB1
5	139390592	139395713	- 5122	
protein_coding	proline rich basic protein 1	[Source:HGNC		
Symbol;Acc:HGNC:41906]	-	108 136	100 164	171
280	1.032554217	1.258130744	1.21469508	
1.779165373	2.052125403	2.541847407		
ENSG00000127586	1165.817491	1385.017415	868.3812625	
913.7242125	584.443816	779.8256969	1139.738723	
759.3312418	0.586183086	0.007125912	0.055382209	CHTF18
16	788046 800737 +	5916	protein_coding	
chromosome transmission fidelity factor 18	[Source:HGNC			
Symbol;Acc:HGNC:18435]	-	1285 1565	747 882	512
904	10.63662004	12.53466171	7.855960355	
8.284236018	5.319724676	7.105117809		
ENSG00000226200	28.12477995	40.70977704	22.08734135	
88.05732207	100.4512809	56.93417699	30.30729945	
81.81425998	-1.424671431	0.007125929	0.055382209	SGMS1-
AS1 10	50624951	50641451	+ 12420	
antisense	SGMS1 antisense RNA 1	[Source:HGNC		
Symbol;Acc:HGNC:49683]	-	31 46	19 85	88
66	0.122227459	0.175494163	0.095178499	
0.380285156	0.435520334	0.247088969		
ENSG00000107672	803.8243559	784.1057057	795.1442885	
664.0558052	539.9256347	420.9678541	794.3581167	
541.6497647	0.553531106	0.007129023	0.055382209	
NSMCE4A 10	121957088	121975217	- 3546	
protein_coding	"NSE4 homolog A, SMC5-SMC6 complex component	[Source:HGNC Symbol;Acc:HGNC:25935]"		
641	473 488	12.23555502	11.83917476	684
12.00118739	10.04456982	8.199167708	6.398999981	
ENSG00000227775	15.42326642	5.309970919	8.137441549	0
0	0 9.62355963	0	5.700295705	
0.007136721	0.055417671	AL031282.1	1 1724512	
1737251 +	2759	transcribed_processed_pseudogene		
ribosomal protein S7 (RPS7) pseudogene	-	17 6		7
0	0 0	0.301735149	0.103044779	
0.157853126	0 0	0		
ENSG00000155876	1428.01302	1723.970558	1793.724616	
1994.239353	2389.142396	2194.553731	1648.569398	
2192.64516	-0.411704825	0.007151004	0.055504218	RRAGA
9	19049395	19050983	+ 1589	
protein_coding	Ras related GTP binding A	[Source:HGNC		
Symbol;Acc:HGNC:16963]	-	1574 1948	1543 1925	2093
2544	48.50756947	58.08867845	60.41556975	
67.31608967	80.96413705	74.44306194		
ENSG00000269190	1013.399329	1166.423612	1070.65481	

1380.946004	1416.591359	1507.893051	1083.492583	
1435.143471	-0.405588153	0.007155897	0.055511393	FBX017
19	38941401	38975910	- 4960	
protein_coding	F-box protein 17 [Source:HGNC Symbol;Acc:HGNC:18754]			
-	1117 1318	921 1333	1241 1748	
11.02808691	12.59099857	11.5527347	14.93346253	
15.37933175	16.38667234			
ENSG00000068137	430.9442088	397.3628238	631.2329659	
325.2941074	315.0517446	285.533524	486.5133328	
308.6264587	0.655294055	0.007160195	0.055511393	
PLEKHH3 17	42667914	42676994	- 4803	
protein_coding	"pleckstrin homology, MyTH4 and FERM domain containing H3 [Source:HGNC Symbol;Acc:HGNC:26105]" -			
314	276 331	4.842946892	4.429555986	543
7.033865986	3.632696413	3.532188365	3.204397803	
ENSG00000137168	1923.372048	2023.983915	2250.583834	
2621.000292	2568.356613	2794.950507	2065.979932	
2661.435804	-0.365950126	0.00716181	0.055511393	PPIL1
6	36854827	36875024	- 1810	
protein_coding	peptidylprolyl isomerase like 1 [Source:HGNC Symbol;Acc:HGNC:9260] -			
3240	57.35693947	59.87065791	66.54778804	2250
77.67012247	76.4101942	83.23336512		
ENSG00000171051	47.17705023	20.35488852	53.4746159	0
0	13.80222472	40.33551822	4.600741575	
3.086992308	0.007164481	0.055511393	FPR1 19	
51745172	51804110	- 2594	protein_coding	formyl
peptide receptor 1	[Source:HGNC Symbol;Acc:HGNC:3826] - 52			
23	46 0	0 16	0.981662171	
0.420130591	1.103302765	0 0	0.286801243	
ENSG00000067177	401.9121779	269.0385265	251.0981964	
502.44472	480.5680597	468.4130016	307.3496336	
483.8085938	-0.652860458	0.007173049	0.055519231	PHKA1
X	72578814	72714319	- 6350	
protein_coding	phosphorylase kinase regulatory subunit alpha 1 [Source:HGNC Symbol;Acc:HGNC:8925] -			
485	421 543	3.41632111	2.268434789	216
2.116346978	4.244045751	4.075263838	3.976098388	
ENSG00000196505	906.343715	920.3949592	782.3568804	
1264.917532	1079.851269	1198.205634	869.6985182	
1180.991479	-0.44089654	0.007173104	0.055519231	GDAP2
1	117863485	117929630	- 10496	
protein_coding	ganglioside induced differentiation associated protein 2 [Source:HGNC Symbol;Acc:HGNC:18010] -			
1221	946 1389	4.660906059	4.695003908	673
3.989312785	6.464037772	5.540062632	6.153319163	
ENSG00000144218	167.8414287	123.8993214	170.8862725	
71.48182615	92.46083808	70.73640171	154.2090076	
78.22635531	0.980305056	0.007174909	0.055519231	AFF3
2	99545419	100142739	- 12737	

protein_coding	AF4/FMR2 family member 3 [Source:HGNC					
Symbol;Acc:HGNC:6473]	AF-4	185	140	147	69	81
	82	0.711267988	0.52081961	0.718053879		
0.301019053	0.390899604	0.299348938				
ENSG00000058056	1589.503692	1417.762235	1478.689379			
1316.715957	1018.210711	885.9302995	1495.318435			
1073.618989	0.478482557	0.007190657	0.055616762			USP13
	3	179652755	179789401	+	8440	
protein_coding	ubiquitin specific peptidase 13 [Source:HGNC					
Symbol;Acc:HGNC:12611]	-	1752	1602	1272	1271	892
	1027	10.16530324	8.993867931	9.376732169		
8.367874297	6.496355278	5.657948826				
ENSG00000127804	1225.696055	1224.833292	924.1808617			
1567.420333	1454.260589	1574.316258	1124.903403			
1531.99906	-0.444758095	0.007205238	0.055684904			
METTL16	17	2405562	2511891	-	8934	protein_coding
methyltransferase like 16 [Source:HGNC	Symbol;Acc:HGNC:28484]					-
	1351	1384	795	1513	1274	1825
	7.340346865	5.53640723	9.410333685	8.765381847		
	9.498344973					
ENSG00000053900	678.6237226	547.8119998	573.1083834			
509.6964995	325.325171	322.6270029	599.8480352			
385.8828912	0.63699402	0.007207211	0.055684904			ANAPC4
	4	25377213	25418498	+	7494	
protein_coding	anaphase promoting complex subunit 4 [Source:HGNC					
Symbol;Acc:HGNC:19990]	-	748	619	493	492	285
	374	4.887835628	3.913843006	4.092984285		
3.648072474	2.337644852	2.32053932				
ENSG00000104973	1104.124426	1265.543069	1399.639946			
911.6522755	918.9009217	954.0787841	1256.435814			
928.2106604	0.436066554	0.007208911	0.055684904			MED25
	19	49818279	49840383	+	7687	
protein_coding	mediator complex subunit 25 [Source:HGNC					
Symbol;Acc:HGNC:28845]	-	1217	1430	1204	880	805
	1106	7.752867839	8.814660648	9.744879034		
6.361182196	6.437042248	6.690048466				
ENSG00000095587	0	0	0	5.179842475	31.96177119	
	0	12.38053789	-6.101002727	0.007240888		
	0.055907492	TLL2	10	96364606	96513918	
	-	8151	protein_coding	tolloid like 2 [Source:HGNC		
Symbol;Acc:HGNC:11844]	-	0	0	0	5	28
	0	0	0	0.034085617	0.211151659	
	0					
ENSG00000115461	79.83808501	153.1041615	94.16182364			
360.5170362	157.5258723	170.802531	109.03469			
229.6151465	-1.072575111	0.007254367	0.055970145			IGFBP5
	2	216672105	216695525	-	6442	
protein_coding	insulin like growth factor binding protein 5					
[Source:HGNC	Symbol;Acc:HGNC:5474]					-
	348	138	198	0.668945344	1.272482515	81

0.782296064	3.001722683	1.316757274	1.429142347		
ENSG0000007516	0	1.769990306	0	5.179842475	
29.67878753	12.07694663	0.589996769			
15.64519221	-4.651084918	0.007255331	0.055970145		BAIAP3
16	1333601	1349441 +	6146	protein_coding	BAI1
associated protein 3 [Source:HGNC	Symbol;Acc:HGNC:948]	-	0		0
2	0	5	26	14	0
0	0.045205314	0.260032812	0.105917202		0.015419272
ENSG00000116903	526.2055603	484.0923488	488.246493		
618.4731915	755.6675903	754.8091646	499.5148007		
709.6499821	-0.506509488	0.007265189	0.056009051		EXOC8
1	231332753	231337852	-	5100	
protein_coding	exocyst complex component 8 [Source:HGNC	Symbol;Acc:HGNC:24659]	-	580	547
875	5.56911904	5.082104502	5.123726753		662
6.504534158	7.978755807	7.977538248			
ENSG00000205138	515.3185487	735.4309722	704.4699398		
812.1993	964.5605948	1055.870191	651.7398203		
944.2100287	-0.535590514	0.007266707	0.056009051		SDHAF1
19	35995199	35996315	+	1117	
protein_coding	succinate dehydrogenase complex assembly factor 1	[Source:HGNC	Symbol;Acc:HGNC:33867]	-	568
784	845	1224	24.90140468	35.25123133	606
33.75408173	39.00092731	46.49977977	50.95176852		
ENSG00000073756	232.2562473	160.1841227	303.4103206		
437.1787048	399.5221399	332.9786715	231.9502302		
389.8931721	-0.751723107	0.00730551	0.056283609		PTGS2
1	186671791	186680427	-	5269	
protein_coding	prostaglandin-endoperoxide synthase 2 [Source:HGNC	Symbol;Acc:HGNC:9605]	-	256	181
386	2.37925204	1.627709196	3.081904347		350
4.45037181	4.083073577	3.406356705			
ENSG00000285103	9.07250966	15.0449176	4.6499666		0
0	0	9.589131287	0	5.697603803	
0.007323347	0.056396469	AL451123.1	9	27529085	
27543902	+	9804	antisense	novel	
transcript	-	10	17	4	0
0.049948837	0.0821622	0.025384203	0	0	0
0					
ENSG00000147041	116.1281236	59.29467526	91.83684034		
49.72648776	28.5372957	18.11541995	89.08654642		
32.12640114	1.475347725	0.007350093	0.056577803		SYTL5
X	38006582	38128819	+	4791	
protein_coding	synaptotagmin like 5 [Source:HGNC	Symbol;Acc:HGNC:15589]	-	128	67
21	1.308315487	0.66263607	1.025906466		25
0.556707549	0.320745962	0.203809368			
ENSG00000163191	2931.327871	3886.898713	4546.504843		
4335.528151	5811.334897	5537.280032	3788.243809		
5228.047693	-0.465031686	0.007364614	0.056664922		

S100A11 1	152032506	152047907	-	680	
protein_coding	S100 calcium binding protein A11 [Source:HGNC				
Symbol;Acc:HGNC:10488]	-	3231 4392	3911	4185	5091
6419	232.6787537	306.0411742	357.8374166		
341.9783348	460.1946278	438.9241544			
ENSG00000165655	201.4097144	203.5488852	240.6357715		
321.1502334	404.0881072	307.0995001	215.1981237		
344.1126136	-0.677555624	0.00737058	0.05668617		ZNF503
10	75397830	75401906	-	3347	
protein_coding	zinc finger protein 503 [Source:HGNC				
Symbol;Acc:HGNC:23589]	-	222 230	207	310	354
356	3.248074228	3.256106224	3.847879646		
5.146571671	6.501220706	4.945671925			
ENSG00000108298	22246.70094	26625.07918	29092.51603		
30483.37296	34931.93293	34405.49568	25988.09872		
33273.60052	-0.356571086	0.007409112	0.056957748		RPL19
17	39200283	39204732	+	1761	
protein_coding	ribosomal protein L19 [Source:HGNC				
Symbol;Acc:HGNC:10312]	-	24521 30085	25026	29425	30602
39884	681.8792973	809.5004615	884.1764247		
928.4727439	1068.1637	1053.101836			
ENSG00000213553	948.0772594	1400.947327	1564.713761		
1441.032176	2159.702539	2175.575672	1304.579449		
1925.436796	-0.562245839	0.007434694	0.057129581		
RPLP0P6 2	38481851	38482804	+	954	
processed_pseudogene	ribosomal protein lateral stalk subunit P0				
pseudogene 6 [Source:HGNC	Symbol;Acc:HGNC:36404]		-		1045
1583	1346 1391	1892 2522	53.64096711		
78.62469631	87.78160794	81.01973138	121.9046067		
122.9214644					
ENSG00000114166	420.9644482	346.9181	410.3595524		
335.6537923	175.7897415	102.6540464	392.7473669		
204.6991934	0.941779881	0.007438664	0.057135274		KAT2B
3	20040023	20154404	+	5634	
protein_coding	lysine acetyltransferase 2B [Source:HGNC				
Symbol;Acc:HGNC:8638]	-	464 392	353	324	154
119	4.033014853	3.296823257	3.898205316		
3.195510223	1.680162311	0.98211227			
ENSG00000197429	528.0200622	557.5469465	391.759686		
717.926167	764.7995249	672.8584553	492.4422316		
718.5280491	-0.542900134	0.007449752	0.057195601		IPP
1	45694324	45750650	-	3705	
protein_coding	intracisternal A particle-promoted polypeptide				
[Source:HGNC	Symbol;Acc:HGNC:6108]		-	582 630	337
693	670 780	7.692428281	8.057100447		
5.659115205	10.39338622	11.11562663	9.788979263		
ENSG00000114107	361.0858845	292.0484005	333.6351035		
203.049825	236.2888084	88.85182166	328.9231295		
176.063485	0.90553922	0.007469287	0.0573207		CEP70
3	138494344	138594538	-	4420	

protein_coding	centrosomal protein 70 [Source:HGNC					
Symbol;Acc:HGNC:29972]	-	398	330	287	196	207
103	4.409501415	3.537676457	4.039861479			
2.464029175	2.878693561	1.083542558				
ENSG00000118985	1707.446318	1647.860975	1792.562124			
2038.785998	2522.69694	2173.850394	1715.956472			
2245.111111	-0.387736711	0.007491444	0.057465809			ELL2
5	95885098	95962071	-	7328		
protein_coding	elongation factor for RNA polymerase II 2 [Source:HGNC					
Symbol;Acc:HGNC:17064]	-	1882	1862	1542	1968	2210
2520	12.57658823	12.03983837	13.09199286			
14.92284668	18.53762845	15.98991291				
ENSG00000270574	0.907250966	6.194966072	1.16249165			
22.79130689	19.40536108	27.60444945	2.754902896			
23.26703914	-3.052800051	0.007517664	0.057641942			
AC010680.2	2	178578790	178580906	+		2117
antisense	"novel transcript, antisense to titin"					-
1	7	1	22	17	32	0.023131715
0.156676414	0.02938908	0.57744931	0.49360031			
0.702845937						
ENSG00000238121	0.907250966	0	0	0	36.5277385	
9.489029498	0.302416989	15.33892267	-5.449881581			
0.007567996	0.058002724	LINC00426	13			
30340270	30377145	-	3972	lincRNA	long	
intergenic non-protein coding RNA 426	[Source:HGNC					
Symbol;Acc:HGNC:42761]	-	1	0	0	0	32
11	0.012328761	0	0	0	0.495208509	
0.128769931						
ENSG00000163964	800.195352	875.2602064	823.0440881			
669.2356477	559.3309958	571.067048	832.8332155			
599.8778972	0.473512003	0.007596346	0.058189232			PIGX
3	196639775	196736007	+	4446		
protein_coding	phosphatidylinositol glycan anchor biosynthesis class					
X [Source:HGNC	Symbol;Acc:HGNC:26046]					
646	490	662	9.714664582	10.54030733		
9.907649766	8.073746388	6.774449066	6.923402			
ENSG00000279425	9.979760626	15.0449176	10.46242485			
1.035968495	0	0	11.82903436	0.345322832		
5.036455959	0.00759891	0.058189232	AC092279.2			19
24078481	24080669	+	2189	TEC		TEC
-	11	17	9	1	0	0
0.246079597	0.367984563	0.255801799	0.025384364			0
0						
ENSG00000165526	867.3319235	926.5899253	970.6805277			
1078.443203	1295.593225	1385.398307	921.5341255			
1253.144912	-0.444079822	0.007603814	0.058201588			RPUSD4
11	126202094	126211692	-	4083		
protein_coding	RNA pseudouridylate synthase domain containing 4					
[Source:HGNC	Symbol;Acc:HGNC:25898]					
1041	1135	1606	11.46587482	12.15048861		



12.72371528	14.16717939	17.08692219	18.28930402		
ENSG00000080493	78.02358307	42.47976735	83.69939879		
16.57549592	25.11282022	27.60444945	68.06758307		
23.09758853	1.555126695	0.007634107	0.058401837	SLC4A4	
4	71062667	71572087	+ 9622		
protein_coding	solute carrier family 4 member 4	[Source:HGNC			
Symbol;Acc:HGNC:11030]	-	86	48	72	16 22
32	0.43768512	0.236375427	0.465558211		
0.092398873	0.140541534	0.154637793			
ENSG00000180596	11.79426256	1.769990306	16.2748831	0	
0	0	9.946378654	0	5.74359995	
0.007636579	0.058401837	HIST1H2BC	6	26114873	
26123926	-	834	protein_coding	histone	
cluster 1 H2B family member c	[Source:HGNC Symbol;Acc:HGNC:4757]				
-	13	2	14	0	0 0
0.763318846	0.113629314	1.044404734	0	0	0
ENSG00000065802	1159.466735	1347.847618	1171.791583		
1578.815986	1601.513035	1654.541689	1226.368645		
1611.62357	-0.393887816	0.007643585	0.058430156	ASB1	
2	238426742	238452250	+ 7410		
protein_coding	ankyrin repeat and SOCS box containing 1	[Source:HGNC			
Symbol;Acc:HGNC:16011]	-	1278	1523	1008	1524 1403
1918	8.445810433	9.738860302	8.463483868		
11.42822554	11.63822699	12.0354245			
ENSG00000259363	9.07250966	5.309970919	13.9498998	0	
0	0	9.444126792	0	5.669608539	
0.007666092	0.058559507	AC090825.1	15	99807023	
99877148	+	1291	lincRNA	ubiquitin conjugating	
enzyme E2 Q2 pseudogene	[Source:NCBI gene;Acc:400464]				
6	12	0	0	0.379317117	10
0.220217308	0.578311529	0	0	0	
ENSG00000185338	29.93928188	40.70977704	69.74949899		
16.57549592	7.990442797	0	46.7995193	8.188646239	
2.527485343	0.007667127	0.058559507	SOCS1	16	
11254405	11256200	-	1796	protein_coding	
suppressor of cytokine signaling 1	[Source:HGNC				
Symbol;Acc:HGNC:19383]	-	33	46	60	16 7
0	0.899779908	1.213606629	2.078508308		
0.49502336	0.23957366	0			
ENSG00000184967	1153.115978	1276.163011	1261.30344		
1362.298571	1748.765481	1923.685071	1230.194143		
1678.249708	-0.448474985	0.007676588	0.058606457	NOC4L	
12	132144448	132152473	+ 2029		
protein_coding	nucleolar complex associated 4 homolog	[Source:HGNC			
Symbol;Acc:HGNC:28461]	-	1271	1442	1085	1315 1532
2230	30.67553791	33.67515894	33.27013306		
36.01270549	46.41133688	51.10387523			
ENSG00000224184	215.0184789	198.2389143	202.2735471		
109.8126605	134.6960357	106.1046026	205.1769801		
116.8710996	0.813960774	0.007682562	0.058626762		

MIR3681HG	2	11848622	12578348	+	3876
lincRNA MIR3681	host	gene	[Source:HGNC Symbol;Acc:HGNC:52001]		
-	237	224	174	106	118 123
2.994285872	2.738360936	2.793008944	1.51961699		
1.8713094	1.475544668				
ENSG00000163864	16.33051739	22.12487883	11.6249165		
34.18696033	46.80116496	91.4397388	16.69343757		
57.4759547	-1.78008411	0.00770757	0.058792242		NMNAT3
3	139560180	139678017	-	12983	
protein_coding	nicotinamide	nucleotide	adenylyltransferase 3		
[Source:HGNC Symbol;Acc:HGNC:20989]				18 25	10
33	41	106	0.067893177	0.091241285	
0.047921653	0.141237794	0.194113688	0.379631138		
ENSG00000178031	1362.690951	1326.607735	1275.25334		
1016.285093	1028.484137	968.7436478	1321.517342		
1004.504293	0.396177924	0.007717528	0.058842823		
ADAMTSL1	9	17906563	18910950	+	13652
protein_coding	ADAMTS	like 1	[Source:HGNC		
Symbol;Acc:HGNC:14632]	-	1502	1499	1097	981 901
1123	5.387686744	5.202736058	4.999392042		
3.99286633	4.056727831	3.824850764			
ENSG00000164707	8.165258694	17.69990306	10.46242485		
23.82727538	38.81072216	84.53862644	12.10919554		
49.05887466	-2.018199966	0.007725217	0.058876071		
SLC13A4	7	135681237	135729258	-	8015
protein_coding	solute carrier	family 13	member 4	[Source:HGNC	
Symbol;Acc:HGNC:15827]	-	9	20	9	23 34
98	0.054987967	0.118236866	0.069862775		
0.159454343	0.260749059	0.568530237			
ENSG00000155252	799.288101	1034.559334	905.5809953		
1205.867328	1088.983204	1593.294317	913.1428101		
1296.048283	-0.505917773	0.007730229	0.0588889		PI4K2A
10	97640686	97676434	+	4189	
protein_coding	phosphatidylinositol	4-kinase	type 2 alpha		
[Source:HGNC Symbol;Acc:HGNC:30031]				881	1169 779
1164	954	1847	10.2989804	13.22301808	
11.57001558	15.44026193	13.99862483	20.50159043		
ENSG00000065427	6465.070384	6454.269652	6954.02505		
7900.295742	8425.351184	8273.571083	6624.455028		
8199.739336	-0.307868002	0.007734608	0.058896894		KARS
16	75627474	75648643	-	4065	
protein_coding	lysyl-tRNA	synthetase	[Source:HGNC		
Symbol;Acc:HGNC:6215]	-	7126	7293	5982	7626 7381
9591	85.84479179	85.01040877	91.55724274		
104.2433344	111.6097192	109.7070051			
ENSG00000089154	5041.593618	4565.689995	4143.12024		
5736.157556	5500.84912	6294.677113	4583.467951		
5843.894597	-0.350415261	0.00774883	0.058966808		GCN1
12	120127203	120194710	-	9654	
protein_coding	"GCN1, eIF2 alpha kinase activator homolog				

[Source:HGNC Symbol;Acc:HGNC:4199]"	-	5557	5159	3564
5537	4819	7297	28.18783923	25.32122278
22.96874401	31.8697952	30.6829415	35.14536596	
ENSG00000182902	17.23776835	3.539980612	5.812458249	
8.287747959	70.77249335	64.6979284	8.863402405	
47.9193899	-2.42880404	0.007750457	0.058966808	
SLC25A18	22	17563439	17590994	+
protein_coding	solute carrier family 25 member 18			4741
[Source:HGNC Symbol;Acc:HGNC:10988]	-	19	4	5
8	62	75	0.196251204	0.039977578
0.065615568	0.093763125	0.803839039	0.735567151	
ENSG00000136731	2691.813616	2369.132025	2373.807949	
2161.03028	1775.019793	1701.124197	2478.251197	
1879.05809	0.399597027	0.007763741	0.059035685	UGGT1
2	128091200	128195677	+	11349
protein_coding	UDP-glucose glycoprotein glucosyltransferase 1			
[Source:HGNC Symbol;Acc:HGNC:15663]	-	2967	2677	2042
2086	1555	1972	12.80231869	11.17679321
11.19450742	10.21336262	8.42209542	8.079422747	
ENSG00000110107	6895.107341	7973.80633	7209.773213	
8139.604464	9967.506644	10161.88795	7359.562295	
9422.999687	-0.356560639	0.007766185	0.059035685	PRPF19
11	60890730	60906588	-	2739
protein_coding	pre-mRNA processing factor 19 [Source:HGNC			
Symbol;Acc:HGNC:17896]	-	7600	9010	6202
11780	135.8783435	155.8688028	140.8791025	7857
159.3957599	195.9607329	199.9789466		8732
ENSG00000178149	471.7705023	684.1012534	606.8206412	
850.5301343	802.4687552	868.6775186	587.5641323	
840.5588027	-0.516964909	0.007776133	0.059085918	DALRD3
3	49015488	49022293	-	3682
protein_coding	DALR anticodon binding domain containing 3			
[Source:HGNC Symbol;Acc:HGNC:25536]	-	520	773	522
821	703	1007	6.915892643	9.947687886
8.820507335	12.39000314	11.73596758	12.71676672	
ENSG00000160688	756.6473056	927.4749205	814.9066466	
917.8680865	1359.516767	1276.705787	833.0096242	
1184.69688	-0.507906371	0.007837295	0.059525083	FLAD1
1	154983338	154993111	+	4019
protein_coding	flavin adenine dinucleotide synthetase 1 [Source:HGNC			
Symbol;Acc:HGNC:24671]	-	834	1048	701
1480	10.16194238	12.35576721	10.85192687	886
12.24976506	18.21550079	17.12279777		1191
ENSG00000121653	633.2611743	600.0267138	684.7075818	
617.437223	1288.744274	1070.535055	639.3318233	
992.2388507	-0.634266402	0.007846916	0.059572575	
MAPK8IP1	11	45885651	45906465	+
protein_coding	mitogen-activated protein kinase 8 interacting			3498
protein 1 [Source:HGNC Symbol;Acc:HGNC:6882]	-	698	678	
589	596	1129	1241	9.771568954
				9.184094199

	10.47616515	9.46756942	19.83907855	16.4961651	
ENSG00000241697	15.42326642	9.734946684	3.48747495	0	
0	0	9.548562685	0	5.691816846	
0.007850478	0.059574045	TMEFF1	9	100473113	
100577636	+	2611	protein_coding	transmembrane protein	
with EGF like and two follistatin like domains 1 [Source:HGNC					
Symbol;Acc:HGNC:11866]	-	17	11	3	0
0	0.318838482	0.19962377	0.071486038	0	
0	0				
ENSG00000229152	216.8329809	140.7142293	81.37441549		
262.1000292	285.372957	284.6708849	146.3072086		
277.3812904	-0.918737475	0.007867898	0.059663226		
ANKRD10-IT1	13	110894639	110899172	-	800
sense_intronic ANKRD10 intronic transcript 1 [Source:HGNC					
Symbol;Acc:HGNC:39891]	-	239	159	70	253
330	14.62973965	9.417455531	5.443959675		250
17.57286521	19.20867382	19.18028124			
ENSG00000065978	21969.98939	27264.93068	29359.88911		
19031.77722	21672.36385	20495.44108	26198.26973		
20399.86072	0.360881009	0.007868975	0.059663226		YBX1
1	42682427	42702349	+	1930	
protein_coding Y-box binding protein 1 [Source:HGNC					
Symbol;Acc:HGNC:8014]	CSD	24216	30808	25256	18371
23759	614.4319385	756.3671131	814.1681454		18986
528.9170071	604.6771086	572.4029544			
ENSG00000137522	653.2206955	766.4058026	717.257348		
1005.925409	945.1552337	953.216145	712.2946154		
968.0989291	-0.4426773	0.007882754	0.059742086		RNF121
11	71928701	71997597	+	3567	
protein_coding ring finger protein 121 [Source:HGNC					
Symbol;Acc:HGNC:21070]	-	720	866	617	971
1105	9.884576585	11.50379737	10.76189874		828
15.12614169	14.26837739	14.40423462			
ENSG00000125871	626.0031665	615.0716314	628.9079826		
466.1858227	471.436125	337.2918667	623.3275935		
424.9712715	0.554255659	0.007898209	0.059833583		MGME1
20	17968913	17991122	+	2336	
protein_coding mitochondrial genome maintenance exonuclease 1					
[Source:HGNC Symbol;Acc:HGNC:16205]	-		690	695	541
450	413	391	14.46455029	14.09738002	
14.4089148	10.70413848	10.867373	7.782783278		
ENSG00000164587	11241.74672	14755.52419	15770.36172		
14672.42179	21522.82842	20695.57334	13922.54421		
18963.60785	-0.445868081	0.00790583	0.05986568		RPS14
5	150442635	150449756	-	5099	
protein_coding ribosomal protein S14 [Source:HGNC					
Symbol;Acc:HGNC:10387]	-	12391	16673	13566	14163
23991	119.0008404	154.937013	165.5288308		18855
154.3413472	227.294478	218.7733197			
ENSG00000112081	9237.629336	10225.234	9340.620407		

10290.27506	12857.76395	14131.75284	9601.161247	
12426.59728	-0.372176114	0.007931854	0.060037043	SRSF3
6	36594353	36605600	+ 7118	
protein_coding	serine and arginine rich splicing factor 3			
[Source:HGNC Symbol;Acc:HGNC:10785]	-	10182	11554	8035
9933	11264	16382	70.04929884	76.91318931
70.23195278	77.54155312	97.27069487	107.0138419	
ENSG00000165209	539.8143248	507.1022227	531.258684	
439.2506418	297.9293672	297.6104706	526.0584105	
344.9301599	0.609192249	0.007936007	0.060042786	STRBP
9	123109500	123268576	- 8097	
protein_coding	spermatid perinuclear RNA binding protein [Source:HGNC Symbol;Acc:HGNC:16462]			
345	-	595	573	457
				424
				261
2.909737164	3.598500025	3.353180435	3.511550411	
2.909737164	1.981361538	1.981189301		
ENSG00000184432	3642.612628	3578.920399	3926.896793	
3505.717387	2391.42538	2202.317483	3716.143274	
2699.820083	0.461014811	0.007955353	0.060157938	COPB2
3	139355600	139389732	- 8177	
protein_coding	coatamer protein complex subunit beta 2 [Source:HGNC Symbol;Acc:HGNC:2232]			
2553	-	4015	4044	3378
				3384
				2095
22.99579351	24.04474831	23.433847	25.70232993	
22.99579351	15.74843455	14.51736631		
ENSG0000053372	3357.735825	3871.853795	3437.487809	
4119.010736	4583.08969	4950.685481	3555.692476	
4550.928636	-0.356040232	0.007958029	0.060157938	MRT04
1	19251539	19260128	+ 2822	
protein_coding	"MRT4 homolog, ribosome maturation factor [Source:HGNC Symbol;Acc:HGNC:18477]"			
5739	-	3701	4375	2957
				3976
				4015
78.28911973	64.22302524	73.45941894	65.1930293	
78.28911973	87.45323927	94.5606031		
ENSG00000183814	776.6068269	568.1668883	699.8199732	
590.5020421	390.3902052	295.8851925	681.5312295	
425.59248	0.680199797	0.007986131	0.060319512	LIN9
1	226231149	226309869	- 4442	
protein_coding	lin-9 DREAM MuvB core complex component [Source:HGNC Symbol;Acc:HGNC:30830]			
343	-	856	642	602
				570
				342
7.130308905	9.436781381	6.848302171	8.431887115	
7.130308905	4.732546742	3.590430992		
ENSG00000149295	9.979760626	15.0449176	3.48747495	0
0	0	9.504051059	0	5.685341021
0.007986223	0.060319512	DRD2	11	113409615
113475691	-	4098	protein_coding	dopamine receptor D2
[Source:HGNC Symbol;Acc:HGNC:3023]	-			
0	0	0	0.131446617	0.196563741
0.045546619	0	0	0	
ENSG00000271751	17.23776835	7.964956378	3.48747495	0
0	0	9.563399894	0	5.693939793
0.007999827	0.060396472	AP003392.5	11	119065263
119065677	-	415	lincRNA	novel transcript

-	19	9	3	0	0	0	
2.241992667	1.027592329		0.449759147		0	0	0
ENSG00000135362	212.296726		153.9891566		265.0480962		
44.54664528	116.4321665		133.709052		210.4446596		
98.22928792	1.096142075		0.008013705		0.060464177		PRR5L
11	36296288		36465204		+	6616	
protein_coding	proline rich 5 like [Source:HGNC						
Symbol;Acc:HGNC:25878]	-		234	174	228	43	102
155	1.732004613		1.246178323		2.144105728		
0.361147824	0.947658878		1.089349453				
ENSG00000148926	2404.21506		2649.675488		3243.351703		
3181.459248	3795.460329		4108.749773		2765.747417		
3695.223116	-0.418546756		0.008015631		0.060464177		ADM
11	10304680		10307397		+	2718	
protein_coding	adrenomedullin [Source:HGNC Symbol;Acc:HGNC:259]						
-	2650	2994	2790	3071	3325	4763	
47.74469299	52.19498588		63.86480603		62.78304968		
75.19510281	81.4820876						
ENSG00000240024	96.16860239		122.1293311		92.99933199		
68.37392066	19.40536108		30.19236658		103.7657552		
39.32388278	1.399901984		0.00803018		0.06054528		
LINC00888	3	183447608	183456013		+	2131	
protein_coding	transcribed_unprocessed_pseudogene long intergenic non-						
RNA 888 [Source:HGNC Symbol;Acc:HGNC:48575]	-						-
106	138	80	66	17	35	2.435853131	
3.068471384	2.335680225		1.720966948		0.490357511		
0.763687378							
ENSG00000110719	1082.350402		1207.133389		941.6182364		
697.2067971	828.7230673		816.0565368		1077.034009		
780.6621337	0.46495635		0.008033228		0.06054528		TCIRG1
11	68039016		68050895		+	4384	
protein_coding	"T cell immune regulator 1, ATPase H+ transporting V0						
subunit a3 [Source:HGNC Symbol;Acc:HGNC:11647]"	-					1193	1364
810	673	726	946	13.32596234	14.74247044		
11.49532674	8.530147922		10.17919503		10.03348046		
ENSG00000134780	397.3759231		538.0770531		452.2092518		
206.1577305	349.2964994		308.8247782		462.554076		
288.0930027	0.683621515		0.008060202		0.060722703		DAGLA
11	61680433		61747001		+	5757	
protein_coding	diacylglycerol lipase alpha [Source:HGNC						
Symbol;Acc:HGNC:1165]	-		438	608	389	199	306
358	3.7256887		5.004189999		4.203975908		
1.92074137	3.267176203		2.891464172				
ENSG00000117448	1263.800596		1448.737066		1440.327154		
1781.865811	2048.977832		1666.618635		1384.288272		
1832.487426	-0.404407145		0.008079931		0.060845425		AKR1A1
1	45550543		45570049		+	3121	
protein_coding	aldo-keto reductase family 1 member A1 [Source:HGNC						
Symbol;Acc:HGNC:380]	-		1393	1637	1239	1720	1795
1932	21.85677247		24.85314488		24.69928517		

30.62292861	35.35233016	28.78355101					
ENSG00000104946	1089.60841	1208.903379	1121.804442				
1290.816745	1634.616298	1687.321973	1140.10541				
1537.585005	-0.431549676	0.008087389	0.060873118				
TBC1D17 19	49877425	49888749	+	4745			
protein_coding	TBC1 domain family member 17 [Source:HGNC						
Symbol;Acc:HGNC:25699]	-	1201	1366	965	1246	1432	
1956	12.39468443	13.64083399	12.65312922				
14.59129605	18.5504377	19.16741967					
ENSG00000188021	1890.711013	1932.829414	2135.497161				
2581.633489	2875.417915	2309.284724	1986.345863				
2588.77871	-0.382093852	0.008092947	0.060873118			UBQLN2	
X	56563639	56567868	+	4230			
protein_coding	ubiquilin 2 [Source:HGNC Symbol;Acc:HGNC:12509] -						
2084	2184	1837	2492	2519	2677	24.12603929	
24.46463313	27.01939594	32.73555544	36.60455743				
29.42652791							
ENSG00000064102	1105.031677	807.1155796	899.768537				
661.9838682	627.8205055	710.8145733	937.3052644				
666.8729823	0.490745916	0.008093933	0.060873118			INTS13	
12	26905181	26938326	-	3345			
protein_coding	integrator complex subunit 13 [Source:HGNC						
Symbol;Acc:HGNC:20174]	-	1218	912	774	639	550	
824	17.83117038	12.91888871	14.39632642				
10.61492133	10.10680596	11.45413					
ENSG00000225190	740.3167882	929.2449108	875.3562124				
936.5155194	1245.367585	1463.035821	848.3059705				
1214.972975	-0.518862315	0.008102012	0.060907986				
PLEKHM1 17	45435900	45490749	-	9233			
protein_coding	pleckstrin homology and RUN domain containing M1						
[Source:HGNC Symbol;Acc:HGNC:29017]	-		816	1050	753		
904	1091	1696	4.327887935	5.38856225			
5.074099594	5.440485267	7.263221275	8.541104402				
ENSG00000128245	1686.579546	1781.495243	1929.736139				
1263.881564	1572.975739	1177.502297	1799.270309				
1338.119867	0.427685148	0.008116388	0.060985001			YWHAH	
22	31944461	31957603	+	2453			
protein_coding	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase						
activation protein eta [Source:HGNC Symbol;Acc:HGNC:12853]	-						
1859	2013	1660	1220	1378	1365	37.11167234	
38.88415517	42.10342117	27.63594541	34.53019489				
25.87415177							
ENSG00000138442	1637.587994	1741.670461	1469.389445				
2001.491132	2201.937737	2094.487602	1616.215967				
2099.30549	-0.376701307	0.008122295	0.060985001			WDR12	
2	202874782	203014798	-	9098			
protein_coding	WD repeat domain 12 [Source:HGNC						
Symbol;Acc:HGNC:14098]	-	1805	1968	1264	1932	1929	
2428	9.715383699	10.24956898	8.643865251				
11.79976161	13.0326777	12.40891381					

ENSG00000174799	738.5022863	470.8174215	444.0718103	
418.5312719	287.6559407	325.2149201	551.130506	
343.8007109	0.681452475	0.008122599	0.060985001	CEP135
4	55948871	56033363	+ 8640	
protein_coding	centrosomal protein 135 [Source:HGNC			
Symbol;Acc:HGNC:29086]	-	814 532	382 404	252
377	4.613593706	2.917590463	2.750783857	
2.598242404	1.792809556	2.02889058		
ENSG00000186318	2238.188133	2177.973072	2195.946727	
1691.736552	1684.841938	1805.503522	2204.035977	
1727.360671	0.351361819	0.008135876	0.061058767	BACE1
11	117285207	117316259	- 7190	
protein_coding	beta-secretase 1 [Source:HGNC Symbol;Acc:HGNC:933]			
-	2467 2461	1889 1633	1476 2093	
16.80230805	16.2184432	16.34594052	12.6202901	
12.6184156	13.53540815			
ENSG00000155438	1694.744804	1793.885175	1263.628423	
2163.102217	1987.337273	2289.444026	1584.086134	
2146.627839	-0.437808953	0.008170289	0.061291027	NIFK
2	121726945	121736923	- 2447	
protein_coding	nucleolar protein interacting with the FHA domain of			
MKI67 [Source:HGNC Symbol;Acc:HGNC:17838]	-		1868 2027	
1087	2088 1741	2654 37.38277924	39.25059279	
27.63773328	47.41421543	43.73329121	50.43104499	
ENSG00000163214	771.1633211	615.0716314	639.3704074	
927.1918029	991.9563987	883.3423824	675.2017866	
934.163528	-0.467629769	0.008182213	0.061354455	DHX57
2	38797729	38875934	- 7985	
protein_coding	DEXH-box helicase 57 [Source:HGNC			
Symbol;Acc:HGNC:20086]	-	850 695	550 895	869
1024	5.212819519	4.124167779	4.285432073	
6.228165701	6.68947779	5.962879792		
ENSG00000115568	695.8614909	773.4857638	718.4198396	
934.4435824	922.3253972	1155.936321	729.2556981	
1004.2351	-0.462211925	0.008186443	0.061360165	ZNF142
2	218637916	218659655	- 6994	
protein_coding	zinc finger protein 142 [Source:HGNC			
Symbol;Acc:HGNC:12927]	zf-C2H2	767 874	618 902	808
1340	5.37029842	5.92123429	5.497556402	
7.166266475	7.101222051	8.908614957		
ENSG00000103152	687.6962322	824.8154827	1252.003507	
587.3941366	642.6598993	602.1220536	921.505074	
610.7253632	0.592276281	0.008211701	0.061523414	MPG
16	77007 85853	+ 1661	protein_coding N-	
methylpurine DNA glycosylase [Source:HGNC Symbol;Acc:HGNC:7211]	-			
758	932 1077	567 563	698 22.34746453	
26.58720724	40.34158129	18.96817161	20.83464585	
19.53965126				
ENSG00000077463	511.6895448	831.8954439	512.6588176	
718.9621355	948.5797092	1239.612308	618.7479354	



969.0513842	-0.646891388	0.008226407	0.061607499	SIRT6
19	4174109 4182604	- 2787	protein_coding	
sirtuin 6 [Source:HGNC Symbol;Acc:HGNC:14934]		-	564	940
441	694 831	1437	9.909935294	15.98149215
	9.844835581	13.83676437	18.3278455	23.9745695
ENSG00000146373	264.0100311	261.0735702	182.511189	
317.0063594	420.0689928	401.9897951	235.8649301	
379.6883824	-0.684361298	0.00824078	0.061689018	RNF217
6	124962545	125092633	+	12779
protein_coding ring finger protein 217 [Source:HGNC Symbol;Acc:HGNC:21487]	-	291 295	157 306	368
466	1.11512821	1.093834423	0.764380552	
1.330566546	1.770102065	1.695586947		
ENSG00000109654	339.3118613	202.6638901	312.7102538	
222.7332264	105.0172482	125.9453006	284.8953351	
151.2319251	0.912947907	0.008244964	0.061694235	TRIM2
4	153152342	153339320	+	9425
protein_coding tripartite motif containing 2 [Source:HGNC Symbol;Acc:HGNC:15974]	-	374 229	269 215	92
146	1.943206376	1.151278951	1.775733417	
1.267561806	0.600003562	0.720281922		
ENSG00000143933	7529.275767	7829.55212	8479.214094	
6602.227218	6354.685007	6251.545161	7946.013994	
6402.819129	0.311443279	0.008258285	0.061713334	CALM2
2	47160082	47176601	-	6466
protein_coding calmodulin 2 [Source:HGNC Symbol;Acc:HGNC:1445]	-			
8299	8847 7294	6373 5567	7247 62.85194877	
	64.83160418	70.18380429	54.76716518	52.92158968
	52.11390047			
ENSG00000185825	4958.126529	6290.545548	6271.642451	
6580.47188	8404.804331	7927.652826	5840.104843	
7637.643012	-0.387207999	0.008258471	0.061713334	BCAP31
X	153700492	153724746	-	3533
protein_coding B cell receptor associated protein 31 [Source:HGNC Symbol;Acc:HGNC:16695]	-	5465 7108	5395 6352	7363
9190	75.74870498	95.33013818	95.00679293	
99.90308413	128.1027707	120.9491699		
ENSG00000150281	57.15681086	73.45459771	67.42451569	
123.2802509	134.6960357	137.1596082	66.01197475	
131.7119649	-0.99695934	0.008265894	0.061713334	CTF1
16	30896607	30903560	+	1664
protein_coding cardiotrophin 1 [Source:HGNC Symbol;Acc:HGNC:2499]	-			
	63 83	58 119	118 159	
1.854026388	2.36347608	2.16861031	3.973797051	
4.358891367	4.442984729			
ENSG00000169220	320.259591	376.1229401	241.7982632	
511.7684365	369.8433523	640.0781716	312.7269314	
507.2299868	-0.697272798	0.008269595	0.061713334	RGS14
5	177357837	177372601	+	3797
protein_coding regulator of G protein signaling 14 [Source:HGNC				

Symbol;Acc:HGNC:9996]	-	353	425	208	494	324
742	4.55263457	5.303648992	3.408235411			
7.229335757	5.245075853	9.086451781				
ENSG00000139178	104.3338611	149.5641809	146.4739479			
203.049825	256.8356613	238.0883765	133.45733			
232.6579543	-0.802775936	0.008270506	0.061713334			C1RL
12	7089587 7109273	-	5014			protein_coding
complement C1r subcomponent like	[Source:HGNC	Symbol;Acc:HGNC:21265]				
-	115 169	126 196	225 276			
1.123161464	1.597087887	1.563482635	2.172119855			
2.758325718	2.559503752					
ENSG00000149474	412.7991895	441.6125814	401.0596192			
474.4735707	652.9333257	757.3970818	418.4904634			
628.2679927	-0.58649763	0.008270741	0.061713334			KAT14
20	18138118	18188387	+ 4251			
protein_coding lysine acetyltransferase 14	[Source:HGNC					
Symbol;Acc:HGNC:15904]	-	455 499	345 458			572
878	5.241420165	5.562062716	5.049342576			
5.986685126	8.270890745	9.603608096				
ENSG00000006634	1017.935584	879.6851822	903.256012			
793.5518671	632.3864728	536.5614862	933.6255927			
654.1666087	0.514063213	0.0082741	0.061713334			DBF4
7	87876216	87909541	+ 4583			
protein_coding DBF4 zinc finger	[Source:HGNC	Symbol;Acc:HGNC:17364]				
-	1122 994	777 766	554 622			
11.9886887	10.27691981	10.54819156	9.287331684			
7.43031572	6.310612968					
ENSG00000171217	0 0	1.16249165	5.179842475			
26.25431205	5.175834272	0.387497217				
12.2033296	-5.118227314	0.008276759	0.061713334			CLDN20
6	155264013	155276548	+ 1209			
protein_coding claudin 20	[Source:HGNC	Symbol;Acc:HGNC:2042]				
0	0 1	5 23	6 0			0
0.051461275	0.229803028	1.169361781	0.230757576			
ENSG00000127946	623.2814136	479.667373	601.008183			
363.6249417	441.7573375	341.6050619	567.9856565			
382.3291137	0.571856719	0.008281518	0.061713334			HIP1
7	75533300	75738962	- 8953			
protein_coding huntingtin interacting protein 1	[Source:HGNC					
Symbol;Acc:HGNC:4913]	-	687 542	517 351			387
396	3.757654414	2.868515117	3.59276495			
2.178464944	2.656988904	2.056636881				
ENSG00000175283	246.7722627	373.4679546	338.2850701			
409.2075555	519.3787818	566.7538527	319.5084292			
498.44673	-0.642418178	0.008282405	0.061713334			DOLK
9	128945530	128947619	- 2090			
protein_coding dolichol kinase	[Source:HGNC	Symbol;Acc:HGNC:23406]				
-	272 422	291 395	455 657			
6.373108342	9.56737079	8.662705485	10.50177848			
13.3817364	14.61672585					

ENSG00000154380	1495.149592	1133.678791	1319.428023	
1080.51514	945.1552337	833.3093177	1316.085469	
952.9932305	0.46612299	0.008301731	0.061827238	ENAH
1	225486835	225653142	- 15044	
protein_coding	"ENAH, actin regulator [Source:HGNC			
Symbol;Acc:HGNC:18271]"	-	1648 1281	1135 1043	828
966	5.364417445	4.034709267	4.693959989	
3.852414664	3.383096394	2.98569073		
ENSG00000212719	751.2037998	934.5548817	832.3440213	
1010.069283	1260.206978	1186.991326	839.3675676	
1152.422529	-0.457083171	0.008304682	0.061827238	
C17orf51	17 21428381	21574517	-	14794
protein_coding	chromosome 17 open reading frame 51			
[Source:HGNC Symbol;Acc:HGNC:27904]"	-	828 1056		716
975	1104 1376	2.740775137	3.382242517	
3.011162925	3.662107131	4.587021959	4.324778185	
ENSG00000162976	166.0269268	200.0089046	169.7237809	
307.682643	294.5048917	263.9675479	178.5865374	
288.7183608	-0.691640351	0.008316476	0.061867254	PQLC3
2	11155198	11178874	+ 2275	
protein_coding	PQ loop repeat containing 3 [Source:HGNC			
Symbol;Acc:HGNC:28503]"	-	183 226	146 297	258
306	3.939112391	4.707100587	3.992806845	
7.25415936	6.970848837	6.254189608		
ENSG0000007062	0.907250966	0 0	12.43162194	
21.68834474	2.587917136	0.302416989		
12.23596127	-5.122173847	0.008317052	0.061867254	PROM1
4	15963076	16084378	- 7434	
protein_coding	prominin 1 [Source:HGNC Symbol;Acc:HGNC:9454]"			
1	0 0	12 19	3 0.00658728	
0	0 0.089695516	0.157100803	0.018764185	
ENSG00000170222	162.3979229	144.25421	183.6736807	
199.9419195	288.7974325	364.0336771	163.4419379	
284.2576764	-0.8011225	0.008370691	0.062206472	ADPRM
17	10697594	10711233	+ 1620	
protein_coding	"ADP-ribose/CDP-alcohol diphosphatase, manganese			
dependent [Source:HGNC Symbol;Acc:HGNC:30925]"	-	179 163		
158	193 253	422 5.410865018	4.767591433	
6.068046763	6.619944343	9.599594027	12.11235119	
ENSG00000112379	156.9544171	96.46447169	54.63710754	
236.2008168	224.8738902	171.66517	102.6853321	
210.9132923	-1.032761213	0.008372292	0.062206472	
ARFGEF3	6 138161921	138344663	+ 14877	
protein_coding	ARFGEF family member 3 [Source:HGNC			
Symbol;Acc:HGNC:21213]"	-	173 109	47 228	197
199	0.569455017	0.347166312	0.196557374	
0.851591911	0.813950929	0.621968989		
ENSG00000125378	455.4399849	478.7823778	478.9465598	
416.459335	230.5813493	189.78059	471.0563075	
278.9404247	0.756955466	0.008375512	0.062206472	BMP4

14	53949736	53958761	-	3082	
protein_coding	bone morphogenetic protein 4 [Source:HGNC				
Symbol;Acc:HGNC:1071]	-	502	541	412	402
220	7.976268525	8.317466714	8.317090521		202
7.247787679	4.028710823	3.319105558			
ENSG00000125945	362.9003864	296.4733763	416.1720107		
182.3304551	284.2314652	179.4289214	358.5152578		
215.3302806	0.736842119	0.008381074	0.062206472		ZNF436
1	23359448	23369442	-	4392	
protein_coding	zinc finger protein 436 [Source:HGNC				
Symbol;Acc:HGNC:20814]	zf-C2H2	400	335	358	176
208	4.459912553	3.614172828	5.071396211		249
2.22670344	3.484852299	2.20207457			
ENSG00000112763	535.2780699	524.8021258	533.5836673		
248.6324388	385.8242379	401.9897951	531.2212877		
345.4821573	0.620104083	0.008387725	0.062206472		BTN2A1
6	26457904	26476621	+	3787	
protein_coding	butyrophilin subfamily 2 member A1 [Source:HGNC				
Symbol;Acc:HGNC:1136]	-	590	593	459	240
466	7.629312253	7.419691171	7.540918152		338
3.521502331	5.486163613	5.721654502			
ENSG00000164542	403.7266799	274.3484975	331.3101202		
510.732468	496.5489453	511.5449538	336.4617658		
506.2754557	-0.589593685	0.008391341	0.062206472		
KIAA0895	7	36324221	36390125	-	6728
protein_coding	KIAA0895 [Source:HGNC Symbol;Acc:HGNC:22206]				
-	445	310	285	493	435
3.238938574	2.183243379	2.635516405	4.071673825		
3.974208376	4.09826209				
ENSG00000149483	1112.289684	1185.893505	833.506513		
1432.744428	1442.845671	1416.453312	1043.896567		
1430.681137	-0.453518112	0.008393548	0.062206472		
TMEM138	11	61362001	61369509	+	6348
protein_coding	transmembrane protein 138 [Source:HGNC				
Symbol;Acc:HGNC:26944]	-	1226	1340	717	1383
1642	9.457628172	10.00217206	7.027309546		1264
12.10590623	12.23932638	12.02727532			
ENSG00000129636	607.8581472	511.5271985	747.4821309		
423.7111144	465.7286659	360.5831209	622.2891589		
416.6743004	0.578599715	0.008396583	0.062206472		ITFG1
16	47154387	47464149	-	7770	
protein_coding	integrin alpha FG-GAP repeat containing 1 [Source:HGNC				
Symbol;Acc:HGNC:30697]	-	670	578	643	409
418	4.222624541	3.524790103	5.148690673		408
2.924922295	3.22765052	2.50141806			
ENSG00000237441	1561.378912	1712.465621	2051.797762		
1298.068524	1457.685065	1195.617717	1775.214099		
1317.123768	0.430543803	0.008397526	0.062206472		RGL2
6	33291654	33299324	-	4541	
protein_coding	ral guanine nucleotide dissociation stimulator like 2				

[Source:HGNC Symbol;Acc:HGNC:9769]	-	1721	1935	1765
1253	1277	1386	18.55914872	20.19091071
24.18243641	15.33245196	17.28569141	14.19197203	
ENSG00000197903	169.6559306	319.4832503	284.8104542	
376.0565636	449.7477803	446.8470255	257.9832117	
424.2171231	-0.718311583	0.008397821	0.062206472	
HIST1H2BK	6	27146418	27146798	-
protein_coding	histone cluster 1 H2B family member k			381
[Source:HGNC Symbol;Acc:HGNC:13954]	-	187	361	245
363	394	518	24.03506574	44.89610521
40.0081026	52.94118926	63.56508124	63.21727947	
ENSG0000010803	1150.394225	1181.468529	1027.642619	
724.1419779	905.2030197	839.3477911	1119.835124	
822.8975962	0.44516424	0.00840499	0.062213704	SCMH1
1	41027200	41242154	-	4447
protein_coding	Scm polycomb group protein homolog 1 [Source:HGNC			
Symbol;Acc:HGNC:19003]	-	1268	1335	884
973	13.96306654	14.22461685	12.36778657	793
8.734179035	10.96108178	10.17364851		
ENSG00000136169	422.7789501	466.3924457	474.2965932	
640.2285298	729.4132782	578.8307994	454.4893297	
649.4908691	-0.514591912	0.008405832	0.062213704	SETDB2
13	49444374	49495003	+	6678
protein_coding	SET domain bifurcated 2 [Source:HGNC			
Symbol;Acc:HGNC:20263]	MBD	466	527	408
671	3.417182594	3.739302857	3.801198901	618
5.14226086	5.881685568	4.672046145		639
ENSG00000137166	1958.754836	1695.650713	2372.645457	
1232.802509	1625.484363	1528.596388	2009.017002	
1462.29442	0.457764988	0.008415031	0.062233938	FOXP4
6	41546426	41602384	+	6170
protein_coding	forkhead box P4 [Source:HGNC Symbol;Acc:HGNC:20842]			
Fork	2159	1916	2041	1190
17.13547556	14.71420429	20.58091539	1424	1772
14.18639949	13.35394464		10.71701506	
ENSG00000189149	19.05227029	8.849951531	9.299933199	
58.01423571	50.22564044	31.05500563	12.40071834	
46.43162726	-1.897324286	0.008415602	0.062233938	CRYM-
AS1	16	21300849	21339037	+
transcribed_unitary_pseudogene	CRYM antisense RNA 1 [Source:HGNC			
Symbol;Acc:HGNC:34405]	-	21	10	8
36	0.374496226	0.172554348	0.181257631	56
1.133181662	0.984916706	0.609583195		44
ENSG00000105486	1973.270851	1866.454778	2000.648129	
1675.161056	1420.015834	1364.69497	1946.791253	
1486.623953	0.389128881	0.008422851	0.062261519	LIG1
19	48115445	48170603	-	6576
protein_coding	DNA ligase 1 [Source:HGNC Symbol;Acc:HGNC:6598]			
2175	2109	1721	1617	1244
15.19641748	16.28268092	13.66344645	1582	16.19668516
				11.62802444

	11.18602261					
ENSG00000105552	834.6708887	1072.614126	986.9554108			
1235.910414	1313.857094	1351.755384	964.7468083			
1300.507631	-0.431049855	0.008435904	0.062331959			BCAT2
19	48795062	48811029	-	4553		
protein_coding	branched chain amino acid transaminase 2 [Source:HGNC					
Symbol;Acc:HGNC:977]	-	920	1212	849	1193	1151
1567	9.895069766	12.61337798	11.60157325			
14.55978081	15.53907037	16.00303534				
ENSG00000175602	4371.135154	5333.865788	4455.830494			
5200.561844	5887.81485	8304.626089	4720.277145			
6464.334261	-0.453753337	0.008442526	0.062354032			
CCDC85B	11	65890112	65891635	+	1524	
protein_coding	coiled-coil domain containing 85B [Source:HGNC					
Symbol;Acc:HGNC:24926]	-	4818	6027	3833	5020	5158
9627	154.8140999	187.3883837	156.4806707			
183.0335882	208.0385083	293.7223694				
ENSG00000169914	594.2493827	458.4274893	406.8720775			
326.3300759	343.5890403	286.396163	486.5163165			
318.7717597	0.611991481	0.008445942	0.062354032			OTUD3
1	19882513	19912945	+	6767		
protein_coding	OTU deubiquitinase 3 [Source:HGNC					
Symbol;Acc:HGNC:29038]	-	655	518	350	315	301
332	4.739950508	3.627104132	3.217945722			
2.586583012	2.734120677	2.281250229				
ENSG00000172167	445.4602243	407.9827656	387.1097194			
315.9703909	271.6750551	205.3080928	413.5175698			
264.3178463	0.647830345	0.008487915	0.062612736			MTBP
8	120445400	120542133	+	8326		
protein_coding	MDM2 binding protein [Source:HGNC					
Symbol;Acc:HGNC:7417]	-	491	461	333	305	238
238	2.887844266	2.623559751	2.488368377			
2.035520481	1.757065335	1.329142572				
ENSG00000147383	1002.512317	1274.39302	1188.066466			
1301.17643	1781.868744	1685.596694	1154.990601			
1589.547289	-0.460797805	0.008490735	0.062612736			NSDHL
X	152830967	152869729	+	1996		
protein_coding	NAD(P) dependent steroid dehydrogenase-like					
[Source:HGNC	Symbol;Acc:HGNC:13398]		-	1105	1440	1022
1256	1561	1954	27.11005662	34.18443419		
31.85643738	34.96561297	48.07172718	45.519244			
ENSG00000109743	0.907250966	2.654985459	4.6499666			
30.04308635	28.5372957	8.626390453	2.737401008			
22.4022575	-3.056791422	0.008494253	0.062612736			BST1
4	15702950	15738313	+	2980		
protein_coding	bone marrow stromal cell antigen 1 [Source:HGNC					
Symbol;Acc:HGNC:1118]	-	1	3	4	29	25
10	0.016432832	0.047701434	0.083512325			
0.540746575	0.515669096	0.156032388				
ENSG00000188070	558.866595	614.1866363	688.1950567			

784.2281506	821.8741163	1016.188795	620.416096	
874.0970208	-0.496145388	0.008495142	0.062612736	
C11orf95	11	63759892	63768775	-
	protein_coding	chromosome 11 open reading frame 95		5948
	[Source:HGNC Symbol;Acc:HGNC:28449]	-	616	694
	757	720	1178	5.071523426
6.192379917	7.07191388	7.440616086	9.208848935	
ENSG00000163166	895.4567034	822.1604972	759.1070474	
587.3941366	628.9619973	584.0066337	825.5747493	
600.1209225	0.461034901	0.008503141	0.062645587	IWS1
	2	127436207	127526886	-
	4150			
	protein_coding	"IWS1, SUPT6H interacting protein [Source:HGNC		
	Symbol;Acc:HGNC:25467]"	-	987	929
	677	11.64656191	10.60703637	9.789757434
7.591839286	8.161140645	7.585279534		
ENSG00000214253	709.4702554	928.3599156	985.7929191	
668.1996792	541.0671266	626.2759469	874.54103	
611.8475842	0.51427074	0.008513196	0.062693557	FIS1
	7	101239458	101252316	-
	1795			
	protein_coding	"fission, mitochondrial 1 [Source:HGNC		
	Symbol;Acc:HGNC:21689]"	-	782	1049
	726	21.33393579	27.69092581	29.39261635
19.96674656	16.23159691	18.80629247		
ENSG00000169299	1568.63692	1185.893505	1134.59185	
1144.745187	801.3272634	707.3640171	1296.374092	
884.4788225	0.552358116	0.008537057	0.062843111	PGM2
	4	37826633	37862937	+
	3704			
	protein_coding	phosphoglucomutase 2 [Source:HGNC		
	Symbol;Acc:HGNC:8906]"	-	1729	1340
	820	22.85876163	17.14195147	16.39402852
16.57690099	11.64966654	10.29375654		
ENSG00000188895	1725.591337	1716.890597	1985.535738	
1254.557847	1442.845671	1435.431371	1809.339224	
1377.61163	0.392811679	0.008544176	0.062869356	MSL1
	17	40122298	40136916	+
	7397			
	protein_coding	male specific lethal 1 homolog [Source:HGNC		
	Symbol;Acc:HGNC:27905]"	-	1902	1940
	1664	12.59167708	12.42717895	14.36610692
9.097049714	10.5036155	10.45992863		
ENSG00000110955	11327.02831	11631.4913	13536.05277	
9462.536232	10240.32319	9410.529345	12164.85746	
9704.462923	0.32594229	0.008547951	0.062870978	
ATP5F1B	12	56638175	56646068	-
	2322			
	protein_coding	ATP synthase F1 subunit beta [Source:HGNC		
	Symbol;Acc:HGNC:830]"	-	12485	13143
	10909	263.3025195	268.1999752	311.9944209
218.5802083	237.479432	218.4508528		
ENSG00000260920	40.82629347	24.77986429	66.26202404	
107.7407235	95.88531357	112.1430759	43.9560606	
105.256371	-1.269084093	0.008552185	0.062875977	

AL031985.3	1	40464319	40466767	+	2449
sense_overlapping			"novel transcript, sense overlapping		
with ZNF643"	-	45	28	57	104
		84	130		
	0.899813308	0.541745967	1.448081206	2.359698942	
	2.108326469	2.468229765			
ENSG0000031698	3530.113509	4593.124845	5253.299766		
4760.275234	6969.949103	6763.952754	4458.84604		
6164.725697	-0.46758868	0.008558004	0.06289262		SARS
1	109213918	109238169	+	3836	
protein_coding	seryl-tRNA synthetase [Source:HGNC				
Symbol;Acc:HGNC:10537]	-	3891	5190	4519	4595
	7841	49.67196214	64.1084387	73.29436548	6106
66.56086556	97.84205409	95.04381789			
ENSG00000196352	146.9746565	146.0242003	72.07448229		
287.9992416	181.4972007	230.3246251	121.691113		
233.2736891	-0.93473114	0.008566441	0.062928477		CD55
1	207321376	207386804	+	5908	
protein_coding	CD55 molecule (Cromer blood group) [Source:HGNC				
Symbol;Acc:HGNC:2665]	-	162	165	62	278
	267	1.34277489	1.323335303	0.65291711	159
2.614666803	1.654260873	2.101366444			
ENSG00000180537	667.736711	615.9566266	834.6690046		
566.6747667	457.7382231	417.5172979	706.1207807		
480.6434292	0.554446793	0.008597915	0.063133463		RNF182
6	13924446	13980302	+	4090	
protein_coding	ring finger protein 182 [Source:HGNC				
Symbol;Acc:HGNC:28522]	-	736	696	718	547
	484	8.812176557	8.063291722	10.92214613	401
7.43149281	6.026545292	5.502411571			
ENSG00000255306	0.907250966	0.884995153	1.16249165		
38.33083431	0	18.11541995	0.98491259	18.81541809	
	-4.26716544	0.008603154	0.06314134	AC004923.4	
11	68024809	68030461	-	739	
antisense	novel transcript		-	1	1
37	0	21	0.066265007	0.0641183	1
0.084190368	2.782078175	0	1.321313507		
ENSG00000213380	1015.213831	1011.54946	914.8809285		
1070.155455	1377.780637	1688.184612	980.5480731		
1378.706901	-0.491856136	0.008606126	0.06314134		COG8
16	69320140	69339667	-	7450	
protein_coding	component of oligomeric golgi complex 8 [Source:HGNC				
Symbol;Acc:HGNC:18623]	-	1119	1143	787	1033
	1957	7.355335674	7.269698483	6.572419965	1207
7.704706374	9.958601578	12.2142153			
ENSG00000118898	136.9948959	76.10958317	45.33717435		
43.51067679	27.39580388	18.978059	86.14721779		
29.96151322	1.530012428	0.008615512	0.063183996		PPL
16	4882507	4960741	-	7686	protein_coding
periplakin [Source:HGNC	Symbol;Acc:HGNC:9273]				
	-	151	86		
39	42	24	22	0.962066851	0.53018143



	0.31569745	0.303641378	0.191936788	0.133092419	
ENSG00000238123	0	3.539980612	4.6499666	12.43162194	
	22.82983656	35.36820086	2.729982404	23.54321979	
	-3.135860862	0.008628971	0.063256473	MID1IP1-AS1	
X	38801568	38803883	-	376	
antisense	MID1IP1	antisense RNA 1	[Source:HGNC		
Symbol;Acc:HGNC:40932]	-	0	4	4	12 20
	41	0	0.504078979	0.661879596	1.773394858
	3.269561501	5.070222637			
ENSG00000140297	0	2.654985459	2.3249833	34.18696033	
	6.848950969	17.25278091	1.659989586	19.42956407	
	-3.565589067	0.008636405	0.063284744	GCNT3	15
	59594875	59640239	+	6475	protein_coding
	"glucosaminyl (N-acetyl) transferase 3, mucin type				
[Source:HGNC	Symbol;Acc:HGNC:4205]"	-	0	3	2
	33	6	20	0	0.02195371 0.019217508
	0.28319541	0.056958539	0.14362209		
ENSG00000147853	1175.797252	869.9502355	1196.203908		
970.7024797	642.6598993	444.2591083	1080.650465		
685.8738291	0.656416948	0.008658429	0.063419853	AK3	
	9	4709559	4742043	-	4483
adenylate kinase 3	[Source:HGNC	Symbol;Acc:HGNC:17376]	-		1296
	983	1029	937	563	515
10.38989646	14.28083109	11.61402872	7.719461689		
5.341577185					
ENSG00000236829	46.26979926	31.85982551	9.299933199		
79.76957411	122.1396256	62.11001126	29.14318599		
88.00640366	-1.582046913	0.008665136	0.063442712		
Z97634.1	16	382097	392960	+	2291
transcribed_processed_pseudogene			uncharacterized	LOC100134368	
[Source:NCBI	gene;Acc:100134368]	-	51	36	8
	77	107	72	1.090118652	0.744567117
0.217255983	1.8675734	2.870820565	1.461296773		
ENSG00000144647	710.3775064	1038.099315	784.6818637		
1108.48629	1389.195555	1101.590061	844.3862282		
1199.757302	-0.505814813	0.008681463	0.063530347		
POMGNT2	3	43079232	43106076	-	2668
protein_coding	"protein O-linked mannose N-				
	acetylglucosaminyltransferase 2 (beta 1,4-) [Source:HGNC				
Symbol;Acc:HGNC:25902]"	-	783	1173	675	1070 1217
	1277	14.37158343	20.83236747	15.74072727	
22.28486441	28.03832808	22.25543514			
ENSG00000168394	657.7569503	838.09041	838.1564796		
928.2277714	1118.661992	1213.733137	778.00128		
1086.8743	-0.483105597	0.008684289	0.063530347	TAP1	
	6	32845209	32853978	-	4805
protein_coding	"transporter 1, ATP binding cassette subfamily B				
member	[Source:HGNC	Symbol;Acc:HGNC:43]"	-	725	947
	721	896	980	1407	7.388789569 9.338626968
	9.335739381	10.36159615	12.53660793	13.61544134	

ENSG00000197448	756.6473056	877.0301967	883.4936539	
581.1783256	632.3864728	616.7869174	839.0570521	
610.1172386	0.459423126	0.008694094	0.063575789	GSTK1
7	143244093	143270854	+ 4228	
protein_coding	glutathione S-transferase kappa 1 [Source:HGNC			
Symbol;Acc:HGNC:16906]	-	834 991	760 561	554
715	9.659613628	11.10619045	11.18369875	
7.37292687	8.054195115	7.863249958		
ENSG00000280407	60.78581472	48.67473342	30.2247829	
15.53952742	13.69790194	10.35166854	46.56177701	
13.19636597	1.825984593	0.008703551	0.06361864	
AC132872.4	17 82249067	82251844	+ 2778	
TEC	TEC -	67 55	26 15	12
12	1.181058052	0.938116747	0.582301559	
0.300034407	0.265519465	0.200853786		
ENSG00000117569	599.6928885	461.9674699	484.759018	
469.2937282	212.31748	206.1707318	515.4731255	
295.9273134	0.801390812	0.008734269	0.063816807	PTBP2
1	96721665	96823738	+ 12937	
protein_coding	polypyrimidine tract binding protein 2 [Source:HGNC			
Symbol;Acc:HGNC:17662]	-	661 522	417 453	186
239	2.502053345	1.911892043	2.005438386	
1.945703533	0.883744505	0.859004306		
ENSG00000243147	243.1432589	384.9728916	402.2221109	
177.1506126	165.5163151	257.0664355	343.4460871	
199.9111211	0.777277698	0.008771093	0.064059401	MRPL33
2	27771717	27988087	+ 1539	
protein_coding	mitochondrial ribosomal protein L33 [Source:HGNC			
Symbol;Acc:HGNC:14487]	-	268 435	346 171	145
298	8.527561452	13.39297561	13.98763611	
6.174041356	5.791309066	9.00344389		
ENSG00000147274	7395.002624	6780.832863	7966.555277	
6280.041016	5867.267997	5437.213902	7380.796921	
5861.507638	0.332470147	0.008786103	0.064142542	RBMX
X	136848004	136880764	- 5882	
protein_coding	RNA binding motif protein X-linked [Source:HGNC			
Symbol;Acc:HGNC:9910]	-	8151 7662	6853 6062	5140
6303	67.86010957	61.72250852	72.48740595	
57.26680522	53.71374821	49.8256881		
ENSG00000267278	45.3625483	18.58489822	6.974949899	0
5.707459141	0	23.6407988	1.90248638	
3.698911079	0.008791207	0.064153326	MAP3K14-AS1	17
45247925	45268630	+ 3775	antisense	
MAP3K14 antisense RNA 1 [Source:HGNC	Symbol;Acc:HGNC:44359]			
-	50 21	6 0	5 0	
0.64860715	0.263589909	0.098887442	0 0.081414247	
0				
ENSG00000143819	626.0031665	687.641234	789.3318303	
548.0273338	478.285076	447.7096645	700.9920769	
491.3406914	0.512304899	0.008809794	0.064262454	EPHX1

1	225810092	225845563	+	2508	
protein_coding	epoxide hydrolase 1 [Source:HGNC Symbol;Acc:HGNC:3401]				
-	690	777	679	529	419 519
13.47256359	14.67979286	16.84414955			11.72033927
10.26913471	9.622121662				
ENSG00000205707	193.2444558	184.0789918			166.2363059
114.9925029	90.17785443	96.61557307			181.1865845
100.5953101	0.849450507	0.008816585			0.064278602
12	25195216	25209645	+	2466	ETFRF1
protein_coding	electron transfer flavoprotein regulatory factor 1				
[Source:HGNC Symbol;Acc:HGNC:27052]	-			213	208 143
111	79	112			4.229755022
3.607861122	2.501162739	1.969161696			3.996655395
ENSG00000161671	548.8868344	889.4201289			2.111815478
485.8692241	390.3902052	599.5341365			834.6690046
491.9311886	0.621319239	0.008824556			757.658656
19	50476400	50490870	+	10748	0.064278602
protein_coding	ER membrane protein complex subunit 10 [Source:HGNC				
Symbol;Acc:HGNC:27609]	-	605	1005	718	469 342
695	2.756489868	4.430623481			4.156268857
2.424695624	1.955896225	3.00668662			
ENSG00000238279	13.60876449	7.964956378			5.812458249
0	0	9.128726372	0		5.625476754
0.008826471	0.064278602	BX470102.1	1		153533603
153535115	+	531	antisense		novel
transcript	-	15	9	5	0 0 0
1.383328809	0.803108882	0.585844463			0 0
0					
ENSG00000104823	1437.992781	1866.454778			1943.686039
2071.93699	2506.716055	2465.422391			1749.377866
2348.025145	-0.425009567	0.008830962			0.064278602
19	38815422	38832005	-	2467	ECH1
protein_coding	enoyl-CoA hydratase 1 [Source:HGNC				
Symbol;Acc:HGNC:3149]	-	1585	2109	1672	2000 2196
2858	31.46217922	40.5073536			42.16712295
45.04772777	54.71552195	53.86716173			
ENSG00000127184	2318.933469	3039.073356			2651.643453
1920.68559	1959.941469	2211.806512			2669.883426
2030.81119	0.39449751	0.008831099			0.064278602
5	86617904	86620962	+	1993	COX7C
protein_coding	cytochrome c oxidase subunit 7C [Source:HGNC				
Symbol;Acc:HGNC:2292]	-	2556	3434	2281	1854 1717
2564	62.80326674	81.64308992			71.20735156
51.69094534	52.95541266	59.81935697			
ENSG00000254470	840.1143945	948.7148041			809.0941883
870.2135357	1418.874342	1509.618329			865.9744623
1266.235402	-0.548070751	0.008833811			0.064278602
11	65775893	65780802	-	4811	AP5B1
protein_coding	adaptor related protein complex 5 subunit beta 1				
[Source:HGNC Symbol;Acc:HGNC:25104]	-			926	1072 696

840	1243	1750	9.425498168	10.55810239	
9.000792076	9.701881657		15.8811933	16.91350865	
ENSG00000103404	410.0774366		452.2325232	373.1598196	
516.948279	593.5757507		695.2870705	411.8232598	
601.9370334	-0.54736637		0.008840442	0.064300406	USP31
16	23061406		23149270	- 12017	
protein_coding	ubiquitin specific peptidase	31	[Source:HGNC		
Symbol;Acc:HGNC:20060]	-	452	511	321	499
806	1.841921245		2.014889714	1.661941826	520
2.307366209	2.65983467		3.118674137		
ENSG00000139437	716.7282631		690.2962194	685.8700734	
586.3581681	348.1550076		469.2756406	697.6315187	
467.9296054	0.575459007		0.008844214	0.064301395	TCHP
12	109900264		109983841	+ 9054	
protein_coding	trichoplein keratin filament binding		[Source:HGNC		
Symbol;Acc:HGNC:28135]	-	790	780	590	566
544	4.272826758		4.082070992	4.054323214	305
3.473665415	2.07065006		2.79376214		
ENSG00000136156	2247.260643		2376.211986	2787.654976	
2145.490753	1849.216762		1378.497194	2470.375868	
1791.068236	0.464133885		0.008858992	0.064382377	ITM2B
13	48232612		48270357	+ 10706	
protein_coding	integral membrane protein 2B		[Source:HGNC		
Symbol;Acc:HGNC:6174]	-	2477	2685	2398	2071
1598	11.32993585		11.88347596	13.93569993	1620
10.7489218	9.301117605		6.940336923		
ENSG00000178974	457.2544869		481.4373633	639.3704074	
410.243524	214.6004637		345.9182572	526.0207525	
323.5874149	0.698590939		0.00886438	0.064395077	FBX034
14	55271303		55361918	+ 4133	
protein_coding	F-box protein 34		[Source:HGNC		
Symbol;Acc:HGNC:20201]	-	504	544	550	396
5.971642699	6.23677297		8.279500388	5.324046308	
2.796016978	4.511385979				
ENSG00000099204	11.79426256		15.0449176	6.974949899	
39.36680281	29.67878753		61.24737221	11.27137669	
43.43098752	-1.939063687		0.008879546	0.064429245	ABLIM1
10	114431113		114685003	- 10039	
protein_coding	actin binding LIM protein 1		[Source:HGNC		
Symbol;Acc:HGNC:78]	-	13	17	6	38
71	0.063413479		0.080238889	0.037184988	26
0.21033192	0.159195304		0.328850807		
ENSG00000136689	5.443505796		1.769990306	6.974949899	
21.75533839	19.40536108		42.26931322	4.729482	
27.81000423	-2.576744646		0.008879815	0.064429245	IL1RN
2	113107214		113134016	+ 3256	
protein_coding	interleukin 1 receptor antagonist		[Source:HGNC		
Symbol;Acc:HGNC:6000]	-	6	2	6	21
49	0.090239263		0.029105297	0.114649905	17
0.358382622	0.32093116		0.699749669		

ENSG00000103121	589.7131279	738.9709529	631.2329659	
494.1569721	375.5508115	477.9020311	653.3056822	
449.2032715	0.539694667	0.008882439	0.064429245	CMC2
16	80966448	81020270	- 12781	
protein_coding	C-X9-C motif containing 2 [Source:HGNC			
Symbol;Acc:HGNC:24447]	-	650 835	543 477	329
554	2.490446435	3.095623119	2.643271914	
2.073793877	1.582262092	2.01546819		
ENSG00000110944	24.49577608	5.309970919	3.48747495	
13.46759043	49.08414861	105.2419635	11.09774065	
55.93123419	-2.324674712	0.008885384	0.064429245	IL23A
12	56334174	56340410	+ 1187	
protein_coding	interleukin 23 subunit alpha [Source:HGNC			
Symbol;Acc:HGNC:15488]	-	27 6	3 13	43
122	1.113888522	0.239511832	0.157245195	
0.608561785	2.226717369	4.779034105		
ENSG00000183605	364.7148883	406.2127753	361.5349031	
606.0415695	466.8701577	583.1439946	377.4875222	
552.0185739	-0.54851772	0.008887295	0.064429245	SFXN4
10	119140767	119165667	- 1868	
protein_coding	sideroflexin 4 [Source:HGNC Symbol;Acc:HGNC:16088]			
-	402 459	311 585	409 676	
10.53847731	11.64292914	10.35834481	17.40167438	
13.45841129	16.82677324			
ENSG00000119523	518.0403016	602.6816993	553.3460253	
736.5735999	757.9505739	821.2323711	558.0226754	
771.9188483	-0.468335628	0.00890367	0.064521516	ALG2
9	99216426	99221956	- 2983	
protein_coding	"ALG2, alpha-1,3/1,6-mannosyltransferase [Source:HGNC			
Symbol;Acc:HGNC:23159]"	-	571 681	476 711	664
952	9.373710541	10.8173355	9.927972053	
13.24428114	13.68239696	14.83934436		
ENSG00000166135	1421.662264	1464.666978	1256.653474	
1818.124709	1761.321891	1796.014492	1380.994239	
1791.820364	-0.375192928	0.008910613	0.064545387	HIF1AN
10	100529072	100559998	+ 13950	
protein_coding	hypoxia inducible factor 1 subunit alpha inhibitor			
[Source:HGNC Symbol;Acc:HGNC:17113]	-		1567 1655	1081
1755	1543 2082	5.500769822	5.621474323	
4.821235358	6.990608116	6.798906656	6.939649493	
ENSG00000037241	563.4028499	584.0968011	538.2336339	
422.6751459	393.8146807	363.1710381	561.9110949	
393.2202882	0.515944323	0.0089398	0.064730296	
RPL26L1 5	172958729	172969771	+ 1164	
protein_coding	ribosomal protein L26 like 1 [Source:HGNC			
Symbol;Acc:HGNC:17050]	-	621 660	463 408	345
421	26.12566197	26.86688993	24.74770083	
19.47687273	18.21853599	16.81744955		
ENSG00000140104	282.1550504	339.8381388	240.6357715	
475.5095392	404.0881072	438.220635	287.5429869	

439.2727604	-0.609660052	0.008953452	0.064802624	CLBA1
14	104985775	105010482	+ 5225	
protein_coding	clathrin binding box of aftiphilin containing 1			
[Source:HGNC Symbol;Acc:HGNC:20126]	-	311	384	207
459	354	508	2.914759845	3.482341596
2.464852282	4.881332984	4.16451401	4.520728605	
ENSG00000167674	1617.628472	2016.018959	2370.320474	
1311.536115	1510.193689	1576.041536	2001.322635	
1465.92378	0.448458621	0.008962313	0.064840226	HDGFL2
19	4472287	4502211 +	4299	protein_coding HDGF
like 2 [Source:HGNC Symbol;Acc:HGNC:14680]	-	1783	2278	
2039	1266	1323	1827	20.31012431
29.50914506	16.36357925	18.91645533	19.76069069	
ENSG00000172379	995.2543097	990.3095763	1200.853874	
909.5803385	700.8759825	653.8803963	1062.139253	
754.7789058	0.492618548	0.00896618	0.064841682	ARNT2
15	80404350	80597937	+ 7741	
protein_coding	aryl hydrocarbon receptor nuclear translocator 2			
[Source:HGNC Symbol;Acc:HGNC:16876]	bHLH	1097	1119	1033
878	614	758	6.939660806	6.849509303
8.302523254	6.302451207	4.875494422	4.553057723	
ENSG00000253986	8.165258694	13.2749273	5.812458249	0
0	0	9.084214747	0	5.618702341
0.008985252	0.064934052	AC104561.3	8	23493009
23494198	-	715	lincRNA novel transcript	
-	9	15	5	0
0.616403578	0.994057847	0.435081692	0	0
ENSG00000172728	206.8532202	167.2640839	159.261356	
253.8122813	308.2027936	307.0995001	177.7928867	
289.7048583	-0.703243087	0.008986294	0.064934052	FUT10
8	33370824	33473422	-	5606
protein_coding	fucosyltransferase 10 [Source:HGNC			
Symbol;Acc:HGNC:19234]	-	228	189	137
356	1.991638152	1.597478977	1.520457623	270
2.428426898	2.960452048	2.952758461		
ENSG00000071082	6554.888229	9264.129263	8674.512691	
9125.846472	11422.90872	12077.80927	8164.510061	
10875.52149	-0.413722568	0.008990759	0.064939783	RPL31
2	101001715	101024032	+ 5791	
protein_coding	ribosomal protein L31 [Source:HGNC			
Symbol;Acc:HGNC:10334]	-	7225	10468	7462
14001	61.09602707	85.65181886	80.16938027	8809
84.52498234	106.2178961	112.4181693		
ENSG00000261423	5.443505796	14.15992245	15.11239145	0
1.141491828	0	11.5719399	0.380497276	
5.002063875	0.009008934	0.065044502	TMEM202-AS1	15
72407778	72475168	-	2713	lincRNA
TMEM202	antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:53265]			-
6	16	13	0	1
0.279445184	0.298126379	0	0.022656748	0.10830042

ENSG00000100129	3935.65469		3266.51711		3719.97328	
4541.685882	4674.409036		4569.399023		3640.715027	
4595.164647	-0.335956964		0.009014672		0.065059378	EIF3L
22	37848868		37889407		+ 4296	
protein_coding	eukaryotic translation initiation factor 3 subunit L					
[Source:HGNC Symbol;Acc:HGNC:18138]			-		4338 3691	3200
4384	4095 5297		49.44859525		40.71047909	
46.34389721	56.70460329		58.5918207		57.33195065	
ENSG00000069431	208.6677222		192.9289434		96.48680694	
330.4739499	240.8547757		330.3907543		166.0278242	
300.57316	-0.85304889		0.009025022		0.065107513	ABCC9
12	21797401		21942529		- 11616	
protein_coding	ATP binding cassette subfamily C member 9 [Source:HGNC					
Symbol;Acc:HGNC:60]			-		230 218	83 319 211
383	0.969616319		0.889255031		0.444557903	
1.525970449	1.116537238		1.533109549			
ENSG00000146411	10.88701159		7.964956378		8.137441549	0
0	0	8.99646984	0		5.602934441	
0.009037675	0.065172211		SLC2A12 6		133988697	
134052636	-	4468	protein_coding		solute carrier family	
2 member 12	[Source:HGNC Symbol;Acc:HGNC:18067]					
			-		12	9
7	0	0	0		0.131521504	0.095445572
0.097474658	0	0	0			
ENSG00000284693	20.86677222		38.93978674		23.249833	0
1.141491828	8.626390453		27.68546398		3.25596076	
3.043229764	0.009043943		0.065190836		AL928921.2	
1	9425094	9440564	-	2623	lincRNA	
uncharacterized	LOC100506022 [Source:NCBI gene;Acc:100506022]					
					-	
23	44	20	0	1	10	0.429396232
0.794842035	0.474393305		0		0.023434143	
0.177268973						
ENSG00000111667	2136.576025		2449.666584		2445.882431	
1839.880047	1860.63168		1790.838658		2344.04168	
1830.450128	0.356752584		0.009050468		0.065211294	USP5
12	6852128	6866632	+	3738	protein_coding	
ubiquitin specific peptidase 5	[Source:HGNC Symbol;Acc:HGNC:12628]					
					-	2355 2768
			2104	1776	1630	2076
30.85178513	35.08756495		35.01976965		26.40071617	
26.80375673	25.82373582					
ENSG00000167083	49.89880313		23.89486913		36.03724115	0
0	12.93958568		36.61030447		4.313195226	
3.040216938	0.009103847		0.065569199		GNGT2 17	
49202791	49210574		-	1689	protein_coding G	
protein subunit	gamma transducin 2 [Source:HGNC Symbol;Acc:HGNC:4412]					
					-	55 27
			31	0	0	15
1.594636584	0.757461486		1.141928444		0	0
0.412945395						
ENSG00000173511	1416.218758		1681.490791		1442.652138	
1977.663857	1878.895549		2046.179815		1513.453895	
1967.57974	-0.378466906		0.009117235		0.065638899	VEGFB

11	64234538	64238793	+	1545	
protein_coding	vascular endothelial growth factor B [Source:HGNC				
Symbol;Acc:HGNC:12681]	-	1561	1900	1241	1909 1646
2372	49.47697086	58.27087748		49.97469409	
68.65773756	65.48603672	71.38668567			
ENSG00000100311	6.350756762	7.964956378		12.78740815	0
0	0	9.034373763	0	5.606094678	
0.00913731	0.065736184	PDGFB	22	39223359	
39244751	-	3761	protein_coding	platelet derived	
growth factor subunit B [Source:HGNC	Symbol;Acc:HGNC:8800]				
7	9	11	0	0	0.091143015
0.113387614	0.181968493	0	0	0	
ENSG00000253719	1516.016364	1526.616639		1528.67652	
1664.801371	2219.060114	2187.652619		1523.769841	
2023.838035	-0.409515587	0.009138181		0.065736184	
ATXN7L3B	12	74537827	74545430	+	7604
protein_coding	ataxin 7 like 3B [Source:HGNC				
Symbol;Acc:HGNC:37931]	-	1671	1725	1315	1607 1944
2536	10.76125754	10.74913289		10.75946039	
11.74318255	15.7145342	15.50737036			
ENSG00000162804	396.4686721	256.6485944		340.6100534	
208.2296675	192.912119	32.78028372		331.24244	
144.6406901	1.198961817	0.009153456		0.065819301	SNED1
2	240998838	241095568	+	13592	
protein_coding	"sushi, nidogen and EGF like domains 1 [Source:HGNC				
Symbol;Acc:HGNC:24696]"	-	437	290	293	201 169
38	1.574442319	1.010976529		1.341192453	
0.821721661	0.764276839	0.129996377			
ENSG00000169019	855.5376609	854.9053179		749.8071142	
556.3150818	630.1034892	603.8473317		820.0833643	
596.7553009	0.459365302	0.009164196		0.065869753	COMMD8
4	47450796	47463719	-	1766	
protein_coding	COMM domain containing 8 [Source:HGNC				
Symbol;Acc:HGNC:26036]	-	943	966	645	537 552
700	26.14867438	25.9186793		22.72353335	
16.89645633	19.21302459	18.43055269			
ENSG00000122406	19641.98341	21669.10632		24253.06329	
28675.60794	27177.77894	26066.36403		21854.71768	
27306.58364	-0.321348869	0.009194438		0.066049359	RPL5
1	92831983	92841924	+	3717	
protein_coding	ribosomal protein L5 [Source:HGNC				
Symbol;Acc:HGNC:10360]	-	21650	24485	20863	27680 23809
30217	285.2292258	312.1289045		349.2135154	
413.7953141	393.7276857	377.9982608			
ENSG00000198055	873.6826802	946.0598187		914.8809285	
1063.939644	1366.365718	1255.139811		911.5411425	
1228.481724	-0.430338929	0.009196652		0.066049359	GRK6
5	177403204	177442901	+	4355	
protein_coding	G protein-coupled receptor kinase 6 [Source:HGNC				
Symbol;Acc:HGNC:4545]	-	963	1069	787	1027 1197



1455	10.82846286	11.63097137	11.24329018	
13.10371165	16.89481153	15.53480664		
ENSG00000104524	498.9880313	673.4813115	547.5335671	
616.4012545	880.0901995	1112.804368	573.3343033	
869.7652741	-0.601602891	0.009206701	0.066094694	PYCR3
8	143603913	143609773	- 3244	
protein_coding	pyrroline-5-carboxylate reductase 3 [Source:HGNC			
Symbol;Acc:HGNC:25846]	-	550 761	471 595	771
1290	8.302531414	11.11553197	9.033309872	
10.19173596	14.60901358	18.49012652		
ENSG00000227124	103.4266101	117.7043554	82.53690714	
171.9707702	218.0249392	166.4893357	101.2226242	
185.495015	-0.869763294	0.00921325	0.066114879	ZNF717
3	75678660	75785583	- 7641	
protein_coding	zinc finger protein 717 [Source:HGNC			
Symbol;Acc:HGNC:29448]	zf-C2H2	114 133	71 166	191
193	0.730606169	0.824760555	0.578116009	
1.207174164	1.536492794	1.174459722		
ENSG00000132031	57.15681086	18.58489822	54.63710754	
13.46759043	9.131934625	0 43.45960554	7.53317502	
	2.544343521	0.009218908	0.066128658	MATN3 2
	19992111	20012694	- 3118	protein_coding
	matrilin 3 [Source:HGNC	Symbol;Acc:HGNC:6909]	-	63
	21 47 13	8 0	0.989448335	
0.319131464	0.937839658	0.23167506	0.157710728	0
ENSG00000128272	4149.765918	5749.81351	5282.362057	
5909.164295	6240.535825	8360.697627	5060.647162	
6836.799249	-0.434205942	0.009233129	0.066187844	ATF4
22	39519695	39522685	+ 2514	
protein_coding	activating transcription factor 4 [Source:HGNC			
Symbol;Acc:HGNC:786]	TF_bZIP	4574 6497	4544 5704	5467
9692	89.09627979	122.4542984	112.4552916	
126.0742192	133.6691421	179.2582491		
ENSG00000155367	8.165258694	6.194966072	17.43737475	
25.89921237	62.78205055	39.68139608	10.59919984	
42.787553	-2.028209831	0.009234643	0.066187844	PPM1J
1	112709994	112715477	- 2874	
protein_coding	"protein phosphatase, Mg2+/Mn2+	dependent 1J		
[Source:HGNC	Symbol;Acc:HGNC:20785]"	-	9 7	15
25	55 46	0.153350229	0.115408479	
0.324721722	0.483353968	1.176314054	0.744221284	
ENSG00000186716	883.6624409	833.6654342	785.8443553	
910.616307	1238.518634	1356.931218	834.3907435	
1168.68872	-0.486118032	0.009244777	0.066218059	BCR
22	23179704	23318037	+ 12389	
protein_coding	"BCR, RhoGEF and GTPase activating protein			
[Source:HGNC	Symbol;Acc:HGNC:1014]"	-	974 942	676
879	1085 1573	3.849917184	3.60280777	
3.394824202	3.942436126	5.383204092	5.903689225	
ENSG00000157426	221.3692357	213.2838319	182.511189	

315.9703909	350.4379912	302.7863049	205.7214189	
323.0648957	-0.64896072	0.009246346	0.066218059	AASDH
4	56338287	56387508	- 4654	
protein_coding	aminoadipate-semialdehyde dehydrogenase [Source:HGNC			
Symbol;Acc:HGNC:23993]	-	244 241	157 305	307
351	2.567391689	2.453675375	2.098843806	
3.641543516	4.054705879	3.506806119		
ENSG00000162736	1966.012843	1782.380238	2294.758517	
1545.664994	1624.342871	1405.239005	2014.383866	
1525.08229	0.40129484	0.009278327	0.066420202	NCSTN
1	160343272	160358952	+ 4175	
protein_coding	nicastrin [Source:HGNC Symbol;Acc:HGNC:17091]			-
2167	2014 1974	1492 1423	1629 25.4173995	
22.85753678	29.41694138	19.85749158	20.95056697	
18.14243696				
ENSG00000139117	523.4838074	394.7078383	397.5721443	
385.3802801	204.3270372	136.2969692	438.58793	
242.0014288	0.859650655	0.009284843	0.066439962	CPNE8
12	38646822	38907430	- 5178	
protein_coding	copine 8 [Source:HGNC Symbol;Acc:HGNC:23498]			-
577	446 342	372 179	158 5.456855462	
4.0813069	4.109328939	3.992022105	2.124899259	
1.41881594				
ENSG00000196091	0 0	0 9.323716454	4.565967313	
12.93958568	0	8.943089815	-5.639418407	
0.009337644	0.066790773	MYBPC1 12	101568353	
101686018	+ 7385	protein_coding	"myosin binding	
protein C, slow	type [Source:HGNC Symbol;Acc:HGNC:7549]"			-
0	0 0	9 4	15 0	0
0	0.067717989	0.033293301	0.094443436	
ENSG00000105732	736.6877844	998.2745327	936.9682698	
991.4218496	1373.214669	1425.942342	890.643529	
1263.526287	-0.504929462	0.009368252	0.066961596	ZNF574
19	42068477	42081549	+ 4666	
protein_coding	zinc finger protein 574 [Source:HGNC			
Symbol;Acc:HGNC:26166]	zf-C2H2	812 1128	806 957	1203
1653	8.521969555	11.45488691	10.74724511	
11.39670343	15.84777341	16.47248563		
ENSG00000105058	2427.803585	3026.683424	2599.331329	
3032.279785	3510.087372	4111.33769	2684.606113	
3551.234949	-0.403721353	0.009369097	0.066961596	FAM32A
19	16185380	16192046	+ 1921	
protein_coding	family with sequence similarity 32 member A			
[Source:HGNC Symbol;Acc:HGNC:24563]	-	2676 3420	2236	
2927	3075 4766	68.216185	84.35778775	
72.4187928	84.66568008	98.39320686	115.3606492	
ENSG00000113916	525.2983093	580.5568204	696.3324983	
703.422608	980.5414804	901.4578023	600.7292093	
861.8072969	-0.521651452	0.009396129	0.067127678	BCL6
3	187721377	187745727	- 5938	

protein_coding	B cell CLL/lymphoma 6 [Source:HGNC						
Symbol;Acc:HGNC:1001]	ZBTB	579	656	599	679	859	
1045	4.774930492	5.234679384	6.276152328				
6.353918276	8.892017951	8.182897578					
ENSG00000105810	3375.880844	2597.460774	2684.19322				
2526.727159	2107.193915	1708.02531	2885.844946				
2113.982128	0.449498015	0.009413006	0.0672211			CDK6	
7	92604921	92836594	-	12260			
protein_coding	cyclin dependent kinase 6 [Source:HGNC						
Symbol;Acc:HGNC:1777]	-	3721	2935	2309	2439	1846	
1980	14.86270587	11.34342166	11.71764427				
11.05435414	9.255259215	7.509408644					
ENSG00000120327	49.89880313	100.0044523	104.6242485				
210.3016045	143.8279703	159.5882234	84.84250131				
171.2392661	-1.016035153	0.0094262	0.067288156				
PCDHB14 5	141222932	141227759	+	4828			
protein_coding	protocadherin beta 14 [Source:HGNC						
Symbol;Acc:HGNC:8685]	-	55	113	90	203	126	
185	0.557858573	1.109015517	1.159797303				
2.336365691	1.604170937	1.781703713					
ENSG00000186684	168.7486797	171.6890597	283.6479626				
106.704755	67.34801786	141.4728034	208.0285673				
105.1751921	0.977489498	0.009436853	0.067337029				
CYP27C1 2	127184120	127220078	-	4491			
protein_coding	cytochrome P450 family 27 subfamily C member 1						
[Source:HGNC Symbol;Acc:HGNC:33480]	-		186	194	244		
103	59	164	2.028142999	2.046845751			
3.380287332	1.274401322	0.807525633	1.697977031				
ENSG00000143621	6193.802345	6863.137412	7422.509185				
5009.943641	5957.445851	5162.032047	6826.482981				
5376.473847	0.344487748	0.009442787	0.067352202			ILF2	
1	153661788	153671048	-	2281			
protein_coding	interleukin enhancer binding factor 2 [Source:HGNC						
Symbol;Acc:HGNC:6037]	-	6827	7755	6385	4836	5219	
5984	146.5660222	161.0953326	174.1576127				
117.80753	140.6401665	121.9824404					
ENSG00000253598	14.51601546	26.54985459	13.9498998				
79.76957411	75.33846066	27.60444945	18.33858995				
60.90416141	-1.723017429	0.009449841	0.067365314				
SLC10A5 8	81693607	81696174	-	2568			
protein_coding	solute carrier family 10 member 5 [Source:HGNC						
Symbol;Acc:HGNC:22981]	-	16	30	12	77	66	
32	0.305108036	0.553544674	0.290732159				
1.666125646	1.579778781	0.579409988					
ENSG00000104998	118.8498765	130.9792827	137.1740147				
161.6110852	285.372957	241.5389327	129.001058				
229.5076583	-0.831460462	0.009452242	0.067365314			IL27RA	
19	14031748	14053216	+	2962			
protein_coding	interleukin 27 receptor subunit alpha [Source:HGNC						
Symbol;Acc:HGNC:17290]	-	131	148	118	156	250	

280	2.165782923	2.367571492	2.478584901		
2.926520616	5.18802804	4.39545659			
ENSG00000111674	1715.611577	2399.22186	2874.84185		
2683.158402	3496.38947	3640.336771	2329.891762		
3273.294881	-0.491021616	0.009456098	0.067365653	EN02	
12	6913745	6923698 +	4281	protein_coding	
enolase 2 [Source:HGNC Symbol;Acc:HGNC:3353]			-	1891	2711
2473	2590	3063	4220	21.63091967	30.00618141
35.9406341	33.61759028	43.97938269	45.83510613		
ENSG00000188015	68.95107341	73.45459771	124.3866065		
25.89921237	52.5086241	23.29125422	88.93075922		
33.8996969	1.395883739	0.009464127	0.067395706	S100A3	
1	153547329	153549372	-	955	
protein_coding	S100 calcium binding protein A3 [Source:HGNC Symbol;Acc:HGNC:10493]	-	76	83	107
27	3.897076259	4.11814052	6.970874319	25	46
1.454617073	2.960750561	1.314593288			
ENSG00000247157	4.53625483	9.734946684	12.78740815	0	
0	0	9.019536554	0	5.603838262	
0.009537184	0.067888631	LINC01252	12	11548030	
11590369	+	3793	lincRNA	long intergenic non-	
protein coding RNA 1252 [Source:HGNC Symbol;Acc:HGNC:27888]					-
5	11	11	0	0	0.064552913
0.137415677	0.180433299	0	0	0	
ENSG00000107186	986.1818	798.2656281	919.5308951		
734.5016629	644.9428829	548.6384328	901.3261077		
642.6943262	0.488505509	0.009547634	0.067912158	MPDZ	
9	13105704	13279590	-	11273	
protein_coding	multiple PDZ domain crumbs cell polarity complex component [Source:HGNC Symbol;Acc:HGNC:7208]		-	1087	902
791	709	565	636	4.721921041	3.791346447
4.365598817	3.494771391	3.080748892	2.623304032		
ENSG00000106538	2.721752898	13.2749273	11.6249165	0	
0	0	9.207198898	0	5.634641004	
0.009548168	0.067912158	RARRES2 7	150338317		
150341674	-	1921	protein_coding	retinoic acid receptor	
responder 2 [Source:HGNC Symbol;Acc:HGNC:9868]			-	3	15
10	0	0	0	0.076475544	0.369990297
0.323876533	0	0	0		
ENSG00000006576	1858.957229	1499.181789	1758.849866		
1607.823104	1035.333088	791.9026436	1705.662962		
1145.019612	0.575387916	0.009563562	0.067994314	PHTF2	
7	77798792	77957503	+	8646	
protein_coding	putative homeodomain transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:13411]		-	2049	1694
1552	907	918	11.60527433	9.283775197	1513
10.88755955	9.974440164	6.448213612	4.936947036		
ENSG00000196843	429.1297069	477.8973827	419.6594856		
472.4016337	660.9237685	926.4743346	442.2288584		
686.5999123	-0.635363713	0.009574005	0.068041211	ARID5A	

2	96536743	96552638	+	3565	
protein_coding	AT-rich interaction domain 5A [Source:HGNC				
Symbol;Acc:HGNC:17361]	ARID	473	540	361	456 579
1074	6.497260657	7.177292844	6.300202582		
7.107507917	9.983122258	14.00798814			
ENSG00000106034	420.9644482	254.8786041	284.8104542		
225.8411319	151.8184131	188.0553119	320.2178355		
188.571619	0.763722086	0.009586943	0.068105796		CPED1
7	120988677	121297444	+	7705	
protein_coding	cadherin like and PC-esterase domain containing 1				
[Source:HGNC Symbol;Acc:HGNC:26159]	-		464	288	245
218	133	218	2.948994897	1.77111306	
1.978337066	1.572156929	1.061026811	1.315572748		
ENSG00000268516	26.31027801	15.92991276	25.5748163		
42.47470829	74.19696883	77.63751407	22.60500236		
64.7697304	-1.522517519	0.00960629	0.068211093		
AC020915.3	19	58257270	58278808	-	2708
antisense	uncharacterized LOC105372482 [Source:NCBI				
gene;Acc:105372482]	-	29	18	22	41 65
90	0.524418521	0.31495629	0.505453103		
0.841292932	1.475407738	1.545342923			
ENSG00000230160	0	0	0	5.179842475	13.69790194
7.763751407	0	8.880498607	-5.624717826		
0.00961485	0.068211093	AC004854.1	7	44919669	
44920329	+	349	processed_pseudogene		
mitochondrial ribosomal protein S23 (MRPS23)	pseudogene -				0
0	0	5	12	9	0 0 0
0.796079831	2.113504512	1.199079838			
ENSG00000132837	1.814501932	4.424975766	5.812458249		
21.75533839	11.41491828	44.85723035	4.017311982		
26.00916234	-2.714378159	0.009615732	0.068211093		DMGDH
5	78997606	79236038	-	5254	
protein_coding	dimethylglycine dehydrogenase [Source:HGNC				
Symbol;Acc:HGNC:24475]	-	2	5	5	21 10
52	0.018640974	0.045092714	0.059208871		
0.222096273	0.116992303	0.460197541			
ENSG00000168066	6151.161549	6992.346705	6471.591015		
6890.22646	9018.926934	9572.705485	6538.366423		
8493.95296	-0.377543509	0.00961719	0.068211093		SF1
11	64764606	64778786	-	5972	
protein_coding	splicing factor 1 [Source:HGNC Symbol;Acc:HGNC:12950]				
-	6780	7901	5567	6651	7901 11097
55.59536404	62.68861913	57.99736583	61.88411613		
81.32229436	86.40060929				
ENSG00000258648	0	0	0	12.43162194	7.990442797
6.038473317	0	8.820179351	-5.615618015		
0.009630247	0.068276328	UBE2CP1	14	30683045	
30683598	-	554	processed_pseudogene		ubiquitin
conjugating enzyme E2 C	pseudogene 1 [Source:HGNC				
Symbol;Acc:HGNC:19670]	-	0	0	0	12 7

	7	0	0	0	1.20360373	0.7766684	
	0.587515452						
ENSG0000005194	1680.228789		1929.289434		1900.673848		
2090.584423	2604.884352		2491.301563		1836.73069		
2395.590112	-0.383340174		0.009638346		0.068289291		
CIAPIN1	16	57428169	57447528		-	3509	
protein_coding	cytokine induced apoptosis inhibitor 1 [Source:HGNC						
Symbol;Acc:HGNC:28050]	-		1852	2180	1635	2018	2282
	2888	25.8455809	29.43740793		28.98953408		
31.95581052	39.97418629		38.26879952				
ENSG00000171872	5.443505796		9.734946684		11.6249165		0
	0	0	8.934456326	0	5.590805388		
0.009639796	0.068289291		KLF17	1	44118850		
44135140	+	3131	protein_coding	Kruppel like factor 17			
[Source:HGNC	Symbol;Acc:HGNC:18830]						
			zf-C2H2	6	11		10
	0	0	0.093841916		0.16647003		
0.198711856	0	0	0				
ENSG00000133110	53.52780699		96.46447169		38.36222445		
135.7118728	89.0363626		213.9344832		62.78483438		
146.2275729	-1.217164823		0.009683333		0.068570244		POSTN
	13	37562583	37598844		-	5464	
protein_coding	periostin [Source:HGNC Symbol;Acc:HGNC:16953]						
	59	109	33	131	78	248	0.528773893
	0.945240341	0.375759609	1.332209875		0.877467969		
	2.110435134						
ENSG00000164828	5190.382776		5153.326777		5493.935537		
4868.015958	3781.762427		3523.8805		5279.21503		
4057.886295	0.379650286		0.009706482		0.068687162		SUN1
	7	816615	896435	+	11811	protein_coding	Sad1
and UNC84 domain	containing 1 [Source:HGNC Symbol;Acc:HGNC:18587]						
	-	5721	5823	4726	4699	3313	4085
23.71996052	23.36073815		24.89510111		22.10705131		
17.24178108	16.0818649						
ENSG00000139405	530.7418151		699.146171		634.7204408		
542.8474913	1215.688797		1238.749669		621.5361423		
999.0953191	-0.685004558		0.009710894		0.068687162		RITA1
	12	113185526	113192368		+	2309	
protein_coding	RBPJ interacting and tubulin associated 1 [Source:HGNC						
Symbol;Acc:HGNC:25925]	-		585	790	546	524	1065
	1436	12.40682386	16.21173885		14.71213009		
12.61012518	28.35130376		28.91755199				
ENSG00000261801	410.0774366		341.6081291		453.3717435		
306.6466745	200.9025618		255.3411574		401.6857697		
254.2967979	0.65771129		0.009711493		0.068687162		LOXL1-
AS1	15	73908071	73928248		-	4221	
antisense	LOXL1 antisense RNA 1 [Source:HGNC						
Symbol;Acc:HGNC:44169]	-		452	386	390	296	176
	296	5.243868184	4.333096822		5.748520725		
3.896623116	2.562976805		3.260673974				
ENSG00000130332	915.4162247		1540.776562		1394.98998		

578.0704202	788.7708533	1117.980203	1283.727589		
828.2738254	0.631119719	0.009725281	0.068757192	LSM7	
19	2321517	2328620	-	1698	protein_coding "LSM7
homolog, U6 small nuclear RNA and mRNA degradation associated					
[Source:HGNC Symbol;Acc:HGNC:20470]"	-	1009	1741	1200	
558	691	1296	29.09927467	48.58335764	
43.96938658	18.26032726	25.01426357	35.48937358		
ENSG00000167130	511.6895448	500.9072567	539.3961256		
412.315461	335.5985975	311.4126953	517.3309757		
353.1089179	0.55127806	0.009735223	0.068772483	DOLPP1	
9	129081100	129090438	+	2249	
protein_coding dolichyldiphosphatase 1 [Source:HGNC					
Symbol;Acc:HGNC:29565]	-	564	566	464	398 294
361	12.28056455	11.9248635	12.83616739		
9.833444258	8.035358083	7.463607022			
ENSG00000248428	0	0	0	14.50355893	0
18.11541995	0	10.87299296	-5.921930052	0.009736848	
	0.068772483	AC010395.1	5	110970951	
111008899	-	697	lincRNA novel transcript	-	
0	0	0	14	0	21 0 0
0	1.116110776	0	1.400933546		
ENSG00000108953	16194.42974	15900.70792	17131.63944		
14488.0194	12725.3509	12630.7609	16408.9257		
13281.37707	0.305055827	0.009739107	0.068772483	YWHAE	
17	1344272	1400378	-	3847	protein_coding
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein					
epsilon [Source:HGNC Symbol;Acc:HGNC:12851]	-	17850	17967		
14737	13985	11148	14642	227.2190385	221.299189
238.3382487	202.0004459	178.1238748	176.9739052		
ENSG00000075711	2352.501755	1898.314603	2301.733467		
1966.268203	1518.184131	1244.788142	2184.183275		
1576.413492	0.470709741	0.009750194	0.0688233	DLG1	
3	197042560	197299300	-	11001	
protein_coding discs large MAGUK scaffold protein 1 [Source:HGNC					
Symbol;Acc:HGNC:2900]	-	2593	2145	1980	1898 1330
1443	11.54247747	9.238927788	11.19798476		
9.586853417	7.431334949	6.099092002			
ENSG00000153982	60.78581472	44.24975766	48.8246493		
103.5968495	94.74382174	131.1211349	51.28674056		
109.820602	-1.099552606	0.009781005	0.069013244	GDPD1	
17	59220467	59275967	+	2970	
protein_coding glycerophosphodiester phosphodiesterase domain					
containing 1 [Source:HGNC Symbol;Acc:HGNC:20883]	-				67
50	42	100	83	152	1.104706824
0.797700742	0.879831867	1.870921623	1.71778578		
2.379677787					
ENSG00000143776	2052.201685	1594.761266	1749.549933		
1528.05353	1333.262455	1105.903256	1798.837628		
1322.406414	0.444453336	0.00978866	0.069039713		
CDC42BPA	1	226989865	227318474	-	14055

protein_coding	CDC42 binding protein kinase alpha							
[Source:HGNC Symbol;Acc:HGNC:1737]	-	2262	1802	1505				
1475	1168	1282	7.881165258	6.075057286				
6.662120698	5.831405123	5.108099556	4.241194537					
ENSG00000117419	1935.16631	2633.745576	2504.007014					
2634.467883	3165.35684	3847.370142	2357.639633					
3215.731621	-0.448174721	0.009797005	0.06906188	ERI3				
1	44221070	44355260	-	2785				
protein_coding	ERI1 exoribonuclease family member 3 [Source:HGNC							
Symbol;Acc:HGNC:17276]	-	2133	2976	2154	2543	2773		
4460	37.50544645	50.63305924	48.1201914					
50.73798367	61.20290413	74.46302538						
ENSG00000148700	700.3977457	415.0627268	442.9093186					
331.5099184	318.4762201	349.3688133	519.4565971					
333.1183173	0.641242405	0.009799611	0.06906188	ADD3				
10	109996368	110135565	+	6541				
protein_coding	adducin 3 [Source:HGNC Symbol;Acc:HGNC:245]							
772	469	381	320	279	405	5.779653929		
3.397466119	3.623995695	2.718428238	2.621847422					
2.879001507								
ENSG00000081870	613.301653	596.4867332	573.1083834					
370.8767212	414.3615336	464.9624454	594.2989232					
416.7335667	0.511488498	0.009804944	0.069071317	HSPB11				
1	53916574	53945929	-	3236				
protein_coding	heat shock protein family B (small) member 11							
[Source:HGNC Symbol;Acc:HGNC:25019]	-	676	674	493				
358	363	539	10.22979349	9.869106246				
9.478623062	6.147330423	6.895177845	7.744818961					
ENSG00000271856	0	0	0	10.35968495	0			
22.42861518	0	10.92943338	-5.930389621	0.00980876				
0.069071317	LINC01215	3	108125821					
108138610	+	2592	lincRNA long intergenic non-protein					
coding RNA 1215	[Source:HGNC Symbol;Acc:HGNC:49651]					-	0	
0	0	10	0	26	0	0	0	
0.214376436	0	0.466411628						
ENSG00000136942	9943.470587	13753.70967	13901.07515					
14779.12655	16717.14782	17638.38056	12532.7518					
16378.21831	-0.386156793	0.00981993	0.069122459	RPL35				
9	124857880	124861981	-	1535				
protein_coding	ribosomal protein L35 [Source:HGNC							
Symbol;Acc:HGNC:10344]	-	10960	15541	11958	14266	14645		
20447	349.6478466	479.7301585	484.682139					
516.4233654	586.4464429	619.3729513						
ENSG00000143889	962.5932749	981.4596248	1063.67986					
725.1779464	823.0156081	673.7210944	1002.577586					
740.6382163	0.43735242	0.009846248	0.069238432					
HNRNPLL 2	38561978	38603586	-	5923				
protein_coding	heterogeneous nuclear ribonucleoprotein L like							
[Source:HGNC Symbol;Acc:HGNC:25127]	-	1061	1109	915				
700	721	781	8.772074972	8.871892162				



9.61139018	6.567020183	7.482399499	6.131127101		
ENSG00000118113	6.350756762	9.734946684	10.46242485	0	
0	0	8.849376098	0	5.577672916	
0.009847086	0.069238432	MMP8	11	102711795	
102727050	-	3438	protein_coding	matrix	
metallopeptidase 8	[Source:HGNC	Symbol;Acc:HGNC:7175]	-	7	
11	9	0	0	0	0.099705898
0.151604905	0.162870895	0	0	0	
ENSG00000100106	764.8125643	904.4650465	875.3562124		
557.3510503	739.6867047	413.2041027	848.2112744		
570.0806192	0.575005543	0.009848148	0.069238432	TRIOBP	
22	37696988	37776556	+	12254	
protein_coding	TRIO and F-actin binding protein	[Source:HGNC	Symbol;Acc:HGNC:17009]	-	843
479	3.368824464	3.951840981	3.823172968	753	538
2.439587746	3.250457486	1.817559578			648
ENSG00000285922	25.40302705	34.51481097	27.8997996		
3.107905485	0	9.489029498	29.27254587	4.198978328	
2.762994839	0.00985734	0.069259763	AC104453.1		
1	98052077	98054592	-	1784	
lincRNA novel transcript		-	28	39	24
0	11	0.76858493	1.035848396	0.836995722	3
0.093441209	0	0.286700766			
ENSG00000249992	17263.17138	21972.65966	19819.32014		
29628.69895	25515.76684	21562.52558	19685.05039		
25568.99712	-0.377261049	0.009859013	0.069259763		
TMEM158 3	45224466	45226278	-	1813	
protein_coding	transmembrane protein 158 (gene/pseudogene)	[Source:HGNC	Symbol;Acc:HGNC:30293]	-	19028
28600	22353	24996	513.9537299	648.8889423	17049
585.0701663	876.5572228	757.8536982	641.0674555		
ENSG00000259488	21.77402318	12.38993214	9.299933199		
2.07193699	0	0	14.48796284	0.690645663	
4.414955628	0.00986443	0.069270307	AC023355.1	15	
48312353	48331856	-	4710	antisense	
"novel transcript, antisense to DUT"		-	24	14	
8	2	0	0	0.249527846	0.140842449
0.105675893	0.023595063	0	0		
ENSG00000221968	431.8514598	563.7419125	631.2329659		
362.5889732	417.7860091	279.4950507	542.2754461		
353.290011	0.619092734	0.009873455	0.069306169	FADS3	
11	61873519	61892051	-	6283	
protein_coding	fatty acid desaturase 3	[Source:HGNC	Symbol;Acc:HGNC:3576]	-	476
324	3.709954442	4.803953704	5.3769948	543	350
3.095373272	3.580645993	2.397777986			366
ENSG00000112759	2388.791793	2077.96862	2580.731463		
1765.290315	1943.960583	1717.514339	2349.163959		
1808.921746	0.376933443	0.009883649	0.069350205		
SLC29A1 6	44219505	44234151	+	4408	

protein_coding	solute carrier family 29 member 1 (Augustine blood group) [Source:HGNC Symbol;Acc:HGNC:11003]					-	2633	2348
	2220	1704	1703	1991	29.25081404		25.23962788	
	31.33417288		21.48028544		23.74763812		21.00200185	
ENSG00000226053	21.77402318		4.424975766		2.3249833		0	
	0	0	9.507994083	0	5.685780125			
0.009891798	0.069371317		LINC01776		1		98210747	
	98272658	+	2229	lincRNA	long intergenic non-			
protein_coding	RNA 1776 [Source:HGNC Symbol;Acc:HGNC:52566]					-		
	24	5	2	0	0	0	0.527266109	
	0.106288524		0.055824748	0	0	0		
ENSG00000104643	927.2104872		692.9512049		877.6811957			
1219.334919	1086.70022		1108.491173		832.6142959			
1138.175437	-0.451461998		0.009894501		0.069371317			MTMR9
	8	11284416	11328146		+	8804		
protein_coding	myotubularin related protein 9 [Source:HGNC Symbol;Acc:HGNC:14596]					-		
	1285	5.684595219	4.21413233		5.335483293			952
7.428625634	6.646672413		6.786629052					
ENSG00000160255	74.39457921		102.6594378		41.8496994			
23.82727538	20.54685291		33.64292277		72.96790546			
26.00568369	1.486467652		0.009902727		0.069401478			ITGB2
	21	44885953	44931989		-	6797		
protein_coding	integrin subunit beta 2 [Source:HGNC Symbol;Acc:HGNC:6155]					-		
	39	0.590779295	0.808662232		0.329527814			18
0.188028036	0.162780581		0.266795411					
ENSG00000241255	3.629003864		10.61994184		12.78740815		0	
	0	0	9.01211795	0	5.602721983			
0.009907292	0.069405974		AL136126.1		11		33237008	
	33237409	+	402	processed_pseudogene				
ribosomal protein S24 (RPS24)	pseudogene					-	4	12
	11	0	0	0	0.487262088		1.414430569	
	1.702446523	0	0	0				
ENSG00000089472	42.6407954		68.14462679		213.8984636			
48.69051926	34.24475485		28.46708849		108.2279619			
37.13412087	1.54023899		0.009922116		0.069482309			HEPH
	X	66162549	66268867		+	7113		
protein_coding	hephaestin [Source:HGNC Symbol;Acc:HGNC:4866]					-		
	47	77	184	47	30	33	0.323574086	
	0.51293739		1.609429142		0.367161464		0.259248234	
	0.215720863							
ENSG00000165118	253.1230195		246.9136477		369.6723447			
216.5174154	163.2333314		104.3793245		289.903004			
161.3766904	0.845921133		0.009977868		0.069806311			
C9orf64 9	83938311		83956986		-	2729		
protein_coding	chromosome 9 open reading frame 64 [Source:HGNC Symbol;Acc:HGNC:28144]					-		
	121	5.006443867	4.844256252		7.249873535			143
4.255541147	3.220919435		2.061640099					

ENSG00000115526	457.2544869	615.9566266	409.1970608	
686.8471121	731.6962619	732.3805494	494.1360581	
716.9746411	-0.535529089	0.009981197	0.069806311	CHST10
2	100391860	100417656	- 4487	
protein_coding	carbohydrate sulfotransferase 10	[Source:HGNC		
Symbol;Acc:HGNC:19650]	-	504 696	352 663	641
849	5.50051243	7.349869209	4.880827293	
8.210498054	8.781108031	8.797973284		
ENSG00000104783	1322.771908	1532.811605	1411.264863	
1706.240111	1838.943335	2012.536893	1422.282792	
1852.573446	-0.381504199	0.009984983	0.069806311	KCNN4
19	43766533	43781261	- 3408	
protein_coding	potassium calcium-activated channel subfamily N member			
4 [Source:HGNC	Symbol;Acc:HGNC:6293]	-	1458 1732	1214
1647	1611 2333	20.95012514	24.08101246	
22.16286736	26.85381896	29.05650096	31.83069864	
ENSG00000157837	784.7720856	764.6358123	795.1442885	
1040.112369	961.1361193	1132.645066	781.5173955	
1044.631185	-0.419360911	0.009986822	0.069806311	SPPL3
12	120762510	120904371	- 6672	
protein_coding	signal peptide peptidase like 3	[Source:HGNC		
Symbol;Acc:HGNC:30424]	-	865 864	684 1004	842
1313	6.348757712	6.135982971	6.378328911	
8.361606369	7.757171873	9.150392149		
ENSG00000172270	14302.81148	16881.28255	21739.75634	
12804.5706	14664.74552	12639.38729	17641.28346	
13369.5678	0.399948663	0.009988115	0.069806311	BSG
19	571277 583493	+ 3797	protein_coding	
basigin (Ok blood group)	[Source:HGNC	Symbol;Acc:HGNC:1116]	-	
15765	19075 18701	12360 12847	14652 203.3209178	
238.0402459	306.4298578	180.8797367	207.973733	
179.4268079				
ENSG00000127220	688.6034832	946.0598187	838.1564796	
1014.213157	1195.141944	1201.65619	824.2732605	
1137.003764	-0.464148867	0.010003588	0.069886837	ABHD8
19	17292131	17310236	- 2210	
protein_coding	abhydrolase domain containing 8	[Source:HGNC		
Symbol;Acc:HGNC:23759]	-	759 1069	721 979	1047
1393	16.81814861	22.91985535	20.2978406	
24.61514859	29.12069718	29.30824821		
ENSG00000160789	23889.73244	26523.30474	32536.97879	
22192.5171	23220.22677	18601.94837	27650.00532	
21338.23075	0.373833107	0.010009664	0.069901677	LMNA
1	156082573	156140089	+ 6985	
protein_coding	lamin A/C	[Source:HGNC		
Symbol;Acc:HGNC:6636]	-	21422 20342	21564 184.6061306	
26332	29970 27989	170.4141482	179.0088901	
203.3043978	249.30318			
143.5469373				
ENSG00000099991	2159.257299	1792.115185	2190.134268	
1729.031418	1498.77877	1438.881928	2047.168917	

1555.564039	0.396074041	0.010016977	0.069913533	CABIN1
22	24011192	24178628	+ 9388	
protein_coding	calcineurin binding protein 1	[Source:HGNC		
Symbol;Acc:HGNC:24187]	-	2380 2025	1884 1669	1313
1668	12.4145951	10.22064697	12.48575084	
9.8785977	8.596843195	8.261406338		
ENSG00000134186	2322.562473	2011.593983	1906.486306	
1742.499008	1580.966182	1437.156649	2080.214254	
1586.873947	0.391122142	0.010019267	0.069913533	
PRPF38B 1	108692323	108701803	+ 5817	
protein_coding	pre-mRNA processing factor 38B	[Source:HGNC		
Symbol;Acc:HGNC:25512]	-	2560 2273	1640 1682	1385
1666	21.55110709	18.51513201	17.54089023	
16.06715455	14.63518005	13.31701692		
ENSG00000171606	285.7840543	296.4733763	227.8483634	
365.6968787	369.8433523	538.2867643	270.0352647	
424.6089984	-0.65289577	0.010040008	0.069982591	ZNF274
19	58183029	58213562	+ 8333	
protein_coding	zinc finger protein 274	[Source:HGNC		
Symbol;Acc:HGNC:13068]	zf-C2H2	315 335	196 353	324
624	1.851133991	1.904889843	1.463394897	
2.353885682	2.38996196	3.48188342		
ENSG00000014164	571.5681086	704.4561419	595.1957247	
708.6024505	916.617938	1053.282274	623.7399917	
892.8342209	-0.51759722	0.010040765	0.069982591	ZC3H3
8	143437655	143541453	- 3731	
protein_coding	zinc finger CCH-type containing 3	[Source:HGNC		
Symbol;Acc:HGNC:28972]	-	630 796	512 684	803
1221	8.268828489	10.10914113	8.537909726	
10.18692002	13.22932411	15.21673344		
ENSG00000105514	15.42326642	27.43484975	26.73730795	
85.98538508	37.66923033	78.50015312	23.19847471	
67.38492284	-1.54317295	0.010047166	0.069982591	RAB3D
19	11322046	11346270	- 4417	
protein_coding	"RAB3D, member RAS oncogene family	[Source:HGNC		
Symbol;Acc:HGNC:9779]"	-	17 31	23 83	33
91	0.188473461	0.332552897	0.323971856	
1.044149625	0.459233859	0.957954785		
ENSG00000189343	1765.51038	1882.384691	1761.17485	
1947.62077	2618.582254	2577.565467	1803.023307	
2381.256164	-0.401244922	0.01004824	0.069982591	
RPS2P46 17	19445970	19446852	- 883	
processed_pseudogene	ribosomal protein S2 pseudogene 46	[Source:HGNC		
Symbol;Acc:HGNC:35839]	-		1946 2127	1515
1880	2294 2988	107.9222065	114.1387803	
106.7477613	118.3066588	159.6908638	157.3442612	
ENSG00000022567	348.3843709	314.1732794	241.7982632	
427.8549884	372.126336	659.9188696	301.4519712	
486.633398	-0.691022909	0.010049097	0.069982591	
SLC45A4 8	141207166	141308305	- 8608	

protein_coding	solute carrier family 45 member 4 [Source:HGNC						
Symbol;Acc:HGNC:29196]	-	384	355	208	413	326	
765	2.184528171	1.954125876	1.503377074				
2.665998109	2.327891325	4.132284317					
ENSG00000141499	921.7669814	915.9699835	839.3189712				
1019.392999	1225.962223	1405.239005	892.3519787				
1216.864742	-0.447576259	0.010052901	0.069982591			WRAP53	
17	7686071	7703502	+ 5087	protein_coding		WD	
repeat	containing antisense to TP53 [Source:HGNC						
Symbol;Acc:HGNC:25522]	-	1016	1035	722	984	1074	
1629	9.780490912	9.640621957	8.830439239				
10.74843921	12.97746613	14.88985144					
ENSG00000280054	0.907250966	0	0	19.6834014			
7.990442797	6.038473317	0.302416989					
11.23743917	-5.003049462	0.010060295	0.070006516				
AC004241.5	12	47728151	47730598	-		2448	
TEC	TEC	-	1	0	0	19	
7	0.02000402	0	0	0.431274948		7	
0.175765643	0.132958971						
ENSG00000166199	628.7249194	685.8712437	731.2072478				
951.0190783	836.7135101	998.0733754	681.9344703				
928.6019879	-0.446576974	0.0100678	0.070031186			ALKBH3	
11	43880811	43920266	+ 2372				
protein_coding	"alkB homolog 3, alpha-ketoglutaratedependent						
dioxygenase [Source:HGNC	Symbol;Acc:HGNC:30141]"					-	693
775	629	918	733	1157	14.30695574		
15.48151503	16.49843718	21.50502938	18.99488419				
22.68034687							
ENSG00000236939	0	0	0	7.251779464	4.565967313		
14.66486377	0	8.827536849	-5.621428524				
0.010104212	0.070256842	BAALC-AS2	8	103132963			
103141475	-	513	antisense	BAALC			
antisense RNA 2 [Source:HGNC	Symbol;Acc:HGNC:28595]					-	0
0	0	7	4	17	0	0	
0.758215605	0.47928075	1.540857847					
ENSG00000105613	87.09609273	78.76456863	131.3615564				
199.9419195	182.6386925	166.4893357	99.0740726				
183.0233159	-0.889751456	0.010118299	0.070327147			MAST1	
19	12833951	12874951	+ 6533				
protein_coding	microtubule associated serine/threonine kinase 1						
[Source:HGNC	Symbol;Acc:HGNC:19034]					-	96
193	160	193	0.719593544	0.645511211		113	
1.076149559	1.641559748	1.505409612	1.373648667				
ENSG00000242641	12.70151352	15.0449176	0	53.87036173			
26.25431205	60.38473317	9.248810376	46.83646898				
-2.320657641	0.010154152	0.070548623	LINC00971				
3	84638406	84881679	-	8031			
lincRNA	long intergenic non-protein coding RNA 971 [Source:HGNC						
Symbol;Acc:HGNC:48737]	-	14	17	0	52	23	
70	0.085366425	0.100301109	0	0.359787244			

	0.176037653	0.405283975				
ENSG0000042832	12.70151352	7.964956378	5.812458249	0		
	0	8.826309384	0	5.57677445		
0.010174198	0.070634774	TG	8	132866958		
133134903	+	11132	protein_coding	thyroglobulin		
[Source:HGNC Symbol;Acc:HGNC:11764]	-			14	9	5
	0	0	0.061586216	0.038308553		
0.02794497	0	0	0			
ENSG00000108439	840.1143945	644.2764715	633.5579492			
507.6245625	513.6713227	468.4130016	705.9829384			
496.5696289	0.508682828	0.010177783	0.070634774			PNPO
	17	47941506	47949308	+	5226	
protein_coding	pyridoxamine 5'-phosphate oxidase	[Source:HGNC				
Symbol;Acc:HGNC:30260]	-	926	728	545	490	450
	543	8.677013334	6.600675988	6.488345138		
5.210011936	5.292860754	4.831271482				
ENSG00000133739	744.8530431	532.7670822	498.7089178			
494.1569721	326.4666629	319.1764468	592.109681			
379.9333606	0.641178866	0.010178531	0.070634774			LRRCC1
	8	85107147	85146076	+	5065	
protein_coding	leucine rich repeat and coiled-coil centrosomal					
protein 1 [Source:HGNC Symbol;Acc:HGNC:29373]	-		821	602		
	429	477	286	370	7.937658145	5.631751487
	5.269685406	5.233002871	3.470834803	3.396669507		
ENSG00000104901	0.907250966	0	0	18.64743291		
3.424475485	12.07694663	0.302416989				
11.38295168	-5.024796587	0.010182598	0.070635286			DKKL1
	19	49361783	49375116	+	1461	
protein_coding	dickkopf like acrosomal protein 1 [Source:HGNC					
Symbol;Acc:HGNC:16528]	-	1	0	0	18	3
	14	0.033518029	0	0	0.684595961	
0.126217159	0.445562711					
ENSG00000151131	553.4230892	582.3268108	526.6087174			
1030.788652	636.9524401	755.6718037	554.1195391			
807.8042987	-0.543645754	0.01019731	0.070709609			
C12orf45	12	104986310	105074197	+		25887
	protein_coding	chromosome 12 open reading frame 45				
[Source:HGNC Symbol;Acc:HGNC:28628]	-		610	658		453
	995	558	876	1.153922907	1.204399623	
1.088737859	2.135764683	1.324951055	1.573451644			
ENSG00000122884	1199.385777	1100.93397	2266.858717			
947.9111728	1150.623763	873.8533529	1522.392822			
990.7960962	0.619120681	0.010208011	0.070756075			P4HA1
	10	73007217	73096974	-	3093	
protein_coding	prolyl 4-hydroxylase subunit alpha 1 [Source:HGNC					
Symbol;Acc:HGNC:8546]	-	1322	1244	1950	915	1008
	1013	20.93052967	19.05754269	39.22487226		
16.43816054	20.03216886	15.22861978				
ENSG00000138757	4010.956521	3810.789129	3883.884602			
5220.245246	4828.510433	4541.794573	3901.876751			

4863.516751	-0.317728152	0.010259901	0.0710657	G3BP2
4	75642782	75724525	- 7183	
protein_coding	G3BP stress granule assembly factor 2 [Source:HGNC			
Symbol;Acc:HGNC:30291]	-	4421 4306	3341 5039	4230
5265	30.14000583	28.40498733	28.93859593	
38.98078094	36.19777374	34.08187876		
ENSG00000173548	481.7502629	508.872213	1068.329826	
444.4304843	343.5890403	447.7096645	686.3174341	
411.9097297	0.734137129	0.010260716	0.0710657	SNX33
15	75647906	75662301	+ 8008	
protein_coding	sorting nexin 33 [Source:HGNC Symbol;Acc:HGNC:28468]			
-	531 575	919 429	301 519	
3.247125993	3.402281323	7.140001344	2.976769939	
2.310413914	3.013521619			
ENSG00000086589	1117.73319	1250.498151	1470.551937	
1650.297812	1834.377368	1614.860293	1279.594426	
1699.845158	-0.410235671	0.010271269	0.071110953	RBM22
5	150690794	150701107	- 3615	
protein_coding	RNA binding motif protein 22 [Source:HGNC			
Symbol;Acc:HGNC:25503]	-	1232 1413	1265 1593	1607
1872	16.68902979	18.52082384	21.77153603	
24.48609431	27.32467061	24.0784519		
ENSG00000273416	0 7.079961225	6.974949899	39.36680281	
37.66923033	15.52750281	4.684970375	30.85451198	
-2.729636657	0.010289489	0.071209221	AL732292.2	
1	235104180	235104609	- 430	
lincRNA novel transcript	-	0	8 6	38
33	18 0	0.881552075	0.868139749	
4.910516613	4.717292919	1.946413319		
ENSG00000144959	1385.372225	1047.834261	1156.679192	
1046.32818	778.4974268	714.2651295	1196.628559	
846.3635787	0.500097587	0.010304235	0.071283387	NCEH1
3	172630249	172711218	- 4808	
protein_coding	neutral cholesterol ester hydrolase 1 [Source:HGNC			
Symbol;Acc:HGNC:29260]	-	1527 1184	995 1010	682
828	15.55260928	11.66846383	12.87554047	
11.67263642	8.71901201	8.007499052		
ENSG00000196653	68.04382245	52.21471403	69.74949899	
126.3881564	90.17785443	182.8794776	63.33601183	
133.1484961	-1.076551866	0.010319318	0.071359819	ZNF502
3	44712643	44723831	+ 3273	
protein_coding	zinc finger protein 502 [Source:HGNC			
Symbol;Acc:HGNC:23718]	zf-C2H2	75 59	60 122	79
212	1.122131985	0.85414666	1.140544125	
2.071218273	1.483639701	3.011763556		
ENSG00000101972	4823.853386	3701.04973	4820.852872	
3803.040345	3362.834926	3001.983878	4448.58533	
3389.286383	0.392363542	0.010337013	0.071454249	STAG2
X	123960212	124422664	+ 8187	
protein_coding	stromal antigen 2 [Source:HGNC Symbol;Acc:HGNC:11355]			

-	5317	4182	4147	3671	2946	3480	
31.80318046	24.20391833		31.51491148		24.91561651		
22.11848172	19.7644836						
ENSG00000183644	0.907250966		25.66485944		3.48747495	0	
0	0	10.01986179	0		5.761446137		
0.01034172	0.071458859		C11orf88		11	111514785	
111537031	+		3280	protein_coding		chromosome 11	
open reading frame 88 [Source:HGNC Symbol;Acc:HGNC:25061]						-	
1	29	3	0	0	0	0.014929829	
0.41893881	0.056905502		0	0	0	0	
ENSG00000185721	614.208904		770.8307784		632.3954575		
828.7747959	970.2680539		987.7217068		672.47838		
928.9215189	-0.46565979		0.010365698		0.071596576	DRG1	
22	31399523		31530634	+	2279		
protein_coding	developmentally	regulated	GTP	binding	protein 1		
[Source:HGNC Symbol;Acc:HGNC:3029]			-	677	871	544	
800	850	1145	14.54698621		18.10924193		
14.8511957	19.50552776		22.92566599		23.36104035		
ENSG00000170608	29.93928188		39.82478189		40.68720775		
56.97826722	136.9790194		81.08807026		36.8170905		
91.68178562	-1.315813267		0.010376964		0.071646414	FOXA3	
19	45863989		45873797	+	2192		
protein_coding	forkhead	box A3	[Source:HGNC	Symbol;Acc:HGNC:5023]			
Fork	33	45	35	55	120	94	
0.737228428	0.972743651		0.993423298		1.39422923		
3.365023151	1.993968632						
ENSG00000166507	26.31027801		3.539980612		5.812458249	0	
0	0.862639045		11.88757229		0.287546348		
5.045189117	0.010386301		0.0716829		NDST2	10	
73801911	73811798		-	4654	protein_coding	N-	
deacetylase and	N-sulfotransferase 2	[Source:HGNC					
Symbol;Acc:HGNC:7681]	-	29	4	5	0	0	
1	0.305140815		0.040724902		0.066842159	0	
0	0.009990901						
ENSG00000132612	1639.402496		2084.163586		1961.123413		
2207.648863	2495.301136		2785.461477		1894.896498		
2496.137159	-0.397899403		0.010428121		0.071917571	VPS4A	
16	69311356		69326939	+	5670		
protein_coding	vacuolar	protein	sorting 4	homolog A	[Source:HGNC		
Symbol;Acc:HGNC:13488]	-	1807	2355	1687	2131	2186	
3229	15.60643749		19.68041687		18.51138316		
20.88393989	23.69815081		26.47987949				
ENSG00000175471	495.3590274		370.8129692		408.0345691		
267.2798717	317.3347282		254.4785184		424.7355219		
279.6977061	0.604159873		0.010430945		0.071917571	MCTP1	
5	94703741		95284575	-	12089		
protein_coding	multiple	C2 and	transmembrane	domain	containing 1		
[Source:HGNC Symbol;Acc:HGNC:26183]			-	546	419	351	
258	278	295	2.211724092		1.642290899		
1.806440184	1.185881713		1.413519417		1.134651931		



ENSG00000188710	29.93928188	24.77986429	10.46242485	0
5.707459141	0	21.72719034	1.90248638	
3.577938035	0.0104325	0.071917571	QRFP	9
130892702	130896812	-	1658	protein_coding
pyroglutamylated RFamide peptide [Source:HGNC Symbol;Acc:HGNC:29982]				
-	33	28	9	0
0.974671118	0.800202578	0.337726259	0	0.185367178
0				
ENSG00000218175	119.7571275	123.8993214	131.3615564	
185.4383606	228.2983656	222.5608737	125.0060018	
212.0992	-0.763530065	0.010441329	0.071950398	
AC016739.1	2	176200908	176201252	-
processed_pseudogene	"ribosomal protein, large, P1 (RPLP1)			345
pseudogene"	-	132	140	113
18.73628654	19.22805614	20.37821758	28.83008877	258
35.63348187	34.77215677			
ENSG00000168255	0.907250966	1.769990306	3.48747495	
27.97114936	25.11282022	5.175834272	2.054905407	
19.41993462	-3.266600794	0.010476847	0.072167036	
POLR2J3	7	102537918	102572653	-
protein_coding	RNA polymerase II subunit J3 [Source:HGNC			3190
Symbol;Acc:HGNC:33853]	-	1	2	3
6	0.015351047	0.029707476	0.058510986	22
0.470310987	0.42391556	0.087456398		
ENSG00000065882	1431.642024	1294.747909	1450.789579	
1075.335298	1160.897189	874.7159919	1392.393171	
1036.982826	0.425880996	0.010483954	0.07218788	TBC1D1
4	37891087	38139175	+	9032
protein_coding	TBC1 domain family member 1 [Source:HGNC			
Symbol;Acc:HGNC:11578]	-	1578	1463	1248
1014	8.55562525	7.675149401	8.596813457	1017
6.38594933	6.921247573	5.220174781		
ENSG00000176946	1217.530796	1284.127967	1354.302772	
1232.802509	2125.457784	2154.009696	1285.320512	
1837.42333	-0.515850884	0.01049078	0.072206775	THAP4
2	241584405	241637449	-	3147
protein_coding	THAP domain containing 4 [Source:HGNC			
Symbol;Acc:HGNC:23187]	THAP	1342	1451	1165
2497	20.88259455	21.8472667	23.03223214	1862
21.0117518	36.36891073	36.89375144		
ENSG00000228474	397.3759231	577.0168398	702.1449565	
236.2008168	401.8051235	393.3634046	558.8459065	
343.7897817	0.699688116	0.010495986	0.072214503	OST4
2	27070472	27071773	-	719
protein_coding	"oligosaccharyltransferase complex subunit 4, non-			
catalytic [Source:HGNC Symbol;Acc:HGNC:32483]"	-		438	652
604	228	352	456	29.83141842
52.26547417	17.62049077	30.09269846	29.48947021	
ENSG00000155034	1025.193592	1024.824387	960.2181028	
1224.514761	1213.405813	1662.30544	1003.412027	

1366.742005	-0.446375298	0.010513547	0.07228231	FBXL18
7	5431335	5513798	-	5088
protein_coding	"BCL2, apoptosis regulator [Source:HGNC Symbol;Acc:HGNC:21874]"			F-box
18	-	1130	1158	826
1927	10.87577025	10.78419911	10.10042833	1182
12.90869732	12.84202533	17.61025441		1063
ENSG00000171791	462.6979926	350.4580806	363.8598864	
241.3806593	184.9216762	303.6489439	392.3386532	
243.3170931	0.687091022	0.010517421	0.07228231	BCL2
18	63123346	63320128	-	11765
protein_coding	"BCL2, apoptosis regulator [Source:HGNC Symbol;Acc:HGNC:990]"			
182	-	510	396	313
352	2.122789487	1.594886182	1.655233444	233
1.10046449	0.846389843	1.391174954		162
ENSG00000161904	1721.962333	2067.348678	1906.486306	
2181.74965	2474.754283	2790.637311	1898.599106	
2482.380415	-0.387032933	0.0105181	0.07228231	LEMD2
6	33771202	33789136	-	6788
protein_coding	LEM domain containing 2 [Source:HGNC Symbol;Acc:HGNC:21244]"			
182	-	1898	2336	1640
3235	13.69250972	16.30637575	15.03172635	2106
17.23965525	19.63201171	22.15967923		2168
ENSG00000132716	781.1430817	761.9808268	602.1706746	
874.3574097	1168.887632	963.5678136	715.0981944	
1002.270952	-0.485541739	0.010526718	0.072313442	DCAF8
1	160215715	160262531	-	7587
protein_coding	DDB1 and CUL4 associated factor 8 [Source:HGNC Symbol;Acc:HGNC:24891]"			
182	-	861	861	518
1117	5.557273243	5.377241085	4.247824078	844
6.181365248	8.296162168	6.845640797		1024
ENSG00000215784	176.0066874	137.1742487	174.3737475	
127.4241249	45.65967313	23.29125422	162.5182279	
65.45835074	1.314666811	0.010553361	0.072468325	FAM72D
1	145096000	145112696	+	2397
protein_coding	family with sequence similarity 72 member D [Source:HGNC Symbol;Acc:HGNC:33593]"			
182	-	-	194	155
123	40	27	3.963349573	3.064009482
3.893409387	2.851340751	1.025744785	0.523753271	
ENSG00000075618	8395.700439	9933.185599	12574.67218	
12062.81715	14343.98631	14304.28065	10301.18607	
13570.36137	-0.397808399	0.010562976	0.072506199	FSCN1
7	5592823	5606655	+	3692
protein_coding	actin-bundling protein 1 [Source:HGNC Symbol;Acc:HGNC:11148]"			fascin
182	-	-	-	-
9254	11224	10817	11644	12566
144.049716	182.2854413	175.2477893	209.2101367	16582
208.8364185				122.7429301
ENSG00000095002	2077.604712	1832.824962	1675.150467	
1638.902159	1280.753831	1242.200225	1861.860047	
1387.285405	0.424983403	0.010600329	0.072734378	MSH2
2	47402969	47663146	+	13777

protein_coding	mutS homolog 2 [Source:HGNC Symbol;Acc:HGNC:7325]						
-	2290	2071	1441	1582	1122	1440	
8.139720782	7.122818554		6.507529852		6.38063445		
5.005939064	4.8600289						
ENSG00000263307	0	0.884995153	0		4.14387398		
13.69790194	15.52750281		0.294998384				
11.12309291	-4.99059528		0.010608811		0.072764351		
AC007216.4	16	11851649		11895611	+	562	
antisense	"novel transcript, antisense to GSPT1"					-	
0	1	0	4	12	18	0	
0.084312142	0	0.395490194		1.31247878		1.489248625	
ENSG00000072274	9335.61244		9500.422969		8208.35354		
8749.789908	5544.225809		5671.851723		9014.796316		
6655.289147	0.437881358		0.010614702		0.072776535	TFRC	
3	196027183		196082189		-	7887	
protein_coding	transferrin receptor [Source:HGNC						
Symbol;Acc:HGNC:11763]	-		10290	10735	7061	8446	
6575	63.88990134		64.49360432		55.70077236	4857	
59.50470136	37.85328921		38.76278162				
ENSG00000233966	191.4299538		259.3035799		277.8355043		
74.58973163	184.9216762		125.9453006		242.856346		
128.4855695	0.91967388		0.010624528		0.072815682		
UBE2SP1	17	15704232		15704900	-	669	
processed_pseudogene	ubiquitin conjugating enzyme E2 S pseudogene 1						
[Source:HGNC Symbol;Acc:HGNC:30864]	-				211	293	
72	162	146			15.44489717	20.75238154	
22.2268864	5.980237367		14.88456877		10.14746954		
ENSG00000155111	873.6826802		609.7616605		952.0806613		
650.5882148	495.4074534		508.0943977		811.8416673		
551.3633553	0.557409067		0.010644993		0.072927685	CDK19	
6	110609978		110815958		-	7492	
protein_coding	cyclin dependent kinase 19 [Source:HGNC						
Symbol;Acc:HGNC:19338]	-		963	689	819	628	
589	6.294441505		4.357605336		6.801316412	434	
4.657725807	3.560732274		3.65551478				
ENSG00000161013	3097.354798		3468.296005		4036.171008		
2773.287661	2717.892043		2772.521892		3533.940604		
2754.567198	0.359070247		0.010669266		0.073065681	MGAT4B	
5	179797597		179806952		-	5495	
protein_coding	"alpha-1,3-mannosyl-glycoprotein 4-beta-N-						
acetylglucosaminyltransferase B	[Source:HGNC Symbol;Acc:HGNC:7048]"						
-	3414	3919			3472	2677	
30.42457383	33.79356485		39.3114322		2381	3214	
26.63416334	27.19626059				27.07027814		
ENSG00000118156	5.443505796		15.0449176		12.78740815	0	
1.141491828	0		11.09194385		0.380497276		
4.941973582	0.010689602		0.073176614		ZNF541	19	
47520685	47555856		-	4655	protein_coding	zinc	
finger protein	541	[Source:HGNC Symbol;Acc:HGNC:25294]				zf-C2H2	6
17	11	0	1	0	0.06311902		

0.173043654	0.14702116	0	0.013204674	0			
ENSG00000248487	147.8819075	146.0242003	181.3486974				
224.8051634	280.8069897	272.5939383	158.4182684				
259.4020305	-0.713488597	0.010696587	0.073196102				
ABHD14A 3	51971426	51981199	+	2378			
protein_coding	abhydrolase domain containing 14A [Source:HGNC						
Symbol;Acc:HGNC:24538]	-	163	165	156	217	246	
316	3.356637465	3.287748095	4.081498063				
5.070606715	6.358733402	6.178830056					
ENSG00000117748	2367.01777	2492.146351	2370.320474				
2833.373834	3054.632132	3202.978775	2409.828199				
3030.328247	-0.33058203	0.01070348	0.073214948			RPA2	
1	27891524	27914746	-	2019			
protein_coding	replication protein A2 [Source:HGNC						
Symbol;Acc:HGNC:10290]	-	2609	2816	2039	2735	2676	
3713	63.2799961	66.08802483	62.83299386				
75.27193065	81.46989383	85.51053988					
ENSG00000170925	0	0	1.16249165	0	21.68834474		
18.978059	0.387497217	13.55546791	-5.274941164				
0.010722291	0.07331527	TEX13B X	107980864				
107982370	-	1248	protein_coding	testis			
expressed 13B [Source:HGNC	Symbol;Acc:HGNC:11736]				-	0	
0	1	0	19	22	0	0	
0.049853111	0	0.935807186	0.819670139				
ENSG00000181929	1265.615098	1364.662526	1304.315631				
1695.880426	1518.184131	1957.327994	1311.531085				
1723.797517	-0.394875342	0.010745597	0.073446237			PRKAG1	
12	49002274	49018825	-	4184			
protein_coding	protein kinase AMP-activated non-catalytic subunit						
gamma 1 [Source:HGNC	Symbol;Acc:HGNC:9385]				-	1395	1542
1122	1637	1330	2269	16.3271813	17.46301145		
16.68430144	21.74047593	19.53922461	25.21586311				
ENSG00000231948	3.629003864	12.38993214	10.46242485	0			
0	0	8.827120286	0	5.574200442			
0.010788231	0.073671844	HS1BP3-IT1	2	20590775			
20592548	-	600	sense_intronic	HS1BP3			
intronic transcript 1 [Source:HGNC	Symbol;Acc:HGNC:41474]				-		
4	14	9	0	0	0	0.326465599	
1.105613228	0.93325023	0	0	0	0		
ENSG00000166526	520.7620545	579.6718253	505.6838677				
654.7320888	785.3463778	794.4905607	535.3725825				
744.8563424	-0.47600984	0.010788292	0.073671844			ZNF3	
7	100064033	100082548	-	5424			
protein_coding	zinc finger protein 3 [Source:HGNC						
Symbol;Acc:HGNC:13089]	zf-C2H2	574	655	435	632	688	
921	5.182280248	5.722002721	4.989722838				
6.474547793	7.796795037	7.895342373					
ENSG00000168575	1697.466557	1736.36049	1483.339345				
2038.785998	1966.79042	2411.938771	1639.055464				
2139.17173	-0.384155228	0.010791099	0.073671844				

SLC20A2	8	42416475	42541926	-	6641	
protein_coding		solute carrier family 20 member 2 [Source:HGNC				
Symbol;Acc:HGNC:		10947]	-	1871	1962	1276 1968 1723
	2796	13.79650208	13.99883722			11.95429698
16.46658944		15.9477404	19.5764845			
ENSG00000087263		1807.243924	2096.553518			1904.161323
2182.785619		2681.364304	2672.455762			1935.986255
2512.201895		-0.375837624	0.010809114			0.073766362
	16	56451490	56479100			OGFOD1
				+	5806	
protein_coding		2-oxoglutarate and iron dependent oxygenase domain				
containing 1		[Source:HGNC Symbol;Acc:HGNC:25585]			-	1992
	2369	1638	2107	2349	3098	16.80122648
19.3336775		17.5526912	20.16506136			24.86871501
24.81049334						
ENSG00000181830		797.4735991	938.9798575			1049.72996
1147.853092		1353.809308	1261.178284			928.7278055
1254.280228		-0.434204498	0.010835953			0.073921009
SLC35C1	11	45804072	45813015			+ 4505
protein_coding		solute carrier family 35 member C1 [Source:HGNC				
Symbol;Acc:HGNC:		20197]	-	879	1061	903 1108 1186
	1462	9.554825574	11.15955892			12.47095757
13.66649065		16.18218843	15.08980388			
ENSG00000120942		1161.281236	1439.002119			1119.479459
1474.183168		1767.02935	1731.316564			1239.920938
1657.509694		-0.4182195	0.010847431			0.073963832
	1	11273206	11296049			UBIAD1
				+	5082	
protein_coding		UbiA prenyltransferase domain containing 1				
[Source:HGNC Symbol;Acc:HGNC:		30791]	-	1280	1626	963
	1423	1548	2007	12.33400137		15.16045799
11.78958378		15.55902157	18.72335431			18.36300405
ENSG00000134684		3971.037478	4963.052819			5200.987642
5518.604172		6250.809251	6396.468521			4711.692646
6055.293981		-0.362163412	0.010850593			0.073963832
	1	32775237	32818153			YARS
				-	8212	
protein_coding		tyrosyl-tRNA synthetase [Source:HGNC				
Symbol;Acc:HGNC:		12840]	-	4377	5608	4474 5327 5476
	7415	26.10094848	32.35828569			33.89642417
36.0450639		40.9884843	41.9849106			
ENSG00000105778		1753.716117	1753.175398			1614.700902
2267.735035		2481.603234	1922.822432			1707.197472
2224.053567		-0.380829801	0.010868926			0.0740296
	7	32495426	32588721			AVL9
				+	14757	
protein_coding		AVL9 cell migration associated [Source:HGNC				
Symbol;Acc:HGNC:		28994]	-	1933	1981	1389 2189 2174
	2229	6.414494843	6.360816091			5.856134126
8.242514654		9.055424681	7.023328942			
ENSG00000164758		407.3556837	460.1974796			442.9093186
314.9344225		324.1836792	222.5608737			436.8208273
287.2263251		0.606922831	0.010871596			0.0740296
	8	117520713	117540262			MED30
				+	1440	



	350.2688003	393.8315971	382.9140449	488.0995161	
	470.0912567				
ENSG00000148110	1709.26082	1637.241033	1665.850534		
1328.11161	1408.600916	979.9579554	1670.784129		
1238.890161	0.432424276	0.010920428	0.074158532		
MFS14B 9	94374551	94461042	+	3428	
protein_coding	major facilitator superfamily domain containing			14B	
[Source:HGNC Symbol;Acc:HGNC:23376]	-	1884	1850	1433	
1282	1234	1136	26.91341256	25.57156782	
26.00831544	20.78065612	22.12695775	15.40879		
ENSG00000185049	731.2442786	806.2305845	916.0434201		
983.1341017	1073.002318	1323.288295	817.8394277		
1126.474905	-0.463316834	0.01092108	0.074158532		NELFA
4	1982714	2041903	-	5935	protein_coding
negative elongation factor complex member A	[Source:HGNC				
Symbol;Acc:HGNC:12768]	-	806	911	788	949
1534	6.650327027	7.273175959	8.260614224		940
8.885002059	9.735415475	12.0180956			
ENSG00000213204	0	2.654985459	0	21.75533839	
12.55641011	12.07694663	0.884995153			
15.46289838	-4.063103384	0.010947296	0.074278531		
AL049697.1	6	87408012	87511634	+	3530
protein_coding	"novel transcript, C6orf165-SLC35A1				
readthrough"	-	0	3	0	21
0	0.040269199	0	0.33056482	0.191542583	14
0.184409949					
ENSG00000133895	1253.820835	1444.31209	1428.702238		
1544.629026	1841.226319	2120.366773	1375.611721		
1835.407373	-0.416547004	0.010953353	0.074278531		MEN1
11	64803510	64811294	-	4246	
protein_coding	menin 1 [Source:HGNC Symbol;Acc:HGNC:7010]			-	
1382	1632	1229	1491	1613	2458
18.2123759	18.00854974	19.51235538	23.35079858		
26.91738751					
ENSG00000104324	331.1466026	398.2478189	556.8335003		
304.5747375	214.6004637	282.0829678	428.7426406		
267.0860563	0.680046443	0.010954626	0.074278531		CPQ
8	96645227	97149654	+	3457	
protein_coding	carboxypeptidase Q [Source:HGNC Symbol;Acc:HGNC:16910]				
-	365	450	479	294	188
5.170376494	6.167931971	8.620708904	4.725633042		
3.342764874	4.398244733				
ENSG00000120705	4691.394745	4842.693478	4590.679525		
5490.633023	5809.051914	6148.891115	4708.255916		
5816.192017	-0.304893833	0.010955548	0.074278531		ETF1
5	138506095	138543300	-	4601	
protein_coding	eukaryotic translation termination factor 1				
[Source:HGNC Symbol;Acc:HGNC:3477]	-	5171	5472	3949	
5300	5089	7128	55.03652288	56.35342239	
53.40006026	64.00820967	67.98726612	72.03548357		

ENSG00000227057	3398.562119	4268.331623	3452.6002			
4059.960532	4764.586891	6079.017352	3706.497981			
4967.854925	-0.422640884	0.010983723	0.074441024	WDR46		
6	33279108	33289527	-	3115		
protein_coding	WD repeat domain 46 [Source:HGNC					
Symbol;Acc:HGNC:13923]	-	3746	4823	2970	3919	4174
7047	58.88957304	73.36444758	59.32056037			
69.90838288	82.36482005	105.1906742				
ENSG00000146197	50.80605409	51.32971888	41.8496994	0		
13.69790194	16.39014186	47.99515746	10.02934793			
2.25344737	0.011047079	0.074841741	SCUBE3	6		
35214419	35253079	+	7356	protein_coding		
"signal peptide, CUB domain and EGF like domain containing 3						
[Source:HGNC Symbol;Acc:HGNC:13655]"	-	56	58	36		
0	12	19	0.372799216	0.373605029		
0.304486209	0	0.100273664	0.12009997			
ENSG00000169020	109.7773669	275.2334926	185.998664			
88.05732207	113.007691	86.26390453	190.3365078			
95.77630586	0.992794223	0.011073588	0.074992611	ATP5ME		
4	672436	674338	-	940	protein_coding	ATP
synthase membrane subunit e [Source:HGNC Symbol;Acc:HGNC:846]						
121	311	160	85	99	100	6.303564489
15.67685626	10.59007353	5.024618763	6.473731772			
4.94655867						
ENSG00000169359	341.1263632	389.3978674	374.3223113			
651.6241833	414.3615336	587.4571898	368.2821806			
551.1476356	-0.582595443	0.011130359	0.075324961			
SLC33A1	3	155821024	155854456	-	10040	
protein_coding	solute carrier family 33 member 1 [Source:HGNC					
Symbol;Acc:HGNC:95]	-	376	440	322	629	363
681	1.833930257	2.076564401	1.995395578			
3.481200011	2.222389991	3.153874569				
ENSG00000184602	245.8650118	192.9289434	289.4604208			
114.9925029	189.4876435	53.48362081	242.7514587			
119.3212557	1.029017514	0.011132922	0.075324961	SNN		
16	11668414	11679159	+	3312		
protein_coding	stannin [Source:HGNC Symbol;Acc:HGNC:11149]					
271	218	249	111	166	62	4.006892088
3.118836487	4.677522288	1.862278779	3.080811453			
0.870427051						
ENSG00000131467	5660.338777	5743.618544	5951.957247			
6306.976197	7992.725781	7557.580676	5785.304856			
7285.760884	-0.332717076	0.011141015	0.075324961	PSME3		
17	42824385	42843758	+	5152		
protein_coding	proteasome activator subunit 3 [Source:HGNC					
Symbol;Acc:HGNC:9570]	-	6239	6490	5120	6088	7002
8761	59.30179168	59.68913473	61.83024299			
65.66150504	83.53983483	79.06947298				
ENSG00000038002	364.7148883	362.8480128	389.4347027			
242.4166278	218.0249392	276.9071335	372.3325346			



245.7829002	0.597170708	0.011141805	0.075324961	AGA
4	177430770	177442503	- 2675	
protein_coding	aspartylglucosaminidase [Source:HGNC			
Symbol;Acc:HGNC:318]	-	402 410	335 234	191
321	7.359205836	7.262506117	7.791621859	
4.860759288	4.388912687	5.57971818		
ENSG00000187713	958.0570201	1111.553912	990.4428857	
1294.960619	1443.987163	1287.920095	1020.017939	
1342.289292	-0.395541176	0.011143955	0.075324961	
TMEM203 9	137204082	137205638	- 1557	
protein_coding	transmembrane protein 203 [Source:HGNC			
Symbol;Acc:HGNC:28217]	-	1056 1256	852 1250	1265
1493	33.2126852	38.22323739	34.045352	
44.6101254	49.94008453	44.58638002		
ENSG00000264268	5.443505796	8.849951531	11.6249165	0
0	0	8.639457942 0	5.542076885	
0.011162978	0.075424721	MIR4767 X	7147860 7147937	+
78	miRNA	microRNA 4767 [Source:HGNC		
Symbol;Acc:HGNC:41548]	-	6 10	10 0	0
0	3.766910756	6.074797956	7.976497693	0
0	0			
ENSG00000284052	7.258007728	6.194966072	9.299933199	
40.4027713	13.69790194	49.17042558	7.584302333	
34.42369961	-2.192820171	0.011173705	0.075468371	
AC006460.2	2	190607660	190649840	- 7811
	bidirectional_promoter_lncRNA	novel transcript		-
8	7	8	39	12 57
0.042463701	0.063722117	0.277440599	0.050154746	0.094432605
0.339312013				
ENSG00000122591	2361.574264	1995.66407	2056.447729	
1618.182789	1810.406039	1517.382081	2137.895354	
1648.65697	0.375461207	0.011230969	0.075826189	
FAM126A 7	22889371	23014130	- 14499	
protein_coding	family with sequence similarity 126 member A			
[Source:HGNC Symbol;Acc:HGNC:24587]	-		2603 2255	1769
1562	1586 1759	8.79153687	7.369447634	
7.590958719	5.986252388	6.723764492	5.641035174	
ENSG00000139579	1418.03326	1525.731644	1383.365063	
1173.752305	1149.482271	965.2930917	1442.376656	
1096.175889	0.396830987	0.011235823	0.075830014	NABP2
12	56222015	56229854	+ 2218	
protein_coding	nucleic acid binding protein 2 [Source:HGNC			
Symbol;Acc:HGNC:28412]	-	1563 1724	1190 1133	1007
1119	34.508503	36.83003745	33.38045608	
28.38444531	27.90713729	23.45846349		
ENSG00000135324	3.629003864	18.58489822	4.6499666	0
0	0	8.954622893 0	5.598761953	
0.011275872	0.076059982	MRAP2 6	84033756	
84090881	+ 2153	protein_coding	melanocortin 2	
receptor accessory protein 2 [Source:HGNC Symbol;Acc:HGNC:21232]				

-	4	21	4	0	0	0	
0.09097973	0.462169951		0.115590677		0	0	0
ENSG00000126698	3754.204497		4047.96783		4095.458083		
3439.415403	3169.922807		2775.109809		3965.876803		
3128.14934	0.342502604		0.011278497		0.076059982		DNAJC8
1	28199456		28233025		-	2888	
protein_coding	DnaJ heat shock protein family (Hsp40) member C8						
[Source:HGNC Symbol;Acc:HGNC:15470]			-		4138	4574	3523
3320	2777	3217	70.1652345		75.04563076		
75.8965965	63.87823951		59.10524897		51.7946485		
ENSG00000116288	2405.122311		3127.572871		3180.577154		
2121.663478	2425.670135		2102.251353		2904.424112		
2216.528322	0.389970358		0.011288125		0.076095898		PARK7
1	7954291	7985505	+	2397	protein_coding		
Parkinsonism associated deglycase	[Source:HGNC Symbol;Acc:HGNC:16369]						
-	2651	3534	2736	2048	2125	2437	
54.15896762	69.85941619		71.01578722		47.47598259		
54.49269168	47.27358227						
ENSG00000229931	9.07250966		6.194966072		10.46242485		0
0	0	8.576633527	0		5.532101043		
0.011311621	0.076193867		AL137003.1		6	16761138	
16762652	+	698	antisense				
uncharacterized LOC101928433	[Source:NCBI gene;Acc:101928433]						-
10	7	9	0	0	0	0.701573637	
0.475191932	0.802220828		0		0	0	
ENSG00000106263	13355.64147		15639.63435		14593.92017		
15344.76535	19567.45292		20956.95297		14529.732		
18623.05708	-0.358110019		0.011313429		0.076193867		EIF3B
7	2354086	2380745	+	8998	protein_coding		
eukaryotic translation initiation factor 3 subunit B	[Source:HGNC Symbol;Acc:HGNC:3280]						
-			14721	17672	12554	14812	17142
24294	80.11613827		93.06066569		86.80464835		
91.47022728	117.1016089		125.5405585				
ENSG00000026025	41904.10762		46190.55203		53097.9686		
64185.50004	61294.6867		52830.60305		47064.20941		
59436.92993	-0.336741605		0.01131558		0.076193867		VIM
10	17228259		17237593		+	5158	
protein_coding	vimentin [Source:HGNC Symbol;Acc:HGNC:12692]						-
46188	52193	45676	61957	53697	61243	438.5069721	
479.4655005	550.9517579		667.4536104		639.9057979		
552.0852406							
ENSG00000142544	644.1481858		964.6447169		604.4956579		
744.8613478	1447.411638		1225.810083		737.7628536		
1139.361023	-0.626071526		0.011320729		0.076199535		CTU1
19	51097606		51108370		-	2087	
protein_coding	cytosolic thiouridylase subunit 1 [Source:HGNC Symbol;Acc:HGNC:29590]						
-			710	1090	520	719	1268
1421	16.65960052		24.74745195		15.50200031		
19.14337404	37.34600617		31.6593976				
ENSG00000251520	1.814501932		8.849951531		0	15.53952742	

	12.55641011	58.65945508	3.554817821	28.9184642	
	-2.995666752	0.011345804	0.076339268	AL162431.3	
	1	180964511	180965909	+	537
unprocessed_pseudogene	"pseudogene similar to part of major histocompatibility complex, class I-related MR1"				2
	10	0	15	11	68
	0.882372887	0	1.552133302	1.259116049	5.887970767
ENSG00000167785	43.54804637		36.28480128	109.2742151	
29.00711786	7.990442797	0	63.03568758	12.33252022	
	2.359489857	0.011358328	0.076379372	ZNF558	19
	8806170	8832328	-	8184	protein_coding
protein	558	[Source:HGNC Symbol;Acc:HGNC:26422]	zf-C2H2	48	41
	94	28	7	0	0.287213137
	0.714609984	0.190109778	0.05257506	0	0.237380301
ENSG00000218809	0	0	0	10.35968495	3.424475485
	12.07694663	0	8.620369022	-5.586446251	
0.011360401	0.076379372	AL391903.1	6	41269875	
	41270239	-	365	unprocessed_pseudogene	
triggering receptor expressed on myeloid cells 1 (TREM1) pseudogene	-	0	0	10	3
	0	0	1.522366362	0.505214435	14
ENSG00000115738	110.6846178		114.1643748	165.0738143	0
211.337573	181.4972007		301.0610268	129.974269	
231.2986001	-0.836832542	0.011365923	0.076387466	ID2	
	2	8678845	8684453	+	2205
inhibitor of DNA binding 2 [Source:HGNC Symbol;Acc:HGNC:5361]				protein_coding	bHLH
	122	129	142	204	159
	2.772091475	4.006697889	5.140834435	349	2.709442385
	7.359492233			4.432368816	
ENSG00000129351	14473.37466		13819.19932	13982.44956	
11964.40015	10135.30594		12059.69385	14091.67451	
11386.46665	0.307441127		0.011371695	0.076397231	ILF3
	19	10654261	10692417	+	11022
protein_coding	interleukin enhancer binding factor 3 [Source:HGNC Symbol;Acc:HGNC:6038]				-
	13980	70.87786743	67.12866691	67.89532309	12028
	58.22319294	49.51662198	58.97633533	11549	8879
ENSG00000118418	653.2206955		707.9961225	570.7834001	
430.9628939	525.086241		391.6381266	644.0000727	
449.2290871	0.521760612		0.011390318	0.076493294	HMGN3
	6	79201245	79234738	-	1014
protein_coding	high mobility group nucleosomal binding domain 3 [Source:HGNC Symbol;Acc:HGNC:12312]				Others
	416	460	454	34.7714839	720
	30.12661821	22.79646039	27.88478093	20.81847513	800
ENSG00000188985	362.9003864		330.9881873	335.9600868	491
245.5245333	236.2888084		98.34085116	343.2828868	
193.384731	0.831452922		0.011403935	0.076555674	DHFRP1
	18	26170726	26171284	-	559
processed_pseudogene	dihydrofolate reductase pseudogene 1				

[Source:HGNC Symbol;Acc:HGNC:2862]	-	400	374	289
237	207	114	35.04103029	31.70196887
32.1656907	23.55855136	22.76176304	9.482526424	
ENSG00000137720	322.9813439	341.6081291	337.1225785	
560.4589557	430.3424192	470.1382797	333.9040172	
486.9798849	-0.544693346	0.011448679	0.076826887	
C11orf1	11	111878935	111885975	+ 3831
protein_coding	chromosome 11 open reading frame 1	[Source:HGNC		
Symbol;Acc:HGNC:1163]	-	356	386	290 541 377
545	4.550577651	4.774210829	4.709694018	
7.846882632	6.048902139	6.614779449		
ENSG00000205534	201.4097144	185.8489822	44.1746827	
59.05020421	7.990442797	71.59904076	143.8111264	
46.21322925	1.633763151	0.011497203	0.077123258	SMG1P2
16	29527568	29594966	- 4221	
unprocessed_pseudogene	SMG1 pseudogene 2	[Source:HGNC		
Symbol;Acc:HGNC:49859]	-	222	210	38 57 7
83	2.575528179	2.357384281	0.560112276	
0.750363235	0.101936577	0.914310608		
ENSG00000198887	1485.169831	1256.693117	1128.779392	
1144.745187	745.3941638	857.463211	1290.214114	
915.8675206	0.494664851	0.011508048	0.07716674	SMC5
9	70258962	70354888	+ 6637	
protein_coding	structural maintenance of chromosomes 5	[Source:HGNC		
Symbol;Acc:HGNC:20465]	-	1637	1420	971 1105 653
994	12.07829257	10.13778246	9.102365259	
9.251294453	6.047678893	6.963788698		
ENSG00000140365	1013.399329	1319.527773	1369.415164	
815.3072055	852.6943956	1023.089908	1234.114089	
897.0305029	0.459148607	0.011512983	0.077170578	COMMD4
15	75335891	75343224	+ 6779	
protein_coding	COMM domain containing 4	[Source:HGNC		
Symbol;Acc:HGNC:26027]	-	1117	1491	1178 787 747
1186	8.068935107	10.42169719	10.8115137	
6.450912365	6.77333145	8.134859814		
ENSG00000083520	3472.956698	3520.510719	2720.230461	
4586.232527	4293.150766	3742.128178	3237.899293	
4207.17049	-0.377246568	0.011521542	0.077198695	DIS3
13	72752169	72782096	- 10835	
protein_coding	"DIS3 homolog, exosome endoribonuclease and 3'-5'	[Source:HGNC Symbol;Acc:HGNC:20604]"		
exoribonuclease				- 3828
3978	2340 4427	3761 4338	17.30101955	
17.39651693	13.43673612	22.70349144	21.33643112	
18.61622632				
ENSG00000260643	46.26979926	39.82478189	33.71225785	
66.30198367	98.16829722	111.2804368	39.935613	
91.91690591	-1.200881902	0.011542621	0.077310648	
AC092718.3	16	81053587	81096296	- 3177
protein_coding	novel protein	-	51 45	29
64	86	129	0.786106966	0.671153315

0.56792061	1.119372937	1.663905268	1.888006624		
ENSG00000121895	3.629003864	23.89486913	2.3249833		
85.98538508	22.82983656	38.81875704	9.949618766		
49.21132623	-2.289720917	0.011563135	0.077418736		
TMEM156 4	38966744	39032922	-	2562	
protein_coding	transmembrane protein 156 [Source:HGNC				
Symbol;Acc:HGNC:26260]	-	4	27	2	83 20
45	0.076455644	0.499356928	0.048568838		
1.800159599	0.479841969	0.816703481			
ENSG00000127990	921.7669814	725.6960256	886.9811289		
729.3218204	569.6044223	391.6381266	844.814712		
563.5214564	0.585118205	0.011570729	0.077440265		SGCE
7	94524204	94656572	-	20884	
protein_coding	sarcoglycan epsilon [Source:HGNC				
Symbol;Acc:HGNC:10808]	-	1016	820	763	704 499
454	2.382367232	1.860486867	2.273095593		
1.873143365	1.468703809	1.010818511			
ENSG00000114354	3108.241809	3252.357188	3052.703073		
3810.292124	4048.871515	3807.688746	3137.767357		
3888.950795	-0.30944269	0.011596469	0.077583186		TFG
3	100709331	100748966	+	4994	
protein_coding	TRK-fused gene [Source:HGNC				
-	3426	3675	2626	3678	3547 4414
33.59444759	34.86865907	32.71545994	40.92373187		
43.6576154	41.09744368				
ENSG00000260022	0.907250966	1.769990306	0	0	
11.41491828	44.85723035	0.892413757			
18.75738288	-4.346166978	0.011604066	0.077604659		
AL031716.1	16	883780	885090	+	530 antisense
"novel transcript, antisense to LMF1"					1 2
0	0	10	52	0.092395924	0.178805374
0	0	1.159768985	4.562033732		
ENSG00000257093	792.9373443	581.4418156	568.4584168		
458.9340432	472.5776169	414.9293808	647.6125256		
448.8136803	0.530316	0.011614356	0.077644122		
KIAA1147	7	141656728	141702153	-	7356
protein_coding	KIAA1147 [Source:HGNC				
-	874	657	489	443	414 481
5.818330616	4.232043176	4.13593767	3.346370702		
3.459441419	3.040425553				
ENSG00000136231	1189.406016	846.0553664	978.8179692		
871.2495042	672.3386868	498.6053682	1004.759784		
680.7311864	0.562622097	0.011632751	0.077727958		
IGF2BP3 7	23310209	23470467	-	8511	
protein_coding	insulin like growth factor 2 mRNA binding protein 3				
[Source:HGNC	Symbol;Acc:HGNC:28868]	-	1311	956	842
841	589	578	7.54311597	5.322353824	
6.15514584	5.490696631	4.25384895	3.157753797		
ENSG00000100416	966.2222788	865.5252598	796.3067802		
578.0704202	647.2258666	695.2870705	876.0181062		

640.1944524	0.452550616	0.011636435	0.077727958	TRMU
22	46330875	46357340	+ 9219	
protein_coding	tRNA 5-methylaminomethyl-2-thiouridylate			
methyltransferase	[Source:HGNC Symbol;Acc:HGNC:25481]	-	1065	
978	685 558	567 806	5.657108083	
5.026682799	4.622890462	3.363275376	3.780477034	
4.065203071				
ENSG00000266865	48.0843012	53.98470434	81.37441549	
29.00711786	15.98088559	18.978059	61.14780701	
21.32202082	1.516654869	0.011640592	0.077727958	
AC138207.8	17 31008497	31093127	+ 2147	
transcribed_unprocessed_pseudogene		SMAD specific E3		
ubiquitin protein ligase 2 (SMURF2) pseudogene	-	53	61	
70	28 14	22	1.208850261	1.346245397
2.028489865	0.724666242	0.400814433	0.476454743	
ENSG00000130720	85.2815908	70.79961225	227.8483634	0
12.55641011	0	127.9765221	4.185470037	
4.949498544	0.011644473	0.077727958	FIBCD1 9	
130902438	130939286	- 3831	protein_coding	
fibrinogen C domain containing 1 [Source:HGNC Symbol;Acc:HGNC:25922]				
-	94 80	196 0	11 0	
1.20155702	0.989473747	3.183103543	0 0.176493166	
0				
ENSG00000124767	5736.547858	5571.044489	5884.532732	
6928.557294	7411.70644	6752.738446	5730.70836	
7031.000727	-0.294992706	0.011664229	0.077830461	GL01
6	38675925	38703141	- 2352	
protein_coding	glyoxalase I [Source:HGNC Symbol;Acc:HGNC:4323]	-		
6323	6295 5062	6688 6493	7828 131.6480856	
126.8191558	133.9034202	158.0050584	169.6896859	
154.7549388				
ENSG00000145569	29.03203091	12.38993214	40.68720775	0
4.565967313	6.901112362	27.3697236	3.822359892	
2.821846208	0.011709776	0.078104912	OTULINL 5	
14581775	14615007	+ 4074	protein_coding	
OTU deubiquitinase with linear linkage specificity like				
[Source:HGNC Symbol;Acc:HGNC:25629]	-	32	14 35	
0	4 8	0.384642826	0.162829636	
0.534507577	0 0.060351258	0.091306139		
ENSG00000096433	2931.327871	2187.708019	2287.783567	
2276.022783	1607.220494	1439.744567	2468.939819	
1774.329281	0.476979283	0.011736629	0.078254513	ITPR3
6	33620365	33696574	+ 9870	
protein_coding	"inositol 1,4,5-trisphosphate receptor type 3			
[Source:HGNC Symbol;Acc:HGNC:6182]"	-	3231	2472 1968	
2197	1408 1669	16.03055243	11.8674594	
12.40551471	12.3687254	8.768652559	7.862672781	
ENSG00000132361	4022.750783	4386.920974	3728.110721	
4753.023455	4750.888989	6166.143896	4045.927493	
5223.352113	-0.368581393	0.011752606	0.078331518	CLUH

17	2689386	2712663	-	6900	protein_coding	
clustered mitochondria homolog [Source:HGNC Symbol;Acc:HGNC:29094]						
-	4434	4957	3207	4588	4162	7148
31.4684449	34.04052653		28.91723177		36.94761097	
37.07663788	48.16887144					
ENSG00000166197	4811.151873		4799.328715		4147.770207	
5519.640141	5704.034665		5894.412596		4586.083598	
5706.029134	-0.315032071		0.011773008		0.078437942	NOLC1
10	102152176		102163871		+	3970
protein_coding nucleolar and coiled-body phosphoprotein 1						
[Source:HGNC Symbol;Acc:HGNC:15608]						
5328	4997	6833	65.41235784		64.72551855	3568
55.91665526	74.5737106		77.36886091		80.02983695	
ENSG00000106415	159.67617		159.2991276		144.1489646	
78.73360561	103.8757564		63.83528935		154.3747541	
82.14821711	0.914718818		0.011809329		0.078650311	GLCCI1
7	7968794	8094272	+	6885	protein_coding	
glucocorticoid induced 1 [Source:HGNC Symbol;Acc:HGNC:18713]						
176	180	124	76	91	74	1.251807089
1.238782328	1.120532835		0.613368814		0.81242786	
0.499756893						
ENSG00000175040	1801.800418		2070.888658		2007.623079	
2237.691949	2493.018153		2910.544139		1960.104052	
2547.084747	-0.37830513		0.011822916		0.078711162	CHST2
3	143119331		143124014		+	4582
protein_coding carbohydrate sulfotransferase 2 [Source:HGNC						
Symbol;Acc:HGNC:1970]						
3374	21.2252514		24.19843132		23.45006762	2184
26.194536	29.29846783		34.23899523			
ENSG00000197467	313.9088342		274.3484975		351.0724783	
175.0786756	253.4111859		117.3189102		313.1099367	
181.9362572	0.786314425		0.011832946		0.078748299	
COL13A1 10	69801867		69964275		+	5888
protein_coding collagen type XIII alpha 1 chain [Source:HGNC						
Symbol;Acc:HGNC:2190]						
136	2.877643441		2.494711525		3.191140959	222
1.594890778	2.317568254		1.073994668			
ENSG00000261040	45.3625483		104.4294281		46.499666	
14.50355893	30.82027936		20.70333709		65.43054745	
22.00905846	1.578040653		0.011844441		0.078795157	
WFDC21P 17	60083566		60091885		-	1099
transcribed_unitary_pseudogene "WAP four-disulfide core domain 21,						
pseudogene [Source:HGNC Symbol;Acc:HGNC:50357]"						
40	14	27	24	2.227927199	5.087574193	118
2.264483421	0.707851875		1.510126859		1.015417321	
ENSG00000163659	431.8514598		415.947722		475.4590848	
614.3293175	623.2545382		602.1220536		441.0860889	
613.2353031	-0.476109456		0.01185013		0.078803363	TIPARP
3	156673235		156706770		+	5048
protein_coding TCDD inducible poly(ADP-ribose) polymerase						

[Source:HGNC Symbol;Acc:HGNC:23696]	-	476	470	409
593	546	698	4.617599794	4.411689641
5.040931644	6.52750767	6.648453823	6.429350386	
ENSG00000258770	2.721752898	0	2.3249833	8.287747959
17.12237742	28.46708849	1.682245399	17.95907129	
-3.4401655	0.011857	0.078819418	LINC02330	
14	87634379	87655294	-	555
lincRNA long intergenic non-protein coding RNA	2330	[Source:HGNC		
Symbol;Acc:HGNC:53250]	-	3	0	2
33	0.264701837	0	0.224204259	0.800956716
1.661290709	2.764725224			
ENSG00000140374	1799.985917	1785.920219	2062.260187	
1414.096996	1439.421195	1538.085418	1882.722107	
1463.86787	0.362366521	0.011867749	0.07884064	ETFA
15	76215355	76311472	-	5031
protein_coding electron transfer flavoprotein subunit alpha				
[Source:HGNC Symbol;Acc:HGNC:3481]	-	1984	2018	1774
1365	1261	1783	19.31150114	19.00611205
21.93846032	15.0761475	15.40664691	16.47889339	
ENSG00000237685	3.629003864	0	0	11.39565344
19.40536108	20.70333709	1.209667955		
17.1681172	-3.785394058	0.011869106	0.07884064	
AL139039.3	6	10511036	10514546	-
antisense	"novel transcript, antisense to GCNT2"	-		1475
4	0	0	11	17
0	0	0.414393284	0.708441936	0.132799566
ENSG00000169738	968.9440317	1208.903379	1392.664997	
936.5155194	888.0806423	759.9849989	1190.170802	
861.5270535	0.466026923	0.011876215	0.078848133	DCXR
17	82035136	82037732	-	1902
protein_coding dicarbonyl and L-xylulose reductase	[Source:HGNC			
Symbol;Acc:HGNC:18985]	-	1068	1366	1198
881	27.49726022	34.03036659	39.18800475	904
26.41009488	25.14296232	21.53755572		778
ENSG00000127838	457.2544869	481.4373633	671.9201736	
387.4522171	384.6827461	294.1599144	536.8706746	
355.4316259	0.59479533	0.011879149	0.078848133	PNKD
2	218270392	218346793	+	5184
protein_coding "PNKD, MBL domain containing	[Source:HGNC			
Symbol;Acc:HGNC:9153]"	-	504	544	578
341	4.76095665	4.972334623	6.936968017	374
4.008839353	3.995878443	3.058583943		337
ENSG00000170860	1393.537484	1640.781014	1656.550601	
1368.514382	1083.275745	1053.282274	1563.623033	
1168.357467	0.420389104	0.011889674	0.078888387	LSM3
3	14178358	14201119	+	3815
protein_coding "LSM3 homolog, U6 small nuclear RNA and mRNA	degradation associated	[Source:HGNC Symbol;Acc:HGNC:17874]"		-
1536	1854	1425	1321	949
23.02722626	23.2395208	19.24067567	1221	19.71629724
				15.29040646



14.8816861						
ENSG0000042286	486.2865178	506.2172276	540.5586172			
354.3012253	320.7592037	391.6381266	511.0207875			
355.5661852	0.521604089	0.011905257	0.078962166		AIFM2	
10	70098223	70132934	-	5135		
protein_coding	"apoptosis inducing factor, mitochondria associated 2 [Source:HGNC Symbol;Acc:HGNC:21411]"					
	-		536	572	465	
342	281	454	5.111554849	5.278153566		
5.634032548	3.700817779	3.363668841	4.110990025			
ENSG00000186197	19.05227029	22.12487883	6.974949899			
2.07193699	0	1.725278091	16.05069967	1.26573836		
3.63603191	0.011914383	0.078993072	EDARADD	1		
236348257	236502915	+	3985	protein_coding		
	EDAR associated death domain [Source:HGNC Symbol;Acc:HGNC:14341]					
	-	21	25	6	2	0
2	0.258059382	0.29726113	0.093676309			
0.027887765	0	0.023336337				
ENSG00000171084	107.055614	115.0493699	104.6242485			
162.6470537	154.1013968	284.6708849	108.9097441			
200.4731118	-0.882418636	0.011935282	0.079088276			
FAM86JP	3	125916620	125930024	+	2519	
transcribed_unprocessed_pseudogene	"family with sequence similarity 86 member J, pseudogene [Source:HGNC Symbol;Acc:HGNC:44097]"					
	-	118	130	90	157	135
330	2.293942477	2.445353365	2.222906463			
3.463247493	3.294222743	6.091395393				
ENSG00000130640	2812.477995	3121.377905	3792.047762			
4311.700876	4604.778035	3749.029291	3241.967887			
4221.836067	-0.381194927	0.011937684	0.079088276			
TUBGCP2	10	133278630	133312337	-	7697	
protein_coding	tubulin gamma complex associated protein 2 [Source:HGNC Symbol;Acc:HGNC:18599]					
	-		3100	3527	3262	
4162	4034	4346	19.72281454	21.71252912		
26.36752198	30.04641303	32.2152694	26.25422807			
ENSG00000254419	3.629003864	14.15992245	8.137441549		0	
0	0	8.642122621	0	5.545104029		
0.011953479	0.079144713	AL139349.1	20	58710795		
58711633	+	577	sense_intronic	novel		
transcript	-	4	16	7	0	0
0.339478959	1.313925104	0.754795102	0	0	0	
0						
ENSG00000103507	909.0654679	1072.614126	1078.792251			
1087.76692	1571.834247	1557.063477	1020.157282			
1405.554881	-0.462695956	0.011955151	0.079144713		BCKDK	
16	31106107	31112791	+	3873		
protein_coding	branched chain ketoacid dehydrogenase kinase [Source:HGNC Symbol;Acc:HGNC:16902]					
	-		1002	1212	928	
1050	1377	1805	12.66919171	14.82796539		
14.90758608	15.06446961	21.85414416	21.67009062			
ENSG00000177105	1030.637097	1265.543069	1076.467268			

1397.5215	1464.534016	1572.59098	1124.215811	
1478.215498	-0.394834561	0.011964224	0.07914726	RHOG
11	3826978	3840983	-	1782
homolog	family member G [Source:HGNC Symbol;Acc:HGNC:672]			protein_coding ras
1136	1430	926	1349	1283
38.02373535	32.33032971	42.06455449	44.25540473	
47.56746279				
ENSG00000175029	1206.643785	984.9996054	1267.115898	
906.472433	842.4209692	825.5455663	1152.919763	
858.1463229	0.425544237	0.011964485	0.07914726	CTBP2
10	124984317	125161170	-	10946
protein_coding	C-terminal binding protein 2 [Source:HGNC			
Symbol;Acc:HGNC:2495]	-	1330	1113	1090
957	5.950108439	4.817992963	6.195521961	875
4.441857818	4.144272254	4.065252374		738
ENSG00000135549	31.75378381	49.55972857	47.66215765	
89.09329056	115.2906746	83.67598739	42.99189001	
96.0199842	-1.159464139	0.01198135	0.0792292	PKIB
6	122471917	122726373	+	3432
protein_coding	cAMP-dependent protein kinase inhibitor beta			
[Source:HGNC Symbol;Acc:HGNC:9018]	-	35	56	41
86	101	97	0.499401047	0.773156103
0.743264558	1.392397439	1.808928723	1.314181875	
ENSG00000103264	1686.579546	1883.269686	1898.348864	
2153.778501	2300.106034	2541.334627	1822.732699	
2331.739721	-0.35572663	0.011998825	0.079315105	FBX031
16	87326987	87392142	-	6897
protein_coding	F-box protein 31 [Source:HGNC Symbol;Acc:HGNC:16510]			
-	1859	2128	1633	2079
13.19920723	14.61967905	14.73101953	16.749672	
17.95817439	19.86111082			
ENSG00000143575	1661.176519	1899.199599	1794.887107	
1959.016424	2483.886218	2556.86213	1785.087742	
2333.254924	-0.386468236	0.012019447	0.079421742	HAX1
1	154272511	154275875	+	2155
protein_coding	HCLS1 associated protein X-1 [Source:HGNC			
Symbol;Acc:HGNC:16915]	-	1831	2146	1544
2964	41.60732099	47.18553505	44.57659258	1891
48.7591693	62.06674596	63.95315037		2176
ENSG00000084710	0.907250966	15.0449176	11.6249165	0
0	0	9.192361689	0	5.632485304
0.012076853	0.079745142	EFR3B	2	25042130
25159137	+	10591	protein_coding	EFR3 homolog B
[Source:HGNC Symbol;Acc:HGNC:29155]	-	1	17	10
0	0	0	0.004623722	0.07605686
0.058744861	0	0	0	
ENSG00000159423	117.0353746	59.29467526	149.9614228	
15.53952742	38.81072216	66.42320649	108.7638242	
40.25781869	1.425939758	0.012077406	0.079745142	
ALDH4A1	1	18871430	18902781	-
				3689

protein_coding	aldehyde dehydrogenase 4 family member A1 [Source:HGNC					
Symbol;Acc:HGNC:406]	-	129	67	129	15	34
77	1.71241782	0.860582654	2.175644342			
0.225940792	0.566523099	0.970539215				
ENSG00000280537	14.51601546	11.50493699	1.16249165	0		
0	0	9.061148032	0	5.617289821		
0.012091	0.079805114	AC068946.1	2	219075329		
219170827	-	4650	protein_coding	"novel		
protein, SLC23A3-NHEJ1 readthrough"	-	16	13	1		
0	0	0	0.168498374	0.132469788		
0.013379932	0	0	0			
ENSG00000256973	3.629003864	6.194966072	16.2748831	0		
0	0	8.699617678	0	5.549138446		
0.012106292	0.079876243	AC053513.1	12	22460519		
22463914	-	738	lincRNA	novel transcript		
-	4	7	14	0	0	
0.265419186	0.449436272	1.18026226	0	0	0	
ENSG00000197885	655.9424484	603.5666944	478.9465598			
661.9838682	854.9773793	997.2107363	579.4852342			
838.057328	-0.531686768	0.012129173	0.07999737			
NKIRAS1 3	23891660	23946591	-	3473		
protein_coding	NFKB inhibitor interacting Ras like 1 [Source:HGNC					
Symbol;Acc:HGNC:17899]	-	723	682	412	639	749
1156	10.19441238	9.304778349	7.380729337			
10.2237005	13.2563632	15.47690329				
ENSG00000164463	268.5462859	248.683638	254.5856713			
401.955776	433.7668947	327.8028372	257.2718651			
387.841836	-0.590845457	0.012137257	0.080020847	CREBRF		
5	173056352	173139284	+	12333		
protein_coding	CREB3 regulatory factor [Source:HGNC					
Symbol;Acc:HGNC:24050]	-	296	281	219	388	380
380	1.175307921	1.079602867	1.104796348			
1.748135281	1.893922595	1.432669064				
ENSG00000184281	636.8901781	902.6950562	730.0447561			
851.5661028	966.8435785	1601.058068	756.5433301			
1139.822583	-0.592016912	0.012147969	0.080061631	TSSC4		
11	2400488	2403878	+	2659	protein_coding	tumor
suppressing subtransferable candidate 4 [Source:HGNC						
Symbol;Acc:HGNC:12386]	-	702	1020	628	822	847
1856	12.92847971	18.1764169	14.69427465			
17.17772018	19.57998854	32.45567551				
ENSG00000154473	3589.992072	3612.550215	3878.072144			
2853.057235	3035.226771	3037.352078	3693.538144			
2975.212028	0.311834126	0.01215791	0.080097304	BUB3		
10	123154277	123170467	+	8300		
protein_coding	"BUB3, mitotic checkpoint protein [Source:HGNC					
Symbol;Acc:HGNC:1151]"	-	3957	4082	3336	2754	2659
3521	23.34622364	23.30351048	25.00660857			
18.43732398	19.69189925	19.72508806				
ENSG00000165490	1154.93048	920.3949592	771.8944555			

856.7459453	496.5489453	539.1494033	949.0732982	
630.8147646	0.589958221	0.012170443	0.080150026	DDIAS
11	82899975	82958277	+ 5339	
protein_coding	DNA damage induced apoptosis suppressor [Source:HGNC			
Symbol;Acc:HGNC:26351]	-	1273 1040	664 827	435
625	11.67608281	9.229960857	7.737755544	
8.607115529	5.008142715	5.443160177		
ENSG00000127418	3116.407068	2307.182364	3079.440381	
2066.757147	2303.530509	2124.679969	2834.343271	
2164.989208	0.388524442	0.012202151	0.080328935	FGFRL1
4	1009936	1026897 +	4145	protein_coding
fibroblast growth factor receptor like 1 [Source:HGNC				
Symbol;Acc:HGNC:3693]	-	3435 2607	2649 1995	2018
2463	40.58176112	29.80183028	39.76163827	
26.74424911	29.92567721	27.62936445		
ENSG00000096092	630.5394214	524.8021258	564.9709418	
468.2577597	388.1072216	320.9017248	573.4374963	
392.4222354	0.548353857	0.012209046	0.080344424	
TMEM14A 6	52671109	52686588	+ 992	
protein_coding	transmembrane protein 14A [Source:HGNC			
Symbol;Acc:HGNC:21076]	-	695 593	486 452	340
372	34.30850674	28.32497023	30.48115671	
25.31854862	21.06757774	17.43661931		
ENSG00000115541	591.5276298	966.4147072	733.5322311	
474.4735707	466.8701577	609.023166	763.824856	
516.7889648	0.56290142	0.012216204	0.080361637	HSPE1
2	197499994	197503457	+ 1977	
protein_coding	heat shock protein family E (Hsp10) member 1			
[Source:HGNC Symbol;Acc:HGNC:5269]	-		652 1092	631
458	409 706	16.14989154	26.17233134	
19.85772703	12.87273569	12.71639469	16.60462416	
ENSG0000010704	187.80095	244.2586623	134.8490314	
130.5320304	77.62144432	91.4397388	188.9695479	
99.86440449	0.921825773	0.012237629	0.080472649	HFE
6	26087281	26098343	+ 5675	
protein_coding	homeostatic iron regulator [Source:HGNC			
Symbol;Acc:HGNC:4886]	-	207 276	116 126	68
106	1.78621266	2.304462562	1.27174187	
1.233720334	0.736529942	0.868502389		
ENSG00000119943	84.37433984	74.33959286	81.37441549	
13.46759043	23.97132839	50.03306463	80.0294494	
29.15732782	1.447132012	0.012258	0.080576648	
PYROXD2 10	98383565	98415184	- 3867	
protein_coding	pyridine nucleotide-disulphide oxidoreductase domain 2			
[Source:HGNC Symbol;Acc:HGNC:23517]	-		93 84	70
13	21 58	1.177707552	1.029275309	
1.126239395	0.186801872	0.333804727	0.697404651	
ENSG00000085063	3022.960219	3478.915947	4151.257682	
3822.723746	5172.099473	5169.795798	3551.044616	
4721.539673	-0.411350354	0.012295416	0.080792577	CD59

11	33703010	33736491	-	10358	
protein_coding	CD59 molecule (CD59 blood group) [Source:HGNC				
Symbol;Acc:HGNC:1689]	-	3332 3931	3571 3690	4531	
5993	15.75280038	17.98264529	21.44967865		
19.79531893	26.88843439	26.90291808			
ENSG00000137936	1660.269268	1823.975011	1493.80177		
2199.361115	2098.06198	2084.998572	1659.348683		
2127.473889	-0.357953293	0.012308709	0.080849889	BCAR3	
1	93561786	93847150	- 6866		
protein_coding	"BCAR3, NSP family adaptor protein [Source:HGNC				
Symbol;Acc:HGNC:973]"	-	1830 2061	1285 2123	1838	
2417	13.05196721	14.22330862	11.64410667		
17.18138773	16.45466588	16.36831105			
ENSG00000167264	325.7030968	338.0681485	333.6351035		
349.1213828	545.6330939	651.2924792	332.4687829		
515.3489853	-0.633160262	0.012330325	0.080961811	DUS2	
16	67987746	68079320	+ 4472		
protein_coding	dihydrouridine synthase 2 [Source:HGNC				
Symbol;Acc:HGNC:26014]	-	359 382	287 337	478	
755	3.931165586	4.047510731	3.992886345		
4.187358549	6.570122422	7.850117818			
ENSG00000131015	217.7402318	231.8687301	238.3107882		
383.3083431	281.9484816	396.8139608	229.3065834		
354.0235952	-0.628292378	0.012375732	0.081229802	ULBP2	
6	149942000	149949235	+ 1349		
protein_coding	UL16 binding protein 2 [Source:HGNC				
Symbol;Acc:HGNC:14894]	-	240 262	205 370	247	
460	8.712202787	9.202710973	9.454721876		
15.24059134	11.25465959	15.85538895			
ENSG00000196588	569.7536066	717.7310692	678.8951235		
827.7388274	913.1934625	938.5512813	655.4599331		
893.1611904	-0.446785869	0.012408251	0.081410918	MRTFA	
22	40410281	40636702	- 6533		
protein_coding	myocardin related transcription factor A [Source:HGNC				
Symbol;Acc:HGNC:14334]	-	628 811	584 799	800	
1088	4.707341101	5.882130248	5.561693294		
6.795887248	7.52704806	7.743677458			
ENSG00000133028	2056.73794	2266.472587	1653.063126		
2393.087223	2635.704631	2817.379122	1992.091218		
2615.390325	-0.392244646	0.01241253	0.081410918	SC01	
17	10672474	10698375	- 10325		
protein_coding	"SC01, cytochrome c oxidase assembly protein				
[Source:HGNC Symbol;Acc:HGNC:10603]"	-		2267 2561	1422	
2310	2309 3266	10.75202198	11.75292484		
8.568728505	12.43179853	13.74615488	14.70811911		
ENSG00000021355	271.2680388	346.0331049	282.4854709		
197.8699825	173.5067579	200.9948975	299.9288715		
190.790546	0.652292104	0.012444558	0.081590726		
SERPINB1	6 2832332	2842006 -	3094	protein_coding	
serpin family B member 1 [Source:HGNC Symbol;Acc:HGNC:3311]					

-	299	391	243	191	152	233	
4.73237948	5.988015128		4.886442704		3.430244696		
3.019747558	3.501600776						
ENSG00000169777	0	0	0	0	5.707459141		
25.87917136	0	10.52887683		-5.876609309	0.012471966		
	0.081740131	TAS2R1	5	9628997	9712378	-	1727
	protein_coding	taste 2 receptor member 1					
Symbol;Acc:HGNC:14909]	-		0	0	0	0	5
	30	0	0	0	0.177961078		
0.807718324							
ENSG00000157954	2376.09028		2623.125634		2819.042251		
2805.402684	3385.664762		4171.722423		2606.086055		
3454.26329	-0.406970405		0.012520274		0.082026341		WIPI2
	7	5190188	5233826	+	8977	protein_coding	"WD
	repeat domain, phosphoinositide	interacting 2					
Symbol;Acc:HGNC:32225]"	-		2619	2964	2425	2708	2966
	4836	14.28673393		15.64492246		16.80689026	
16.76214057	20.30894118		25.04875155				
ENSG00000119446	795.6590972		908.8900223		657.9702738		
977.9542592	1141.491828		1112.804368		787.5064644		
1077.416819	-0.451038498		0.012550081		0.082169978		RBM18
	9	122237624		122264839		-	5193
	protein_coding	RNA binding motif protein 18					
Symbol;Acc:HGNC:28413]	-		877	1027	566	944	1000
	1290	8.270084639		9.370840844		6.781175046	
10.10103126	11.83665631		11.55054312				
ENSG00000176170	3551.887532		4440.020683		3795.535237		
4296.161348	5033.978962		6169.594452		3929.147817		
5166.578254	-0.395102403		0.012555904		0.082169978		SPHK1
	17	76376584		76387860		+	4416
	protein_coding	sphingosine kinase 1					
Symbol;Acc:HGNC:11240]	-		3915	5017	3265	4147	4410
	7152	43.41415827		53.83211922		46.00033214	
52.18155469	61.38424025		75.30597906				
ENSG00000205220	143.3456526		188.5039676		258.0731463		
61.1221412	159.8088559		59.52209412		196.6409222		
93.48436376	1.076459578		0.012556134		0.082169978		PSMB10
	16	67934502		67937087		-	1853
	protein_coding	proteasome subunit beta 10					
Symbol;Acc:HGNC:9538]	-		158	213	222	59	140
	69	4.175517913		5.446664503		7.453914412	
1.769247685	4.644083039		1.731429009				
ENSG00000211592	39.9190425		40.70977704		31.38727455		
4.14387398	0	15.52750281		37.33869803		6.557125598	
	2.478673448	0.012570433		0.082233133		IGKC	2
	88857161	88857683		-	523	IG_C_gene	
	immunoglobulin kappa constant						
Symbol;Acc:HGNC:5716]	-		44	46	27	4	0
	18	4.119833561		4.167566934		3.211951079	
0.424981814	0	1.600301581					

ENSG00000111846	1020.657337	690.2962194	938.1307615	
746.9332848	579.8778487	483.9405044	883.0281059	
603.5838793	0.549267905	0.012593017	0.082350415	GCNT2
6	10492223	10629368	+ 9072	
protein_coding	glucosaminyl (N-acetyl) transferase 2 (I blood group)			
[Source:HGNC Symbol;Acc:HGNC:4204]	-	1125	780	807
721	508	561	6.072648789	4.073971645
5.534486594	4.416154581	3.441977531	2.875350804	
ENSG00000136807	966.2222788	1176.158558	953.2431529	
1237.982351	1358.375276	1543.261252	1031.874663	
1379.87296	-0.419138652	0.012603271	0.082387013	CDK9
9	127785679	127790787	+ 3000	
protein_coding	cyclin dependent kinase 9 [Source:HGNC			
Symbol;Acc:HGNC:1780]	-	1065	1329	820 1195 1190
1789	17.38429314	20.99085686	17.00589308	
22.13393826	24.38220997	27.72809951		
ENSG00000119714	362.9003864	437.1876056	444.0718103	
227.9130689	285.372957	310.5500563	414.7199341	
274.6120274	0.59346232	0.012609815	0.082399344	GPR68
14	91232532	91253925	- 3278	
protein_coding	G protein-coupled receptor 68 [Source:HGNC			
Symbol;Acc:HGNC:4519]	-	400	494	382 220 250
360	5.97557533	7.140760062	7.250388202	
3.729286725	4.687900871	5.106514503		
ENSG00000160352	220.4619847	138.944239	149.9614228	
116.0284714	82.18741163	68.14848458	169.7892155	
88.78812254	0.937752713	0.012619432	0.082431736	ZNF714
19	21082159	21125270	+ 8033	
protein_coding	zinc finger protein 714 [Source:HGNC			
Symbol;Acc:HGNC:27124]	zf-C2H2	243	157	129 112 72
79	1.481348323	0.926079619	0.999122617	
0.774733435	0.55093719	0.457278037		
ENSG00000182199	3112.778064	3978.053213	4173.345023	
2969.085706	3095.725838	2602.582	3754.725434	
2889.131181	0.378109744	0.012626295	0.082436772	SHMT2
12	57229327	57234935	+ 4838	
protein_coding	serine hydroxymethyltransferase 2 [Source:HGNC			
Symbol;Acc:HGNC:10852]	-	3431	4495	3590 2866 2712
3017	34.72830105	44.02407836	46.16740149	
32.91716055	34.45650163	28.99615845		
ENSG00000076067	707.6557535	530.1120967	676.5701402	
406.09965	413.2200418	509.8196758	638.1126635	
443.0464559	0.524774795	0.012629524	0.082436772	RBMS2
12	56521929	56596196	+ 8808	
protein_coding	RNA binding motif single stranded interacting protein			
2 [Source:HGNC Symbol;Acc:HGNC:9909]	-	780	599	582
392	362	591	4.336566198	3.222374093
4.111047789	2.472981143	2.526263369	3.119903728	
ENSG00000108669	541.6288267	561.0869271	563.8084502	
430.9628939	402.9466153	340.7424229	555.508068	

391.550644	0.505557966	0.01265093	0.082546038	CYTH1
17	78674048	78782297	- 7754	
protein_coding	cytohesin 1 [Source:HGNC Symbol;Acc:HGNC:9501]			-
597	634 485	416 353	395 3.770311372	
	3.874270164	3.891551557	2.98112082 2.798312864	
	2.368657769			
ENSG00000131016	10.88701159	15.0449176	17.43737475	
50.76245625	28.5372957	62.97265031	14.45643465	
47.42413409	-1.721645347	0.012671691	0.082651012	AKAP12
6	151239999	151358557	+ 8741	
protein_coding	A-kinase anchoring protein 12 [Source:HGNC Symbol;Acc:HGNC:370]			-
73	0.067227786	0.092154011	0.106766987	25
0.311492076	0.175802987	0.388322682		
ENSG00000170909	153.3254133	230.983735	306.8977956	
260.0280922	394.9561725	551.2263499	230.4023146	
402.0702049	-0.806663453	0.012683242	0.082695863	OSCAR
19	54094668	54102692	- 2084	
protein_coding	"osteoclast associated, immunoglobulin-like receptor [Source:HGNC Symbol;Acc:HGNC:29960]"			-
251	346 639	3.971162635	5.934296391	264
7.881575839	6.692494925	10.20529926	14.25719736	
ENSG00000068697	2396.957052	2277.092529	2719.067969	
2132.023163	1907.432845	1632.113074	2464.372517	
1890.523027	0.382480476	0.012723311	0.082926545	
LAPTM4A 2	20032650	20052028	- 1946	
protein_coding	lysosomal protein transmembrane 4 alpha [Source:HGNC Symbol;Acc:HGNC:6924]			-
1892	66.4842327	62.65033407	74.78151038	
58.76443679	52.78140835	45.20737751		
ENSG00000230291	39.01179154	37.16979643	45.33717435	
94.27313304	77.62144432	95.75293403	40.5062541	
89.21583713	-1.142527944	0.012787944	0.083317106	
AC078817.1	12 80102899	80103333	- 435	
	processed_pseudogene	ribosomal protein L26 (RPL26)		
pseudogene	- 43	42 39	91 68	111
	4.840696811	4.574951288	5.578047352	11.62422959
	9.608752696	11.86491797		
ENSG00000051128	1219.345298	1386.787405	1354.302772	
1092.946762	1012.503252	904.9083585	1320.145158	
1003.452791	0.396085767	0.012826758	0.083539218	HOMER3
19	18929201	18941261	- 3422	
protein_coding	homer scaffold protein 3 [Source:HGNC Symbol;Acc:HGNC:17514]			-
1049	19.23304054	21.69778653	21.18130758	887
17.13107033	15.93275855	14.25366348		
ENSG00000125826	1188.498765	1387.6724	1134.59185	
1341.579201	1812.689023	1856.399225	1236.921005	
1670.222483	-0.433003774	0.01283622	0.083570074	RBCK1
20	407498 430966	+ 4024	protein_coding	



RANBP2-type and C3HC4-type zinc finger containing 1 [Source:HGNC  
Symbol;Acc:HGNC:15864] - 1310 1568 976 1295 1588  
2152 15.94197072 18.4635211 15.09032844  
17.88231909 24.25715628 24.86653728  
ENSG00000104728 39.9190425 30.08983521 13.9498998  
6.215810969 6.848950969 3.450556181 27.98625917  
5.50510604 2.360886055 0.012858689 0.083685561  
ARHGEF10 8 1823976 1958641 + 10792 protein\_coding  
Rho guanine nucleotide exchange factor 10 [Source:HGNC  
Symbol;Acc:HGNC:14103] - 44 34 12 6 6  
4 0.199654647 0.149280617 0.069180892  
0.030893091 0.034174068 0.017234118  
ENSG00000177963 2366.110519 2557.635993 2192.459252  
2510.151663 3329.731663 3501.451885 2372.068588  
3113.778404 -0.392407323 0.012868638 0.083694032 RIC8A  
11 207511 215113 + 6685 protein\_coding RIC8  
guanine nucleotide exchange factor A [Source:HGNC  
Symbol;Acc:HGNC:29550] - 2608 2890 1886 2423 2917  
4059 19.10446407 20.48438228 17.55282906  
20.14021239 26.82145773 28.23245586  
ENSG00000171608 1419.847762 1782.380238 2330.795758  
1482.470916 1332.120963 1164.562711 1844.341253  
1326.384864 0.475226773 0.012869454 0.083694032 PIK3CD  
1 9651732 9729114 + 6332  
protein\_coding "phosphatidylinositol-4,5-bisphosphate 3-kinase  
catalytic subunit delta [Source:HGNC Symbol;Acc:HGNC:8977]" -  
1565 2014 2005 1431 1167 1350 12.10325321  
15.07110171 19.7006392 12.5577193 11.32862784  
9.913428542  
ENSG00000140848 1067.834387 1136.333777 1327.565464  
894.0408111 973.6925294 727.2047152 1177.244543  
864.9793519 0.445063194 0.012899507 0.08385865 CPNE2  
16 57092537 57148367 + 7781  
protein\_coding copine 2 [Source:HGNC Symbol;Acc:HGNC:2315] -  
1177 1284 1142 863 853 843 7.407467097  
7.819087069 9.131403528 6.162932684 6.738464986  
5.037594167  
ENSG00000198060 1071.463391 1047.834261 1092.742151  
1418.24087 1268.197421 1480.288602 1070.679934  
1388.908964 -0.376014051 0.012915543 0.083923522 5-Mar  
10 92291163 92353964 + 4632  
protein\_coding membrane associated ring-CH-type finger 5 [Source:HGNC  
Symbol;Acc:HGNC:26025] - 1181 1184 940 1369 1111  
1716 12.48561763 12.11182515 12.6260106  
16.42279006 14.74323773 17.2258139  
ENSG00000111859 331.1466026 247.7986429 242.9607548  
131.5679989 205.4685291 157.0003062 273.9686668  
164.6789447 0.736643874 0.012918975 0.083923522 NEDD9  
6 11183298 11382348 - 10359  
protein\_coding "neural precursor cell expressed, developmentally

down-regulated 9 [Source:HGNC Symbol;Acc:HGNC:7733]"	-	365
280 209 127 180 182 1.725455308		
1.280756708 1.255264653 0.681236535 1.068075695		
0.816929489		
ENSG00000134569 392.8396683 396.4778286 316.1977288		
324.2581389 159.8088559 170.802531 368.5050752		
218.2898419 0.756515177 0.012926906 0.083944213	LRP4	
11 46856868 46918642 - 8597		
protein_coding LDL receptor related protein 4 [Source:HGNC		
Symbol;Acc:HGNC:6696] - 433 448 272 313	140	
198 2.466434878 2.469207163 1.968470106		
2.02306322 1.000987073 1.070900895		
ENSG00000135823 970.7585336 877.0301967 842.8064462		
1052.543991 1235.094158 1289.645373 896.8650588		
1192.427841 -0.410754413 0.012963081 0.084148232	STX6	
1 180972712 181023121 - 6477		
protein_coding syntaxin 6 [Source:HGNC Symbol;Acc:HGNC:11441] -		
1070 991 725 1016 1082 1495 8.089814516		
7.249802878 6.964195531 8.716293679 10.26835143		
10.73243616		
ENSG00000049249 63.50756762 106.1994184 218.5484302		
67.33795217 53.65011592 43.99459131 129.4184721		
54.9942198 1.232367804 0.012987838 0.084278011		
TNFRSF9 1 7915894 7943165 - 6331 protein_coding TNF		
receptor superfamily member 9 [Source:HGNC Symbol;Acc:HGNC:11924]		
- 70 120 188 65 47 51		
0.541445078 0.89812208 1.847533757 0.570496635		
0.456323573 0.374566455		
ENSG00000126010 19.95952125 10.61994184 16.2748831		
3.107905485 0 0 15.6181154 1.035968495		
3.931281329 0.01301666 0.084434064 GRPR X		
16123556 16153021 + 1929 protein_coding		
gastrin releasing peptide receptor [Source:HGNC Symbol;Acc:HGNC:4609]		
- 22 12 14 3 0 0		
0.558494804 0.294764691 0.451546681 0.086417375 0		
0		
ENSG00000119599 579.7333673 671.7113212 611.4706078		
876.4293467 795.6198042 839.3477911 620.9717654		
837.132314 -0.430876695 0.01302207 0.084438198	DCAF4	
14 72926332 72959703 + 5581		
protein_coding DDB1 and CUL4 associated factor 4 [Source:HGNC		
Symbol;Acc:HGNC:20229] - 639 759 526 846	697	
973 5.606831688 6.444009829 5.86381916		
8.423069501 7.676585932 8.106471046		
ENSG00000197024 381.9526567 422.142688 359.2099198		
483.7972871 611.8396199 566.7538527 387.7684215		
554.1302533 -0.514014581 0.013028642 0.084449854	ZNF398	
7 149126416 149182802 + 6041		
protein_coding zinc finger protein 398 [Source:HGNC		
Symbol;Acc:HGNC:18373] zf-C2H2 421 477 309 467	536	

657	3.412730106	3.741415871	3.182412637		
4.295562956	5.45385157	5.056937102			
ENSG00000107338	194.1517067	348.6880903	373.1598196		
210.3016045	159.8088559	166.4893357	305.3332056		
178.8665987	0.770306638	0.013040208	0.084459545	SHB	
9	37919134	38069211	-	2783	
protein_coding	SH2 domain containing adaptor protein B [Source:HGNC				
Symbol;Acc:HGNC:10838]	-	214	394	321	203
193	3.765557213	6.708253352	7.176268388	140	
4.05317052	3.09216165	3.224594588			
ENSG00000116044	1503.314851	1241.6482	1384.527555		
1969.376109	1735.067579	1667.481275	1376.496868		
1790.641654	-0.379411807	0.01304167	0.084459545	NFE2L2	
2	177227595	177392697	-	5979	
protein_coding	"nuclear factor, erythroid 2 like 2 [Source:HGNC				
Symbol;Acc:HGNC:7782]"	TF_bZIP	1657	1403	1191	1901
1933	13.57133711	11.11873958	12.39338824	1520	
17.66711382	15.62652441	15.03260752			
ENSG00000171155	489.9155216	565.5119028	582.4083166		
410.243524	417.7860091	269.1433821	545.945247		
365.7243051	0.579654323	0.013054244	0.084459545		
C1GALT1C1	X	120625793	120630150	-	1785
protein_coding	C1GALT1 specific chaperone 1 [Source:HGNC				
Symbol;Acc:HGNC:24338]	-	540	639	501	396
312	14.81440533	16.96246945	17.4624973	366	
12.32732963	12.6034727	8.127320598			
ENSG00000279861	7.258007728	10.61994184	6.974949899	0	
0	0	8.284299822	0	5.484511628	
0.013054942	0.084459545	AC073548.1	19	47487638	
47489519	-	1882	TEC	TEC	-
12	6	0	0	0	8
0.302125977	0.198352865	0	0	0	
ENSG00000227082	7.258007728	10.61994184	6.974949899	0	
0	0	8.284299822	0	5.484511628	
0.013054942	0.084459545	AC244021.1	1	121396754	
121463429	+	4658	lincRNA	novel transcript	
-	8	12	6	0	0
0.084104491	0.122069791	0.080141711	0	0	0
ENSG00000247151	12.70151352	1.769990306	11.6249165	0	
0	0	8.698806776	0	5.551751403	
0.01305931	0.084459545	CSTF3-DT	11	33161657	
33191598	+	4012	processed_transcript	CSTF3	
divergent transcript	[Source:HGNC Symbol;Acc:HGNC:27882]				
14	2	10	0	0	0.170881794
0.023620849	0.155076476	0	0	0	
ENSG00000063244	5725.660846	6791.452805	6680.839512		
4359.355427	5160.684555	5570.922954	6399.317721		
5030.320979	0.347107034	0.013064122	0.084459545	U2AF2	
19	55654146	55674715	+	4115	
protein_coding	U2 small nuclear RNA auxiliary factor 2 [Source:HGNC				

Symbol;Acc:HGNC:23156]	-	6311	7674	5747	4208	4521
6458	75.10295484	88.36461633		86.89168201		
56.82218572	67.53237567	72.972499				
ENSG00000136425	56.24955989	67.25963164		81.37441549		
26.93518087	25.11282022	29.32972754		68.29453567		
27.12590954	1.328543174	0.013068335		0.084459545		CIB2
15	78104606	78131544		-	2146	
protein_coding	calcium and integrin binding family member 2					
[Source:HGNC Symbol;Acc:HGNC:24579]	-	62	76			70
26	22	34	1.41478568	1.678070936		
2.029435107	0.67321793	0.630144752		0.73668227		
ENSG00000132819	581.5478692	800.0356184		726.5572812		
873.3214412	972.5510376	1061.046026		702.7135896		
968.9728348	-0.463988437	0.013094432		0.084597302		RBM38
20	57391407	57409333		+	2686	
protein_coding	RNA binding motif protein 38					
[Source:HGNC Symbol;Acc:HGNC:15818]	-	641	904	625	843	852
1230	11.68639886	15.94736238		14.47707604		
17.43948316	19.49759058	21.2926699				
ENSG00000128944	954.4280162	823.9304876		870.7062458		
680.6313012	714.5738844	512.4075929		883.0215832		
635.8709262	0.475087613	0.013102749		0.084620125		KNSTRN
15	40382721	40394246		+	3654	
protein_coding	kinetochore localized astrin (SPAG5) binding protein					
[Source:HGNC Symbol;Acc:HGNC:30767]	-	1052	931			749
657	626	594	14.09859647	12.07278812		
12.75322792	9.990997958	10.53060082		7.558731525		
ENSG00000225151	14.51601546	10.61994184		4.6499666		
20.7193699	47.94265678	50.89570367		9.928641298		
39.85257678	-1.992952875	0.013157794		0.084944605		
GOLGA2P7	15	84199311	84230136			4915
	transcribed_unprocessed_pseudogene			GOLGA2 pseudogene 7		
[Source:HGNC Symbol;Acc:HGNC:49516]	-	16	12			4
20	42	59	0.159413517	0.115686895		
0.050634126	0.226109348	0.525258548		0.558161025		
ENSG00000144406	7.258007728	7.079961225		10.46242485		0
0	0	8.266797934	0	5.478818324		
0.013178226	0.085022671	UNC80	2	209771993		
209999300	+	19258	protein_coding	"unc-80 homolog, NALCN		
channel complex	subunit	[Source:HGNC Symbol;Acc:HGNC:26582]"	-			
8	8	9	0	0	0.020342648	
0.019683632	0.029076235	0	0	0		
ENSG00000116954	740.3167882	850.4803421		735.8572144		
1059.79577	1052.455466	976.5073993		775.5514483		
1029.586212	-0.408020021	0.013179499		0.085022671		RRAGC
1	38838198	38859823		-	5167	
protein_coding	Ras related GTP binding C					
[Source:HGNC Symbol;Acc:HGNC:19902]	-	816	961	633	1023	922
1132	7.733576409	8.81274831		7.622055295		
11.00143193	10.96831261	10.18682824				

ENSG00000121966	4.53625483	7.964956378	0	15.53952742	
	23.97132839	43.99459131	4.167070403	27.83514904	
	-2.710960686	0.013191237	0.085067366	CXCR4	2
	136114349	136118165	-	2224	protein_coding
	C-X-C motif chemokine receptor 4 [Source:HGNC				
Symbol;Acc:HGNC:2561]	-	5	9	0	15 21
	51	0.110094064	0.191749468	0	0.374773194
	0.580405972	1.066268087			
ENSG00000107223	1119.547692	2230.187786	2318.00835		
1027.680747	1172.312108	1551.025003	1889.247943		
1250.339286	0.594714265	0.013198308	0.085081952	EDF1	
	9	136862119	136866286	-	1200
protein_coding	endothelial differentiation related factor 1				
[Source:HGNC Symbol;Acc:HGNC:3164]	-		1234	2520	1994
	992	1027	1798	50.35731863	99.50519052
103.3833866	45.93486769	52.6061547	69.66898116		
ENSG00000103335	9545.187413	10442.05781	11011.12091		
8484.581973	7776.983825	8858.440356	10332.78871		
8373.335385	0.303190653	0.013223913	0.085215958	PIEZ01	
	16	88715338	88785220	-	11292
protein_coding	piezo type mechanosensitive ion channel component 1				
[Source:HGNC Symbol;Acc:HGNC:28993]	-		10521	11799	9472
	8190	6813	10269	45.62625619	49.51089448
52.18884272	40.30185869	37.08641721	42.28519157		
ENSG00000276710	61.69306569	78.76456863	81.37441549		
140.8917153	105.0172482	186.3300338	73.9440166		
144.0796658	-0.966227878	0.013230618	0.085228114		
CSPG4P10	15	82459472	82477258	+	7178
	transcribed_unprocessed_pseudogene chondroitin sulfate				
proteoglycan 4 pseudogene 10 [Source:HGNC Symbol;Acc:HGNC:48361]	-	68	89	70	136 92 216
	0.463910436	0.58750693	0.606738331	1.052803931	
	0.787828583	1.399204893			
ENSG00000166167	427.315205	463.7374602	419.6594856		
636.0846559	541.0671266	656.4683135	436.9040503		
611.2066986	-0.48461352	0.013238398	0.085234038	BTRC	
	10	101354033	101557321	+	6613
protein_coding	beta-transducin repeat containing E3 ubiquitin protein				
ligase [Source:HGNC Symbol;Acc:HGNC:1144]	-			471	524
	361	614	474	761	3.487795941 3.75456135
	3.396374142	5.159194395	4.405824353	5.350780703	
ENSG00000165943	320.259591	383.2029013	290.6229125		
459.9700117	549.0575694	450.2975816	331.3618016		
486.4417209	-0.551731558	0.013241175	0.085234038	MOAP1	
	14	93182196	93184928	-	2537
protein_coding	modulator of apoptosis 1 [Source:HGNC				
Symbol;Acc:HGNC:16658]	-	353	433	250	444 481
	522	6.813698644	8.087119675	6.13093043	
9.724662695	11.65391831	9.567116312			
ENSG00000058866	385.5816605	305.3233278	201.1110554		

520.0561844	392.6731889	502.9185634	297.3386813	
471.8826456	-0.664355257	0.013265647	0.08535444	DGKG
3	186105668	186362237	-	10978
protein_coding	diacylglycerol kinase gamma	[Source:HGNC		
Symbol;Acc:HGNC:2853]	-	425	345	173
583	1.895808155	1.489094671	0.980459645	344
2.540929026	1.92611661	2.469314158		
ENSG00000151474	1425.291268	1212.44336	1533.326486	
1257.665753	894.9295933	866.9522405	1390.353705	
1006.515862	0.465918923	0.01326953	0.08535444	FRMD4A
10	13643706	14462142	-	14646
protein_coding	FERM domain containing 4A	[Source:HGNC		
Symbol;Acc:HGNC:25491]	-	1571	1370	1319
1005	5.252739204	4.432288062	5.603154688	1214
4.605870262	3.290367396	3.190641797		784
ENSG00000163399	9946.19234	9554.407673	11471.4676	
8789.156711	8388.823445	7742.185431	10324.02254	
8306.721862	0.31359709	0.013286951	0.08543543	ATP1A1
1	116372668	116410261	+	7261
protein_coding	ATPase Na+/K+ transporting subunit alpha 1	[Source:HGNC		
Symbol;Acc:HGNC:799]	-		10963	10796
8484	7349	8975	73.93697205	70.45192757
84.55505	64.92564409	62.21271732	57.47368437	
ENSG00000159082	768.4415682	683.2162582	620.770541	
1049.436085	891.5051178	876.44127	690.8094558	
939.127491	-0.442126216	0.013291873	0.085436028	SYNJ1
21	32628759	32728048	-	8070
protein_coding	synaptojanin 1	[Source:HGNC		
Symbol;Acc:HGNC:11503]	-	847	772	534
5.139709336	4.532838088	4.116940296	6.975060104	1013
5.948738241	5.853979421			781
ENSG00000121851	254.0302705	215.0538222	212.7359719	1016
107.7407235	86.75337894	182.0168386	227.2733549	
125.503647	0.852226297	0.01330631	0.085497756	
POLR3GL 1	145964702	145978848	+	1799
protein_coding	RNA polymerase III subunit G like	[Source:HGNC		
Symbol;Acc:HGNC:28466]	-	280	243	183
211	7.621764954	6.40031798	6.328878714	104
3.212286108	2.5967479	5.453587808		76
ENSG00000155886	0	1.16249165	7.251779464	0
31.91764468	0.387497217	13.05647471	-5.22650743	
0.013354248	0.085774619	SLC24A2 9	19507452	
19786928	-	10749	protein_coding	solute carrier
family 24 member 2	[Source:HGNC	Symbol;Acc:HGNC:10976]	-	0
0	1	7	0	37
0.005788137	0.03618612	0	0.160053317	0
ENSG00000144810	938.0974988	972.6096733	1321.753006	
970.7024797	514.8128145	680.6222067	1077.486726	
722.0458337	0.576479288	0.013375127	0.085877541	COL8A1
3	99638475	99799226	+	9408

protein_coding	collagen type VIII alpha 1 chain	[Source:HGNC					
Symbol;Acc:HGNC:2215]	-	1034	1099	1137	937	451	
789	5.382101869	5.535117245	7.519171709				
5.53419332	2.946636698	3.899516054					
ENSG00000197646	196.8734596	259.3035799	199.9485638				
346.0134773	344.7305321	318.3138077	218.7085344				
336.3526057	-0.619342454	0.013384271	0.085889017				
PDCD1LG2	9	5510570	5571254	+	2365	protein_coding	
	programmed cell death 1	ligand 2	[Source:HGNC				
Symbol;Acc:HGNC:18731]	-	217	293	172	334	302	
369	4.493215748	5.870335412	4.5248496				
7.847428463	7.849159568	7.254813278					
ENSG00000076650	421.8716992	392.937848	477.7840681				
555.2791133	523.9447491	837.622513	430.8645384				
638.9487918	-0.570763575	0.013391176	0.085889017				
GPATCH1 19	33080880	33130542	+	4488			
protein_coding	G-patch domain containing 1	[Source:HGNC					
Symbol;Acc:HGNC:24658]	-	465	444	411	536	459	
971	5.073746774	4.687664947	5.697650692				
6.636269051	6.286475068	10.05998654					
ENSG00000136811	1088.701159	1054.914223	1135.754342				
920.975992	743.1111801	803.9795902	1093.123241				
822.6889208	0.409616965	0.013391481	0.085889017			ODF2	
9	128455186	128501292	+	6393			
protein_coding	outer dense fiber of sperm tails 2	[Source:HGNC					
Symbol;Acc:HGNC:8114]	-	1200	1192	977	889	651	
932	9.191898608	8.834825821	9.508164918				
7.72696776	6.259269404	6.778634631					
ENSG00000282917	0	0	0	5.179842475	26.25431205		
0	0	10.47805151	-5.860157789	0.013406769			
0.085955901	AC107068.2	4	47831385				
47896709	+	550	antisense	uncharacterized			
LOC101927179	[Source:NCBI gene;Acc:101927179]	-	0	0			
0	5	23	0	0			
0.505148838	2.570469806	0					
ENSG00000142937	19301.7643	25182.53708	26396.69789				
27969.07743	29880.83159	32353.27739	23626.99976				
30067.7288	-0.347835613	0.013480321	0.086396158			RPS8	
1	44775251	44778779	+	2847			
protein_coding	ribosomal protein S8	[Source:HGNC					
Symbol;Acc:HGNC:10441]	-	21275	28455	22707	26998	26177	
37505	365.9407595	473.5845913	496.2255702				
526.9339363	565.1708657	612.5375551					
ENSG00000261024	0	0	0	3.107905485	11.41491828		
10.35166854	0	8.291497437	-5.527530342				
0.013524393	0.086639438	GS1-279B7.1	1	185321157			
185335039	-	1205					
transcribed_processed_pseudogene		microtubule associated protein					
1 light chain 3 beta pseudogene	[Source:NCBI gene;Acc:100288079]						
-	0	0	0	3	10	12	0

0	0	0.138339516	0.510105861	0.463047152	
ENSG00000186567	10.88701159	15.92991276	10.46242485		
39.36680281	37.66923033	48.30778654	12.42644973		
41.78127322	-1.746169338	0.013528076	0.086639438		
CEACAM19	19	44662278	44684359	+	5203
protein_coding carcinoembryonic antigen related cell adhesion molecule 19 [Source:HGNC Symbol;Acc:HGNC:31951]					
	-		12		18
	9	38	33	56	0.112942164
	0.10762063	0.405827819	0.389858919	0.500455215	
ENSG00000210127	16.33051739	7.079961225	2.3249833	0	
	0	0	8.578487304	0	5.537583249
0.013545882	0.086722082	MT-TA	MT	5587	5655
69	Mt_tRNA mitochondrially encoded tRNA alanine				
[Source:HGNC Symbol;Acc:HGNC:7475]					
	-		18	8	2
	0	0	12.77474083	5.493730325	
1.803382087	0	0	0		
ENSG00000140832	4.53625483	15.92991276	19.76235805	0	
	0	1.725278091	13.40950854	0.575092697	
4.42844588	0.013565811	0.086818242	MARVELD3		16
	71626161	71642114	+	6446	protein_coding
MARVEL domain containing 3 [Source:HGNC Symbol;Acc:HGNC:30525]					
	-	5	18	17	0
0.037984673	0.132314867	0.16408371	0	0	
0.014426823					
ENSG00000077348	1145.85797	1495.641809	1327.565464		
1444.140082	1805.840072	2165.224004	1323.021748		
1805.068053	-0.448574478	0.013586936	0.086921991		EXOSC5
19	41386374	41397479	-	1488	
protein_coding exosome component 5 [Source:HGNC Symbol;Acc:HGNC:24662]					
	-	1263	1690	1142	1394
	2510	41.56512615	53.81585125	47.74963095	1582
52.05613095	65.35079996	78.43353848			
ENSG00000256060	153.3254133	181.4240064	131.3615564		
213.4095099	335.5985975	235.5004594	155.3703254		
261.5028556	-0.747819397	0.013593485	0.086932451		
TRAPPC2B	19	57363511	57365353	+	1843
protein_coding trafficking protein particle complex 2B					
[Source:HGNC Symbol;Acc:HGNC:10710]					
	-		169	205	113
	206	294	273	4.490451943	5.270538216
3.814696184	6.210891304	9.805491226	6.887606543		
ENSG00000273328	0.907250966	0.884995153	4.6499666		
3.107905485	20.54685291	37.09347895	2.14740424		
20.24941245	-3.287983205	0.013599934	0.086942257		
AC099329.2	3	42809414	42908105	+	3933
processed_transcript novel transcript					
	-				1
	1	4	3	18	43
0.012047654	0.063276564	0.042384723	0.281316962		
0.508364865					
ENSG00000275700	2706.329632	3373.601524	3043.403139		
3217.718145	3990.655431	4958.449232	3041.111432		



4055.607603	-0.415536362	0.013645264	0.08720053	AATF
17	36948875	37056871	+ 4714	
protein_coding	apoptosis antagonizing transcription factor			
[Source:HGNC Symbol;Acc:HGNC:19235]	-	2983	3812	2618
3106	3496 5748	30.98791519	38.3168461	
34.55309153	36.61203905	45.58576066	56.69675452	
ENSG00000136854	799.288101	621.2665975	685.8700734	
788.3720246	1103.822598	1043.793245	702.1415907	
978.6626224	-0.478934018	0.013661791	0.087247532	STXBP1
9	127579370	127696027	+ 9373	
protein_coding	syntaxin binding protein 1 [Source:HGNC			
Symbol;Acc:HGNC:11444]	-	881 702	590 761	967
1210	4.602841021	3.548827877	3.916338673	
4.5114701	6.341547025	6.002577437		
ENSG00000090861	5616.79073	6615.33877	7248.135437	
7350.196471	9090.84092	8350.345958	6493.421646	
8263.79445	-0.347940828	0.013662483	0.087247532	AARS
16	70252295	70289543	- 4498	
protein_coding	alanyl-tRNA synthetase [Source:HGNC			
Symbol;Acc:HGNC:20]	-	6191 7475	6235 7095	7964
9680	67.40157368	78.74412957	86.24299962	
87.64860177	108.8326391	100.0660886		
ENSG00000165684	645.9626878	959.334746	464.99666	
875.3933782	1013.644743	1255.139811	690.0980312	
1048.059311	-0.601774654	0.013667893	0.087250579	SNAPC4
9	136375577	136400168	- 5045	
protein_coding	small nuclear RNA activating complex polypeptide 4			
[Source:HGNC Symbol;Acc:HGNC:11137]	MYB	712	1084	400
845	888 1455	6.911105245	10.18109647	
4.932938117	9.306954313	10.81929981	13.41012546	
ENSG00000143612	4604.298652	5092.262111	5869.42034	
6520.385707	6772.471017	6236.017658	5188.660368	
6509.624794	-0.327391793	0.013677591	0.08728099	
C1orf43 1	154206696	154220637	- 2670	
protein_coding	chromosome 1 open reading frame 43 [Source:HGNC			
Symbol;Acc:HGNC:29876]	-	5075 5754	5049 6294	5933
7229	93.07937721	102.1139408	117.6524447	
130.9867965	136.5873399	125.8919561		
ENSG00000164050	637.7974291	778.7957347	802.1192384	
614.3293175	485.134027	478.7646701	739.5708008	
526.0760049	0.491190538	0.013687608	0.08728543	PLXNB1
3	48403854	48430051	- 9733	
protein_coding	plexin B1 [Source:HGNC Symbol;Acc:HGNC:9103]			-
703	880 690	593 425	555	3.537018124
4.284127522	4.410717208	3.385478138	2.684043604	
2.651412368				
ENSG00000129521	212.296726	182.3090015	392.9221777	
161.6110852	164.3748233	101.7914073	262.5093017	
142.5924386	0.880144659	0.013692443	0.08728543	EGLN3
14	33924231	34462774	- 7359	

protein_coding	egl-9 family hypoxia inducible factor 3 [Source:HGNC					
Symbol;Acc:HGNC:14661]	-	234	206	338	156	144
	118	1.557133105	1.326401054	2.857621758		
1.177925542	1.202793436	0.745579953				
ENSG00000068971	283.0623014	366.3879934	402.2221109			
385.3802801	597.0002261	629.7265031	350.5574685			
537.3690031	-0.617720666	0.01369309	0.08728543			
PPP2R5B	11	64917553	64934473	+	3376	
protein_coding	protein phosphatase 2 regulatory subunit B'beta					
[Source:HGNC	Symbol;Acc:HGNC:9310]	-	312	414	346	
	372	523	730	4.525648705	5.810645012	
6.376472741	6.122834852	9.522404177	10.05429076			
ENSG00000101442	367.4366412	338.0681485	283.6479626			
494.1569721	505.6808799	438.220635	329.7175841			
479.352829	-0.537737092	0.013715179	0.087369348			ACTR5
	20	38748442	38772520	+	2565	
protein_coding	ARF5 actin related protein 5 homolog [Source:HGNC					
Symbol;Acc:HGNC:14671]	-	405	382	244	477	443
	508	7.732079973	7.056712666	5.918467996		
10.33339553	10.61606862	9.208891603				
ENSG00000101152	3802.288798	4104.60752	3880.397127			
3850.694896	5708.600633	6128.187778	3929.097815			
5229.161102	-0.412448469	0.013717485	0.087369348			DNAJC5
	20	63895182	63936031	+	5287	
protein_coding	DnaJ heat shock protein family (Hsp40) member C5					
[Source:HGNC	Symbol;Acc:HGNC:16235]	-	4191	4638	3338	
	3717	5001	7104	38.81834665	41.56692279	
39.28112058	39.06567155	58.14266103	62.47764635			
ENSG00000118816	5292.902136	4418.7808	5821.758183			
6577.363974	6796.442345	6249.819883	5177.813706			
6541.208734	-0.337389944	0.013722327	0.087369348			CCNI
	4	77047158	77076005	-	3741	
protein_coding	cyclin I [Source:HGNC					
Symbol;Acc:HGNC:1595]	-	5834	4993	5008	6349	5954
	7245	76.36729366	97.82919554			
	63.24122863	83.2881966	94.30390193			
	90.04958169					
ENSG00000099326	435.4804637	555.7769562	296.4353707			
504.516657	827.5815754	679.7595677	429.2309302			
670.6192667	-0.641475583	0.013726012	0.087369348			MZF1
	19	58561931	58573575	-	6691	
protein_coding	myeloid zinc finger 1 [Source:HGNC					
Symbol;Acc:HGNC:13108]	zf-C2H2	480	628	255	487	725
	788	3.513005996	4.447285952	2.37113345		
4.04436157	6.660308363	5.47603488				
ENSG00000173852	3074.673524	2402.761841	2958.541249			
2641.719662	1888.027484	1608.821819	2811.992204			
2046.189655	0.458811163	0.013739436	0.087423338			
DPY19L1	7	34928876	35038271	-	6278	
protein_coding	dpy-19 like C-mannosyltransferase 1 [Source:HGNC					
Symbol;Acc:HGNC:22205]	-	3389	2715	2545	2550	1654

1865	26.43497725	20.49155723	25.22163997	
22.56996641	16.19427665	13.81301689		
ENSG00000156011	2192.825585	1559.36146	2398.220274	
1677.232993	1552.428886	1234.436474	2050.135773	
1488.032784	0.462295601	0.013780896	0.087655616	PSD3
8	18527301	19084730	- 15213	
protein_coding	pleckstrin and Sec7 domain containing 3 [Source:HGNC			
Symbol;Acc:HGNC:19093]	-	2417 1762	2063 1619	1360
1431	7.780194759	5.488042673	8.437061393	
5.913492184	5.495046898	4.373768441		
ENSG00000176476	355.6423787	396.4778286	495.2214429	
497.2648776	606.1321608	729.7926323	415.78055	
611.0632235	-0.557781367	0.01378818	0.087670426	SGF29
16	28553915	28591790	+ 2124	
protein_coding	SAGA complex associated factor 29 [Source:HGNC			
Symbol;Acc:HGNC:25156]	-	392 448	426 480	531
846	9.037748218	9.994243869	12.47848707	
12.55737225	15.36693905	18.52025102		
ENSG00000125046	6.350756762	8.849951531	9.299933199	0
0	0	8.166880497 0	5.462117506	
0.013833442	0.087926613	SSUH2 3	8619400 8745040	-
6279	protein_coding	ssu-2 homolog (C. elegans)		
[Source:HGNC	Symbol;Acc:HGNC:24809]	-	7 10	8
0	0	0.05459291	0.075463329	
0.079269542	0	0		
ENSG00000178105	1675.692534	1601.841227	1692.587842	
2018.066628	2059.251258	2175.575672	1656.707201	
2084.297853	-0.331538354	0.013855931	0.088037915	DDX10
11	108665025	108940930	+ 8653	
protein_coding	DEAD-box helicase 10 [Source:HGNC			
Symbol;Acc:HGNC:2735]	-	1847 1810	1456 1948	1804
2522	10.45270937	9.911475505	10.46891124	
12.509337	12.81495807	13.55218734		
ENSG00000168434	244.9577608	295.5883811	347.5850033	
433.0348309	537.6426511	376.9732628	296.0437151	
449.2169149	-0.602021429	0.013916606	0.088391683	COG7
16	23388493	23453180	- 4343	
protein_coding	component of oligomeric golgi complex 7 [Source:HGNC			
Symbol;Acc:HGNC:18622]	-	270 334	299 418	471
437	3.044406345	3.64403952	4.283395791	
5.348087401	6.666201515	4.678672278		
ENSG00000229927	0	2.654985459	4.6499666	26.93518087
22.82983656	11.21430759	2.43498402	20.32644167	
-3.093578163	0.013928467	0.088427052	RHEBP1	10
46634911	46635466	- 556		
processed_pseudogene	RHEB pseudogene 1 [Source:HGNC			
Symbol;Acc:HGNC:10010]	-	0 3	4 26	20
13	0	0.255665957	0.447602029	2.598427477
2.211070368	1.087175305			
ENSG00000158859	188.7082009	165.4940936	204.5985304	

131.5679989	106.15874	51.75834272	186.2669416		
96.4950272	0.95231849	0.013932172	0.088427052		
ADAMTS4 1	161184308	161199056	-	10334	
protein_coding	ADAM metalloproteinase with thrombospondin type 1 motif				
4 [Source:HGNC	Symbol;Acc:HGNC:220]	-	208	187	176
127	93	60	0.985651895	0.857431807	
1.059622221	0.682884582	0.553174117	0.269968946		
ENSG00000137078	17.23776835	3.539980612	4.6499666	0	
0	0	8.475905189	0	5.518591829	
0.013944351	0.088472609	SIT1	9	35649295	
35650950	-	1327	protein_coding	signaling threshold	
regulating transmembrane	adaptor 1 [Source:HGNC				
Symbol;Acc:HGNC:17710]	-	19	4	4	0
0	0.701150683	0.142828709	0.187540865	0	
0	0				
ENSG00000104312	701.3049967	769.0607881	747.4821309		
862.9617563	1044.465023	1063.633943	739.2826385		
990.353574	-0.422041093	0.013950904	0.088482446	RIPK2	
8	89757747	89791063	+	3117	
protein_coding	receptor interacting serine/threonine kinase 2				
[Source:HGNC	Symbol;Acc:HGNC:10020]	-	773	869	643
833	915	1233	12.14426891	13.21020068	
12.83456097	14.84978763	18.04395154	18.39319997		
ENSG00000131828	1061.48363	1079.694087	1119.479459		
850.5301343	752.2431148	875.578631	1086.885725		
826.1172933	0.394981213	0.013958798	0.088500782	PDHA1	
X	19343893	19361705	+	4493	
protein_coding	pyruvate dehydrogenase E1 alpha 1 subunit [Source:HGNC				
Symbol;Acc:HGNC:8806]	-	1170	1220	963	821
1015	12.75199479	12.86618681	13.33511346	659	
10.15357035	9.015635733	10.50414339			
ENSG00000072609	354.7351277	313.2882842	326.6601536		
524.2000584	476.0020923	430.4568836	331.5611885		
476.8863448	-0.523736207	0.013989447	0.088663323	CHFR	
12	132822187	132956304	-	17127	
protein_coding	checkpoint with forkhead and ring finger domains				
[Source:HGNC	Symbol;Acc:HGNC:20455]	-	391	354	281
506	417	499	1.117954538	0.979373627	
1.020779333	1.641652615	1.496587513	1.354722257		
ENSG00000215914	0.907250966	5.309970919	20.9248497	0	
0	0	9.047357194	0	5.604038299	
0.014026549	0.08886663	MMP23A	1	1699942	1701782
1017	unprocessed_pseudogene	matrix metalloproteinase 23A			
(pseudogene) [Source:HGNC	Symbol;Acc:HGNC:7170]	-	1	6	
18	0	0	0	0.048151268	0.279548225
1.101180212	0	0	0		
ENSG00000170323	22.68127415	15.0449176	32.5497662		
7.251779464	0	0	23.42531932	2.417259821	
3.285290241	0.01404579	0.088946674	FABP4	8	
81478419	81483263	-	1396	protein_coding	fatty

acid binding protein 4 [Source:HGNC Symbol;Acc:HGNC:3559]							-
25	17	28	7	0	0	0.876967046	
0.577018774		1.247899066		0.278627941	0	0	
ENSG00000196704	1584.060187		1583.256329		1671.662993		
1923.793495	1959.941469		2292.031943		1612.993169		
2058.588969	-0.352499973		0.01404924		0.088946674		AMZ2
17	68247574		68257164		+ 4214		
protein_coding	archaelysin family metalloproteinase 2 [Source:HGNC						
Symbol;Acc:HGNC:28041]	-		1746	1789	1438	1857	1717
2657	20.28982922		20.11602886		21.23103672		
24.48665239	25.04512042		29.31757476				
ENSG00000138738	125.2006333		77.87957347		108.1117234		
56.97826722	52.5086241		33.64292277		103.7306434		
47.70993803	1.123982928		0.014055847		0.088946959		PRDM5
4	120684919		120922870		- 9517		
protein_coding	PR/SET domain 5 [Source:HGNC Symbol;Acc:HGNC:9349]						
zf-C2H2	138	88	93	55	46	39	
0.710080687	0.438136106		0.607980606		0.321125404		
0.29710169	0.190544122						
ENSG00000167670	2130.225268		2233.727766		1992.510688		
1790.153559	1571.834247		1647.640576		2118.821241		
1669.876128	0.34370741		0.014059342		0.088946959		CHAF1A
19	4402662	4445018	+ 4299		protein_coding		
chromatin assembly factor 1 subunit A [Source:HGNC							
Symbol;Acc:HGNC:1910]	-		2348	2524	1714	1728	1377
1910	26.74603022		27.81943762		24.80562758		
22.33512239	19.68855555		20.65841227				
ENSG00000176087	2124.781762		1979.734158		1921.598697		
2282.238594	2656.251484		2705.236046		2008.704872		
2547.908708	-0.342950878		0.014072405		0.088997772		
SLC35A4 5	140564456		140569103		+ 4023		
protein_coding	solute carrier family 35 member A4 [Source:HGNC						
Symbol;Acc:HGNC:20753]	-		2342	2237	1653	2203	2327
3136	28.50792068		26.34768074		25.56405055		
30.42821724	35.55442921		36.24574574				
ENSG00000198791	3012.073207		2553.211017		2521.444389		
3593.774709	3360.551942		3243.52281		2695.576204		
3399.283154	-0.334361996		0.014080736		0.089018631		CNOT7
8	17224964		17246878		- 10943		
protein_coding	CCR4-NOT transcription complex subunit 7 [Source:HGNC						
Symbol;Acc:HGNC:14101]	-		3320	2885	2169	3469	2944
3760	14.85697416		12.49211171		12.33190014		
17.61489036	16.53669691		15.97653017				
ENSG00000139354	919.9524795		622.1515926		695.1700066		
690.9909861	380.1167788		357.9952038		745.7580263		
476.3676562	0.647249612		0.014116478		0.089212715		GAS2L3
12	100573683		100628286		+ 6799		
protein_coding	growth arrest specific 2 like 3 [Source:HGNC						
Symbol;Acc:HGNC:27475]	-		1014	703	598	667	333
415	7.303341313		4.899330359		5.472212949		

5.451209039	3.010554908	2.838141693				
ENSG00000137494	493.5445255	554.891961	417.3345023			
613.293349	788.7708533	671.9958163	488.5903296			
691.3533395	-0.499027475	0.014139379	0.089325524			
ANKRD42 11	83193739	83260694	+	6724		
protein_coding	ankyrin repeat domain 42 [Source:HGNC					
Symbol;Acc:HGNC:26752]	-	544 627	359 592	691		
779	3.961866875	4.418412683	3.321800839			
4.892220753	6.31680838	5.38692304				
ENSG00000271743	32.66103478	15.92991276	2.3249833			
3.107905485	0 0	16.97197694	1.035968495			
4.054284957	0.014157812	0.089410045	AF287957.1	8		
6615604	6617198 -	1595 lincRNA	novel transcript			
-	36 18	2 3	0 0			
1.105275382	0.534734566	0.078014648	0.104513553	0		
0						
ENSG00000069696	9.979760626	28.3198449	2.3249833			
79.76957411	18.26386925	73.32431885	13.54152961			
57.11925407	-2.063505103	0.014204247	0.089654984	DRD4		
11	637293 640706	+	1477	protein_coding		
dopamine receptor D4 [Source:HGNC	Symbol;Acc:HGNC:3025]	-				11
32	2 77	16 85	0.364704291			
1.026587386	0.084247369	2.896825091	0.665866012			
2.675897344						
ENSG00000068097	1053.318372	1088.544038	1069.492318			
1256.629784	1459.968048	1438.019288	1070.451576			
1384.872374	-0.371538415	0.014208274	0.089654984	HEATR6		
17	60043194	60078931	-	4868		
protein_coding	HEAT repeat containing 6 [Source:HGNC					
Symbol;Acc:HGNC:24076]	-	1161 1230	920 1213	1279		
1667	11.67912573	11.97239351	11.7582883			
13.84593457	16.14980694	15.92267565				
ENSG00000168209	704.0267496	654.8964133	3248.00167			
208.2296675	529.6522083	395.9513218	1535.641611			
377.9443992	2.022488552	0.014211802	0.089654984	DDIT4		
10	72273920	72276036	+	2058		
protein_coding	DNA damage inducible transcript 4 [Source:HGNC					
Symbol;Acc:HGNC:24944]	-	776 740	2794 201	464		
459	18.46481813	17.03777153	84.4671572			
5.427036352	13.85861948	10.37046746				
ENSG00000260296	9.979760626	2.654985459	2.3249833			
9.323716454	18.26386925	63.83528935	4.986576462			
30.47429169	-2.603440349	0.014228563	0.089728714			
AC095057.3	4 40166675	40167831	+	1157		
sense_overlapping	"novel transcript, overlapping N4BP2"					
-	11 3	2 9	16 74			
0.46557324	0.122861082	0.107548283	0.432236257			
0.850029472	2.973920666					
ENSG00000151240	562.4955989	612.416646	789.3318303			
456.8621063	424.6349601	496.8800901	654.748025			

459.4590521	0.508981606	0.01423935	0.08976474	DIP2C
10	274190 689668	- 8563	protein_coding	disco
interacting protein 2 homolog C	[Source:HGNC	Symbol;Acc:HGNC:29150]		
-	620 692	679 441	372 576	
3.545638292	3.829187136	4.933449385	2.861703859	
2.670326441	3.12771777			
ENSG00000170759	5722.939093	4305.50142	5312.58684	
4643.210794	3820.573149	2986.456375	5113.675784	
3816.746773	0.4221806	0.014254789	0.089830053	KIF5B
10	32009010	32056431	- 5877	
protein_coding	kinesin family member 5B	[Source:HGNC		
Symbol;Acc:HGNC:6324]	-	6308 4865	4570 4482	3347
3462	52.56112807	39.22415485	48.3801662	
42.37680453	35.00639443	27.39065331		
ENSG00000175197	207.7604712	299.1283618	268.5355711	
418.5312719	358.428434	395.9513218	258.4748014	
390.9703426	-0.597623066	0.014261915	0.089842951	DDIT3
12	57516588	57521737	- 1307	
protein_coding	DNA damage inducible transcript 3	[Source:HGNC		
Symbol;Acc:HGNC:2726]	TF_bZIP	229 338	231 404	314
459	8.580025495	12.25370875	10.99621541	
17.17583349	14.76731098	16.32932061		
ENSG00000171877	497.1735294	444.2675669	412.6845357	
373.9846267	292.221908	212.2092051	451.3752106	
292.8052466	0.626527521	0.014275878	0.0898989	FRMD5
15	43870761	44195252	- 6673	
protein_coding	FERM domain containing 5	[Source:HGNC		
Symbol;Acc:HGNC:28214]	-	548 502	355 361	256
246	4.021500409	3.564585475	3.309893918	
3.006063295	2.358121623	1.714134912		
ENSG00000184481	219.5547338	186.7339773	277.8355043	
300.4308635	358.428434	408.8909075	228.0414051	
355.916735	-0.645406806	0.014304545	0.090036517	FOXO4
X	71096197	71103535	+ 3447	
protein_coding	forkhead box 04	[Source:HGNC	Symbol;Acc:HGNC:7139]	
Fork	242 211	239 290	314 474	
3.43797541	2.90046489	4.313834348	4.674861601	
5.599325632	6.39393293			
ENSG00000174099	734.8732824	632.7715345	823.0440881	
625.7249709	445.181813	461.5118892	730.229635	
510.8062244	0.514936473	0.014308134	0.090036517	MSRB3
12	65278643	65491430	+ 7405	
protein_coding	methionine sulfoxide reductase B3	[Source:HGNC		
Symbol;Acc:HGNC:27375]	-	810 715	708 604	390
535	5.356592878	4.575171938	5.948603762	
4.532355005	3.237329497	3.35938468		
ENSG00000122779	788.4010894	637.1965102	646.3453573	
515.9123105	405.229599	542.5999595	690.6476523	
487.9139563	0.500456194	0.014313002	0.090036517	TRIM24
7	138460334	138589993	+ 9223	

protein_coding	tripartite motif containing 24	[Source:HGNC				
Symbol;Acc:HGNC:11812]	-		869	720	556	498
629	4.613985776		3.699020419		3.750674964	
3.000331059	2.36593879		3.171096475			
ENSG00000164330	116.1281236		73.45459771		123.2241149	
38.33083431	66.20652603		36.2308399		104.2689454	
46.92273342	1.155482649		0.014358548		0.090290921	EBF1
5	158695916		159099761		-	6178
protein_coding	early B cell factor 1	[Source:HGNC				
Symbol;Acc:HGNC:3126]	COE		128	83	106	37
42	1.014590401		0.636585335		1.06749244	
0.332786625	0.577068608		0.316105756			
ENSG00000100949	563.4028499		664.63136		639.3704074	
786.3000876	803.610247		946.3150327		622.4682058	
845.4084558	-0.442455586		0.014383739		0.090417185	
RABGGTA 14	24265538		24271739		-	3545
protein_coding	Rab geranylgeranyltransferase subunit alpha	[Source:HGNC				
Symbol;Acc:HGNC:9795]	-				621	751
759	704	1097	8.578355581		10.03806811	
9.652799747	11.89700324		12.20685483		14.38869498	
ENSG00000005812	1129.527453		1079.694087		1183.4165	
852.6020713	921.1839053		823.8202882		1130.879346	
865.868755	0.385384472		0.014412336		0.090542462	FBXL3
13	76992598		77027195		-	7082
protein_coding	F-box and leucine rich repeat protein 3	[Source:HGNC				
Symbol;Acc:HGNC:13599]	-		1245	1220	1018	823
955	8.608789973		8.162634474		8.943318594	
6.457374234	7.004303766		6.27015775			
ENSG00000067900	2219.135863		1404.487308		1963.448397	
1665.83734	1158.614206		1130.919788		1862.357189	
1318.457111	0.498257059		0.014413905		0.090542462	ROCK1
18	20946906		21111851		-	11113
protein_coding	Rho associated coiled-coil containing protein kinase 1	[Source:HGNC				
Symbol;Acc:HGNC:10251]	-				2446	1587
1608	1015	1311	10.77838821		6.766624132	
9.45595032	8.040198551		5.614125129		5.485325395	
ENSG00000115128	1377.206966		1755.830384		1475.201904	
1708.312048	2076.373635		2342.065008		1536.079751	
2042.25023	-0.410978991		0.014439645		0.09067195	SF3B6
2	24067584		24076443		-	1197
protein_coding	splicing factor 3b subunit 6	[Source:HGNC				
Symbol;Acc:HGNC:30096]	-		1518	1984	1269	1649
2715	62.10210264		78.53693678		65.95903882	
76.54882854	93.40839479		105.464598			
ENSG00000156504	2306.231956		1880.6147		1856.499165	
1865.779259	1322.989029		1251.689255		2014.448607	
1480.152514	0.445037551		0.014447389		0.090688382	
FAM122B X	134769566		134797232		-	4404
protein_coding	family with sequence similarity 122B	[Source:HGNC				
Symbol;Acc:HGNC:30490]	-		2542	2125	1597	1801
						1159



1451	28.26551609	22.86325525	22.56131725		
22.72366856	16.17645991	15.31973032			
ENSG00000267280	22.68127415	37.16979643	13.9498998	0	
7.990442797	0	24.60032346	2.663480932		
3.259250336	0.014463305	0.090756085	TBX2-AS1	17	
61393456	61411555	-	1206	antisense	
TBX2 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:50355]					
-	25	42	12	0	7
1.01512935	1.650168997	0.619071463	0	0.356778021	
0					
ENSG00000155755	1010.677576	943.4048332	1054.379926		
834.9906069	698.5929988	728.0673542	1002.820779		
753.8836533	0.411256143	0.014474238	0.090764802		
TMEM237 2	201620184	201643570	-	7647	
protein_coding transmembrane protein 237 [Source:HGNC					
Symbol;Acc:HGNC:14432] -					
844	7.133830466	6.605300123	7.37943384		612
5.856740682	4.919349654	5.131949505			
ENSG00000119042	866.4246725	781.4507202	711.4448897		
675.4514587	553.6235367	396.8139608	786.4400941		
541.9629854	0.538800012	0.014476439	0.090764802	SATB2	
2	199269500	199471266	-	10958	
protein_coding SATB homeobox 2 [Source:HGNC Symbol;Acc:HGNC:21637]					
CUT					
4.267767571	3.818175163	3.474777276	3.306194075		
2.720556832	1.951899953				
ENSG00000087460	14211.17913	13143.06302	20271.52939		
12951.67812	12878.31081	9753.859685	15875.25718		
11861.28287	0.42048952	0.014480088	0.090764802	GNAS	
20	58839718	58911192	+	13320	
protein_coding GNAS complex locus [Source:HGNC Symbol;Acc:HGNC:4392]					
-					
57.58735519	52.82967197	81.4515391	52.15396286		
52.06300493	39.47064155				
ENSG00000165527	3202.59591	3364.751572	3421.212926		
2726.669079	2685.930272	2687.120626	3329.520136		
2699.906659	0.302320051	0.014487674	0.090780183	ARF6	
14	49893092	49897054	+	3865	
protein_coding ADP ribosylation factor 6 [Source:HGNC					
Symbol;Acc:HGNC:659] -					
3115	44.72536471	46.61106811	47.3748241		2353
37.83976498	37.42137914	37.47482133			
ENSG00000147894	323.8885949	307.0933181	287.1354375		
401.955776	624.39603	380.423819	306.0391168		
468.9252083	-0.613555906	0.01451045	0.090890705		
C9orf72 9	27546545	27573866	-	6332	
protein_coding chromosome 9 open reading frame 72 [Source:HGNC					
Symbol;Acc:HGNC:28337] -					
441	2.7609338	2.596659531	2.426961537		547
3.404888252	5.309990943	3.238386657			

ENSG00000244161	10.88701159	8.849951531	4.6499666	0	
0	0	8.128976574	0	5.458618873	
0.014538254	0.091032627	FLNB-AS1	3	58162547	
58170636	-	3709 antisense		FLNB antisense	
RNA 1 [Source:HGNC Symbol;Acc:HGNC:40239]			-	12	10
4	0	0	0.158435718	0.127752559	
0.067098066	0	0	0		
ENSG0000054148	693.139738	1076.154106	1204.341349		
504.516657	743.1111801	753.9465256	991.2117312		
667.1914542	0.570239382	0.014564691	0.091165895		PHPT1
9	136848724	136851027	+	1612	
protein_coding phosphohistidine phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:30033]	-	764 1216	1036 487	651	
874	23.20903079	35.74332733	39.98541102		
16.78711121	24.82351693	25.21026514			
ENSG00000255346	5.443505796	0	25.5748163	0	0
0	10.3394407	0	5.797181252	0.014584762	
0.091259235	NOX5	15	68930525	69062743	
+	12511 protein_coding	NADPH oxidase 5 [Source:HGNC Symbol;Acc:HGNC:14874]	-	6	0
0	0.023484856	0	0.109405084	0	0
0					
ENSG00000119689	2068.532202	2135.493304	2222.684035		
2517.403443	3131.112085	2546.510462	2142.236514		
2731.67533	-0.350490412	0.014617091	0.091429178		DLST
14	74881891	74903745	+	4550	
protein_coding dihydrolipoamide S-succinyltransferase [Source:HGNC Symbol;Acc:HGNC:2911]	-	2280 2413	1912 2430	2743	
2952	24.53873293	25.12883566	26.14468044		
29.67610647	37.05627589	30.16726752			
ENSG00000153936	1707.446318	1478.826901	1771.637274		
1376.80213	1273.90488	1170.601184	1652.636831		
1273.769398	0.375621747	0.014625834	0.091429205		HS2ST1
1	86914648	87109998	+	7429	
protein_coding heparan sulfate 2-O-sulfotransferase 1 [Source:HGNC Symbol;Acc:HGNC:5193]	-	1882 1671	1524 1329	1116	
1357	12.40560487	10.65792187	12.76325527		
9.940464215	9.23381558	8.493379067			
ENSG00000105048	205.0387183	290.2784102	381.2972612		
338.7616978	489.6999943	589.1824679	292.2047966		
472.5480533	-0.696326678	0.014627432	0.091429205		TNNT1
19	55132794	55149354	-	2171	
protein_coding "troponin T1, slow skeletal type [Source:HGNC Symbol;Acc:HGNC:11948]"	-	226 328	328 327	429	
683	5.097735515	7.158803819	9.399848778		
8.369508849	12.14632309	14.62823398			
ENSG00000174748	27509.66379	30460.64818	32619.5157		
35391.79169	37414.67765	37642.98002	30196.60922		
36816.48312	-0.286000874	0.014645445	0.09150946		RPL15
3	23916545	23924374	+	7222	



	1463	1560	1205	1162	860	1091	15.2399225
	15.72391864		15.94790509		13.73497649		11.24489903
	10.79109504						
ENSG00000142102	221.3692357			160.1841227		101.1367735	
98.41700702	84.47039528			62.11001126		160.8967107	
81.66580452	0.983027205			0.014801678		0.092232948	PGGHG
11	289135	296107	+	5260		protein_coding	
protein-glucosylgalactosylhydroxylysine glucosidase [Source:HGNC							
Symbol;Acc:HGNC:26210]	-			244	181	87	95
72	2.271604737			1.63049425		1.029059189	74
1.003575163	0.864755506			0.636469754			
ENSG00000104635	4712.261517			5188.726583		6260.017535	
4862.836115	3942.712775			3575.638843		5387.001878	
4127.062577	0.384276802			0.014807355		0.092232948	
SLC39A14	8	22367249		22434129		+	6942
protein_coding solute carrier family 39 member 14							
[Source:HGNC Symbol;Acc:HGNC:20858]	-					5194	5863
4694	3454	4145		36.63920312		40.01858474	5385
48.26229222	37.57253689			30.58335206		27.76329091	
ENSG00000231672	158.768919			186.7339773		53.4746159	
301.466832	246.5622349			230.3246251		132.9925041	
259.4512307	-0.958774506			0.014808162		0.092232948	DIRC3
2	217284019			217756593		-	4665
lincRNA disrupted in renal carcinoma 3 [Source:HGNC							
Symbol;Acc:HGNC:17805]	-			175	211	46	291
267	1.837025074			2.143173092		0.613497829	216
3.466198137	2.846095465			2.661280375			
ENSG00000198743	4741.293548			4401.080896		4691.816299	
6364.990433	5455.189447			5351.812637		4611.396915	
5723.997505	-0.31182222			0.014846392		0.092438518	SLC5A3
21	34073570			34106262		+	11576
protein_coding solute carrier family 5 member 3 [Source:HGNC							
Symbol;Acc:HGNC:11038]	-			5226	4973	4036	6144
6204	22.1074968			20.35571595		21.69199452	4779
29.49203445	25.37615817			24.91978489			
ENSG00000156463	117.9426256			70.79961225		113.9241817	
40.4027713	23.97132839			63.83528935		100.8888065	
42.73646301	1.230414687			0.014854082		0.092453853	SH3RF2
5	145936579			146081791		+	7232
protein_coding SH3 domain containing ring finger 2 [Source:HGNC							
Symbol;Acc:HGNC:26299]	-			130	80	98	39
74	0.880265373			0.524152921		0.8430911	21
0.299652726	0.178487677			0.475777961			
ENSG00000161203	10301.83472			10908.45026		12007.37625	
8624.43772	9774.594525			8515.972655		11072.55374	
8971.6683	0.303542061			0.014872353		0.092535018	AP2M1
3	184174689			184184091		+	4756
protein_coding adaptor related protein complex 2 subunit mu 1							
[Source:HGNC Symbol;Acc:HGNC:564]	-					11355	12326
8325	8563	9872		116.9160074		122.8023728	10329

135.121133	97.26451821	110.6703946	96.51488974				
ENSG00000177200	1974.178102	1677.065815	1690.262859				
1538.413215	1321.847537	1244.788142	1780.502259				
1368.349631	0.380268523	0.014881221	0.092557639			CHD9	
16	53055033	53329150	+	16504			
protein_coding	chromodomain	helicase	DNA binding	protein 9			
[Source:HGNC	Symbol;Acc:HGNC:25701]	-	2176	1895		1454	
1485	1158	1443	6.456517903	5.440595527			
5.481280637	4.999761435	4.312873346	4.065445414				
ENSG00000114126	1991.41587	1855.834836	1461.252004				
2546.41056	2268.144263	2141.932749	1769.500903				
2318.829191	-0.389262957	0.014904833	0.09267191			TFDP2	
3	141944428	142149544	-	11897			
protein_coding	transcription	factor Dp-2	[Source:HGNC				
Symbol;Acc:HGNC:11751]	E2F	2195	2097	1257	2458	1987	
2483	9.034949855	8.351940846	6.57362102				
11.48038521	10.26615379	9.704435461					
ENSG00000273175	0	0	0	23.97132839			
6.038473317	0	10.00326724	-5.794890678	0.014931668			
0.092786448	BX323046.1	1	244864738				
244865272	+	535	lincRNA	novel transcript		-	
0	0	0	0	21	7	0	0
0	0	2.412753048	0.608380487				
ENSG00000272155	0.907250966	15.92991276	9.299933199			0	
0	0	8.71236564	0	5.556175989			
0.014933745	0.092786448	AC055822.1	8	65714334			
65714778	-	445	antisense	"novel			
transcript, antisense to MTFR1"	-	1	18	8	0		
0	0	0.110044584	1.916632883	1.118502148			
0	0	0					
ENSG00000167695	1124.083947	1452.277046	1207.828824				
1647.189907	1499.920262	1841.734362	1261.396606				
1662.948177	-0.398878299	0.014949009	0.092848672			FAM57A	
17	732412	742972	+	2740	protein_coding	family	
with sequence similarity 57 member A	[Source:HGNC						
Symbol;Acc:HGNC:29646]	-	1239	1641	1039	1590	1314	
2135	22.14366115	28.37817477	23.59238416				
32.24471964	29.4776028	36.23083429					
ENSG00000284753	110.6846178	210.6288464	120.8991316				
234.1288798	237.4303003	296.7478316	147.4041986				
256.1023372	-0.795527252	0.014960244	0.09288584				
EEF1AKMT4	3	184249650	184259585	+	1823		
protein_coding	EEF1A	lysine methyltransferase 4	[Source:HGNC				
Symbol;Acc:HGNC:53611]	-	122	238	104	226	208	
344	3.277191695	6.186097052	3.549388332				
6.888645155	7.013325998	8.774104287					
ENSG00000101773	1933.351809	1696.535709	1669.338009				
1564.312427	1106.105581	1321.563017	1766.408509				
1330.660342	0.408560688	0.014970126	0.092914579			RBBP8	
18	22798261	23026488	+	5091			

protein_coding	"RB binding protein 8, endonuclease [Source:HGNC					
Symbol;Acc:HGNC:9891]"	-	2131	1917	1436	1510	969
1532	20.49788424	17.84207895		17.54923499		
16.48108859	11.69951989	13.99222198				
ENSG00000151689	509.8750429	484.9773439		535.9086506		
416.459335	313.9102527	335.5665886		510.2536791		
355.3120588	0.521631195	0.015037639		0.093300878		INPP1
2	190343470	190371665		+	3676	
protein_coding	inositol polyphosphate-1-phosphatase [Source:HGNC					
Symbol;Acc:HGNC:6071]"	-	562	548	461	402	275
389	7.486683892	7.063687808		7.802472906		
6.07662721	4.598376757	4.920453328				
ENSG00000254999	2361.574264	2894.819146		3136.402471		
2128.915257	2046.694848	2332.575978		2797.598627		
2169.395361	0.366322152	0.015067743		0.093428652		BRK1
3	10115592	10127190		+	1233	
protein_coding	"BRICK1, SCAR/WAVE actin nucleating complex subunit					
[Source:HGNC Symbol;Acc:HGNC:23057]"	-			2603	3271	2698
2055	1793	2704	103.380773	125.702498		
136.1399903	92.61062034	89.38498532		101.9705188		
ENSG00000214530	604.2291433	653.126423		813.7441549		
731.3937574	1350.384833	959.2546183		690.3665738		
1013.677736	-0.554463841	0.015068797		0.093428652		
STARD10	11	72754729	72793681	-	3710	
protein_coding	StAR related lipid transfer domain containing 10					
[Source:HGNC Symbol;Acc:HGNC:10666]"	-			666	738	700
706	1183	1112	8.790812218	9.425597561		
11.7389966	10.57408592	19.60009585		13.93676239		
ENSG00000141522	6039.569681	7672.907978		8175.803774		
6718.255689	11195.75185	12489.2881		7296.093811		
10134.43188	-0.474190947	0.015094098		0.093548138		
ARHGDI17	17	81867721	81871406	-	2903	
protein_coding	Rho GDP dissociation inhibitor alpha [Source:HGNC					
Symbol;Acc:HGNC:678]"	-	6657	8670	7033	6485	9808
14478	112.2949445	141.5137053		150.730253		
124.1294949	207.6733562	231.8956247				
ENSG00000136867	7.258007728	8.849951531		3.48747495		
40.4027713	35.38624667	15.52750281		6.531811403		
30.43884026	-2.203440175	0.01510114		0.093548138		
SLC31A2	9	113150942	113164137	+	2504	
protein_coding	solute carrier family 31 member 2 [Source:HGNC					
Symbol;Acc:HGNC:11017]"	-	8	10	3	39	31
18	0.156453162	0.189230927		0.074540753		
0.865450685	0.760982605	0.334248294				
ENSG00000138678	55.34230892	79.64956378		65.09953239		
100.488944	130.1300684	162.1761405		66.69713503		
130.9317176	-0.973870605	0.015103934		0.093548138		GPAT3
4	83535914	83605875		+	3468	
protein_coding	glycerol-3-phosphate acyltransferase 3 [Source:HGNC					
Symbol;Acc:HGNC:28157]"	-	61	90	56	97	114

188	0.861349547	1.229673635	1.004652305	
1.554192071	2.020566381	2.520633934		
ENSG00000101493	246.7722627	242.488672	387.1097194	
211.337573	113.007691	182.8794776	292.1235514	
169.0749138	0.785176057	0.015114612	0.09356432	ZNF516
18	76358190	76495190	- 8217	
protein_coding	zinc finger protein 516 [Source:HGNC			
Symbol;Acc:HGNC:28990]	zf-C2H2	272 274	333 204	99
212	1.621004799	1.58002412	2.521377036	
1.379522932	0.740575376	1.199647331		
ENSG00000166477	697.6759928	613.3016411	803.2817301	
591.5380106	455.4552394	445.1217474	704.7531213	
497.3716658	0.50222915	0.015117125	0.09356432	LE01
15	51938025	51971806	- 2679	
protein_coding	"LE01 homolog, Paf1/RNA polymerase II complex			
component [Source:HGNC	Symbol;Acc:HGNC:30401]"	-	769	693
691	571 399	516	14.05666548	12.25707834
16.04767722	11.84337384	9.154772203	8.955874645	
ENSG00000159063	1454.323298	1385.017415	1503.101703	
1319.823863	995.3808742	921.2985004	1447.480805	
1078.834412	0.424256788	0.015138017	0.093660853	ALG8
11	78100936	78139660	- 3448	
protein_coding	"ALG8, alpha-1,3-glucosyltransferase [Source:HGNC			
Symbol;Acc:HGNC:23161]"	-	1603 1565	1293 1274	872
1068	22.76643076	21.50668754	23.33125575	
20.53119437	15.54520981	14.40240481		
ENSG00000149600	561.5883479	635.4265199	604.4956579	
795.6238041	904.0615279	740.1443008	600.5035086	
813.2765443	-0.436885725	0.015159761	0.093756227	COMMD7
20	32702691	32743997	- 2584	
protein_coding	COMM domain containing 7 [Source:HGNC			
Symbol;Acc:HGNC:16223]	-	619 718	520 768	792
858	11.7307782	13.16613718	12.52038492	
16.51508276	18.83996243	15.43923568		
ENSG00000164405	1321.864657	2015.133964	1976.235805	
1308.428209	1287.602782	1329.326769	1771.078142	
1308.452587	0.436386343	0.015164032	0.093756227	UQCRO
5	132866560	132868031	+ 1472	
protein_coding	ubiquinol-cytochrome c reductase complex III subunit			
VII [Source:HGNC	Symbol;Acc:HGNC:29594]	-	1457 2277	1700
1263	1128 1541	48.47082652	73.29623409	
71.85350503	47.67685332	47.10300884	48.67722891	
ENSG00000089820	106.148363	69.02962194	61.61205744	
118.1004084	134.6960357	213.9344832	78.93001414	
155.5769758	-0.978472107	0.015213845	0.094031343	
ARHGAP4 X	153907367	153934999	- 5580	
protein_coding	Rho GTPase activating protein 4 [Source:HGNC			
Symbol;Acc:HGNC:674]	-	117 78	53 114	118
248	1.026786964	0.662348938	0.59094698	
1.135226959	1.299855777	2.066562289		

ENSG00000177406	15.42326642	17.69990306	43.01219105	
42.47470829	90.17785443	80.22543121	25.37845351	
70.95933131	-1.495437194	0.015237222	0.094142936	
AC021054.1	12 630891	663706 +	3530 antisense	
	uncharacterized LOC100049716 [Source:NCBI gene;Acc:100049716]			
-	17 20	37 41	79 93	
0.23583209	0.268461326	0.652129528	0.645388459	
1.375624006	1.225008949			
ENSG00000165775	1518.738117	1693.880723	1776.287241	
2222.152422	1921.130747	2225.608737	1662.968694	
2122.963968	-0.352912599	0.015276324	0.094351572	FUNDC2
X	155025980	155060303	+ 10252	
protein_coding	FUN14 domain containing 2 [Source:HGNC			
Symbol;Acc:HGNC:24925]	-	1674 1914	1528 2145	1683
2580	7.99605071	8.846261573	9.273028687	
11.62601135	10.0907368	11.70151589		
ENSG00000178878	304.8363246	290.2784102	455.6967268	
246.5605018	218.0249392	50.03306463	350.2704872	
171.5395019	1.032304297	0.015287281	0.094386288	APOLD1
12	12725917	12829975	+ 7243	
protein_coding	apolipoprotein L domain containing 1 [Source:HGNC			
Symbol;Acc:HGNC:25268]	-	336 328	392 238	191
58	2.271692142	2.145763232	3.367242765	
1.825872785	1.620922468	0.372340713		
ENSG00000176022	1910.670534	2187.708019	2197.109218	
2061.577305	2924.502064	3648.100522	2098.495924	
2878.059964	-0.456133916	0.015306978	0.094474922	
B3GALT6 1	1232226 1235041	+ 2816		
protein_coding	"beta-1,3-galactosyltransferase 6 [Source:HGNC			
Symbol;Acc:HGNC:17978]"	-	2106 2472	1890 1990	2562
4229	36.62304073	41.59510805	41.75764524	
39.26742922	55.92343446	69.829037		
ENSG00000138443	1315.513901	1253.153137	1504.264195	
1272.169312	877.8072159	741.8695789	1357.643744	
963.9487022	0.494238215	0.015332337	0.094598432	ABI2
2	203328219	203447723	+ 23331	
protein_coding	abl interactor 2 [Source:HGNC Symbol;Acc:HGNC:24011]			
-	1450 1416	1294 1228	769 860	
3.043430104	2.875784513	3.450704492	2.924671256	
2.026004223	1.713941978			
ENSG00000104517	3139.088342	2431.966681	2649.31847	
2554.698308	1741.91653	1824.481581	2740.124498	
2040.365473	0.42549249	0.015375194	0.094829782	UBR5
8	102253012	102412841	- 13085	
protein_coding	ubiquitin protein ligase E3 component n-recognin 5			
[Source:HGNC Symbol;Acc:HGNC:16806]	-	3460 2748	2279	
2466	1526 2115	12.94884569	9.951062232	
10.8362108	10.47204233	7.168497974	7.51566931	
ENSG00000044090	1777.304642	1885.039676	1992.510688	
2191.073367	2651.685517	2338.614452	1884.951669	



2393.791112	-0.344810927	0.015398469	0.094940228	CUL7
6	43037617	43053945	- 5628	
protein_coding	cullin 7 [Source:HGNC Symbol;Acc:HGNC:21024]			-
1959	2130	1714	2115 2323 2711	17.04547197
	17.932959	18.9480087	20.88181898	25.37128602
	22.39785594			
ENSG00000184990	1113.196935	1748.750423	1504.264195	
848.4581973	1006.795792	1247.376059	1455.403851	
1034.210016	0.492244296	0.015412426	0.094993174	SIVA1
14	104753100	104768494	+ 4776	
protein_coding	SIVA1 apoptosis inducing factor [Source:HGNC			
Symbol;Acc:HGNC:17712]	-	1227 1976	1294 819	882
	1446	12.5808194	19.60419722	16.85686485
9.528655535	11.35145749	14.07780655		
ENSG00000119401	455.4399849	499.1372664	497.5464262	
645.4083723	780.7804105	593.4956631	484.0412258	
673.2281486	-0.47521874	0.015436723	0.095109787	TRIM32
9	116687302	116701300	+ 3780	
protein_coding	tripartite motif containing 32 [Source:HGNC			
Symbol;Acc:HGNC:16380]	-	502 564	428 623	684
	688	6.503402009	7.069907716	7.044640185
9.158161344	11.12273684	8.463064612		
ENSG00000160075	3650.777887	3901.94363	3714.160821	
4043.385036	4932.38619	5225.004697	3755.627446	
4733.591974	-0.333948203	0.015446951	0.095139666	SSU72
1	1541673	1574869	- 6925	protein_coding "SSU72
homolog, RNA polymerase II CTD phosphatase [Source:HGNC				
Symbol;Acc:HGNC:25016]"	-	4024 4409	3195 3903	4321
	6057	28.45554303	30.16801685	28.70502513
31.31776905	38.35410464	40.66949821		
ENSG00000167615	1490.613337	1703.61567	1160.166667	
1044.256243	1147.199287	1053.282274	1451.465224	
1081.579268	0.425408343	0.015547339	0.095724633	LENG8
19	54448887	54462037	+ 6469	
protein_coding	leukocyte receptor cluster member 8 [Source:HGNC			
Symbol;Acc:HGNC:15500]	-	1643 1925	998 1008	1005
	1221	12.43738551	14.10002957	9.598430768
8.658355724	9.549404081	8.776261011		
ENSG00000140829	2580.221747	2863.844315	3031.778223	
3380.365199	3369.683877	3904.304319	2825.281429	
3551.451132	-0.33047384	0.015555094	0.095739059	DHX38
16	72093562	72112912	+ 6361	
protein_coding	DEAH-box helicase 38 [Source:HGNC			
Symbol;Acc:HGNC:17211]	-	2844 3236	2608 3263	2952
	4526	21.89439152	24.10513445	25.50874181
28.50386299	28.52583184	33.08416455		
ENSG00000238178	9.07250966	20.35488852	0 0 0	
0	9.809132727	0	5.731592795	0.015574873
	0.095827452	AC078993.1	X	16152941
16170869	-	1219	antisense	"novel transcript,

antisense to MAGEB17"	-	10	23	0	0	0
0	0.40172141	0.894026869	0	0	0	0
0						
ENSG00000237758	5.443505796	18.58489822	12.78740815	0		
1.141491828	0.862639045	12.27193739	0.668043624			
4.203056335	0.015589981	0.095887056	BANF1P3	2		
230725143	230725403	-	261			
processed_pseudogene	barrier to autointegration factor 1	pseudogene				
3 [Source:HGNC Symbol;Acc:HGNC:43883]	-	6	21	11		
0	1	1	1.125743444	3.812459407		
2.622159012	0	0.235508645	0.178151921			
ENSG00000107821	143.3456526	183.1939967	147.6364395			
74.58973163	115.2906746	62.97265031	158.0586963			
84.28435219	0.912231069	0.015614542	0.096004741			
KAZALD1	10	101061841	101068131	+	3613	
protein_coding	Kazal type serine peptidase inhibitor domain 1					
[Source:HGNC Symbol;Acc:HGNC:25460]	-	158	207	127		
72	101	73	2.14149867	2.714743642		
2.186968894	1.107328757	1.718307052	0.93947649			
ENSG00000155962	80.74533597	64.60464618	89.51185704			
208.2296675	92.46083808	161.3135015	78.28727973			
154.0013357	-0.979485655	0.015643276	0.096147989			CLIC2
X	155276211	155334657	-	2840		
protein_coding	chloride intracellular channel 2 [Source:HGNC					
Symbol;Acc:HGNC:2063]	-	89	73	77	201	81
187	1.53461822	1.21795421	1.686860744			
3.932690427	1.753129667	3.061641137				
ENSG00000162062	599.6928885	795.6106427	623.0955243			
494.1569721	413.2200418	521.0339833	672.7996852			
476.1369991	0.498352702	0.015705404	0.096496317			TEDC2
16	2460080	2464963	+	2854	protein_coding	
tubulin epsilon and delta complex 2 [Source:HGNC						
Symbol;Acc:HGNC:25849]	-	661	899	536	477	362
604	11.34164826	14.92561255	11.68470272			
9.287021563	7.796540908	9.840427998				
ENSG00000134668	551.6085873	674.3663067	580.0833333			
745.8973163	819.5911326	887.6555776	602.0194091			
817.7146755	-0.441756296	0.015717667	0.096508642			SPOCD1
1	31790422	31816051	-	7085		
protein_coding	SPOC domain containing 1 [Source:HGNC					
Symbol;Acc:HGNC:26338]	-	608	762	499	720	718
1029	4.202351816	5.096142432	4.38195121			
5.646829638	6.229195337	6.753152208				
ENSG00000186501	1207.551036	1708.925641	1325.240481			
1473.1472	2047.83634	2377.433209	1413.905719			
1966.138916	-0.475709946	0.015718322	0.096508642			
TMEM222	1	27322145	27336400	+	4476	
protein_coding	transmembrane protein 222 [Source:HGNC					
Symbol;Acc:HGNC:25363]	-	1331	1931	1140	1422	1794
2756	14.56185362	20.44177655	15.84607182			

17.65312361	24.63654036	28.62992125				
ENSG00000164062	2715.402141	2905.439088	2663.26837			
2263.591161	2350.331674	1970.267579	2761.369866			
2194.730138	0.3318766	0.015741206	0.096584369	APEH		
3	49674002	49683963	+ 4669			
protein_coding	acylaminoacyl-peptide hydrolase [Source:HGNC					
Symbol;Acc:HGNC:586]	-	2993 3283	2291 2185	2059		
2284	31.39146083	33.31758003	30.52868247			
26.00396729	27.10689871	22.7459062				
ENSG00000147082	17.23776835	29.20484005	16.2748831			
50.76245625	45.65967313	79.36279217	20.9058305			
58.59497385	-1.484418733	0.015741576	0.096584369	CCNB3		
X	50202713	50351910	+ 5408			
protein_coding	cyclin B3 [Source:HGNC Symbol;Acc:HGNC:18709]			-		
19	33 14	49 40	92	0.172046405		
	0.289137018	0.161063896	0.5034675	0.454643167		
	0.791010344					
ENSG00000116337	2853.304288	3242.622241	3501.424849			
3396.940695	4649.296216	4377.030516	3199.117126			
4141.089142	-0.372523997	0.015756707	0.096643687	AMPD2		
1	109616104	109632051	+ 6823			
protein_coding	adenosine monophosphate deaminase 2 [Source:HGNC					
Symbol;Acc:HGNC:469]	-	3145 3664	3012 3279	4073		
5074	22.57220376	25.44523901	27.46543254			
26.70410882	36.69326852	34.57849681				
ENSG00000148300	1075.999646	1428.382177	1109.017034			
1148.889061	1779.58576	2320.499032	1204.466286			
1749.657951	-0.538830702	0.015777734	0.096739003	REX04		
9	133406059	133418096	- 2654			
protein_coding	"REX4 homolog, 3'-5' exonuclease [Source:HGNC					
Symbol;Acc:HGNC:12820]"	-	1186 1614	954 1109	1559		
2690	21.88328185	28.81569195	22.36424817			
23.21895508	36.10709568	47.12836569				
ENSG00000106052	4502.686544	3576.265414	4069.883266			
3680.796062	2881.125374	2851.022045	4049.611741			
3137.647827	0.36813875	0.015783185	0.096739003			
TAX1BP1 7	27739331	27844564	+ 9165			
protein_coding	Tax1 binding protein 1 [Source:HGNC					
Symbol;Acc:HGNC:11575]	-	4963 4041	3501 3553	2524		
3305	26.5179831	20.89213493	23.76656887			
21.54144249	16.92794508	16.76756554				
ENSG00000167778	596.0638846	644.2764715	714.9323647			
753.1490958	860.6848384	1099.002144	651.7575736			
904.2786926	-0.473908299	0.015791697	0.09675765	SPRYD3		
12	53064316	53079420	- 3479			
protein_coding	SPRY domain containing 3 [Source:HGNC					
Symbol;Acc:HGNC:25920]	-	657 728	615 727	754		
1274	9.247825458	9.915243666	10.99834994			
11.61159891	13.32184196	17.027309				
ENSG00000268916	95.26135143	150.449176	77.88694054			

175.0786756	265.967596	161.3135015	107.8658227	
200.786591	-0.891214573	0.015798515	0.096765905	CSAG3
X	152753921	152760222	+ 1083	
protein_coding	CSAG family member 3 [Source:HGNC			
Symbol;Acc:HGNC:26237]	-	105 170	67 169	233
187	4.747768405	7.437841264	3.849046809	
8.67102207	13.22436491	8.028680361		
ENSG00000138468	413.7064405	315.9432697	413.8470274	
336.6897608	157.5258723	194.0937852	381.1655792	
229.4364728	0.731645441	0.015805333	0.096774156	SENP7
3	101324205	101513241	- 6396	
protein_coding	SUMO specific peptidase 7 [Source:HGNC			
Symbol;Acc:HGNC:30402]	-	456 357	356 325	138
225	3.49128314	2.644759598	3.462967291	
2.823494522	1.326227386	1.635705376		
ENSG00000105875	347.47712	311.5182939	340.6100534	
215.4814469	256.8356613	182.8794776	333.2018224	
218.398862	0.611397911	0.015851144	0.097021068	WDR91
7	135183839	135211534	- 6032	
protein_coding	WD repeat domain 91 [Source:HGNC			
Symbol;Acc:HGNC:24997]	-	383 352	293 208	225
212	3.109325042	2.765080449	3.022129945	
1.9160818	2.292812525	1.63420128		
ENSG00000156110	759.3690585	742.5109335	968.3555444	
716.8901985	555.9065203	438.220635	823.4118455	
570.3391179	0.52990656	0.015864755	0.097048439	ADK
10	74151185	74709303	+ 3184	
protein_coding	adenosine kinase [Source:HGNC Symbol;Acc:HGNC:257]			
-	837 839	833 692	487 508	
12.87303893	12.48577035	16.27716586	12.07661104	
9.401632311	7.418595151			
ENSG00000071054	7194.50016	6536.574201	7608.507849	
5946.459161	6009.954475	5355.263193	7113.19407	
5770.558943	0.301793336	0.015866589	0.097048439	MAP4K4
2	101696850	101894689	+ 11961	
protein_coding	mitogen-activated protein kinase kinase kinase kinase			
4 [Source:HGNC Symbol;Acc:HGNC:6866]	-	7930 7386	6545	
5740	5265 6208	32.46641835	29.25959118	
34.04466046	26.66591225	27.05691301	24.133218	
ENSG00000116017	160.583421	145.1392051	195.2985972	
72.51779464	39.95221399	129.3958568	167.0070744	
80.62195514	1.042858003	0.015915099	0.097311507	ARID3A
19	925781 975934	+ 7210	protein_coding AT-	
rich interaction domain 3A [Source:HGNC Symbol;Acc:HGNC:3031]			ARID	
177	164 168	70 35	150 1.202172212	
1.07779217	1.449709095	0.539479342	0.298387166	
0.967357521				
ENSG00000155760	520.7620545	345.1481097	399.8971276	
284.8913361	236.2888084	311.4126953	421.9357639	
277.5309466	0.603216087	0.015925157	0.097339357	FZD7

2	202034587	202038445	+	3859		
protein_coding	frizzled class receptor 7 [Source:HGNC					
Symbol;Acc:HGNC:4045]	-	574 390	344	275	207	
361	7.283930568	4.788684991	5.546135944			
3.959769981	3.297182052	4.349741433				
ENSG00000152778	412.7991895	438.0726008	391.759686			
482.7613186	772.7899677	558.1274623	414.2104921			
604.5595829	-0.544118415	0.015935457	0.097348049		IFIT5	
10	89414586	89421001	+	4015		
protein_coding	interferon induced protein with tetratricopeptide					
repeats 5 [Source:HGNC	Symbol;Acc:HGNC:13328]	-	455	495		
337	466 677	647	5.549508624	5.841792007		
5.222172313	6.449297496	10.36455068	7.492896767			
ENSG00000106133	13.60876449	7.079961225	3.48747495	0		
0	0	8.058733555	0	5.446706705		
0.015937585	0.097348049	NSUN5P2 7	72947581			
72954790	-	2576	transcribed_unprocessed_pseudogene			
	NOP2/Sun RNA methyltransferase family member 5 pseudogene 2					
[Source:HGNC	Symbol;Acc:HGNC:16609]	-	15	8	3	
0	0	0	0.285150465	0.147153491		
0.072457316	0	0	0			
ENSG00000119844	580.6406182	557.5469465	478.9465598			
666.1277422	776.2144432	769.4740284	539.0447081			
737.2720713	-0.450830439	0.015949192	0.097385315		AFTPH	
2	64524305	64593005	+	5767		
protein_coding	aftiphilin [Source:HGNC	Symbol;Acc:HGNC:25951]	-			
640	630 412	643 680	892	5.434488901		
5.176271398	4.444819314	6.195452978	7.247802017			
7.191937773						
ENSG00000067836	117.0353746	146.0242003	97.64929859			
72.51779464	62.78205055	44.85723035	120.2362912			
60.05235852	1.006345175	0.015998749	0.097654198		ROGDI	
16	4796968	4802950 -	3683	protein_coding	rogdi	
homolog [Source:HGNC	Symbol;Acc:HGNC:29478]	-	129	165		
84	70 55	52	1.715207531	2.122797982		
1.419006595	1.056108079	0.917927394	0.656496844			
ENSG00000100985	185.986448	469.0474312	699.8199732			
33.15099184	211.1759882	62.97265031	451.6179508			
102.4332101	2.141616311	0.01600998	0.097689046		MMP9	
20	46008908	46016561	+	2336		
protein_coding	matrix metalloproteinase 9 [Source:HGNC					
Symbol;Acc:HGNC:7176]	-	205 530	602	32	185	
73	4.297438855	10.75052001	16.03357987			
0.761183181	4.867951584	1.453051609				
ENSG00000159259	1143.136217	1145.183728	1289.20324			
1052.543991	819.5911326	805.7048683	1192.507728			
892.6133306	0.41769597	0.016029837	0.097776476		CHAF1B	
21	36385378	36419015	+	5118		
protein_coding	chromatin assembly factor 1 subunit B [Source:HGNC					
Symbol;Acc:HGNC:1911]	-	1260 1294	1109	1016	718	

934	12.05588085	11.98009979	13.48149675	
11.03076087	8.623260837	8.485503419		
ENSG00000076928	3988.275246	5048.897349	4216.357214	
4922.922288	6159.489905	5788.307994	4417.84327	
5623.573395	-0.348009978	0.016064084	0.097951597	
ARHGEF1	19	41883161	41930150	+ 8636
protein_coding	Rho guanine nucleotide exchange factor 1 [Source:HGNC			
Symbol;Acc:HGNC:681]	-	4396	5705	3627 4752 5396
6710	24.92721351	31.30181036	26.13014192	
30.57566011	38.40667121	36.12774914		
ENSG00000173875	528.9273132	523.0321355	513.8213093	
852.6020713	538.7841429	853.1500158	521.9269193	
748.1787433	-0.520459701	0.016125998	0.098295238	ZNF791
19	12610918	12633840	+ 6642	
protein_coding	zinc finger protein 791 [Source:HGNC			
Symbol;Acc:HGNC:26895]	zf-C2H2	583	591	442 823 472
989	4.298316263	4.216140261	4.140285072	
6.88514368	4.368079033	6.923543712		
ENSG00000118939	106.148363	91.15450077	148.7989312	
36.25889732	62.78205055	65.56056744	115.367265	
54.86717177	1.068686145	0.016168232	0.098512281	UCHL3
13	75549480	75606020	+ 1905	
protein_coding	ubiquitin C-terminal hydrolase L3 [Source:HGNC			
Symbol;Acc:HGNC:12515]	-	117	103	128 35 55
76	3.007596462	2.561938414	4.180438476	
1.020904476	1.774659628	1.855024417		
ENSG00000100028	2299.881199	2749.679941	2694.655644	
2176.569808	1949.668043	1996.146751	2581.405595	
2040.794867	0.338884191	0.016172744	0.098512281	SNRPD3
22	24555503	24609980	+ 2544	
protein_coding	small nuclear ribonucleoprotein D3 polypeptide			
[Source:HGNC	Symbol;Acc:HGNC:11160]	-	2535	3107 2318
2101	1708	2314	48.79659747	57.86961421
56.6895711	45.89030975	41.26844639	42.29385439	
ENSG00000074964	610.5799001	399.1328141	626.5829993	
365.6968787	337.8815811	401.1271561	545.4319045	
368.2352053	0.565002391	0.016187636	0.09856905	
ARHGEF10L	1	17539835	17697874	+ 7817
protein_coding	Rho guanine nucleotide exchange factor 10 like			
[Source:HGNC	Symbol;Acc:HGNC:25540]	-	673	451 539
353	296	465	4.21602945	2.733775649
4.289982295	2.509265625	2.327549679	2.765947032	
ENSG00000152926	406.4484328	291.1634054	201.1110554	
480.6893816	461.1626986	461.5118892	299.5742979	
467.7879898	-0.640361108	0.016198194	0.098599399	ZNF117
7	64971776	65006684	- 10691	
protein_coding	zinc finger protein 117 [Source:HGNC			
Symbol;Acc:HGNC:12897]	zf-C2H2	448	329	173 464 404
535	2.052052029	1.458156067	1.006780094	
2.411635647	2.322792397	2.32683973		

ENSG00000229915	0.907250966	3.539980612	2.3249833		
13.46759043	33.10326302	8.626390453	2.257404959		
18.3990813	-3.02104752	0.016204108	0.09860147		
AC016999.1	2	238427077	238427729	-	452
antisense		novel transcript		-	1
2	13	29	10	0.108340354	0.419322337
	0.275295053	1.598147873	3.943727722		1.028709104
ENSG00000178425	753.0183018	633.6565296	704.4699398		
617.437223	463.4456822	320.9017248	697.0482571		
467.2615433	0.578265601	0.01624087	0.098744084		NT5DC1
6	116100849	116249497	+	7309	
protein_coding	5'-nucleotidase domain containing 1 [Source:HGNC				
Symbol;Acc:HGNC:21556]	-	830	716	606	596
372	5.560947744	4.641747383	5.158477123		406
4.531065513	3.41440813	2.366551698			
ENSG00000253683	66.22932052	113.2793796	94.16182364		
44.54664528	20.54685291	50.03306463	91.22350792		
38.37552094	1.242830747	0.016241953	0.098744084		
AC027309.2	5	172656522	172656713	-	192
processed_pseudogene		coiled-coil domain containing 72			
(CCDC72) pseudogene	-	73	128	81	43
58	18.61874119	31.58894937	26.24766272		18
12.44455211	5.762602146	14.04616556			
ENSG00000122550	698.5832438	608.8766653	657.9702738		
818.415111	986.2489395	835.0345958	655.1433943		
879.8995488	-0.425088161	0.016244292	0.098744084		KLHL7
7	23105758	23177914	+	7066	
protein_coding	kelch like family member 7 [Source:HGNC				
Symbol;Acc:HGNC:15646]	-	770	688	566	790
968	5.336368054	4.61361389	4.983674217		864
6.212487127	7.516012082	6.369901875			
ENSG00000179277	48.99155216	15.92991276	29.06229125		
4.14387398	11.41491828	0	31.32791872	5.186264087	
	2.625287821	0.016284158	0.098924263	MEIS3P1	17
	15786618	15787575	+	958	
processed_pseudogene	Meis homeobox 3 pseudogene 1 [Source:HGNC				
Symbol;Acc:HGNC:7002]	-	54	18	25	4
0	2.760304124	0.89029398	1.623608612		10
0.232009905	0.641625848	0			
ENSG00000267152	47.17705023	32.74482067	24.41232465		
61.1221412	106.15874	81.08807026	34.77806518		
82.78965049	-1.245210638	0.016285118	0.098924263		
AC093227.1	19	37728586	37730643	-	1360
lincRNA	novel transcript			-	52
59	93	94	1.872376229	1.28910786	37
0.960698766	2.410599971	4.2033098	3.213808265		21
ENSG00000139679	22.68127415	42.47976735	8.137441549		
87.02135357	67.34801786	58.65945508	24.43282768		
71.00960884	-1.526770038	0.016301564	0.098932971		LPAR6
13	48389567	48444704	-	4348	

protein_coding	lysophosphatidic acid receptor 6	[Source:HGNC				
Symbol;Acc:HGNC:15520]	-	25	48	7	84	59
68	0.281565316	0.523092078	0.100164851			
1.073499371	0.834084089	0.727194182				
ENSG00000165689	1530.53238	1821.320025	1312.453073			
1727.995449	2132.306735	2386.059599	1554.768492			
2082.120595	-0.420987608	0.016302605	0.098932971			ENTR1
9	136401922	136410609	-	3133		
protein_coding	endosome associated trafficking regulator 1	[Source:HGNC				
Symbol;Acc:HGNC:10667]	-	1687	2058			1129
1668	1868	2766	26.36837529	31.12514737		
22.42024704	29.58337339	36.64914415	41.05091096			
ENSG00000265972	1242.026572	1845.214894	2324.9833			
2065.721179	5068.223717	4357.189818	1804.074922			
3830.378238	-1.086351942	0.016306909	0.098932971			TXNIP
1	145992435	145996600	-	3625		
protein_coding	thioredoxin interacting protein	[Source:HGNC				
Symbol;Acc:HGNC:16952]	-	1369	2085	2000	1994	4440
5051	18.4937133	27.25363839	34.32644524			
30.56533687	75.28740348	64.78886558				
ENSG00000223842	5.443505796	8.849951531	9.299933199			0
0	0	7.864463509	0	5.40745202		
0.016308923	0.098932971	AL360093.1	1	219222248		
219225497	-	1126	lincRNA	novel transcript		
-	6	10	8	0	0	
0.260940532	0.420811937	0.442036817	0	0		0
ENSG00000148218	605.1363943	600.0267138	666.1077154			
479.6534131	495.4074534	267.418104	623.7569412			
414.1596569	0.592637675	0.01633039	0.099021632			ALAD
9	113386317	113401333	-	4983		
protein_coding	aminolevulinate dehydratase	[Source:HGNC				
Symbol;Acc:HGNC:395]	-	667	678	573	463	434
310	6.554863168	6.447112484	7.15435657			
5.163000267	5.353603492	2.892689537				
ENSG00000176402	9.07250966	10.61994184	8.137441549			
23.82727538	35.38624667	44.85723035	9.276631015			
34.6902508	-1.900918433	0.016334735	0.099021632			GJC3
7	99923269	99929620	-	1116		
protein_coding	gap junction protein gamma 3	[Source:HGNC				
Symbol;Acc:HGNC:17495]	-	10	12	7	23	31
52	0.438797848	0.509499183	0.390248005			
1.14518509	1.707437673	2.166557238				
ENSG00000264895	9.979760626	4.424975766	9.299933199			0
0	0	7.90155653	0	5.413997147		
0.016363951	0.099127001	AC006141.1	17	51249579		
51251748	-	2170	sense_intronic	"novel		
transcript, sense intronic to MBTD1"	-	11	5			8
0	0	0	0.248234211	0.109178396		
0.229370256	0	0	0			
ENSG00000135926	2181.938573	2631.09059	3086.41533			



3365.86164	3607.114177	3221.956834	2633.148165	
3398.310884	-0.368371009	0.016367038	0.099127001	TMBIM1
2	218274192	218292586	- 5098	
protein_coding	transmembrane BAX inhibitor motif containing 1			
[Source:HGNC Symbol;Acc:HGNC:23410]	-	2405	2973	2655
3249	3160 3735	23.10169965	27.63258527	
32.40197935	35.41293513	38.10084536	34.06605107	
ENSG00000083812	377.4164018	473.4724069	362.6973948	
533.5237749	522.8032573	690.1112362	404.5287345	
582.1460895	-0.525154857	0.016368928	0.099127001	ZNF324
19	58467045	58475436	+ 5664	
protein_coding	zinc finger protein 324 [Source:HGNC			
Symbol;Acc:HGNC:14096]	zf-C2H2	416 535	312 515	458
800	3.596654903	4.475658875	3.42719011	
5.052380241	4.970380005	6.567464901		
ENSG00000148341	774.7923249	771.7157735	813.7441549	
634.0127189	624.39603	392.5007656	786.7507511	
550.3031715	0.517174424	0.016383986	0.099142038	
SH3GLB2 9	129007036	129028303	- 6814	
protein_coding	"SH3 domain containing GRB2 like, endophilin B2			
[Source:HGNC Symbol;Acc:HGNC:10834]"	-	854	872	700
612	547 455	6.137399944	6.063743143	
6.391499472	4.990698531	4.934379608	3.104847583	
ENSG00000139496	3536.464265	3600.160283	3235.214262	
4344.851868	4507.751229	3971.590164	3457.279603	
4274.731087	-0.305817523	0.016389918	0.099142038	NUP58
13	25301524	25349800	+ 10422	
protein_coding	nucleoporin 58 [Source:HGNC Symbol;Acc:HGNC:20261]			
-	3898 4068	2783 4194	3949 4604	
18.31552827	18.49508435	16.61380023	22.36090626	
23.29074739	20.54070116			
ENSG00000221829	710.3775064	607.9916702	613.7955911	
472.4016337	509.1053554	415.7920198	644.0549226	
465.7663363	0.468927723	0.016391477	0.099142038	FANCG
9	35073835	35080016	- 3614	
protein_coding	FA complementation group G [Source:HGNC			
Symbol;Acc:HGNC:3588]	-	783 687	528 456	446
482	10.6096803	9.007308336	9.089764277	
7.011141595	7.585672184	6.201402331		
ENSG00000137054	1493.33509	1771.760297	1476.364395	
1913.43381	1939.394616	2244.586796	1580.486594	
2032.471741	-0.362839653	0.01639383	0.099142038	POLR1E
9	37485935	37503697	+ 2512	
protein_coding	RNA polymerase I subunit E [Source:HGNC			
Symbol;Acc:HGNC:17631]	-	1646 2002	1270 1847	1699
2602	32.08772148	37.76338175	31.45509003	
40.85632542	41.57393225	48.16357054		
ENSG00000114982	1435.271028	1404.487308	1435.677188	
1642.010064	1797.849629	2019.438005	1425.145175	
1819.7659	-0.353038048	0.016400611	0.099149145	KANSL3

2	96593170	96642787	-	9015	
protein_coding	KAT8 regulatory	NSL complex subunit 3	[Source:HGNC		
Symbol;Acc:HGNC:25473]	-	1582 1587	1235 1585	1575	
2341	8.593487145	8.341374817	8.523305854		
9.769572927	10.73895907	12.07443174			
ENSG0000075790	1887.98926	1514.226707	1789.074649		
1609.895041	1168.887632	1010.150322	1730.430205		
1262.977665	0.454574116	0.016411898	0.099169804	BCAP29	
7	107579977	107629170	+	8409	
protein_coding	B cell receptor	associated protein 29	[Source:HGNC		
Symbol;Acc:HGNC:24131]	-	2081 1711	1539 1554	1024	
1171	12.11871051	9.641222328	11.38678483		
10.2687766	7.485192338	6.475056476			
ENSG0000099341	4616.092915	5813.533161	5961.257181		
6081.135065	7533.846066	7267.733956	5463.627752		
6960.905029	-0.34953649	0.01641524	0.099169804	PSMD8	
19	38374536	38383824	+	3105	
protein_coding	"proteasome 26S	subunit, non-ATPase 8	[Source:HGNC		
Symbol;Acc:HGNC:9566]"	-	5088 6569	5128 5870	6600	
8425	80.24429793	100.2453181	102.7527038		
105.0481819	130.6561002	126.1651252			
ENSG0000161036	1045.153113	1292.977919	1033.455077		
1099.162573	1813.830515	1821.031025	1123.862036		
1578.008038	-0.489413933	0.016464568	0.099433848	LRWD1	
7	102464929	102473168	+	5926	
protein_coding	leucine rich repeats and WD	repeat domain containing 1	[Source:HGNC		
Symbol;Acc:HGNC:21769]	-	1152 1461	889		
1061	1589 2111	9.519617868	11.68194103		
9.333552194	9.948687294	16.48198863	16.56370947		
ENSG0000144597	777.5140778	889.4201289	783.519372		
1023.536873	997.6638578	1235.299113	816.8178596		
1085.499948	-0.410617936	0.016483025	0.09951134	EAF1	
3	15427355	15450635	+	5152	
protein_coding	ELL associated factor 1	[Source:HGNC			
Symbol;Acc:HGNC:20907]	-	857 1005	674 988	874	
1432	8.145798279	9.243078644	8.139371831		
10.65597355	10.42756579	12.92403667			
ENSG0000167962	1574.987677	1979.734158	1524.026553		
1804.657118	2377.727478	2624.147976	1692.916129		
2268.844191	-0.422288307	0.016491043	0.099525778	ZNF598	
16	1997654 2009823	- 4701	protein_coding	zinc	
finger protein 598	[Source:HGNC		Symbol;Acc:HGNC:28079]	-	
2237	1311 1742	2083 3042	18.08373579		
22.54769615	17.35079134	20.59064462	27.23619149		
30.08846115					
ENSG0000245694	421.8716992	529.2271016	440.5843353		
270.3877772	237.4303003	401.1271561	463.8943787		
302.9817445	0.612286958	0.016514667	0.099634359	CRNDE	
16	54845189	54929189	-	5846	
lincRNA	colorectal neoplasia differentially expressed [Source:HGNC				

Symbol;Acc:HGNC:37078]	-	465	598	379	261	208
		465	3.89513779	4.846953059	4.033548149	
2.480811349	2.187015616	3.698496057				
ENSG00000261122	16.33051739	0.884995153	0	39.36680281		
	57.07459141	16.39014186	5.73850418	37.61051203		
	-2.690647807	0.016526315	0.099670637	LINC02167		
	16	35743268	35756515	+	1989	
lincRNA long intergenic non-protein coding RNA 2167	[Source:HGNC					
Symbol;Acc:HGNC:53028]	-	18	1	0	38	50
	19	0.443165971	0.023822737	0	1.061599871	
	1.545192464	0.444170628				
ENSG00000076356	714.0065102	710.651108	626.5829993			
556.3150818	328.7496465	520.1713443	683.7468725			
468.4120242	0.544728964	0.016533279	0.099678654	PLXNA2		
	1	208022242	208244320	-	13781	
protein_coding plexin A2	[Source:HGNC					
Symbol;Acc:HGNC:9100]	-					
	787	803	539	537	288	603
	2.760967239	2.433407706	2.165237782	1.284573964		
	2.034546394					
ENSG00000107372	2868.727554	2880.659223	3114.31513			
3559.587748	3679.028162	3645.512605	2954.567303			
3628.042839	-0.296447896	0.01654148	0.09969412	ZFAND5		
	9	72351425	72365235	-	7053	
protein_coding zinc finger AN1-type containing 5	[Source:HGNC					
Symbol;Acc:HGNC:13008]	-	3162	3255	2679	3436	3223
	4226	21.95415193	21.86772229	23.63228287		
27.07019068	28.08883855	27.86035378				
ENSG00000172260	74.39457921	64.60464618	77.88694054			
46.61858227	15.98088559	19.84069804	72.29538864			
27.4800553	1.395287934	0.01658661	0.099932068	NEGR1		
	1	71395940	72282734	-	13406	
protein_coding neuronal growth regulator 1	[Source:HGNC					
Symbol;Acc:HGNC:17302]	-	82	73	67	45	14
	23	0.299532065	0.258018048	0.310944181		
0.186519972	0.064191301	0.079773682				
ENSG00000177119	2017.726148	1570.866397	2252.908817			
1671.017182	1461.10954	1180.090214	1947.167121			
1437.405645	0.437907803	0.016599861	0.099977846	AN06		
	12	45215987	45440404	+	8235	
protein_coding anoctamin 6	[Source:HGNC					
Symbol;Acc:HGNC:25240]	-					
	2224	1775	1938	1613	1280	1368
	10.21318491	14.64188582	10.88385651	9.554186759		
	7.724200031					
ENSG00000160401	36.29003864	53.09970919	40.68720775			
80.8055426	93.60232991	103.5166854	43.35898519			
92.64151932	-1.094565567	0.016614867	0.10000958			
CFAP157 9	127706989	127716002	+	4703		
protein_coding cilia and flagella associated protein 157	[Source:HGNC					
Symbol;Acc:HGNC:27843]	-	40	60	35	78	82
	120	0.416498744	0.604508918	0.463020172		

0.921577085	1.071732088	1.186416794			
ENSG00000244723	3.629003864	15.92991276	4.6499666		0
0	0	8.06962774	0	5.448344664	
0.016616437	0.10000958	ASLP1	22	23649213	
23653334	-	637	unprocessed_pseudogene		
argininosuccinate lyase pseudogene 1 [Source:HGNC					
Symbol;Acc:HGNC:747]	-	4	18	4	0
0	0.307502919	1.33893506	0.390685601		0
0	0				
ENSG00000149357	2122.060009	2624.895624	2395.89529		
2496.684073	3185.903692	3758.51832	2380.950308		
3147.035362	-0.402693019	0.016625315	0.10002898		
LAMTOR1 11	72085895	72103387	-	2778	
protein_coding	"late endosomal/lysosomal adaptor, MAPK and MTOR				
activator 1 [Source:HGNC Symbol;Acc:HGNC:26068]"				-	2339
2966	2061	2410	2791	4357	41.23126543
50.59007766	46.15859669	48.20552808	61.75540231		
72.9266622					
ENSG00000260300	0	0.884995153	0	4.14387398	0
	33.64292277	0.294998384	12.59559892	-5.175111346	
	0.016649503	0.100134838	AC009119.2	16	
83908132	83951445	+	3055	protein_coding	novel
protein -	0	1	0	4	0
	0.015510122	0	0.072754661	0	0.59358704
ENSG00000175182	58.97131279	59.29467526	86.02438209		
14.50355893	41.09370581	20.70333709	68.09679005		
25.43353394	1.425661901	0.016654231	0.100134838		
FAM131A 3	184335926	184348421	+	8925	
protein_coding	family with sequence similarity 131 member A				
[Source:HGNC Symbol;Acc:HGNC:28308]				-	65
14	36	24	0.356643091	0.355707497	74
0.515858204	0.087162937	0.247937168	0.125035702		
ENSG00000159792	878.2189351	1202.708413	1032.292585		
1113.666132	1467.958491	1720.102256	1037.739978		
1433.90896	-0.46682202	0.016664286	0.100161252		PSKH1
16	67893272	67929678	+	3977	
protein_coding	protein serine kinase H1 [Source:HGNC				
Symbol;Acc:HGNC:9529]	-	968	1359	888	1075
1994	11.91923685	16.19162014	13.8919823		1286
15.01982653	19.87617161	23.31312977			
ENSG00000145041	1407.146248	1495.641809	1162.49165		
1965.232235	1665.436577	1675.245026	1355.093236		
1768.637946	-0.383467493	0.016694365	0.100306804		DCAF1
3	51395867	51500002	-	6849	
protein_coding	DDB1 and CUL4 associated factor 1 [Source:HGNC				
Symbol;Acc:HGNC:30911]	-	1551	1690	1000	1897
1942	11.08953447	11.69192388	9.084053439		1459
15.39048154	13.09409495	13.1841786			
ENSG00000144227	71.67282631	39.82478189	63.93704074		
31.07905485	11.41491828	18.11541995	58.47821632		

20.20313103	1.530381545	0.016703383	0.100306804	NXP	2
	138670772	138780348	-	1052	
protein_coding	neurexophilin 2	[Source:HGNC	Symbol;Acc:HGNC:8076]		
-	79	45	55	30	10
					21
3.677392915	2.026857493	3.252773299	1.584592363		
0.584294261	0.928185058				
ENSG0000066583	568.8463557	440.7275863	602.1706746		
735.5376314	760.2335576	724.616798	537.2482055		
740.129329	-0.463172322	0.016705514	0.100306804	ISOC1	
5	129094751	129114028	+	1940	
protein_coding	isochorismatase	domain containing 1	[Source:HGNC		
Symbol;Acc:HGNC:24254]	-	627	498	518	710
					666
840	15.8268503	12.1633738	16.6124955		
20.33614653	21.10181734	20.13300374			
ENSG00000213693	58.97131279	66.37463648	26.73730795		
141.9276838	136.9790194	68.14848458	50.69441907		
115.6850626	-1.181504066	0.016716988	0.100341636		
SEC14L1P1	11	43897456	43899636	+	2181
processed_pseudogene		SEC14 like 1	pseudogene 1	[Source:HGNC	
Symbol;Acc:HGNC:44189]	-	65	75	23	137
					120
79	1.459440435	1.629416233	0.656113565		
3.490414026	3.38199484	1.684234052			
ENSG00000228430	1.814501932	0	0	0	11.41491828
	36.2308399	0.604833977	15.88191939	-4.671057871	
	0.016723029	0.100343846	AL162726.3	9	
81977614	82780194	+	4429		
transcribed_unprocessed_pseudogene			serine palmitoyltransferase		
long chain base subunit 1 (SPTLC1)		pseudogene	-	2	0
0	0	10	42	0.022113272	0
0	0.138784728	0.440935056			
ENSG00000101188	176.9139384	192.0439482	189.4861389		
393.6680281	289.9389244	219.9729565	186.1480085		
301.193303	-0.693242129	0.016758884	0.100524889	NTSR1	
20	62708837	62762771	+	4237	
protein_coding	neurotensin receptor 1	[Source:HGNC			
Symbol;Acc:HGNC:8039]	-	195	217	163	380
					254
255	2.253745284	2.426764933	2.393514082		
4.983531139	3.68487375	2.79841896			
ENSG00000253730	2.721752898	3.539980612	0	27.97114936	
	21.68834474	6.901112362	2.087244503	18.85353549	
	-3.131586006	0.016786553	0.100645675	AC015909.2	
17	50158333	50161276	-	547	
antisense	novel transcript		-	3	4
					0
27	19	8	0.268573162	0.346496702	0
	2.742764259	2.135077456	0.680038779		
ENSG00000268592	63.50756762	91.15450077	46.499666		
13.46759043	10.27342645	42.26931322	67.05391146		
22.00344337	1.595677073	0.016793915	0.100645675		
RAET1E-AS1	6	149863494	149919507	+	1210
antisense		RAET1E antisense RNA 1	[Source:NCBI		

gene;Acc:100652739]	-	70	103	40	13	9
49	2.832965941	4.033465023	2.056749818			
0.596994082	0.457198187	1.882962747				
ENSG00000088280	176.0066874	65.48964133	127.8740815			
66.30198367	63.92354238	37.09347895	123.1234701			
55.77300167	1.14572686	0.016797754	0.100645675			ASAP3
1	23428563	23484568	-	4988		
protein_coding	"ArfGAP with SH3 domain, ankyrin repeat and PH domain					
3 [Source:HGNC Symbol;Acc:HGNC:14987]"	-	194	74	110		
64	56	43	1.904600827	0.702961784		
1.372059948	0.71296067	0.690095098	0.400841823			
ENSG00000140575	8081.791605	6133.901406	8832.611556			
7078.772726	5524.820448	4640.998064	7682.768189			
5748.197079	0.418506376	0.01680178	0.100645675			IQGAP1
15	90388218	90502243	+	11535		
protein_coding	IQ motif containing GTPase activating protein 1					
[Source:HGNC Symbol;Acc:HGNC:6110]	-	8908	6931	7598		
6833	4840	5380	37.81736742	28.47113239		
40.98156479	32.91590995	25.79141223	21.68681102			
ENSG00000154589	227.7199925	274.3484975	166.2363059			
405.0636815	293.3633998	356.2699257	222.7682653			
351.565669	-0.656037297	0.016854145	0.100897854			LY96
8	73991352	74029087	+	607		
protein_coding	lymphocyte antigen 96 [Source:HGNC					
Symbol;Acc:HGNC:17156]	-	251	310	143	391	257
413	20.24947248	24.19911278	14.65730729			
35.79316562	26.02506318	31.63678759				
ENSG00000257557	9.979760626	8.849951531	4.6499666	0		
0	0	7.826559586	0	5.403829271		
0.016855286	0.100897854	PPP1R12A-AS1	12	79934901		
79942712	+	3234	bidirectional_promoter_lncRNA			
PPP1R12A	antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:51903]					
-	11	10	4	0	0	0
0.166564081	0.146516463	0.076953224	0	0	0	
ENSG00000136930	2889.594327	3756.804425	3567.686874			
3927.356564	4361.640275	4717.772939	3404.695208			
4335.589926	-0.348899638	0.016866983	0.100933714			PSMB7
9	124353466	124415444	-	1787		
protein_coding	proteasome subunit beta 7 [Source:HGNC					
Symbol;Acc:HGNC:9544]	-	3185	4245	3069	3791	3821
5469	87.27976489	112.5588333	106.8511455			
117.8803117	131.4316153	142.3031092				
ENSG00000185359	3628.096613	4267.446628	4210.544756			
4276.477947	5448.340496	5740.862846	4035.362666			
5155.227096	-0.353492828	0.01689329	0.101030681			HGS
17	81683326	81703138	+	8254		
protein_coding	hepatocyte growth factor-regulated tyrosine kinase					
substrate [Source:HGNC Symbol;Acc:HGNC:4897]	-	3999	4822			
3622	4128	4773	6655	23.72551363	27.68147211	
27.30177153	27.78991815	35.54465719	37.48992861			

ENSG00000110917	4662.362714	4158.592225	4202.407314		
3847.58699	3374.249844	3239.209615	4341.120751		
3487.015483	0.316235542	0.01689461	0.101030681	MLEC	
12	120686869	120701864	+	6723	
protein_coding	malectin [Source:HGNC Symbol;Acc:HGNC:28973]			-	
5139	4699	3615	3714	2956	3755
	33.11835633	33.45430692	30.69663935	27.02642978	
	25.97035273				
ENSG00000140943	3537.371516	3282.447023	3622.323981		
2976.337486	2821.767799	2636.224922	3480.714173		
2811.443402	0.308097454	0.016914068	0.101112859	MBTPS1	
16	84053761	84116906	-	10238	
protein_coding	"membrane bound transcription factor peptidase, site 1 [Source:HGNC Symbol;Acc:HGNC:15456]"			-	
2873	2472	3056	18.64948286	17.16596208	
18.93604035	15.59310289	14.84159927	13.87935368		
ENSG00000239713	2.721752898	5.309970919	16.2748831	0	
0	0	8.102202305	0	5.445788398	
0.016955959	0.101329041	APOBEC3G	22	39077005	
39087743	+	5437	protein_coding	apolipoprotein	
B mRNA editing enzyme catalytic subunit 3G [Source:HGNC Symbol;Acc:HGNC:17357]	-	3	6	14	0
0	0.027020327	0.052289966	0.160204809	0	
0	0				
ENSG00000276527	8.165258694	10.61994184	4.6499666	0	
0	0	7.811722377	0	5.401196892	
0.01702792	0.101724713	AL356515.1	13	44684487	
44715393	-	415	lincRNA	novel transcript	
-	9	12	4	0	0
1.061996526	1.370123105	0.599678863	0	0	0
ENSG00000143727	1255.635337	1511.571722	1421.727288		
1126.097754	983.9659559	1115.392286	1396.311449		
1075.151998	0.376645291	0.017039737	0.101759472	ACP1	
2	264140	278283	+	4160	protein_coding
phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:122]	-			1384	1708
1223	1087	862	1293	16.29188902	19.45454045
	18.29110627	14.5193862	12.73682833	14.45227485	
ENSG00000266338	736.6877844	707.9961225	585.8957915		
731.3937574	1144.916304	974.7821212	676.8598995		
950.3640607	-0.488515453	0.017045244	0.101759472	NBPF15	
1	144421386	144461674	-	5306	
protein_coding	NBPF member 15 [Source:HGNC Symbol;Acc:HGNC:28791]				
-	812	800	504	706	1003
7.494065199	7.144127261	5.90976399	7.393490157		
11.61932897	9.902439916				
ENSG00000213401	1981.43611	2201.867941	1786.749666		
2070.901021	3069.471526	2763.895501	1990.017906		
2634.756016	-0.404480141	0.01709443	0.101992064		
MAGEA12 X	152733779	152737669	+	1943	
protein_coding	MAGE family member A12 [Source:HGNC				

Symbol;Acc:HGNC:6799]	-	2184	2488	1537	1999	2689
3204	55.04381379	60.67419406		49.21618129		
57.16787341	85.06783143	76.67445981				
ENSG00000136738	730.3370276	624.8065781		698.6574816		
930.2997084	937.1647909	854.0126548		684.6003624		
907.1590514	-0.405982861	0.017095736		0.101992064		STAM
10	17644125	17715914		+	3246	
protein_coding	signal transducing adaptor molecule					
[Source:HGNC						
Symbol;Acc:HGNC:11357]	-	805	706	601	898	821
990	12.14439959	10.30582174		11.51947809		
15.37233587	15.54683545	14.18135397				
ENSG00000105662	612.394402	783.2207105		769.5694722		
839.1344809	979.3999886	1146.447291		721.7281949		
988.3272535	-0.454449405	0.017110873		0.102021967		CRTC1
19	18683677	18782333		+	6965	
protein_coding	CREB regulated transcription coactivator 1					
[Source:HGNC						
Symbol;Acc:HGNC:16062]	-			675	885	662
810	858	1329	4.745820802	6.020722224		
5.913487938	6.462133738	7.572050946		8.872272626		
ENSG00000256292	6.350756762	2.654985459		15.11239145		0
0	0	8.03937789	0	5.435057481		
0.017112283	0.102021967	LINC02376		12	127274467	
127284283	-	724	lincRNA long intergenic non-			
protein coding	RNA 2376					
[Source:HGNC						
Symbol;Acc:HGNC:53298]	-					
7	3	13	0	0	0	0.473465302
0.196340155	1.117150367	0	0	0	0	
ENSG00000237149	41.73354444	68.14462679		79.04943219		
138.8197783	108.4417237	126.8079397		62.97586781		
124.6898139	-0.98974482	0.017128478		0.10203947		
ZNF503-AS2	10	75401519	75408982	+		3348
antisense	ZNF503 antisense RNA 2					
[Source:HGNC						
Symbol;Acc:HGNC:23525]	-	46	77	68	134	95
147	0.672823367	1.089762142		1.263660208		
2.223982639	1.744156763	2.041563552				
ENSG00000178623	1.814501932	2.654985459		3.48747495		
1.035968495	7.990442797	62.97265031		2.65232078		
23.9996872	-3.193731613	0.017128719		0.10203947		GPR35
2	240605431	240631259		+	5089	
protein_coding	G protein-coupled receptor 35					
[Source:HGNC						
Symbol;Acc:HGNC:4492]	-	2	3	3	1	7
73	0.019245368	0.02793285		0.036677156		
0.010918918	0.084549871	0.666993232				
ENSG00000180739	8.165258694	9.734946684		34.8747495		
4.14387398	0	17.59165162		1.381291327		
3.679548237	0.017137248	0.10203947		S1PR5	19	
10512742	10517931	-	2806	protein_coding		
sphingosine-1-phosphate receptor 5						
[Source:HGNC						
Symbol;Acc:HGNC:14299]	-	9	11	30	4	0
0	0.157066486	0.185751128		0.665181917		
0.079210794	0	0				



ENSG00000126368	304.8363246	263.7285556	337.1225785			
258.9921237	731.6962619	529.6603738	301.8958196			
506.7829198	-0.747517422	0.017138293	0.10203947			NR1D1
17	40092787	40100725	-		2772	
protein_coding	nuclear receptor subfamily 1 group D member 1					
[Source:HGNC Symbol;Acc:HGNC:7962]		THR-like	336		298	
290	250	641	614	5.935738161	5.093889022	
6.508960239	5.011397204	14.21386426	10.29926336			
ENSG00000185361	413.7064405	385.8578868	567.2959251			
249.6684073	357.2869422	297.6104706	455.6200841			
301.52194	0.594756824	0.017150974	0.102063481			
TNFAIP8L1	19	4639518	4655568 +	6667	protein_coding	
	TNF alpha induced protein 8 like 1 [Source:HGNC					
Symbol;Acc:HGNC:28279]	-	456	436	488	241	313
345	3.349369576	3.098720997	4.554033421			
2.008623924	2.885766866	2.406133158				
ENSG00000136448	3181.729138	3199.257479	3810.647628			
3948.075934	4192.699485	4653.07501	3397.211415			
4264.61681	-0.32854372	0.017153866	0.102063481			NMT1
17	45051610	45109016	+	6669		
protein_coding	N-myristoyltransferase 1 [Source:HGNC					
Symbol;Acc:HGNC:7857]	-	3507	3615	3278	3811	3673
5394	25.75157119	25.68467206	30.58123911			
31.75340298	33.85381146	37.608087				
ENSG00000226808	10.88701159	1.769990306	11.6249165			0
0	0	8.093972799	0	5.44722547		
0.017163932	0.102089037	LINC00840	10	43845261		
43895433	+	3825	lincRNA	long intergenic non-		
protein_coding	RNA 840 [Source:HGNC Symbol;Acc:HGNC:44987]					
12	2	10	0	0	0	0.15363087
0.024775647	0.162657992	0	0	0	0	
ENSG00000108785	114.3136217	162.8391082	180.1862057			
211.337573	257.9771532	282.9456069	152.4463119			
250.7534443	-0.720636407	0.017183518	0.102144611			
HSD17B1P1	17	42546764	42548706	+	955	
	unprocessed_pseudogene hydroxysteroid 17-beta dehydrogenase 1					
pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:5216]	-				126	184
155	204	226	328	6.460942219	9.129371755	
10.09799551	11.86967532	14.54629624	15.96987402			
ENSG00000218052	3.629003864	6.194966072	13.9498998			0
0	0	7.924623245	0	5.415091143		
0.017184825	0.102144611	ADAMTS7P4	15	85255369		
85330334	-	5516				
transcribed_unprocessed_pseudogene	ADAMTS7 pseudogene 4					
[Source:HGNC Symbol;Acc:HGNC:49410]	-				4	7
0	0	0	0.035511124	0.060131249		12
0.135351738	0	0	0			
ENSG00000133422	923.5814834	935.4398768	864.8937875			
982.0981332	1221.396256	1487.189714	907.9717159			
1230.228034	-0.438528963	0.017195182	0.10217184			MORC2

22	30925130	30968298	-	6258	
protein_coding	MORC family CW-type zinc finger		2	[Source:HGNC	
Symbol;Acc:HGNC:23573]	-	1018 1057	744	948	1070
1724	7.966011018	8.003240528	7.396805914		
8.417532894	10.50982729	12.80951601			
ENSG00000112237	1080.5359	903.5800513	856.756346		
1281.493028	1211.12283	1226.672722	946.9574326		
1239.76286	-0.388094419	0.017245985	0.102415311		CCNC
6	99542380	99568973	-	5765	
protein_coding	cyclin C [Source:HGNC				-
Symbol;Acc:HGNC:1581]	-				
1191	1021 737	1237 1061	1422	10.11675269	
8.391756455	7.953806529	11.92291456	11.31262608		
11.46915185					
ENSG00000126467	36.29003864	14.15992245	5.812458249		
71.48182615	70.77249335	40.54403513	18.75413978		
60.93278487	-1.687051799	0.017247737	0.102415311		TSKS
19	49739753	49763330	-	2391	
protein_coding	testis specific serine kinase substrate				[Source:HGNC
Symbol;Acc:HGNC:30719]	-	40 16	5 69	62	
47	0.819236133	0.317078538	0.130105985		
1.6035465	1.593894139	0.914006533			
ENSG00000163029	1507.851105	1217.753331	1147.379258		
1117.810006	971.4095458	674.5837334	1290.994565		
921.2677617	0.488022699	0.017279492	0.102569439		SMC6
2	17663812	17800242	-	9824	
protein_coding	structural maintenance of chromosomes 6				[Source:HGNC
Symbol;Acc:HGNC:20466]	-	1662 1376	987 1079	851	
782	8.284596274	6.636766236	6.250800605		
6.103024797	5.324619355	3.701258497			
ENSG00000246695	140.6238997	173.45905	118.5741483		
221.6972579	172.3652661	368.3468723	144.2190327		
254.1364654	-0.817962028	0.017295865	0.10260696		
RASSF8-AS1	12	25939329	25959765	-	3981
antisense	RASSF8 antisense RNA 1				[Source:HGNC
Symbol;Acc:HGNC:48637]	-	155 196	102 214	151	
427	1.906637823	2.332868906	1.594097354		
2.986989111	2.331482338	4.987314039			
ENSG00000007047	694.9542399	873.4902161	828.8565464		
856.7459453	1333.262455	1134.370345	799.1003341		
1108.126248	-0.47156425	0.017297414	0.10260696		MARK4
19	45079288	45305283	+	6668	
protein_coding	microtubule affinity regulating kinase 4				[Source:HGNC
Symbol;Acc:HGNC:13538]	-	766 987	713 827	1168	
1315	5.625509495	7.013713189	6.652743592		
6.891630146	10.76699749	9.169827793			
ENSG00000126705	1026.100843	1100.93397	1076.467268		
809.0913945	762.5165412	883.3423824	1067.834027		
818.3167727	0.383268132	0.017303657	0.102609583		AHDC1
1	27534035	27604431	-	8297	
protein_coding	AT-hook DNA binding motif containing 1				[Source:HGNC

Symbol;Acc:HGNC:25230]	-	1131	1244	926	781	668
1024	6.67529093	7.104372608		6.94379264		
5.230485319	4.948832247	5.738651939				
ENSG00000173535	7.258007728	14.15992245		17.43737475		
29.00711786	37.66923033	63.83528935		12.95176831		
43.50387918	-1.758401296	0.017354395		0.102875969		
TNFRSF10C	8	23102590	23117437		+	1868
protein_coding	TNF receptor superfamily member 10c					
[Source:HGNC Symbol;Acc:HGNC:11906]	-			8	16	15
28	33	74	0.209720941	0.405853739		
0.499598624	0.832900654	1.085886486	1.841984053			
ENSG00000135298	57.15681086	31.85982551	53.4746159			
11.39565344	18.26386925	17.25278091	47.49708409			
15.63743453	1.601428464	0.017366244	0.102881512			ADGRB3
6	68635367	69389511		+	6490	
protein_coding	adhesion G protein-coupled receptor B3 [Source:HGNC					
Symbol;Acc:HGNC:945]	-	63	36	46	11	16
20	0.475362082	0.262835634	0.440981105			
0.094180292	0.151538382	0.143290143				
ENSG00000100908	241.328757	200.0089046	209.248497			
76.66166862	192.912119	62.11001126	216.8620528			
110.5612663	0.977509853	0.017366962	0.102881512			EMC9
14	24138959	24141588		-	1588	
protein_coding	ER membrane protein complex subunit 9 [Source:HGNC					
Symbol;Acc:HGNC:20273]	-	266	226	180	74	169
72	8.202756546	6.743484784	7.052268741			
2.589364951	6.541593703	2.108205861				
ENSG00000112576	1791.820658	2156.733188	2169.209419			
1663.765403	1545.579935	1598.470151	2039.254422			
1602.605163	0.347328828	0.0174132	0.10312089			CCND3
6	41934933	42050357		-	5802	
protein_coding	cyclin D3 [Source:HGNC Symbol;Acc:HGNC:1585]					-
1975	2437	1866	1606	1354	1853	16.66932673
19.90234478	20.00970848	15.38083312	14.3445953			
14.85007725						
ENSG00000065615	1059.669128	900.9250659	746.3196392			
1073.263361	1341.252898	1247.376059	902.3046111			
1220.630773	-0.434869088	0.017441416	0.103253417			CYB5R4
6	83859643	83967424		+	9635	
protein_coding	cytochrome b5 reductase 4 [Source:HGNC					
Symbol;Acc:HGNC:20147]	-	1168	1018	642	1036	1175
1446	5.936354221	5.006364887	4.145626346			
5.974754707	7.496067832	6.978267158				
ENSG00000136830	13083.46618	15753.79872	18348.7682			
12569.40575	13243.58819	11474.82458	15728.6777			
12429.27284	0.339620215	0.01747984	0.103446265			
FAM129B	9	127505339	127578989		-	4629
protein_coding	family with sequence similarity 129 member B					
[Source:HGNC Symbol;Acc:HGNC:25282]	-			14421	17801	15784
12133	11602	13302	152.558665	182.2148048		

212.1469235	145.6441551	154.0611164	133.6167121			
ENSG0000049449	2501.290913	2677.995333	2548.181697			
2088.512486	2062.675734	2101.388714	2575.822648			
2084.192311	0.305553104	0.01749143	0.103480235		RCN1	
11	32090904	32105755	+	4675		
protein_coding	reticulocalbin 1	[Source:HGNC Symbol;Acc:HGNC:9934]				
-	2757	3026	2192	2016	1807	2436
28.87911196	30.66999812	29.17197154	23.96188371			
23.75876695	24.22850889					
ENSG00000197355	798.3808501	784.9907008	780.0318971			
521.0921529	689.4610642	518.4460662	787.8011493			
576.3330945	0.452192092	0.017504148	0.103520852		UAP1L1	
9	137077501	137084539	+	5283		
protein_coding	UDP-N-acetylglucosamine pyrophosphorylase 1 like 1	[Source:HGNC Symbol;Acc:HGNC:28082]				
-	503	604	601	8.15700531	7.955536085	671
7.902213444	5.290532882	7.027545856	5.289624939			
ENSG00000155714	9.979760626	6.194966072	6.974949899		0	
0	0	7.716558866	0	5.38149382		
0.017508446	1	PDZD9	16	21983865	22001110	
-	1331	protein_coding	PDZ domain containing 9			
[Source:HGNC Symbol;Acc:HGNC:28740]	-	11	7	6		
0	0	0	0.40470942	0.249199075		
0.280465884	0	0	0			
ENSG00000261327	30.84653284	19.46989337	63.93704074		0	
15.98088559	0	38.08448899	5.326961865			
2.866890297	0.01751832	0.103564131	AC134312.5		16	
88177298	88178941	-	1507	lincRNA	novel	
transcript	-	34	22	55	0	14
1.104827176	0.691728818	2.270681825	0			
0.571034232	0					
ENSG00000227214	13.60876449	10.61994184	8.137441549			
41.4387398	28.5372957	42.26931322	10.78871596			
37.41511624	-1.789581241	0.017529854	0.103564131		HCG15	
6	28986203	28987484	+	1032		
antisense	HLA complex group 15	[Source:HGNC Symbol;Acc:HGNC:18361]				
-	49	0.711770928	0.550970047	0.422012378		25
2.153735357	1.489044482	2.207737329				
ENSG00000253659	5.443505796	3.539980612	0	17.61146441		
30.82027936	16.39014186	2.994495469	21.60729521			
-2.814893249	0.017534293	0.103564131	AC138646.1			
8	79297717	79314471	+	633		
lincRNA novel transcript	-	6	4	0		17
27	19	0.464169098	0.299421321	0		
1.492303835	2.621847422	1.395664105				
ENSG00000115009	22.68127415	50.44472373	8.137441549			
46.61858227	60.49906689	141.4728034	27.08781314			
82.8634842	-1.605755929	0.017534885	0.103564131		CCL20	
2	227805739	227817564	+	1594		

protein_coding	C-C motif chemokine ligand 20 [Source:HGNC					
Symbol;Acc:HGNC:10619]	-	25	57	7	45	53
164	0.768033874	1.694388439	0.273222568			
1.568686794	2.043783613	4.783949088				
ENSG00000151612	391.9324173	248.683638	453.3717435			
255.8842182	243.1377594	182.0168386	364.6625996			
227.0129387	0.683713215	0.0175489	0.103612312			ZNF827
4	145757627	145938635	-	8433		
protein_coding	zinc finger protein 827 [Source:HGNC					
Symbol;Acc:HGNC:27193]	zf-C2H2	432	281	390	247	213
211	2.508593716	1.578885588	2.877327876			
1.627522108	1.552547382	1.163406198				
ENSG00000065029	939.9120008	876.1452016	889.3061122			
664.0558052	743.1111801	642.6660887	901.7877715			
683.2776914	0.401053853	0.017584994	0.103750458			ZNF76
6	35258909	35295985	+	6789		
protein_coding	zinc finger protein 76 [Source:HGNC					
Symbol;Acc:HGNC:13149]	zf-C2H2	1036	990	765	641	651
745	7.47278746	6.90964646	7.010717592			
5.246434612	5.894168405	5.10248201				
ENSG00000162409	303.9290736	228.3287495	203.4360387			
404.027713	397.2391562	322.6270029	245.2312873			
374.6312907	-0.608794551	0.017585974	0.103750458			PRKAA2
1	56645322	56715335	+	9354		
protein_coding	protein kinase AMP-activated catalytic subunit alpha 2					
[Source:HGNC Symbol;Acc:HGNC:9377]	-		335	258	175	
390	348	374	1.753784086	1.306919329		
1.163985391	2.316750605	2.286805555	1.859110719			
ENSG00000278272	9.979760626	11.50493699	2.3249833	0		
0	0	7.936560305	0	5.425649404		
0.017589893	0.103750458	HIST1H3C	6	26045411		
26045821	+	411	protein_coding	histone		
cluster 1 H3 family member c	[Source:HGNC Symbol;Acc:HGNC:4768]					-
11	13	2	0	0	0	1.310628317
1.498745773	0.302757577	0	0	0		
ENSG00000108591	758.4618076	999.1595279	902.0935203			
1107.450321	1214.547305	1193.0298	886.5716186			
1171.675809	-0.402292742	0.017621112	0.103899947			DRG2
17	18087886	18107971	+	7411		
protein_coding	developmentally regulated GTP binding protein 2					
[Source:HGNC Symbol;Acc:HGNC:3030]	-		836	1129	776	
1069	1064	1383	5.524056956	7.218443632		
6.514659997	8.015173645	8.824948403	8.677135613			
ENSG00000276317	0	2.654985459	2.3249833	0		
19.40536108	44.85723035	1.659989586				
21.42086381	-3.705082211	0.017628885	0.103911147			
AL357033.3	20	62651272	62652186	-		614
antisense	"novel transcript, antisense to SLC04A1"					
-	0	3	2	0	17	52
0.231515101	0.202660202	0	1.701875987			0

3.937911853  
ENSG00000187144 0 24.77986429 4.6499666 0 0  
0 9.809943629 0 5.729847384 0.01765879  
0.104052744 SPATA21 1 16387117 16437424  
- 4506 protein\_coding spermatogenesis associated 21  
[Source:HGNC Symbol;Acc:HGNC:28026] - 0 28 4  
0 0 0 0 0.294437611 0.055230077  
0 0 0

ENSG00000180801 1013.399329 1072.614126 1236.891115  
908.54437 802.4687552 813.4686197 1107.634857  
841.493915 0.395822151 0.017678253 0.104132738 ARSJ  
4 113900284 113979727 - 5146  
protein\_coding arylsulfatase family member J [Source:HGNC  
Symbol;Acc:HGNC:26286] - 1117 1212 1064 877 703  
943 10.62948136 11.15987368 12.86407883  
9.469822857 8.397169184 8.520653977  
ENSG00000007923 1046.060364 1180.583534 1252.003507  
1269.061406 1596.947068 1732.179203 1159.549135  
1532.729226 -0.403209039 0.017688589 0.104158936  
DNAJC11 1 6634168 6701924 - 5083 protein\_coding DnaJ  
heat shock protein family (Hsp40) member C11 [Source:HGNC  
Symbol;Acc:HGNC:25570] - 1153 1334 1077 1225 1399  
2008 11.10805141 12.43546876 13.18264146  
13.39146291 16.91784201 18.36853909  
ENSG00000103126 1197.571275 1251.383147 1172.954075  
1450.355893 1401.751965 1915.92132 1207.302832  
1589.343059 -0.397208519 0.017712872 0.104267221 AXIN1  
16 287440 352673 - 7487 protein\_coding axin 1  
[Source:HGNC Symbol;Acc:HGNC:903] - 1320 1414 1009  
1400 1228 2221 8.633656816 8.94886625  
8.384751188 10.3903995 10.08179573 13.79341311  
ENSG00000257298 6.350756762 9.734946684 6.974949899 0  
0 0 7.686884449 0 5.376150456  
0.01773226 1 AC008147.2 12 50185580  
50191363 - 4713 sense\_intronic "novel transcript,  
sense intronic to LIMA1" - 7 11 6 0  
0 0 0.072732629 0.110591484 0.07920647  
0 0 0

ENSG00000106006 19.05227029 30.97483036 22.08734135  
5.179842475 0 6.038473317 24.03814733 3.739438597  
2.659129369 0.017744351 0.104415541 HOXA6 7  
27145396 27150603 - 1285 protein\_coding  
homeobox A6 [Source:HGNC Symbol;Acc:HGNC:5107] Homeobox  
21 35 19 5 0 7 0.80028532  
1.290599099 0.919935376 0.216211565 0

0.2532946  
ENSG00000233328 15.42326642 28.3198449 32.5497662  
50.76245625 70.77249335 74.18695789 25.43095917  
65.24063583 -1.364815116 0.017749875 0.104415541 PFN1P1  
1 171670517 171670939 - 423

processed_pseudogene	profilin 1 pseudogene 1 [Source:HGNC					
Symbol;Acc:HGNC:42989]	-	17	32	28	49	62
86	1.968055029	3.584561631	4.118361929			
6.43676652	9.009458358	9.453423236				
ENSG00000110700	6490.473411	7618.038278	7698.019706			
8778.797026	9204.990102	8728.18186	7268.843798			
8903.989663	-0.2927758	0.017757789	0.104427369			RPS13
11	17074389	17077787	-	2186		
protein_coding	ribosomal protein S13 [Source:HGNC					
Symbol;Acc:HGNC:10386]	-	7154	8608	6622	8474	8064
10118	160.2608573	186.5857796	188.4715774			
215.4023047	226.7502224	215.2164858				
ENSG00000068394	348.3843709	393.8228431	504.5213761			
549.0633023	690.602556	551.2263499	415.5761967			
596.9640694	-0.523651516	0.0177808	0.104527943			GPKOW
X	49113389	49123801	-	1742		
protein_coding	G-patch domain and KOW motifs [Source:HGNC					
Symbol;Acc:HGNC:30677]	-	384	445	434	530	605
639	10.79472933	12.1042616	15.50059701			
16.9059571	21.34787171	17.05625678				
ENSG00000186017	170.5631816	242.488672	168.5612892			
339.7976663	243.1377594	344.1929791	193.8710476			
309.0428016	-0.672230488	0.017832376	0.104768362			ZNF566
19	36445119	36489902	-	6481		
protein_coding	zinc finger protein 566 [Source:HGNC					
Symbol;Acc:HGNC:25919]	zf-C2H2	188	274	145	328	213
399	1.420510706	2.003249219	1.391979462			
2.812184861	2.02015616	2.862608077				
ENSG00000163749	5.443505796	13.2749273	4.6499666			0
0	0	7.789466564	0	5.397205139		
0.017833543	0.104768362	CCDC158 4	76312997			
76421868	-	5860	protein_coding	coiled-coil domain		
containing 158 [Source:HGNC	Symbol;Acc:HGNC:26374]	-				6
15	4	0	0	0	0.050139768	
0.121288628	0.042468725	0	0	0		
ENSG00000166106	4.53625483	7.079961225	11.6249165			0
0	0	7.747044185	0	5.383847108		
0.017857861	1	ADAMTS15	11	130448974		
130476641	+	5673	protein_coding	ADAM metallopeptidase		
with thrombospondin type 1 motif 15 [Source:HGNC	Symbol;Acc:HGNC:16305]	-	5	8	10	0
0	0.043160444	0.066819565	0.109671571			0
0	0					
ENSG00000075213	247.6795137	169.0340742	142.9864729			
269.3518087	386.9657298	265.6928259	186.566687			
307.3367881	-0.71671683	0.017870724	0.104951936			SEMA3A
7	83955777	84492724	-	9371		
protein_coding	semaphorin 3A [Source:HGNC	Symbol;Acc:HGNC:10723]				
-	273	191	123	260	339	308
1.426610423	0.965770355	0.816631297	1.541698514			

2.223622811	1.528254899					
ENSG00000138964	13.60876449	9.734946684	1.16249165	0		
0	0	8.168734275	0	5.467684048		
0.017882419	0.104985766	PARVG	22	44172956		
44219533	+	8656	protein_coding	parvin gamma		
[Source:HGNC Symbol;Acc:HGNC:14654]	-			15	11	1
0	0	0	0.084859935	0.06021461		
0.007187694	0	0	0			
ENSG00000108852	234.9780002	184.963987	292.9478958			
161.6110852	152.959905	109.5551588	237.629961			
141.375383	0.749568915	0.017894393	0.105021206			MPP2
17	43875357	43909711	-	6114		
protein_coding	membrane palmitoylated protein 2	[Source:HGNC				
Symbol;Acc:HGNC:7220]	-	259	209	252	156	134
127	2.074450199	1.619747404	2.564377472			
1.417787711	1.347183404	0.965849156				
ENSG00000124209	2861.469547	2743.484975	2597.006346			
3464.278647	3032.943787	3788.710687	2733.986956			
3428.644374	-0.32677912	0.017913261	0.105097074			RAB22A
20	58309696	58367507	+	9285		
protein_coding	"RAB22A, member RAS oncogene family	[Source:HGNC				
Symbol;Acc:HGNC:9764]"	-	3154	3100	2234	3344	2657
4392	16.63445071	15.8199908	14.96952801			
20.01227234	17.58964225	21.99436569				
ENSG00000257698	127.9223862	137.1742487	195.2985972			
75.62570013	75.33846066	99.20349021	153.4650774			
83.389217	0.875168625	0.017928045	0.105148932			
AC084033.3	12	57931528	57936175	-		1312
lincRNA uncharacterized LOC100506844	[Source:NCBI					
gene;Acc:100506844]	-	141	155	168	73	66
115	5.262764799	5.597889275	7.966770257			
3.091726502	3.092127981	4.075632563				
ENSG00000232491	0	0	0	35.36820086		
0	11.78940029	-6.040135386	0.017961818			
0.105312098	SAPCD2P3	7	66556216	66557065		
+	850	processed_pseudogene	suppressor APC domain			
containing 2 pseudogene 3	[Source:HGNC Symbol;Acc:HGNC:51279]	-				
0	0	0	0	41	0	0
0	0	0	2.242827896			
ENSG00000005961	6.350756762	0	5.812458249	20.7193699		
25.11282022	29.32972754	4.054405004	25.05397255			
-2.643954138	0.017995817	0.105476474	ITGA2B	17		
44372180	44389505	-	5551	protein_coding		
integrin subunit alpha 2b	[Source:HGNC Symbol;Acc:HGNC:6138]					
-	7	0	5	20	22	34
0.061752635	0	0.056040967	0.200203106	0.243612077		
0.284799162						
ENSG00000276045	762.9980624	863.7552694	886.9811289			
931.3356769	1318.423062	1135.232984	837.9114869			
1128.330574	-0.429361071	0.018006816	0.105505987			ORAI1



12	121626550	121642677	+	2262	
protein_coding	ORAI calcium release-activated calcium modulator 1				
[Source:HGNC Symbol;Acc:HGNC:25896]		-	841	976	763
899	1155	1316	18.20673532	20.44483726	
20.98644048	22.084071		31.38605589	27.05168407	
ENSG0000083807	119.7571275		162.8391082	173.2112558	
89.09329056	98.16829722		31.05500563	151.9358305	
72.7721978	1.067294476		0.018036883	0.105632933	
SLC27A5	19	58479512	58512413	-	8025
protein_coding	solute carrier family 27 member 5 [Source:HGNC				
Symbol;Acc:HGNC:10999]		-	132	184	149
36	0.805485216		1.086423679	1.155175778	
0.595477634	0.65871988		0.208587596		
ENSG00000132670	1625.793731		1443.427095	1926.248664	
1329.147579	1312.715602		1193.892439	1665.156497	
1278.585207	0.380729784		0.018040426	0.105632933	PTPRA
20	2864184	3039076	+	4469	
protein_coding	"protein tyrosine phosphatase, receptor type A				
[Source:HGNC Symbol;Acc:HGNC:9664]"		-	1792	1631	1657
1283	1150	1384	19.63614969	17.29298828	
23.06848111	15.95248502		15.81739084	14.39980973	
ENSG00000255139	4.53625483		0	3.48747495	3.107905485
	35.38624667	29.32972754		2.674576593	22.6079599
	-3.09218908	0.018083441		0.105818643	AP000442.2
11	59616429		59639861	+	760
antisense	novel transcript				
3	31	34	0.322169999	0	0.245592166
	0.219340943	2.507237425		2.080158093	
ENSG00000135454	222.2764867		231.8687301	282.4854709	
189.5822346	136.9790194		122.4947444	245.5435626	
149.6853328	0.713950202		0.018084106	0.105818643	
B4GALNT1	12	57623410	57633355	-	8003
protein_coding	"beta-1,4-N-acetyl-galactosaminyltransferase 1				
[Source:HGNC Symbol;Acc:HGNC:4117]"		-	245	262	243
183	120	142	1.499139168	1.551225428	
1.889123295	1.270604288		0.921670717	0.82502393	
ENSG00000255201	0	3.539980612		1.16249165	9.323716454
	19.40536108	19.84069804		1.567490754	16.18992519
	-3.352753175	0.018126723		0.105994539	AC087623.1
8	38421889		38426096	+	534
antisense	novel transcript				
9	17	23	0	0.354932015	0.11651064
	0.936511891	1.956838681		2.002707836	
ENSG00000111785	550.7013363		533.6520773	524.2837341	
679.5953327	757.9505739		715.9904076	536.2123826	
717.845438	-0.420467272		0.018127555	0.105994539	RIC8B
12	106774595		106889316	+	7795
protein_coding	RIC8 guanine nucleotide exchange factor B [Source:HGNC				
Symbol;Acc:HGNC:25555]		-	607	603	451
830	3.813302473		3.665452817	3.599707965	656
					664

4.67627199	5.235996168	4.951000737				
ENSG00000077380	1967.827345	1654.940936	2416.82014			
1668.945245	1602.654527	1188.716604	2013.196141			
1486.772125	0.437331309	0.018133803	0.105994539			
DYNC1I2 2	171687409	171748420	+	4695		
protein_coding	dynein cytoplasmic 1 intermediate chain 2 [Source:HGNC					
Symbol;Acc:HGNC:2964]	-	2169	1870	2079	1611	1404
1378	22.62312728	18.87263109	27.55026238			
19.06654433	18.38141208	13.64723403				
ENSG00000126461	4050.875563	5145.36182	5031.263861			
4627.671267	6394.637221	8261.494137	4742.500415			
6427.934208	-0.438913631	0.018138135	0.105994539			SCAF1
19	49642125	49658642	+	4548		
protein_coding	SR-related CTD associated factor 1 [Source:HGNC					
Symbol;Acc:HGNC:30403]	-	4465	5814	4328	4467	5602
9577	48.07615102	60.57326901	59.20707997			
54.57673365	75.71292224	97.91293061				
ENSG00000196792	413.7064405	392.0528528	406.8720775			
251.7403443	309.3442854	279.4950507	404.2104569			
280.1932268	0.52913169	0.018170626	0.106149343			STRN3
14	30893799	31026401	-	4965		
protein_coding	striatin 3 [Source:HGNC Symbol;Acc:HGNC:15720] -					
456	443	350	243	271	324	4.497532117
4.227765731	4.385868822	2.719562627	3.355037651			
3.034287832						
ENSG00000198522	948.9845104	1108.013932	1172.954075			
1138.529376	1577.541707	1632.975713	1076.650839			
1449.682265	-0.429775744	0.018204014	0.106309277			GPN1
2	27628247	27651508	+	3746		
protein_coding	GPN-loop GTPase 1 [Source:HGNC Symbol;Acc:HGNC:17030]					
-	1046	1252	1009	1099	1382	1893
13.67390616	15.83663826	16.75831077	16.30204032			
22.67710601	23.49707803					
ENSG00000057704	31.75378381	58.40968011	27.8997996			
101.5249125	73.055477	94.02765594	39.35442117			
89.53601515	-1.181337778	0.018245768	0.106517949			TMCC3
12	94567124	94650562	-	6515		
protein_coding	transmembrane and coiled-coil domain family 3					
[Source:HGNC Symbol;Acc:HGNC:29199]	-		35	66		24
98	64	109	0.263076653	0.480016268		
0.229194224	0.835841055	0.603827536	0.777934615			
ENSG00000279852	9.979760626	9.734946684	3.48747495			0
0	0	7.734060753	0	5.387506653		
0.018251836	1	AC083964.2	8	486117	488512	-
2396	TEC	TEC	-	11	11	3
0	0	0.224819799	0.217536588	0.077900687		0
0	0	0				
ENSG00000174804	151.5109113	137.1742487	132.5240481			
75.62570013	77.62144432	81.9507093	140.4030694			
78.39928458	0.840605736	0.018268496	0.106615448			FZD4

11	86945679	86955391	-	7383	
protein_coding	frizzled class receptor 4 [Source:HGNC				
Symbol;Acc:HGNC:4042]	-	167	155	114	73
95	1.107674828	0.994775935	0.960680177		68
0.549416927	0.566139432	0.598303791			
ENSG0000099957	92.53959853	111.5093893	79.04943219		
72.51779464	10.27342645	12.07694663	94.36614001		
31.62272258	1.579789664	0.018276782	0.106628627		P2RX6
22	21009808	21028830	+	4730	
protein_coding	purinergic receptor P2X 6 [Source:HGNC				
Symbol;Acc:HGNC:8538]	-	102	126	68	70
14	1.056009231	1.26222229	0.894447014		9
0.822335318	0.116957676	0.137625184			
ENSG00000167987	949.8917614	1154.918675	1009.042752		
1274.241249	1291.027258	1490.64027	1037.951063		
1351.969592	-0.381518077	0.01833813	0.106951262		VPS37C
11	61130256	61161617	-	3960	
protein_coding	"VPS37C, ESCRT-I subunit [Source:HGNC				
Symbol;Acc:HGNC:26097]"	-	1047	1305	868	1230
1728	12.94732886	15.61499202	13.63739393		1131
17.25925197	17.55556371	20.28988429			
ENSG00000101868	1061.48363	902.6950562	866.0562792		
928.2277714	507.9638635	439.083274	943.4116552		
625.0916363	0.594578952	0.018359327	0.107039599		POLA1
X	24693919	24996986	+	6336	
protein_coding	"DNA polymerase alpha 1, catalytic subunit				
[Source:HGNC Symbol;Acc:HGNC:9173]"	-		1170	1020	745
896	445	509	9.042726105	7.628013342	
7.315566303	7.857870816	4.317100934	3.735370046		
ENSG00000185053	1906.13428	1671.755844	1186.903975		
2157.922375	2078.656619	2132.44372	1588.264699		
2123.007571	-0.417815273	0.018377963	0.107112945		SGCZ
8	14089864	15238339	-	2234	
protein_coding	sarcoglycan zeta [Source:HGNC Symbol;Acc:HGNC:14075]				
-	2101	1889	1021	2083	1821
46.0544465	40.06593019	28.43475037	51.81054311		
50.10420057	51.45129566				
ENSG00000128191	1453.416047	2029.293886	1340.352872		
1892.71444	2078.656619	2572.389633	1607.687602		
2181.253564	-0.439916091	0.018402769	0.107126019		DGCR8
22	20080232	20111877	+	7315	
protein_coding	"DGCR8, microprocessor complex subunit [Source:HGNC				
Symbol;Acc:HGNC:2847]"	-	1602	2293	1153	1827
2982	10.72449534	14.85306786	9.80667592		1821
13.87829966	15.301816	18.95502348			
ENSG00000177728	1457.952302	1240.763205	1231.078657		
1048.400117	1036.47458	952.353506	1309.931388		
1012.409401	0.372325541	0.018403465	0.107126019		TMEM94
17	75441159	75500090	+	8854	
protein_coding	transmembrane protein 94 [Source:HGNC				

Symbol;Acc:HGNC:28983]	-	1607	1402	1059	1012	908
1104	8.888020399	7.502999834	7.441548028			
6.351159777	6.303673215	5.797764542				
ENSG00000139631	45.3625483	76.99457832	53.4746159			
149.1794633	101.5927727	103.5166854	58.61058084			
118.0963071	-1.008749874	0.018403476	0.107126019			CSAD
12	53157663	53180909	-	4390		
protein_coding	cysteine sulfinic acid decarboxylase [Source:HGNC					
Symbol;Acc:HGNC:18966]	-	50	87	46	144	89
120	0.55774305	0.939033689	0.651928786			
1.822678268	1.246157245	1.271006419				
ENSG00000166133	316.6305871	318.5982551	349.9099866			
317.0063594	597.0002261	605.5726098	328.3796096			
506.5263985	-0.626056184	0.018404431	0.107126019			RPUSD2
15	40569300	40574943	+	2482		
protein_coding	RNA pseudouridylate synthase domain containing 2					
[Source:HGNC Symbol;Acc:HGNC:24180]	-		349	360		301
306	523	702	6.885767164	6.872696479		
7.545214055	6.850648628	12.95231124	13.15122939			
ENSG00000251350	31.75378381	15.0449176	19.76235805			
7.251779464	0	0	22.18701982	2.417259821		
3.20896696	0.018410984	0.107128914	LINC02475			4
44016861	44022063	+	2823	lincRNA long		
intergenic non-protein coding RNA 2475 [Source:HGNC						
Symbol;Acc:HGNC:53418]	-	35	17	17	7	0
0	0.607135811	0.2853412	0.374666523			
0.137784132	0	0				
ENSG00000183562	0.907250966	0	0	18.64743291		
4.565967313	6.038473317	0.302416989				
9.750624513	-4.799264416	0.018426235	0.107164429			
AC131971.1	11	2989863	2991344	+	1482	antisense
"novel transcript, antisense to NAP1L4"	-				1	0
0	18	4	7	0.033043077	0	0
0.674895209	0.165904875	0.219624535				
ENSG00000106511	301.2073207	304.4383327	270.8605544			
224.8051634	130.1300684	193.2311461	292.1687359			
182.722126	0.675957237	0.018429204	0.107164429			MEOX2
7	15611212	15686812	-	2500		
protein_coding	mesenchyme homeobox 2 [Source:HGNC					
Symbol;Acc:HGNC:7014]	Homeobox	332	344	233	217	
114	224	6.50319473	6.51995915	5.798594763		
4.823161107	2.802929684	4.166189574				
ENSG00000196453	501.7097842	528.3421064	576.5958583			
613.293349	690.602556	977.3700383	535.5492496			
760.4219811	-0.507438687	0.018438444	0.107182924			ZNF777
7	149431363	149461123	-	3233		
protein_coding	zinc finger protein 777 [Source:HGNC					
Symbol;Acc:HGNC:22213]	zf-C2H2	553	597	496	592	605
1133	8.37622067	8.749738373	9.545151338			
10.17485071	11.50262682	16.29503221				

ENSG00000141556	2334.356735	2272.667553	2705.118069	
1875.102976	1808.123056	2094.487602	2437.380786	
1925.904545	0.339043271	0.018477729	0.107376004	TBCD
17	82752064	82945922	+ 13546	
protein_coding	tubulin folding cofactor D [Source:HGNC			
Symbol;Acc:HGNC:11581]	-	2573 2568	2327 1810	1584
2428	9.301594411	8.982772256	10.68789451	
7.424710888	7.187725222	8.334290406		
ENSG00000074416	2396.957052	2585.955837	2556.319138	
3179.387311	3074.037493	3011.472907	2513.077343	
3088.299237	-0.297367245	0.018556887	0.107800582	MGLL
3	127689062	128052190	- 11849	
protein_coding	monoglyceride lipase [Source:HGNC			
Symbol;Acc:HGNC:17038]	-	2642 2922	2199 3069	2693
3491	10.91892285	11.68489873	11.54650044	
14.39220156	13.97018039	13.69932495		
ENSG00000163728	617.8379078	647.8164521	362.6973948	
805.983489	778.4974268	777.2377798	542.7839182	
787.2395652	-0.534312297	0.018564802	0.107811159	TTC14
3	180602130	180617828	+ 7783	
protein_coding	tetratricopeptide repeat domain 14 [Source:HGNC			
Symbol;Acc:HGNC:24697]	-	681 732	312 778	682
901	4.284782337	4.456464912	2.494103146	
5.554495384	5.386227643	5.38280663		
ENSG00000168395	679.5309735	778.7957347	588.2207748	
391.5960911	522.8032573	536.5614862	682.1824944	
483.6536115	0.496702916	0.018583876	0.107886507	ING5
2	241687085	241729478	+ 10259	
protein_coding	inhibitor of growth family member 5 [Source:HGNC			
Symbol;Acc:HGNC:19421]	-	749 880	506 378	458
622	3.57524223	4.064471505	3.068685164	
2.047381684	2.744149756	2.819138243		
ENSG00000108639	1041.524109	1254.038132	981.1429525	
1259.73769	1515.901148	1536.36014	1092.235064	
1437.332992	-0.395587142	0.018602853	0.107961242	SYNGR2
17	78168558	78173527	+ 4074	
protein_coding	synaptogyrin 2 [Source:HGNC			
Symbol;Acc:HGNC:11499]	-	844 1216	1328 1781	
13.7990614	16.48068529	12.88926844	16.58534821	
20.03661764	20.32702929			
ENSG00000204520	1153.115978	1372.627482	1233.403641	
1058.759802	905.2030197	922.1611394	1253.049034	
962.0413203	0.381424468	0.018643899	0.108163965	MICA
6	31399784	31415315	+ 2386	
protein_coding	MHC class I polypeptide-related sequence A			
[Source:HGNC	Symbol;Acc:HGNC:7090]	-	1271 1551	1061
1022	793 1069	26.08577805	30.80121153	
27.66634518	23.8008518	20.42914111	20.83235099	
ENSG00000174502	9.07250966	3.539980612	10.46242485	0
0	0	7.691638374	0	5.374078258

0.018680111	1	SLC26A9	1	205913048	205943460	
-	5628	protein_coding		solute carrier family 26		
member 9 [Source:HGNC Symbol;Acc:HGNC:14469]	-			10	4	
9	0	0	0	0.087011087	0.033676918	
0.099493628	0	0	0			
ENSG00000181191	522.5765564	559.3169368		649.8328323		
693.0629231	824.1570999	832.4466787		577.2421085		
783.2222339	-0.441440517	0.018688975		0.108389926		PJA1
X	69160851	69165793		-	3117	
protein_coding	praja ring finger ubiquitin ligase 1 [Source:HGNC					
Symbol;Acc:HGNC:16648]	-	576	632	559	669	722
965	9.049287053	9.607418673		11.15788426		
11.92617998	14.23795957	14.39532682				
ENSG00000253616	9.07250966	34.51481097		52.31212425		
4.14387398	11.41491828	0	31.96648163	5.186264087		
2.649626915	0.01869739	0.108403187		AC107959.3		
8	23071377	23074488		-	881	
antisense	novel transcript			-	10	39
4	10	0	0.555843812	2.097563607		45
3.177923598	0.252287729	0.697704384		0		
ENSG00000108509	749.3892979	990.3095763		813.7441549		
1009.033314	1088.983204	1363.832331		851.1476764		
1153.949616	-0.439393184	0.01871293		0.108425027		CAMTA2
17	4967992	4987652	-	5999		protein_coding
calmodulin binding transcription activator 2 [Source:HGNC						
Symbol;Acc:HGNC:18807]	CG-1	826	1119	700	974	954
1581	6.74263839	8.838481667		7.259822871		
9.021778051	9.775002406	12.25417353				
ENSG00000108829	6361.643773	6541.884172		6834.28841		
7163.722142	8193.628343	8990.42413		6579.272118		
8115.924872	-0.302976377	0.018713415		0.108425027		LRRC59
17	50375059	50397553		-	4570	
protein_coding	leucine rich repeat containing 59 [Source:HGNC					
Symbol;Acc:HGNC:28817]	-	7012	7392	5879	6915	7178
10422	75.13709341	76.64294762		80.03760908		
84.07909492	96.54607312	106.0390643				
ENSG00000233913	3103.705555	3803.709168		4175.670006		
4605.915928	4516.883164	4850.619352		3694.361576		
4657.806148	-0.33468858	0.018728078		0.108474449		
RPL10P9	5	168616352	168616996	+	645	
processed_pseudogene	ribosomal protein L10 pseudogene 9					
[Source:HGNC Symbol;Acc:HGNC:35579]	-			3421	4298	3592
4446	3957	5623	259.7299567	315.7425684		
346.4842198	383.0202958	377.097537		405.3585959		
ENSG00000132286	697.6759928	792.070662		551.021042		
994.5297551	807.0347225	1006.699766		680.255899		
936.0880812	-0.459763638	0.018748892		0.108559462		
TIMM10B	11	6481447	6484679	+	3041	protein_coding
translocase of inner mitochondrial membrane 10B [Source:HGNC						
Symbol;Acc:HGNC:4022]	-	769	895	474	960	707

1167	12.38336298	13.9454668	9.697700516	
17.5415052	14.2905964	17.84372223		
ENSG00000260123	12.70151352	15.0449176	9.299933199	
2.07193699	0	0	12.34878811	0.690645663
4.182528984	0.018758859	0.108581626	AC013565.1	15
89041223	89082819	+	597	lincRNA
uncharacterized LOC102724566	[Source:NCBI gene;Acc:102724566]			-
14	17	8	2	0
1.349276732	0.833724382	0.186152001	0	1.148371453
ENSG00000173559	533.463568	408.8677607	237.1482966	
643.3364353	502.2564044	701.3255438	393.1598751	
615.6394612	-0.645334499	0.01876681	0.108592119	NABP1
2	191678068	191696659	+	13806
protein_coding	nucleic acid binding protein 1	[Source:HGNC Symbol;Acc:HGNC:26232]		
813	2.085634204	1.585625229	0.919325158	440
2.499400053	1.958989768	2.738127674		
ENSG00000167635	2511.270674	2334.617214	2206.409151	
2119.591541	1659.729118	1744.25615	2350.76568	
1841.192269	0.352667117	0.018801431	0.108756873	ZNF146
19	36214602	36238774	+	4146
protein_coding	zinc finger protein 146	[Source:HGNC Symbol;Acc:HGNC:12931]		
2022	32.69380527	30.14893214	28.48221477	1454
27.42132116	21.55670949	22.67685753		
ENSG00000088448	1652.104009	1776.185272	1300.828156	
2201.433052	2052.402307	1895.217982	1576.372479	
2049.684447	-0.377855551	0.01881268	0.108786369	
ANKRD10 13	110878540	110915069	-	4563
protein_coding	ankyrin repeat domain 10	[Source:HGNC Symbol;Acc:HGNC:20265]		
2197	19.54286179	20.84122991	15.25760841	1798
25.87739227	24.22069377	22.38775813		
ENSG00000064933	520.7620545	418.6027074	452.2092518	
341.8696033	365.277385	195.8190633	463.8580046	
300.9886839	0.626629821	0.018888156	0.109187119	PMS1
2	189784085	189877629	+	5454
protein_coding	"PMS1 homolog 1, mismatch repair system component	[Source:HGNC Symbol;Acc:HGNC:9121]"		
330	320	227	574	473
4.437530125	3.362101728	5.153774856	4.109343524	389
ENSG00000175215	2392.420797	3.606469012	1.93527079	
2089.548454	2087.788554	2182.398048	3073.627922	
1924.69396	0.405532068	1596.744873	2549.482256	
12	57819927	0.018905021	0.109248908	CTDSP2
12	57819927	57846739	-	5442
protein_coding	CTD small phosphatase 2	[Source:HGNC Symbol;Acc:HGNC:17077]		
1851	23.72904587	2637	2466	2644
20.59488657	20.65867808	21.47143031	30.22802411	1829
ENSG00000257103	3030.218226	15.81535335	2801.604876	
		2735.520018		

2394.123192	2312.662444	2229.921932	2855.78104	
2312.235856	0.304756777	0.018928836	0.109350808	LSM14A
19	34172504	34229515	+ 4748	
protein_coding	"LSM14A, mRNA processing body assembly factor			
[Source:HGNC Symbol;Acc:HGNC:24489]"	-	3340	3091	2410
2311	2026	2585	34.44803392	30.847128
31.58007659	27.04589009	26.22865925	25.31517041	
ENSG00000143951	82.5598379	43.3647625	62.77454909	
158.5031797	118.7151501	100.0661293	62.8997165	
125.7614864	-0.999037968	0.018985208	0.109640663	WDPCP
2	63121383	63827843	- 11776	
protein_coding	WD repeat containing planar cell polarity effector			
[Source:HGNC Symbol;Acc:HGNC:28027]"	-	91	49	54
153	104	116	0.378418429	0.197162685
0.285300682	0.721947601	0.542853825	0.458027138	
ENSG00000143294	1889.803762	2070.888658	2025.060454	
2033.606155	2520.413957	3559.248701	1995.250958	
2704.422938	-0.439216298	0.01901078	0.109752507	PRCC
1	156750610	156800817	+ 4108	
protein_coding	proline rich mitotic checkpoint control factor			
[Source:HGNC Symbol;Acc:HGNC:9343]"	-	2083	2340	1742
1963	2208	4126	24.83061742	26.99055801
26.38302338	26.55228545	33.03817082	46.70138999	
ENSG00000234745	1340.916928	1985.929124	2587.706413	
1196.543612	1505.627721	1493.228187	1971.517488	
1398.466507	0.494814356	0.019051004	0.109936059	HLA-B
6	31269491	31357188	- 3051	
protein_coding	"major histocompatibility complex, class I, B			
[Source:HGNC Symbol;Acc:HGNC:4932]"	-	1478	2244	2226
1155	1319	1731	23.72252483	34.85034532
45.39309543	21.03545064	26.57357275	26.38067347	
ENSG00000130066	315.7233362	385.8578868	533.5836673	
472.4016337	799.0442797	602.9846926	411.7216301	
624.810202	-0.603037625	0.019055004	0.109936059	SAT1
X	23783173	23786226	+ 2498	
protein_coding	spermidine/spermine N1-acetyltransferase 1			
[Source:HGNC Symbol;Acc:HGNC:10540]"	-	348	436	459
456	700	699	6.822059352	8.270285384
11.43212852	10.14342103	17.22475154	13.01115228	
ENSG00000152253	644.1481858	512.4121937	542.8836005	
357.4091307	149.5354295	61.24737221	566.4813267	
189.3973108	1.581366783	0.019062856	0.109945505	SPC25
2	168834132	168913371	- 1841	
protein_coding	"SPC25, NDC80 kinetochore complex component			
[Source:HGNC Symbol;Acc:HGNC:24031]"	-	710	579	467
345	131	71	18.88570683	14.90222842
15.78228707	10.41303553	4.373859894	1.793228276	
ENSG00000106266	2166.515307	2397.45187	2029.710421	
2668.654843	2543.243793	3142.594042	2197.892532	
2784.830893	-0.341518286	0.019077555	0.109994419	SNX8



7	2251770	2354318	-	5773	protein_coding	
sorting nexin 8	[Source:HGNC Symbol;Acc:HGNC:14972]				-	2388
2709	1746	2576	2228	3643	20.25636195	
22.23483384	18.81696289		24.79455652		23.72252916	
29.34192697						
ENSG00000198720	501.7097842		570.8218738		430.1219105	
634.0127189	683.7536051		753.9465256		500.8845228	
690.5709498	-0.462419121		0.019097731		0.110032682	
ANKRD13B	17	29589769		29614761	+	3971
protein_coding	ankyrin repeat domain 13B	[Source:HGNC				
Symbol;Acc:HGNC:26363]	-	553	645	370	612	599
874	6.81952189		7.696375854		5.797071856	
8.563742077	9.272018629		10.23393287			
ENSG00000188517	0	0	2.3249833		8.287747959	
5.707459141	25.01653231		0.774994433			
13.00391314	-4.194794286		0.019098661		0.110032682	
COL25A1 4	108808725		109302752		-	8744
protein_coding	collagen type XXV alpha 1 chain	[Source:HGNC				
Symbol;Acc:HGNC:18603]	-	0	0	2	8	5
29	0	0	0.014230714		0.050838401	
0.035148534	0.154212248					
ENSG00000166326	3012.073207		2581.530862		2817.879759	
3522.292883	3499.813945		3357.391164		2803.827943	
3459.832664	-0.303274301		0.019102853		0.110032682	TRIM44
11	35662805		35818007		+	13077
protein_coding	tripartite motif containing 44	[Source:HGNC				
Symbol;Acc:HGNC:19016]	-	3320	2917	2424	3400	3066
3892	12.43250503		10.56950738		11.53270912	
14.44717179	14.41157303		13.83871374			
ENSG00000198768	811.0823636		1081.464077		1464.739479	
659.9119313	906.3445116		775.5125017		1119.095307	
780.5896482	0.519037616		0.01912705		0.110111666	
APCDD1L 20	58459101		58515131		-	3942
protein_coding	APC down-regulated 1 like	[Source:HGNC				
Symbol;Acc:HGNC:26892]	-	894	1222	1260	637	794
899	11.1057932		14.68862105		19.88661069	
8.979142337	12.38087226		10.60410672			
ENSG00000104549	2592.01601		2322.227282		2538.881763	
2083.332643	2086.647062		1745.981428		2484.375018	
1971.987044	0.333572491		0.019129015		0.110111666	SQLE
8	124998497		125022283		+	4305
protein_coding	squalene epoxidase	[Source:HGNC				
-	2857	2624	2184	2011	1828	2024
32.49868348	28.88132514		31.56358502		25.9567885	
26.10059428	21.86091676					
ENSG00000117899	1164.91024		1208.018384		1221.778724	
960.3427948	778.4974268		1004.111849		1198.235783	
914.3173568	0.389189589		0.019147806		0.110183974	MESD
15	80946289		80989878		-	7510
protein_coding	mesoderm development LRP chaperone	[Source:HGNC				

Symbol;Acc:HGNC:13520]	-	1284	1365	1051	927	682
1164	8.372473281	8.612300111		8.707021676		
6.85885846	5.582025265	7.206826411				
ENSG00000130734	371.9728961	418.6027074		544.0460921		
458.9340432	736.2622292	796.2158388		444.8738985		
663.8040371	-0.579159155	0.019161905		0.110229248		ATG4D
19	10543895	10553418		+	2278	
protein_coding	autophagy related 4D cysteine peptidase [Source:HGNC					
Symbol;Acc:HGNC:20789]	-	410	473	468	443	645
923	8.813711295	9.838612633		12.78200491		
10.80592752	17.40417154	18.83991762				
ENSG00000147168	1.814501932	1.769990306		8.137441549		
19.6834014	14.83939377	33.64292277		3.907311262		
22.72190598	-2.579818185	0.019202672		0.110367966		IL2RG
X	71107404	71112108		-	2760	
protein_coding	interleukin 2 receptor subunit gamma [Source:HGNC					
Symbol;Acc:HGNC:6010]	-	2	2	7	19	13
39	0.035485391	0.034335815		0.157795933		
0.382522127	0.28952204	0.657032032				
ENSG00000100564	408.2629347	544.2720192		255.748163		
607.077538	602.7076853	626.2759469		402.7610389		
612.0203901	-0.60125008	0.0192051		0.110367966		PIGH
14	67581955	67600287		-	2915	
protein_coding	phosphatidylinositol glycan anchor biosynthesis class					
H [Source:HGNC	Symbol;Acc:HGNC:8964]	-		450	615	220
586	528	726		7.559666526	9.996845899	
4.695598642	11.1704611	11.13378226		11.58054717		
ENSG00000130202	1543.233893	1725.740549		2329.633266		
879.5372522	1490.788328	1552.750281		1866.202569		
1307.691954	0.512406116	0.019209407		0.110367966		
NECTIN2	19	44846175	44889228	+	3747	
protein_coding	nectin cell adhesion molecule 2 [Source:HGNC					
Symbol;Acc:HGNC:9707]	-	1701	1950	2004	849	1306
1800	22.23050375	24.6591078		33.27521504		
12.59029891	21.42431001	22.33674211				
ENSG00000139197	735.7805334	905.3500416		928.8308283		
983.1341017	1259.065486	1187.853965		856.6538011		
1143.351184	-0.416905169	0.019216893		0.110367966		PEX5
12	7188685	7218574	+	5488		
protein_coding	peroxisomal biogenesis factor 5 [Source:HGNC					
Symbol;Acc:HGNC:9719]	-	811	1023	799	949	1103
1377	8.832587975	9.058150314		9.608689362		
7.23661445	11.6667759					
ENSG00000130203	144.2529036	114.1643748		115.0866733		
69.40988916	28.5372957	79.36279217		124.5013172		
59.10332568	1.069361818	0.019217216		0.110367966		APOE
19	44905754	44909393		+	2191	
protein_coding	apolipoprotein E [Source:HGNC					
Symbol;Acc:HGNC:613]	-	159	129	99	67	25
92	3.553721832	2.78980452	2.811251264	1.69919988		

0.701366456	1.952434476					
ENSG00000132434	1301.905136	1339.882662	1262.465932			
1499.046412	1642.606741	1836.558527	1301.41791			
1659.403893	-0.350746492	0.019230853	0.110373146	LANCL2		
7	55365448	55433742	+ 5235			
protein_coding	LanC like 2 [Source:HGNC Symbol;Acc:HGNC:6509]				-	
1435	1514	1086	1447	1439	2129	13.42344225
	13.70363019	12.90684177	15.35903354	16.8962944		
	18.90993315					
ENSG00000136826	166.0269268	197.3539191	146.4739479			
313.898454	227.1568738	266.555465	169.9515979			
269.2035976	-0.662178249	0.019231334	0.110373146	KLF4		
9	107484852	107490482	- 3659			
protein_coding	Kruppel like factor 4 [Source:HGNC					
Symbol;Acc:HGNC:6348]	zf-C2H2	183	223	126	303	199
309	2.449161161	2.887811851	2.142471149			
4.601424099	3.343012705	3.926694264				
ENSG00000103257	12370.36692	16956.50713	15479.73881			
14484.9115	21075.36362	24239.29453	14935.53762			
19933.18988	-0.416465736	0.019236837	0.110373146	SLC7A5		
16	87830023	87869488	- 4745			
protein_coding	solute carrier family 7 member 5 [Source:HGNC					
Symbol;Acc:HGNC:11063]	-	13635	19160	13316	13982	18463
28099	140.7173374	191.3311707	174.6000711			
163.7363575	239.1736951	275.3503708				
ENSG00000158042	1267.429599	1635.471043	1397.314963			
1640.974096	1703.105808	2476.636699	1433.405202			
1940.238868	-0.43726253	0.019259832	0.110469249	MRPL17		
11	6680782	6683401	- 2276	protein_coding		
mitochondrial ribosomal protein	L17 [Source:HGNC					
Symbol;Acc:HGNC:14053]	-	1397	1848	1202	1584	1492
2871	30.05749835	38.47300864	32.85784348			
38.6718513	40.29432877	58.65323263				
ENSG00000198160	1418.940511	1056.684213	1146.216767			
1131.277596	662.0652603	764.2981941	1207.280497			
852.547017	0.501939365	0.019308103	0.11059978	MIER1		
1	66924895	66988619	+ 8273			
protein_coding	MIER1 transcriptional regulator [Source:HGNC					
Symbol;Acc:HGNC:29657]	Others	1564	1194	986	1092	580
886	9.25768518	6.838608524	7.415163599			
7.334519333	4.309355567	4.979683214				
ENSG00000260686	52.62055603	38.93978674	55.79959919			
65.26601518	122.1396256	124.2200225	49.11998065			
103.8752211	-1.083356616	0.01931276	0.11059978			
AC008669.1	5	122832356	122834533	+ 2178		
sense_overlapping	"novel transcript, overlapping SNX2"					
-	58	44	48	63	107	144
1.304063687	0.95724089	1.371166546	1.607291758			
3.019765801	3.074224893					
ENSG00000145451	3.629003864	2.654985459	1.16249165			

29.00711786	18.26386925	7.763751407	2.482160324		
18.34491284	-2.862582	0.019316676	0.11059978	GLRA3	
4	174636914	174829314	- 9599		
protein_coding	glycine receptor alpha 3 [Source:HGNC				
Symbol;Acc:HGNC:4328]	-	4 3	1 28	16	
9	0.020406226	0.014808863	0.00648158		
0.162085469	0.102456933	0.04359609			
ENSG00000106571	2051.294434	1559.36146	2054.122745		
1601.607293	1458.826556	1244.788142	1888.259546		
1435.073997	0.396007536	0.019316914	0.11059978	GLI3	
7	41960950	42237870	- 10950		
protein_coding	GLI family zinc finger 3 [Source:HGNC				
Symbol;Acc:HGNC:4319]	zf-C2H2	2261 1762	1767 1546	1278	
1443	10.1114893	7.624620382	10.03989745		
7.845261317	7.174044973	6.127498732			
ENSG00000174343	48.0843012	40.70977704	31.38727455		
119.1363769	85.61188711	62.97265031	40.06045093		
89.24030478	-1.150369855	0.019319523	0.11059978	CHRNA9	
4	40335329	40355217	+ 3168		
protein_coding	cholinergic receptor nicotinic alpha 9 subunit				
[Source:HGNC	Symbol;Acc:HGNC:14079]	-	53 46	27	
115	75 73	0.819255527	0.68801689		
0.530255813	2.017087375	1.455202562	1.071442096		
ENSG00000103326	2189.196581	2753.219921	1954.148463		
2567.12993	2893.681784	3734.364427	2298.854989		
3065.058714	-0.414910943	0.019320104	0.11059978	CAPN15	
16	527717 554636	+ 7987	protein_coding		
calpain 15 [Source:HGNC	Symbol;Acc:HGNC:11182]	Others	2413 3111		
1681	2478 2535	4329	14.79456911	18.45622039	
13.09455896	17.2396983	19.50929786	25.20199491		
ENSG00000184108	0 2.654985459	0	9.323716454		
5.707459141	27.60444945	0.884995153			
14.21187501	-3.951704548	0.019343531	0.110698068	TRIML1	
4	188139419	188147743	+ 2113		
protein_coding	tripartite motif family like 1 [Source:HGNC				
Symbol;Acc:HGNC:26698]	-	0 3	0 9	5	
32	0 0.067274147	0	0.236676455		
0.145451387	0.704176454				
ENSG00000101882	660.4787032	687.641234	767.2444889		
929.2637399	993.0978905	865.2269624	705.1214754		
929.1961976	-0.398373964	0.019395858	0.110961621	NKAP	
X	119920672	119943772	- 7894		
protein_coding	NFKB activating protein [Source:HGNC				
Symbol;Acc:HGNC:29873]	-	728 777	660 897	870	
1003	4.516093666	4.663911894	5.201800117		
6.31404052	6.774379011	5.907923037			
ENSG00000148204	1.814501932	0 0	32.11502334	0	
12.93958568	0.604833977	15.01820301	-4.588182833		
0.019402788	0.11096538	CRB2	9	123356170	
123380324	+ 6349	protein_coding	"crumbs 2,		

cell polarity complex component [Source:HGNC Symbol;Acc:HGNC:18688]"						
-	2	0	0	31	0	15
0.015426001	0	0	0.27131163	0	0.109854272	
ENSG00000199473	0	0	0	0	34.50556181	
0	11.50185394		-6.004550384	0.019430423		
0.111087507	RF00092	7	17373201	17373326		-
126	snoRNA		-	0	0	0
0	40	0	0	0	0	0
14.76115921						
ENSG00000184677	1349.989437		1231.913253	946.268203		
1673.089119	1423.44031		1576.041536	1176.056965		
1557.523655	-0.40450011		0.019446979	0.111120818		ZBTB40
1	22428838		22531157	+	9169	
protein_coding zinc finger and BTB domain containing 40 [Source:HGNC						
Symbol;Acc:HGNC:29045] ZBTB						
1827	7.947117643		7.193557235	5.523435397		
9.787293173	8.359722108		9.265046274			
ENSG00000125319	347.47712		441.6125814	360.3724115		
228.9490374	215.7419555		314.8632515	383.1540376		
253.1847481	0.595924002		0.019448813	0.111120818		
C17orf53	17	44141906	44162476	+		3005
protein_coding chromosome 17 open reading frame 53						
[Source:HGNC Symbol;Acc:HGNC:28460]						
221	189	365	6.241413862	7.868328986		310
6.418359874	4.086578455		3.866025266	5.647801264		
ENSG00000186312	142.4384017		130.0942875	137.1740147		
199.9419195	224.8738902		228.599347	136.5689013		
217.8050522	-0.673734192		0.019456628	0.111129574		CA5BP1
X	15674932		15703724	+	2409	
transcribed_unprocessed_pseudogene carbonic anhydrase 5B						
pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:29544]						
147	118	193	197	265	3.191475655	157
2.891392003	3.047558521		4.4517683	5.026628466		
5.114934681						
ENSG00000203786	0	0.884995153	0	8.287747959		
14.83939377	5.175834272		0.294998384			
9.434325332	-4.74845321		0.019466329	0.111149092		KPRP
1	152759561		152762052	+	2492	
protein_coding keratinocyte proline rich protein [Source:HGNC						
Symbol;Acc:HGNC:31823]						
6	0	0.019014215	0	0.178383217		13
0.320658439						
ENSG00000107758	953.5207652		898.2700804	1149.704242		
1236.946383	1253.358027		1443.195123	1000.498362		
1311.166511	-0.391485992		0.019477385	0.111176337		PPP3CB
10	73436428		73496024	-	5094	
protein_coding protein phosphatase 3 catalytic subunit beta						
[Source:HGNC Symbol;Acc:HGNC:9315]						
1194	1098	1673	10.10351426	9.44133793		989
12.07936759						
13.02439113			13.24923367	15.27101903		

ENSG00000182263	230.4417454	159.2991276	130.1990648			
131.5679989	75.33846066	68.14848458	173.3133126			
91.68498136	0.921387256	0.019532705	0.111456134	FIGN		
2	163593396	163736012	-	9942		
protein_coding	"fidgetin, microtubule severing factor [Source:HGNC					
Symbol;Acc:HGNC:13285]"	-	254	180	112	127	66
79	1.251090255	0.857877321	0.700892012			
0.709809824	0.408053904	0.369474398				
ENSG00000285091	0	0	12.43162194	0		
14.66486377	0	9.032161903	-5.654330204	0.019555496		
0.1115502	AL109840.2	20	58916000			
58981169	-	1925	bidirectional_promoter_lncRNA	novel		
transcript	-	0	0	12	0	17
0	0	0	0.346387775	0	0.410628611	
ENSG00000249852	9.07250966	5.309970919	8.137441549	0		
0	0	7.506640709	0	5.340621736		
0.019578468	1	AC145676.1	7	227554	229557	-
2004	TEC	TEC	-	10	6	7
0	0	0.244360478	0.141866539	0.21732374		
0	0	0				
ENSG00000081791	1041.524109	940.7498478	1068.329826			
819.4510795	765.9410167	759.1223598	1016.867928			
781.5048187	0.379535239	0.01958097	0.11165801	DELE1		
5	141923808	141942047	+	6047		
protein_coding	DAP3 binding cell death enhancer 1 [Source:HGNC					
Symbol;Acc:HGNC:28969]"	-	1148	1063	919	791	671
880	9.296738238	8.329515424	9.45545407			
7.268562992	6.820715135	6.766650127				
ENSG00000230513	97.07585336	115.9343651	94.16182364			
140.8917153	165.5163151	231.1872641	102.3906807			
179.1984315	-0.808100004	0.01958702	0.11165801	THAP7-		
AS1	22	21001886	21010342	+	2975	
antisense	THAP7 antisense RNA 1 [Source:HGNC					
Symbol;Acc:HGNC:41013]"	-	107	131	81	136	145
268	1.761268189	2.086463379	1.693966804			
2.540177015	2.995907446	4.188696001				
ENSG00000232218	4.53625483	3.539980612	15.11239145	0		
0	0	7.729542297	0	5.377954192		
0.019625209	1	AL021937.2	22	32386668		
32386868	+	201	unprocessed_pseudogene	Ral-GDS		
related protein	Rgr (Rgr) pseudogene	-	5	4	13	
0	0	0	1.21815522	0.942953713		
4.023964508	0	0	0			
ENSG00000261061	279.4332975	291.1634054	237.1482966			
221.6972579	87.89487077	155.2750281	269.2483332			
154.9557189	0.796124356	0.019664415	0.112055953			
AC092718.4	16	81030770	81031485	+	716	
sense_intronic	novel transcript			-	308	329
204	214	77	180	21.06523836	21.772551	
17.72654068	16.60782633	6.610359258	11.68935373			

ENSG00000144354	889.1059467	888.5351337	784.6818637	
740.7174739	595.8587343	560.7153794	854.107648	
632.4305292	0.43441563	0.019669497	0.112055953	CDCA7
2	173354820	173368997	+ 3934	
protein_coding	cell division cycle associated 7	[Source:HGNC		
Symbol;Acc:HGNC:14628]	-	980 1004	675 715	522
650	12.19889248	12.09277015	10.67520599	
10.09912459	8.156118136	7.682631793		
ENSG00000198746	290.3203091	369.0429789	416.1720107	
427.8549884	473.7191087	718.5783247	358.5117662	
540.0508073	-0.593574425	0.019684107	0.112092401	
GPATCH3 1	26890488	26900466	- 2225	
protein_coding	G-patch domain containing 3	[Source:HGNC		
Symbol;Acc:HGNC:25720]	-	320 417	358 413	415
833	7.042853369	8.880399025	10.01059423	
10.31411763	11.46477251	17.40788481		
ENSG00000132591	1236.583067	1648.74597	1520.539078	
1614.038915	2067.241701	2125.542608	1468.622705	
1935.607741	-0.398537258	0.019688569	0.112092401	ERAL1
17	28854938	28861067	+ 2318	
protein_coding	Era like 12S mitochondrial rRNA	chaperone 1		
[Source:HGNC Symbol;Acc:HGNC:3424]	-	1363 1863		1308
1558	1811 2464	28.79460384	38.08253624	
35.10760141	37.34788951	48.0233419	49.42632153	
ENSG00000056558	466.3269965	427.452659	552.1835337	
507.6245625	741.9696883	836.7598739	481.9877297	
695.4513749	-0.53053292	0.019708074	0.112151641	TRAF1
9	120902393	120929173	- 6449	
protein_coding	TNF receptor associated factor 1	[Source:HGNC		
Symbol;Acc:HGNC:12031]	-	514 483	475 490	650
970	3.903007858	3.548797305	4.582559149	
4.221975869	6.19538557	6.993754374		
ENSG00000138802	1193.942271	1046.064271	1179.929025	
1675.161056	1442.845671	1317.249822	1139.978522	
1478.41885	-0.375002086	0.019711654	0.112151641	SEC24B
4	109433772	109540896	+ 5219	
protein_coding	"SEC24 homolog B, COPII coat complex component			
[Source:HGNC Symbol;Acc:HGNC:10704]"	-	1316 1182		1015
1617	1264 1527	12.34801863	10.73140587	
12.10000618	17.21609961	14.88699825	13.60450543	
ENSG00000154370	975.2947884	1116.863883	971.8430193	
1083.623046	1441.704179	1569.140423	1021.333897	
1364.822549	-0.418275103	0.019746083	0.11228744	TRIM11
1	228393673	228406840	- 8493	
protein_coding	tripartite motif containing 11	[Source:HGNC		
Symbol;Acc:HGNC:16281]	-	1075 1262	836 1046	1263
1819	6.198348972	7.040843184	6.124237155	
6.843568271	9.140913235	9.958698702		
ENSG00000248968	4.53625483	11.50493699	2.3249833	
36.25889732	26.25431205	23.29125422	6.122058373	

28.60148786	-2.204220866	0.019752585	0.11228744		
AC012640.1	5	10248325	10249915	+	688
antisense		novel transcript	-	5	13
2	35	23	27	0.355885464	0.895326327
0.180862448	2.826777656	2.054881385	1.824762486		
ENSG00000104980	1310.977646	1773.530287	1551.926353		
1652.369749	2221.343098	2286.856109	1545.478095		
2053.522985	-0.410134349	0.019760569	0.11228744		TIMM44
19	7926718	7943920	-	4888	protein_coding
translocase of inner mitochondrial membrane 44	[Source:HGNC				
Symbol;Acc:HGNC:17316]	-	1445	2004	1335	1595
2651	14.47655862	19.42642836	16.99248578		1946
18.13182563	24.47141031	25.21793661			
ENSG00000237296	484.4720158	320.3682454	355.7224449		
580.1423571	574.1703896	514.132871	386.8542354		
556.1485392	-0.522720141	0.019760914	0.11228744		SMG1P1
16	22437008	22492220	+	7046	
transcribed_unprocessed_pseudogene		SMG1	pseudogene 1	[Source:HGNC	
Symbol;Acc:HGNC:44186]	-	534	362	306	560
596	3.711310598	2.434402428	2.702001802		503
4.416288452	4.388061507	3.933096834			
ENSG00000233421	0	0	10.35968495	17.12237742	
0	0	9.160687457	-5.667045207	0.019771107	
0.112309285	LINC01783	1	16533886		
16536172	-	2068	lincRNA long intergenic non-protein		
coding RNA 1783	[Source:HGNC Symbol;Acc:HGNC:52573]			-	0
0	0	10	15	0	0
0.268696191	0.445849296	0			
ENSG00000137760	502.6170352	471.7024166	484.759018		
694.0988916	658.6407849	612.4737221	486.3594899		
655.0711329	-0.429261581	0.019933781	0.113196999		ALKBH8
11	107502726	107565746	-	4506	
protein_coding	"alkB homolog 8, tRNA methyltransferase [Source:HGNC				
Symbol;Acc:HGNC:25189]"	-	554	533	417	670
710	6.020703788	5.604830231	5.757735552		577
8.262199151	7.871037581	7.326527422			
ENSG00000174977	95.26135143	131.8642778	181.3486974		
149.1794633	292.221908	287.2588021	136.1581089		
242.8867245	-0.838387521	0.019959087	0.113304331		
AC026271.1	17	18650195	18651542	+	1348
processed_pseudogene		poly(A) binding protein interacting			
protein 1 (PAIP1) pseudogene		-	105	149	156
256	333	3.814416307	5.2374853	7.200150143	
5.935873588	11.67340177	11.48643765			
ENSG00000141577	688.6034832	738.9709529	604.4956579		
452.7182323	465.7286659	561.5780185	677.356698		
493.3416389	0.457044836	0.019968685	0.11332245		CEP131
17	81189593	81222999	-	3966	
protein_coding	centrosomal protein 131 [Source:HGNC				
Symbol;Acc:HGNC:29511]	-	759	835	520	437
					408



651	9.371686443	9.976086507	8.157507474		
6.122668848	6.323460549	7.632367909			
ENSG00000157450	811.0823636	672.5963164	854.4313627		
1125.061785	996.522366	973.9194821	779.3700142		
1031.834545	-0.405470132	0.019977856	0.11333813	RNF111	
15	58865175	59097419	+ 7181		
protein_coding	ring finger protein 111 [Source:HGNC				
Symbol;Acc:HGNC:17384]	-	894 760	735 1086	873	
1129	6.096509791	5.014817196	6.368090972		
8.403436877	7.472685027	7.31038136			
ENSG00000140538	44.45529733	22.12487883	37.1997328		
5.179842475	0	14.66486377	34.59330299	6.614902081	
2.358074493	0.02000216	0.113439631	NTRK3	15	
87859751	88256768	-	26750	protein_coding	
	neurotrophic receptor tyrosine kinase 3 [Source:HGNC				
Symbol;Acc:HGNC:8033]	-	49 25	32 5	0	
17	0.089701763	0.044283574	0.074427433		
0.010386238	0	0.029549909			
ENSG00000166173	740.3167882	800.9206136	981.1429525		
825.6668904	1496.495787	1264.62884	840.7934514		
1195.597173	-0.508434757	0.020113334	0.11403358	LARP6	
15	70829130	70854159	- 5554		
protein_coding	La ribonucleoprotein domain family member 6				
[Source:HGNC	Symbol;Acc:HGNC:24012]	-	816 905	844	
797	1311 1466	7.194704592	7.720921637		
9.45460562	7.973784416	14.5092237	12.27323678		
ENSG00000125457	229.5344944	258.4185847	244.1232465		
329.4379814	327.6081547	425.2810493	244.0254419		
360.7757285	-0.565308537	0.020132587	0.114106162	MIF4GD	
17	75266228	75271227	- 2766		
protein_coding	MIF4G domain containing [Source:HGNC				
Symbol;Acc:HGNC:24030]	-	253 292	210 318	287	
493	4.47916467	5.002154673	4.723609263		
6.388324787	6.37789083	8.287542368			
ENSG00000006757	17.23776835	10.61994184	52.31212425		
9.323716454	0 0	26.72327815	3.107905485		
3.108319843	0.020179745	0.114336259	PNPLA4 X		
7898247 7927739	- 3441	protein_coding	patatin like		
phospholipase domain containing 4 [Source:HGNC		Symbol;Acc:HGNC:24887]			
-	19 12	45 9	0 0		
0.27039435	0.165242978	0.81364449	0.145334888	0	
0					
ENSG00000101928	749.3892979	726.5810207	628.9079826		
1048.400117	848.1284283	906.6336366	701.6261004		
934.3873939	-0.41261075	0.020186112	0.114336259	MOSPD1	
X	134887626	134915267	- 2675		
protein_coding	motile sperm domain containing 1 [Source:HGNC				
Symbol;Acc:HGNC:25235]	-	826 821	541 1012	743	
1051	15.12115428	14.54272566	12.58288784		
21.0217453	17.07310014	18.26879691			

ENSG00000253846	99.79760626	76.99457832	211.5734803		
63.19407819	78.76293614	28.46708849	129.4552216		
56.80803428	1.190428881	0.020213063	0.114408653		
PCDHGA10	5	141412987	141512979	+	6643
protein_coding	"protocadherin gamma subfamily A, 10 [Source:HGNC Symbol;Acc:HGNC:8697]"				
		-	110	87	182
	61	69	33	0.810880985	0.62055666
1.70456663	0.510243671	0.638457802	0.230983366		
ENSG00000128578	456.3472359	414.1777317	244.1232465		
479.6534131	575.3118814	629.7265031	371.5494047		
561.5639325	-0.593803105	0.020217269	0.114408653		STRIP2
	7	129434433	129488399	+	5876
protein_coding	striatin interacting protein 2 [Source:HGNC Symbol;Acc:HGNC:22209]				
		-	503	468	504
	730	4.191938297	3.773901031	2.223536967	
4.378357782	5.272251384	5.776597276			
ENSG00000101189	1279.223862	1550.511508	1596.101035		
910.616307	1114.096024	1294.821207	1475.278802		
1106.511179	0.414142454	0.020221262	0.114408653		MRGBP
	20	62796453	62801738	+	2781
protein_coding	MRG domain binding protein [Source:HGNC Symbol;Acc:HGNC:15866]				
		-	1410	1752	976
	1501	24.82828988	29.85104601	30.71683006	
17.56304968	21.57228697	25.09635919			
ENSG00000271936	65.32206955	61.06466557	45.33717435		
35.22292883	5.707459141	13.80222472	57.24130315		
18.24420423	1.64901586	0.020224764	0.114408653		
AC012073.1	2	24825610	24826717	+	1108
antisense	"novel transcript, antisense to ADCY3"				
		-	72	69	
	72	69	39	34	5
	2.950772798	2.189937363	1.705105284	0.277381571	
	0.671446231				
ENSG00000105229	762.9980624	854.0203228	881.1686706		
961.3787633	1068.436351	1285.332177	832.7290186		
1105.049097	-0.409179463	0.020231303	0.114409054		PIAS4
	19	4007646	4039386	+	3646
protein_inhibitor_of_activated_STAT_4	[Source:HGNC Symbol;Acc:HGNC:17002] zf-MIZ				
		-	841	965	936
	1490	11.29556646	12.54114213	12.93479017	
14.14305908	15.77998349	19.00205725			
ENSG00000277149	38.10454057	38.93978674	40.68720775		
103.5968495	62.78205055	87.98918262	39.24384502		
84.78936089	-1.113286845	0.020255727	0.114510566		TYW1B
	7	72558744	72828198	-	3258
protein_coding	tRNA-yW synthesizing protein 1 homolog B [Source:HGNC Symbol;Acc:HGNC:33908]				
		-	42	44	55
	102	0.63128707	0.639923468	0.668380562	
1.705536286	1.037669304	1.455727579			
ENSG00000111052	25.40302705	25.66485944	45.33717435		
11.39565344	6.848950969	0	32.13502028	6.081534804	

2.417395742	0.020270268	0.114556154	LIN7A	12
80792520	80937925	-	6795	protein_coding
"lin-7 homolog A, crumbs cell polarity complex component				
[Source:HGNC Symbol;Acc:HGNC:17787]"				
11	6	0	28	29 39
0.357093539	0.08995292	0.054276164	0	0.202225062
ENSG00000272566	3.629003864	4.424975766	0	23.82727538
15.98088559	18.978059	2.684659877	19.59540666	
-2.831092825	0.020302063	0.114676991	AF250324.1	
4	189703881	189704490	-	610
lincRNA novel transcript	-	4	5	0 23
14	22	0.321113704	0.388388722	0
2.095125509	1.410735389	1.67696448		
ENSG00000198056	628.7249194	551.3519804	491.7339679	
414.387398	453.1722558	232.9125422	557.2702892	
366.8240653	0.606152136	0.020304615	0.114676991	PRIM1
12	56731596	56752373	-	2437
protein_coding	DNA primase subunit 1 [Source:HGNC			
Symbol;Acc:HGNC:9369]	-	693	623	423 400 397
270	13.92535864	12.11320196	10.7992025	
9.120455019	10.01341782	5.151565821		
ENSG00000122870	638.70468	438.0726008	657.9702738	
530.4158694	329.8911383	208.758649	578.2491849	
356.3552189	0.699173179	0.020340283	0.114841767	BICC1
10	58513140	58831437	+	6569
protein_coding	BicC family RNA binding protein 1 [Source:HGNC			
Symbol;Acc:HGNC:19351]	-	704	495	566 512 289
242	5.248099748	3.570527463	5.360731012	
4.33094574	2.704244413	1.712959608		
ENSG00000179965	201.4097144	277.0034829	189.4861389	
375.0205952	328.7496465	314.0006125	222.6331121	
339.2569514	-0.605556245	0.020363872	0.114938269	ZNF771
16	30407297	30431108	+	5637
protein_coding	zinc finger protein 771 [Source:HGNC			
Symbol;Acc:HGNC:29653]	zf-C2H2	222	313	163 362 288
364	1.92856208	2.631011483	1.799063184	
3.568392183	3.140449493	3.002509339		
ENSG00000074582	476.3067571	579.6718253	490.5714763	
570.8186407	741.9696883	856.600572	515.5166862	
723.1296337	-0.488416084	0.020379364	0.114958389	BCS1L
2	218658764	218663443	+	3379
protein_coding	"BCS1 homolog, ubiquinol-cytochrome c reductase			
complex chaperone [Source:HGNC	Symbol;Acc:HGNC:1020]"	-		525
655	422	551	650	993 7.608513143
9.185008214	7.770180469	9.060985819	11.82422064	
13.66444745				
ENSG00000031691	723.0790199	612.416646	640.5328991	
445.4664528	575.3118814	383.8743751	658.6761883	
468.2175698	0.494235648	0.020380435	0.114958389	CENPQ
6	49463378	49493107	+	1733

protein_coding	centromere protein Q [Source:HGNC					
Symbol;Acc:HGNC:21347]	-	797	692	551	430	504
445	22.52104001	18.9205594	19.78153017			
13.78738606	17.87636996	11.93967393				
ENSG00000142751	1337.287924	1491.216833	1131.104375			
1524.945624	1792.14217	1833.107971	1319.869711			
1716.731922	-0.378633326	0.020392161	0.114987864			GPN2
1	26876133	26890297	-	4979		
protein_coding	GPN-loop GTPase 2 [Source:HGNC					
Symbol;Acc:HGNC:25513]	-	1474	1685	973	1472	1570
14.49719701	16.03556327	12.15843173	16.42773647			
19.38228103	19.84485026					
ENSG00000078687	518.9475525	442.4975766	509.1713427			
381.2364061	323.0421874	343.33034	490.2054906			
349.2029778	0.488741675	0.020404467	0.115020593			TNRC6C
17	77959240	78108835	+	11111		
protein_coding	trinucleotide repeat containing 6C [Source:HGNC					
Symbol;Acc:HGNC:29318]	-	572	500	438	368	283
398	2.520992564	2.132275405	2.452606131			
1.840376651	1.565599407	1.665562532				
ENSG00000151092	873.6826802	908.0050271	741.6696726			
1198.615549	1082.134253	1029.128381	841.1191267			
1103.292728	-0.390341812	0.020428221	0.115088734			NGLY1
3	25718944	25790039	-	8326		
protein_coding	N-glycanase 1 [Source:HGNC					
Symbol;Acc:HGNC:17646]	-	963	1026	638	1157	948
5.663938957	5.838985477	4.767504578	7.721630151			
6.998730831	6.662466759					
ENSG00000253954	73.48732824	36.28480128	79.04943219			
30.04308635	15.98088559	25.01653231	62.94052057			
23.68016809	1.404873037	0.020429568	0.115088734			
HMG1P38	15	92711808	92712110	+		303
processed_pseudogene	high mobility group nucleosome binding					
domain 1 pseudogene 38 [Source:HGNC	Symbol;Acc:HGNC:39422]					-
81	41	68	29	14	29	13.09094728
6.411618437	13.96281972	5.318233643	2.840094347			
4.450270276						
ENSG00000187079	4418.312204	2765.609853	3500.262358			
3208.394429	2449.641463	2267.015411	3561.394805			
2641.683768	0.431104774	0.020475092	0.115252185			TEAD1
11	12674591	12944483	+	10279		
protein_coding	TEA domain transcription factor 1 [Source:HGNC					
Symbol;Acc:HGNC:11714]	TEA	4870	3125	3011	3097	2146
2628	23.20100399	14.4054091	18.22496639			
16.741809	12.83294142	11.88791012				
ENSG00000235897	41.73354444	16.81490791	13.9498998			
48.69051926	66.20652603	82.81334835	24.16611738			
65.90346455	-1.441841778	0.020476315	0.115252185			
TM4SF19-AS1	3	196318330	196325570	+		2136
antisense	TM4SF19 antisense RNA 1 [Source:HGNC					

Symbol;Acc:HGNC:41085]	-	46	19	12	47	58
96	1.054593929	0.421481768		0.349531921		
1.222668302	1.669068287	2.08978209				
ENSG00000205758	541.6288267	521.2621452		588.2207748		
724.1419779	838.9964937	665.957343		550.3705822		
743.0319382	-0.432841461	0.020478129		0.115252185		CRYZL1
21	33589341	33643926		-	6177	
protein_coding	crystallin zeta like 1 [Source:HGNC					
Symbol;Acc:HGNC:2420]	-	597	589	506	699	735
772	4.732879129	4.518186299		5.096590755		
6.287986752	7.314036073	5.811265494				
ENSG00000223496	2111.172998	2416.921763		2016.923013		
2758.784102	2450.782955	3095.148894		2181.672591		
2768.23865	-0.343591909	0.020512443		0.115408588		EXOSC6
16	70246778	70251930		-	5153	
protein_coding	exosome component 6 [Source:HGNC					
Symbol;Acc:HGNC:19055]	-	2327	2731	1735	2663	2147
3588	22.11387877	25.11238717		20.94817452		
28.71594201	25.61057105	32.37600885				
ENSG00000131737	0	0		3.48747495		8.287747959
1.141491828	42.26931322	1.16249165				
17.232851	-3.987289502	0.020554915		0.115610775		KRT34
17	41377650	41382403		-	1751	
protein_coding	keratin 34 [Source:HGNC					
Symbol;Acc:HGNC:6452]	-					
0	0	3	8	1	49	0
0.106596257	0.253872631	0.035104372		1.301190704		
ENSG00000147804	0	0		34.18696033		0
0	11.39565344	-5.985460343		0.020566215		
0.115631335	SLC39A4 8	144409742		144416895		-
5033	protein_coding	solute carrier family 39 member 4				
[Source:HGNC	Symbol;Acc:HGNC:17129]	-		0	0	0
33	0	0		0		0.364333456
0	0					
ENSG00000103145	705.8412515	1011.54946		888.1436205		
1045.292211	1180.30255	1274.980509		868.511444		
1166.858424	-0.426312197	0.020571644		0.115631335		
HCFC1R1 16	3022620 3024286	-	1433	protein_coding	host	
cell factor C1 regulator 1 [Source:HGNC	Symbol;Acc:HGNC:21198]	-				
778	1143	764	1009	1034	1478	26.58655645
37.79431521	33.17065251		39.12524044			44.35286806
47.95780106						
ENSG00000136816	1011.584827	1120.403864		967.1930527		
1403.737311	1273.90488	1293.095929		1033.060581		
1323.579373	-0.357029902	0.020588539		0.11568954		TOR1B
9	129803153	129811281		+	2911	
protein_coding	torsin family 1 member B [Source:HGNC					
Symbol;Acc:HGNC:11995]	-	1115	1266	832	1355	1116
1499	18.7569122	20.60715041		17.78230142		
25.86480053	23.56510338	23.94365496				
ENSG00000162194	71.67282631	77.87957347		38.36222445		

118.1004084	120.9981338	131.1211349	62.63820808	
123.406559	-0.972697371	0.020604694	0.115743545	LBHD1
11	62662817	62672255	- 3362	
protein_coding	LBH domain containing 1 [Source:HGNC			
Symbol;Acc:HGNC:28351]	-	79 88	33 114	106
152	1.150689276	1.240256192	0.61069319	
1.884166101	1.938007781	2.102213869		
ENSG00000101040	1871.658743	1434.577143	1893.698898	
1475.219137	1292.168749	1209.419941	1733.311595	
1325.602609	0.386729028	0.020617646	0.115779538	ZMYND8
20	47209214	47356889	- 7625	
protein_coding	zinc finger MYND-type containing 8 [Source:HGNC			
Symbol;Acc:HGNC:9397]	-	2063 1621	1629 1424	1132
1402	13.24915142	10.07324989	13.29193115	
10.37724774	9.125442628	8.549469823		
ENSG00000102753	3663.479401	3118.72292	3086.41533	
3960.507556	4089.96522	4120.826719	3289.539217	
4057.099832	-0.302408836	0.020626663	0.11579341	KPNA3
13	49699307	49792921	- 4474	
protein_coding	karyopherin subunit alpha 3 [Source:HGNC			
Symbol;Acc:HGNC:6396]	-	4038 3524	2655 3823	3583
4777	44.19763371	37.3221248	36.92116467	
47.48105519	49.22641273	49.6466878		
ENSG00000064687	51.71330506	57.52468495	61.61205744	
26.93518087	14.83939377	0	56.95001582 13.92485821	
2.042538429	0.020658932	0.11593777	ABCA7 19	
1040101	1065572 +	8367	protein_coding ATP binding	
cassette subfamily A member 7 [Source:HGNC	Symbol;Acc:HGNC:37]			-
57	65 53	26 13	0 0.333605936	
0.368103569	0.39410591	0.172669497	0.095503864	
0				
ENSG00000130684	47.17705023	61.06466557	29.06229125	
45.58261378	131.2715602	146.6486377	45.76800235	
107.8342706	-1.232346798	0.020672494	0.115977085	ZNF337
20	25674215	25696841	- 3823	
protein_coding	zinc finger protein 337 [Source:HGNC			
Symbol;Acc:HGNC:15809]	zf-C2H2	52 69	25 44	115
170	0.666082048	0.855206974	0.406857716	
0.639529264	1.849016993	2.06764341		
ENSG00000153048	520.7620545	660.2063842	752.1320975	
405.0636815	518.23729	446.8470255	644.3668454	
456.715999	0.496191453	0.02071328	0.116146938	
CARHSP1 16	8852942 8869012	- 5577	protein_coding	
calcium regulated heat stable protein 1 [Source:HGNC	Symbol;Acc:HGNC:17150]			
518	5.040109031	6.338180804	7.217893717	454
3.895723782	5.003830254	4.318770571		
ENSG00000171931	0 0	0	3.107905485 25.11282022	
0	0	9.406908568	-5.70430182 0.020715902	
0.116146938	FBXW10	17	18744024 18779349	

	+	4390	protein_coding	F-box and WD repeat domain			
containing 10	[Source:HGNC Symbol;Acc:HGNC:1211]				-	0	
0	0	3	22	0	0	0	0
0.037972464		0.308038869	0				
ENSG00000202474	29.93928188		22.12487883		32.5497662		
55.94229872	50.22564044		101.7914073		28.2046423		
69.31978217	-1.303946463		0.020767836		0.116401218		
RNA5SP283	9	62802320		62802438	-		119
	rRNA_pseudogene	"RNA, 5S ribosomal pseudogene 283					[Source:HGNC
Symbol;Acc:HGNC:43183]"	-	33	25	28	54	44	
118	13.57987155		9.954500852		14.6392193		
25.21499243	22.72757373		46.10691493				
ENSG00000026950	175.0994364		153.9891566		260.3981296		
119.1363769	65.06503421		136.2969692		196.4955742		
106.8327934	0.873209931		0.020803377		0.116563035		BTN3A1
6	26402237		26415216		+ 5547		
protein_coding	butyrophilin subfamily 3 member A1						[Source:HGNC
Symbol;Acc:HGNC:1138]"	-	193	174	224	115	57	
158	1.703836143		1.486337802		2.512445785		
1.151997981	0.631631892		1.324432835				
ENSG00000085721	1419.847762		1309.792827		1143.891783		
1737.319166	1638.040773		1572.59098		1291.177457		
1649.316973	-0.352404203		0.020811592		0.116563035		RRN3
16	15060022		15094317		- 4156		
protein_coding	"RRN3 homolog, RNA polymerase I transcription factor						[Source:HGNC
Symbol;Acc:HGNC:30346]"	-	1565	1480	984			
1677	1435	1823	18.44027895		16.87378912		
14.73080248	22.42175317		21.22382824		20.3958659		
ENSG000000204568	1896.154519		1989.469104		2137.822144		
2414.842562	2481.603234		2553.411574		2007.815256		
2483.28579	-0.307013062		0.020816475		0.116563035		
MRPS18B 6	30617709		30626395		+ 1888		
protein_coding	mitochondrial ribosomal protein S18B						[Source:HGNC
Symbol;Acc:HGNC:14516]"	-	2090	2248	1839	2331	2174	
2960	54.2091977		56.41839898		60.6019482		
68.60445636	70.77907946		72.8988604				
ENSG000000132003	329.3321007		421.2576929		478.9465598		
287.9992416	301.3538426		242.4015717		409.8454511		
277.251552	0.563952578		0.020871949		0.116836679		ZSWIM4
19	13795460		13832230		+ 4713		
protein_coding	zinc finger SWIM-type containing 4						[Source:HGNC
Symbol;Acc:HGNC:25704]"	-	363	476	412	278	264	
281	3.771706314		4.785595131		5.438844258		
3.277626028	3.443133385		2.772297915				
ENSG000000147255	5.443505796		9.734946684		6.974949899		0
0	0	7.38446746	0	5.318057279			
0.020879221	1	IGSF1 X		131273506		131578899	
-	7051	protein_coding					immunoglobulin superfamily
member 1	[Source:HGNC Symbol;Acc:HGNC:5948]"	-	6	11			
6	0	0	0	0.041670549		0.073921098	

0.052942858	0	0	0			
ENSG00000133812	926.3032363	768.1757929	1192.716433			
795.6238041	672.3386868	608.1605269	962.3984873			
692.0410059	0.475107699	0.020976461	0.117384569	SBF2		
11	9778667	10294207	-	16767	protein_coding	
	SET binding factor 2 [Source:HGNC Symbol;Acc:HGNC:2135] -					
1021	868	1026	768	589	705	2.981941103
	2.452961894	3.807139962	2.545176469	2.159271689		
	1.95508107					
ENSG00000131351	432.7587108	589.406772	440.5843353			
317.0063594	255.6941695	408.0282684	487.5832727			
326.9095991	0.575264441	0.02100528	0.117497621	HAUS8		
19	17049729	17075625	-	5533		
	protein_coding HAUS augmin like complex subunit 8 [Source:HGNC Symbol;Acc:HGNC:30532] -					
473	4.221690511	5.703481009	4.261724648	379	306	224
3.073072455	2.488483172	3.974948339				
ENSG00000111912	397.3759231	371.6979643	356.8849365			
563.5668612	518.23729	477.9020311	375.319608			
519.9020608	-0.469168223	0.021009948	0.117497621	NCOA7		
6	125781161	125932030	+	7820		
	protein_coding nuclear receptor coactivator 7 [Source:HGNC Symbol;Acc:HGNC:21081] -					
554	2.742812001	2.544889783	2.442521915	307	544	454
3.865486762	3.568588405	3.294079147				
ENSG00000225806	3.629003864	0.884995153	1.16249165			
18.64743291	20.54685291	8.626390453	1.892163556			
15.94022542	-3.057506433	0.02102452	0.11754195			
AL121917.1	20	58863528	58888809	-	1521	
	antisense uncharacterized LOC101927932 [Source:NCBI gene;Acc:101927932] -					
10	0.128783274	0.03115281	0.040905116	1	18	18
0.657590204	0.727429068	0.305704481				
ENSG00000185567	1033.35885	1045.179276	873.0312291			
1635.794253	1133.501385	1199.068273	983.8564517			
1322.787971	-0.426450962	0.02106265	0.117717917	AHNAK2		
14	104937244	104978357	-	18771		
	protein_coding AHNAK nucleoprotein 2 [Source:HGNC Symbol;Acc:HGNC:20125] -					
1390	2.971426539	2.981185009	2.489197602	751	1579	993
4.674194327	3.251690476	3.443169548				
ENSG00000116996	0.907250966	0	1.16249165	0		
33.10326302	9.489029498	0.689914205				
14.19743084	-4.401422807	0.021082295	0.117790499	ZP4		
1	237877864	237890922	-	2474		
	protein_coding zona pellucida glycoprotein 4 [Source:HGNC Symbol;Acc:HGNC:15770] -					
11	0.019793791	0	0.025148214	1	0	29
0.720519374	0.20673976					
ENSG00000158373	100.7048572	100.8894475	117.4116566			



174.0427071	173.5067579	182.0168386	106.3353204		
176.5221012	-0.733169663	0.021114663	0.117934094		
HIST1H2BD	6	26158146	26171349	+	871
protein_coding	histone cluster 1 H2B family member d				
[Source:HGNC Symbol;Acc:HGNC:4747]	-	111	114		101
168	152	211	6.240702895	6.201734033	
7.214563585	10.71773884		10.72686446	11.26406942	
ENSG00000101544	1395.351986		1282.357977	1199.691383	
1506.298192	1689.407906		1732.179203	1292.467115	
1642.628433	-0.34558396	0.021143696	0.118058976		ADNP2
18	80109031	80147523	+	5893	
protein_coding	ADNP homeobox 2	[Source:HGNC Symbol;Acc:HGNC:23803]			
Others	1538	1449	1032	1454	1480 2008
12.78052158	11.65087077		10.8955737	13.71008064	
15.43734587	15.84376111				
ENSG00000127452	449.0892282	543.387024		514.9838009	
425.7830514	333.3156138	285.533524		502.4866844	
348.2107297	0.529979035	0.021167896		0.118156807	FBXL12
19	9810267	9827816	-	2913	protein_coding F-box
and leucine rich repeat protein 12	[Source:HGNC				
Symbol;Acc:HGNC:13611]	-	495	614	443	411 292
331	8.321342505	9.987443313		9.46171992	
7.839951588	6.161546453	5.283461259			
ENSG00000149927	3.629003864	3.539980612	0	24.86324388	
14.83939377	15.52750281	2.389661492		18.41004682	
-2.907512509	0.021174866	0.118158423		DOC2A	16
30005509	30023270	-	6426	protein_coding	
double C2 domain alpha	[Source:HGNC Symbol;Acc:HGNC:2985]				
-	4	4	0	24	13 18
0.030482315	0.029494817	0	0.207530802	0.124351203	
0.130245522					
ENSG00000104976	861.8884177	993.849557		1105.529559	
1190.327801	1230.528191	1467.349016		987.0891779	
1296.068336	-0.394088506	0.021190411		0.118207877	SNAPC2
19	7920316	7923250	+	2000	protein_coding small
nuclear RNA activating complex polypeptide 2	[Source:HGNC				
Symbol;Acc:HGNC:11135]	-	950	1123	951	1149 1078
1701	23.26067392	26.60579261		29.58403229	
31.92288083	33.1311206	39.5462526			
ENSG00000262370	6.350756762	5.309970919		10.46242485	0
0	0	7.374384177	0	5.313066279	
0.021207893	1	AC108134.3	16	3076911	3087100 -
1326	lincRNA uncharacterized LOC105371058	[Source:NCBI			
gene;Acc:105371058]	-	7	6	9	0 0
0	0.258513483	0.214404634		0.422285172	0
0	0				
ENSG00000260641	10.88701159	15.92991276	0	0	0
0	8.938974783	0	5.597586726	0.021238922	
0.118441136	AC114811.2	4		98658904	
98664550	+	5647	antisense	"novel transcript,	

antisense TSPAN5"	-	12	18	0	0	0
0	0.104061994	0.151036237	0	0	0	0
0						
ENSG00000284726	18.14501932	18.58489822	12.78740815	0		
0	4.313195226	16.50577523	1.437731742			
3.447943707	0.02126486	0.11854841	AL109936.6			1
23297797	23302866	+	604	lincRNA	novel	
transcript	-	20	21	11	0	5
1.621517875	1.647436929	1.133085268	0	0	0	0
0.384914334						
ENSG00000116793	1554.120905	1397.407347	1317.103039			
1276.313186	1013.644743	973.9194821	1422.877097			
1087.959137	0.387733328	0.021305345	0.118714448			PHTF1
1	113696831	113759489	-	7170		
protein_coding	putative homeodomain transcription factor 1					
[Source:HGNC Symbol;Acc:HGNC:8939]		-	1713	1579		1133
1232	888	1129	11.69948893	10.434927		
9.831450587	9.547806214	7.61274303	7.321596728			
ENSG00000137221	784.7720856	926.5899253	913.7184368			
942.7313304	1122.086467	1550.162364	875.0268159			
1204.993387	-0.462598832	0.021308066	0.118714448			TJAP1
6	43477523	43506556	+	6741		
protein_coding	tight junction associated protein 1 [Source:HGNC					
Symbol;Acc:HGNC:17949]	-	865	1047	786	910	983
1797	6.283772653	7.359508231	7.254459584			
7.501171741	8.963477876	12.39523509				
ENSG00000139921	2336.171237	2275.322539	2011.110554			
2089.548454	1486.22236	1472.52485	2207.534777			
1682.765222	0.39197534	0.021326322	0.11877875			TMX1
14	51240162	51257546	+	4499		
protein_coding	thioredoxin related transmembrane protein 1					
[Source:HGNC Symbol;Acc:HGNC:15487]		-	2575	2571		1730
2017	1302	1707	28.02785898	27.07774689		
23.92417423	24.91161874	17.78862383	17.64202959			
ENSG00000143196	35.38278767	23.89486913	30.2247829			0
12.55641011	0	29.83414657	4.185470037			
2.870516968	0.021393097	0.119113156	DPT	1		
168695459	168729264	-	1786	protein_coding		
dermatopontin [Source:HGNC Symbol;Acc:HGNC:3011]		-				39
27	26	0	11	0	1.069330209	
0.71632276	0.905729973	0	0.378580805	0		
ENSG00000233589	9.979760626	16.81490791	0	0	0	0
0	8.931556178	0	5.596416401	0.021406924		
0.119152635	AL138789.1	1	68479129			
68483539	+	960	antisense	novel transcript		
-	11	19	0	0	0	0
0.561112748	0.937796934	0	0	0	0	
ENSG00000269834	9.979760626	14.15992245	34.8747495			
59.05020421	38.81072216	73.32431885	19.67147752			
57.06174841	-1.553101222	0.02142674	0.11922542			

ZNF528-AS1	19	52388842	52397766	-	4160
processed_transcript		ZNF528 antisense RNA 1		[Source:HGNC	
Symbol;Acc:HGNC:51305]	-	11	16	30	57
85	0.129487557	0.182243939	0.448677995		34
0.761366158	0.5023807	0.950072206			
ENSG00000170876	3258.84547	3647.065026	3450.275217		
4245.398892	4379.904145	4012.996839	3452.061904		
4212.766625	-0.287166089	0.021454489	0.119342281		TMEM43
3	14124940	14143679	+	3572	
protein_coding	transmembrane protein 43			[Source:HGNC	
Symbol;Acc:HGNC:28472]	-	3592	4121	2968	4098
4652	49.24402706	54.66603878	51.69628001		3837
63.7488783	66.0279341	60.55629193			
ENSG00000285517	170.5631816	124.7843166	137.1740147		
326.3300759	196.3365944	200.1322585	144.1738376		
240.9329763	-0.740139987	0.021495947	0.119535303		
LINC00941	12	30795458	30879268	+	18914
lincRNA long intergenic non-protein coding RNA 941					
[Source:NCBI gene;Acc:100287314]		-	188	141	118
315	172	232	0.486746848	0.353233731	
0.388155254	0.925420707	0.558975049	0.570342347		
ENSG00000171530	1105.938928	1300.942875	1493.80177		
940.6593934	997.6638578	1041.205328	1300.227858		
993.1761929	0.387768385	0.021503716	0.119540927		TBCA
5	77691166	77868780	-	3058	
protein_coding	tubulin folding cofactor A			[Source:HGNC	
Symbol;Acc:HGNC:11579]	-	1219	1470	1285	908
1207	19.52067847	22.77751254	26.14402759		874
16.49910594	17.5679591	18.35273557			
ENSG00000105997	21.77402318	12.38993214	26.73730795		
2.07193699	0	6.038473317	20.30042109	2.703470102	
2.863399667	0.021514525	0.11956344	HOXA3	7	
27106184	27152581	-	4306	protein_coding	
homeobox A3 [Source:HGNC Symbol;Acc:HGNC:5104]			Homeobox		
24	14	23	2	0	7
0.15405665	0.332323197	0.025808812	0	0.272939191	
0.075588379					
ENSG00000205403	4.53625483	7.079961225	10.46242485	0	
0	0	7.359546968	0	5.31027471	
0.021547682	1	CFI	4	109740694	109802179
-	4875	protein_coding	complement factor I		
[Source:HGNC Symbol;Acc:HGNC:5394]		-	5	8	9
0	0	0	0.050225477	0.077757414	
0.114861567	0	0	0		
ENSG00000174738	1392.630233	1054.914223	1075.304776		
1112.630164	760.2335576	571.067048	1174.283077		
814.6435897	0.528440572	0.02156116	0.119784976		NR1D2
3	23945260	23980618	+	5820	
protein_coding	nuclear receptor subfamily 1 group D member 2				
[Source:HGNC Symbol;Acc:HGNC:7963]		THR-like		1535	1192

	925	1074	666	662	12.9155849	9.704646301	
	9.888390181		10.25400064		7.033939114	5.288908126	
ENSG0000091483	2521.250434			2395.681879		2921.341516	
2083.332643	2175.683424			2010.811615		2612.757943	
2089.942561	0.321869619			0.021605687		0.119994659	FH
1	241497603			241519761		- 2142	
protein_coding	fumarate hydratase [Source:HGNC Symbol;Acc:HGNC:3700]						
-	2779	2707		2513	2011	1906	2331
63.53276606	59.8818529			72.99277399		52.16805532	
54.69539839	50.60038546						
ENSG00000165669	909.9727189			826.585473		982.3054442	
707.566482	678.0461459			690.1112362		906.2878787	
691.9079547	0.388730342			0.021616342		0.120016155	
FAM204A 10	118297930			118342328		- 15018	
protein_coding	family with sequence similarity 204 member A						
[Source:HGNC Symbol;Acc:HGNC:25794]	-			-		1003	934
683	594	800		3.270525326		2.946871625	845
3.50067228	2.52708964			2.431205699		2.476902464	
ENSG00000149262	1250.191831			1026.594378		1156.679192	
1449.319924	1342.39439			1640.739464		1144.488467	
1477.484593	-0.36905938			0.021652575		0.120179603	INTS4
11	77878720			77994678		- 6074	
protein_coding	integrator complex subunit 4 [Source:HGNC						
Symbol;Acc:HGNC:25048]	-			1378	1160	995	1399
1902	11.10972			9.049188657		10.19189967	1176
12.79837911	11.90090242			14.56017997			
ENSG00000167107	542.5360777			582.3268108		602.1706746	
473.4376022	416.6445173			357.1325647		575.6778544	
415.7382281	0.470209475			0.021660399		0.120185317	ACSF2
17	50426158			50474845		+ 5797	
protein_coding	acyl-CoA synthetase family member 2 [Source:HGNC						
Symbol;Acc:HGNC:26101]	-			598	658	518	457
414	5.05157223			5.378349669		5.559468911	365
4.380512696	3.87023133			3.320687894			
ENSG00000152133	895.4567034			634.5415248		742.8321643	
628.8328764	478.285076			530.5230128		757.6101308	
545.8803218	0.472668746			0.021716548		0.120453714	
GPATCH11	2	37084451		37099244		+ 4040	
protein_coding	G-patch domain containing 11 [Source:HGNC						
Symbol;Acc:HGNC:26768]	-			987	717	639	607
615	11.96367127			8.409384913		9.840707872	419
8.348709883	6.374997489			7.078231602			
ENSG00000071859	2628.306048			3194.832503		3359.600868	
3213.574271	3886.779675			4960.17451		3060.91314	
4020.176152	-0.393722515			0.021722389		0.120453714	FAM50A
X	154444126			154450654		+ 2567	
protein_coding	family with sequence similarity 50 member A						
[Source:HGNC Symbol;Acc:HGNC:18786]	-			-		2897	3610
3102	3405	5750		55.26514452		66.63582425	2890
70.04527113	67.14720942			81.53397348		104.1532903	

ENSG00000138771	241.328757		229.2137447		242.9607548		
197.8699825	93.60232991		130.2584958		237.8344188		
140.5769361	0.757496488		0.021763527		0.120641071		
SHROOM3 4	76435100		76783253		+	13958	
protein_coding	shroom family member 3 [Source:HGNC						
Symbol;Acc:HGNC:30422]	-		266	259	209	191	82
151	0.933226637		0.879231038		0.931600984		
0.760365173	0.361108756		0.503019442				
ENSG00000169551	15.42326642		2.654985459		4.6499666		0
0	0	7.576072827	0		5.356303036		
0.02176563	1	CT55	X	135156536		135171398	
-	1732	protein_coding cancer/testis antigen 55					
[Source:HGNC Symbol;Acc:HGNC:26047]	-		17	3			4
0	0	0	0.480650853		0.082072905		
0.143687487	0	0	0				
ENSG00000158417	3697.954937		2983.318661		3003.878423		
2729.776984	2424.528643		2566.35116		3228.384007		
2573.552262	0.327143092		0.021769817		0.120641071		EIF5B
2	99337353		99401326		+	7883	
protein_coding	eukaryotic translation initiation factor 5B						
[Source:HGNC Symbol;Acc:HGNC:30793]	-		4076	3371			2584
2635	2124	2975	25.3204449		20.26252981		
20.39425426	18.5738159		16.56190717		17.54795296		
ENSG00000156475	4.53625483		0.884995153		18.5998664		0
0	0	8.007038794	0		5.427390316		
0.021782397	0.120672977		PPP2R2B 5		146581146		
147084784	-	13206	protein_coding protein phosphatase 2				
regulatory subunit Bbeta [Source:HGNC Symbol;Acc:HGNC:9305]	-						
5	1	16	0	0	0	0.018540754	
0.003588022	0.075379896		0		0		
ENSG00000260398	19.05227029		8.849951531		17.43737475		
34.18696033	31.96177119		75.04959694		15.11319886		
47.06610949	-1.646783688		0.02180963		0.12078602		
AC068700.1	8	78605952	78609705		+	3754	
sense_overlapping	"novel transcript, overlapping to						
PKIA"	-	21	10	15	33	28	87
0.273938902	0.126221162		0.248601553		0.488463048		
0.458470212	1.077596079						
ENSG00000111832	942.6337537		829.2404585		914.8809285		
668.1996792	659.7822767		724.616798		895.5850469		
684.1995846	0.387750393		0.021825618		0.120791692		RWDD1
6	116571367		116597675		+	5909	
protein_coding	RWD domain containing 1 [Source:HGNC						
Symbol;Acc:HGNC:20993]	-		1039	937	787	645	578
840	8.610537077		7.513668699		8.286432347		
6.065376556	6.012584717		6.609921689				
ENSG00000155265	320.259591		264.6135508		420.8219773		
11.39565344	143.8279703		87.98918262		335.2317063		
81.07093547	2.048403081		0.021827837		0.120791692		
GOLGA7B 10	97850239		97871580		+	6458	

protein_coding	golgin A7 family member B [Source:HGNC					
Symbol;Acc:HGNC:31668]	-	353	299	362	11	126
102	2.676734819	2.193812913	3.487525377			
0.094646964	1.199277994	0.734400813				
ENSG00000215838	0	0	0	6.848950969		
19.84069804	0	8.89654967	-5.632820877	0.02183114		
0.120791692	AL451074.1	1	165698750			
165709968	+	1854	transcribed_processed_pseudogene			
	carbonic anhydrase 14 pseudogene [Source:NCBI gene;Acc:440700]					
-	0	0	0	0	6	23
0	0	0	0.198924777	0.576831707		
ENSG00000183527	1570.451422	1493.871818	1550.763861			
1452.42783	1063.870384	950.6282279	1538.362367			
1155.642147	0.413063603	0.021881026	0.121029854			PSMG1
21	39174769	39183851	-	2515		
protein_coding	proteasome assembly chaperone 1 [Source:HGNC					
Symbol;Acc:HGNC:3043]	-	1731	1688	1334	1402	932
1102	33.70449016	31.80247308	33.00081662			
30.97576693	22.77850847	20.37392125				
ENSG00000183735	894.5494525	648.7014472	583.5708082			
569.7826722	464.5871741	471.8635578	708.9405693			
502.0778013	0.49869171	0.021892983	0.121058134			TBK1
12	64451880	64502108	+	4762		
protein_coding	TANK binding kinase 1 [Source:HGNC					
Symbol;Acc:HGNC:11584]	-	986	733	502	550	407
547	10.13949225	7.293584593	6.558751442			
6.417787634	5.253544053	5.341078406				
ENSG00000135365	589.7131279	569.0518835	803.2817301			
407.1356185	486.2755188	502.0559244	654.0155805			
465.1556872	0.489952348	0.021907941	0.121102988			PHF21A
11	45929323	46121178	-	11190		
protein_coding	PHD finger protein 21A [Source:HGNC					
Symbol;Acc:HGNC:24156]	-	650	643	691	393	426
582	2.8445394	2.722747245	3.841977414			
1.951526745	2.340059352	2.418376512				
ENSG00000100207	1191.220518	815.9655312	913.7184368			
1330.183547	1380.06362	1189.579243	973.6348288			
1299.942137	-0.41641481	0.021923547	0.121132409			TCF20
22	42160013	42343616	-	7548		
protein_coding	transcription factor 20 [Source:HGNC					
Symbol;Acc:HGNC:11631]	-	1313	922	786	1284	1209
1379	8.518468429	5.787959324	6.478843675			
9.452467131	9.845590523	8.495000188				
ENSG00000154174	4362.062644	3981.593194	3368.900801			
5401.539732	4810.246564	4496.937343	3904.185547			
4902.90788	-0.328239673	0.021926959	0.121132409			TOMM70
3	100363431	100401398	-	5387		
protein_coding	translocase of outer mitochondrial membrane 70					
[Source:HGNC Symbol;Acc:HGNC:11985]	-		4808	4499		2898
5214	4214	5213	43.70651381	39.57267957		

33.47019574	53.78189431	48.08337195	44.99577822	
ENSG00000104835	58.06406182	87.61452016	46.499666	
19.6834014	22.82983656	33.64292277	64.05941599	
25.38538691	1.332933339	0.022036489	0.121684834	SARS2
19	38915266	38930896	- 3231	
protein_coding	"seryl-tRNA synthetase 2, mitochondrial [Source:HGNC			
Symbol;Acc:HGNC:17697]"	-	64 99	40 19	20
39	0.969999922	1.45185979	0.77024676	
0.326759849	0.380487504	0.561252989		
ENSG0000020129	1796.356913	2185.053033	1648.41316	
2251.159539	2575.205564	2359.317789	1876.607702	
2395.227631	-0.351390344	0.022040715	0.121684834	NCDN
1	35557473	35567274	+ 4917	
protein_coding	neurochondrin [Source:HGNC Symbol;Acc:HGNC:17597]			
-	1980 2469	1418 2173	2256 2735	
19.71939859	23.79289689	17.94249646	24.55678804	
28.20241164	25.86355031			
ENSG00000254604	3.629003864	7.964956378	10.46242485	0
0	0	7.352128364	0	5.308892746
0.022058262	1	AP002336.2	11	70282367
70363368	-	539	antisense	novel transcript
-	4	9	9	0
0.36341254	0.791188899	1.038868531	0	0
ENSG00000167513	2962.174404	3849.728916	4036.171008	
3911.817037	4812.529548	5290.565265	3616.024776	
4671.637283	-0.369831291	0.022086513	0.121899636	CDT1
16	88803213	88809258	+ 3336	
protein_coding	chromatin licensing and DNA replication factor 1			
[Source:HGNC Symbol;Acc:HGNC:24576]	-		3265 4350	3472
3776	4216 6133	47.92761602	61.78593964	
64.7530935	62.89527021	77.68227225	85.48264288	
ENSG0000010244	5186.753773	4773.663856	4891.764863	
6063.523601	6442.579878	5562.296564	4950.727497	
6022.800014	-0.282624154	0.022099702	0.121934382	ZNF207
17	32350117	32381886	+ 15834	
protein_coding	zinc finger protein 207 [Source:HGNC			
Symbol;Acc:HGNC:12998]	-	5717 5394	4208 5853	5644
6448	17.68097602	16.141606	16.53453315	
20.53997578	21.91006796	18.93500422		
ENSG00000197980	33.56828574	29.20484005	31.38727455	
14.50355893	3.424475485	5.175834272	31.38680011	
7.701289562	2.027101826	0.022144274	0.122125396	LEKR1
3	156825481	157046129	+ 5602	
protein_coding	"leucine, glutamate and lysine rich 1 [Source:HGNC			
Symbol;Acc:HGNC:33765]"	-	37 33	27 14	3
6	0.323435215	0.279124062	0.299866193	
0.138866335	0.032917399	0.049801126		
ENSG00000132386	184.1719461	186.7339773	209.248497	
82.87747959	94.74382174	155.2750281	193.3848068	
110.9654432	0.796616508	0.02214813	0.122125396	

SERPINF1	17	1761959	1777574	+	3069	protein_coding	
	serpin family F member 1			[Source:HGNC Symbol;Acc:HGNC:8824]			
	-	203	211	180	80	83	180
3.239125932	3.2577069		3.649072258		1.44845545		
1.662373335	2.727134985						
ENSG00000101849	708.5630044		730.1210013		710.2823981		
874.3574097	954.2871684		956.6667012		716.3221346		
928.4370931	-0.374171717		0.02216042		0.122155085	TBL1X	
	X	9463295	9741037	+	9092	protein_coding	
transducin beta	like 1 X-linked			[Source:HGNC Symbol;Acc:HGNC:11585]			
	-	781	825	611	844	836	1109
4.206494161	4.299529789		4.181081468		5.158163016		
5.651896634	5.671567918						
ENSG00000167969	405.5411818		592.0617574		769.5694722		
464.1138857	397.2391562		302.7863049		589.0574705		
388.0464489	0.601896823		0.022201904		0.122345632	ECI1	
	16	2239395	2252300	-	3234	protein_coding	enoyl-
CoA delta isomerase 1				[Source:HGNC Symbol;Acc:HGNC:2703]			-
	447	669	662	448	348	351	6.768558567
	9.801951358		12.73575865		7.697506106		6.614341115
	5.046591118						
ENSG00000146574	841.9288964		834.5504294		855.5938543		
1034.932526	1498.77877		931.6501689		844.0243934		
1155.120489	-0.451796212		0.022254237		0.122591675	CCZ1B	
	7	6794134	6826770	-	7316	protein_coding	"CCZ1
homolog B, vacuolar protein trafficking and biogenesis associated				[Source:HGNC Symbol;Acc:HGNC:21717]"			
	999	1313	1080	6.211592587	6.107513516	928	943
							736
6.259086653	7.587589643		11.03159704		6.86406009		
ENSG00000138395	33.56828574		18.58489822		15.11239145	0	
	7.990442797	0	22.42185847		2.663480932		
3.122633432	0.022261191		0.122591675		CDK15	2	
201790461	201895550		+	6141	protein_coding	cyclin	
dependent kinase 15				[Source:HGNC Symbol;Acc:HGNC:14434]			37
	21	13	0	7	0	0.295047073	
0.162034181	0.131707681		0	0.070065835	0		
ENSG00000277782	38.10454057		38.05479158		37.1997328		
11.39565344	15.98088559		7.763751407		37.78635498		
11.71343015	1.699239958		0.022267344		0.122591675		
AC068870.2	15	80999593		80999981		-	389
	lincRNA novel transcript					42	43
	11	14	9	5.287232064	5.237756387		32
5.11808181	1.571285589		2.212207165		1.07578114		
ENSG00000131263	4024.565285		3641.755055		3467.712592		
4872.159832	4273.745405		4524.541792		3711.344311		
4556.815676	-0.29595633		0.022319849		0.122839035	RLIM	
	X	74585217	74614617		-	8379	
protein_coding	"ring finger protein, LIM domain interacting			[Source:HGNC Symbol;Acc:HGNC:13429]"			
						4436	4115
	4703	3744	5245	25.92555311	23.27041294		2983



22.14970312	31.1885247	27.46572136	29.10612031		
ENSG00000116209	3359.550327	3570.955443	3880.397127		
3068.538682	3074.037493	2510.279622	3603.634299		
2884.285266	0.321396739	0.022332302	0.122839035	TMEM59	
1	54026681	54053504	- 9149		
protein_coding	transmembrane protein 59 [Source:HGNC				
Symbol;Acc:HGNC:1239]	-	3703 4035	3338 2962	2693	
2910	19.82023357	20.89759712	22.6996704		
17.98968133	18.09297929	14.78939402			
ENSG00000129675	1425.291268	1126.59883	1558.901303		
1214.155076	1017.069219	756.5344427	1370.2638		
995.9195792	0.460605451	0.02234074	0.122839035		
ARHGEF6 X	136665547	136782088	- 6434		
protein_coding	Rac/Cdc42 guanine nucleotide exchange factor 6				
[Source:HGNC Symbol;Acc:HGNC:685]	-	1571 1273	1341		
1172	891 877	11.95704358	9.375054216		
12.96744958	10.12181974	8.512242896	6.33796089		
ENSG00000174744	1563.193414	2114.253421	1972.74833		
1880.282818	2545.526777	3287.517402	1883.398388		
2571.108999	-0.449470144	0.022351719	0.122839035	BRMS1	
11	66337333	66345125	- 2514		
protein_coding	"BRMS1, transcriptional repressor and anoikis				
regulator [Source:HGNC Symbol;Acc:HGNC:17262]"	-	1723	2389		
1697	1815 2230	3811 33.56206604	45.02744633		
41.99749776	40.11653363	54.52390468	70.48629668		
ENSG00000258754	12.70151352	1.769990306	8.137441549	0	
0	0	7.536315126	0	5.346149008	
0.02235444	1	LINC01579	15	93718542	
94070820	-	6795	lincRNA long intergenic non-protein		
coding RNA 1579 [Source:HGNC Symbol;Acc:HGNC:27519]	-	14			
2	7 0	0 0	0.100894446		
0.013946556	0.064093712	0 0	0		
ENSG00000153914	1584.967438	1425.727192	1188.066466		
1088.802888	1128.935418	1017.051434	1399.587032		
1078.263247	0.377308436	0.02235726	0.122839035	SREK1	
5	66139971	66183615	+ 18240		
protein_coding	splicing regulatory glutamic acid and lysine rich				
protein 1 [Source:HGNC Symbol;Acc:HGNC:17882]	-	1747	1611		
1022	1051 989	1179 4.690258234	4.185016236		
3.486044354	3.201768486	3.332873405	3.005522539		
ENSG00000166986	4271.337548	4286.031527	4373.293587		
4774.778793	5596.734434	5373.378613	4310.220887		
5248.29728	-0.284102778	0.02236006	0.122839035	MARS	
12	57475445	57517569	+ 7028		
protein_coding	methionyl-tRNA synthetase [Source:HGNC				
Symbol;Acc:HGNC:6898]	-	4708 4843	3762 4609	4903	
6229	32.80449714	32.65195258	33.3038073		
36.44072417	42.8822437	41.21142163			
ENSG00000141562	1284.667368	1604.496213	1682.125417		
1737.319166	2060.39275	2103.113992	1523.762999		

1966.941969	-0.368830776	0.022360885	0.122839035	NARF
17	82458180	82490537	+ 7962	
protein_coding	nuclear prelamina A recognition factor [Source:HGNC			
Symbol;Acc:HGNC:29916]	-	1416 1813	1447 1677	1805
2438	8.709029541	10.78951869	11.30715133	
11.70369332	13.93485305	14.23778879		
ENSG00000113522	177.8211893	153.9891566	168.5612892	
122.2442824	69.63100152	93.16501689	166.7905451	
95.0134336	0.810371452	0.022411414	0.12307839	RAD50
5	132556019	132646344	+ 9771	
protein_coding	RAD50 double strand break repair protein [Source:HGNC			
Symbol;Acc:HGNC:9816]	-	196 174	145 118	61
108	0.982303613	0.843794472	0.923285118	
0.671050243	0.383740981	0.513943953		
ENSG00000073578	1261.986094	1274.39302	1771.637274	
1140.601313	974.8340213	1123.156037	1436.005463	
1079.530457	0.410432762	0.02242594	0.123116677	SDHA
5	218241 256700	+ 8383	protein_coding	
succinate dehydrogenase complex flavoprotein subunit A [Source:HGNC				
Symbol;Acc:HGNC:10680]	-	1391 1440	1524 1101	854
1302	8.125616987	8.13934518	11.31077459	
7.297933412	6.261894765	7.221751432		
ENSG00000105976	1936.980812	1502.72177	1747.22495	
1695.880426	1117.5205	849.6994596	1728.975844	
1221.033462	0.502264459	0.02243562	0.123116677	MET
7	116672390	116798386	+ 7039	
protein_coding	"MET proto-oncogene, receptor tyrosine kinase			
[Source:HGNC Symbol;Acc:HGNC:7029]"	-	2135 1698	1503	
1637	979 985	14.85304845	11.43018242	
13.28479515	12.92259572	8.549074206	6.50663258	
ENSG00000111581	2407.844064	1870.879754	1778.612224	
1816.052772	1530.740542	1104.177978	2019.112014	
1483.657097	0.445376351	0.022439265	0.123116677	NUP107
12	68686734	68745809	+ 8320	
protein_coding	nucleoporin 107 [Source:HGNC Symbol;Acc:HGNC:29914]			
-	2654 2114	1530 1753	1341 1280	
15.62090804	12.0394902	11.44128888	11.70767434	
9.90724292	7.153484846			
ENSG00000187796	27.21752898	38.93978674	22.08734135	
64.23004668	67.34801786	75.04959694	29.41488569	
68.87588716	-1.222826755	0.022501784	0.123421416	CARD9
9	136361903	136373681	- 6699	
protein_coding	caspase recruitment domain family member 9			
[Source:HGNC Symbol;Acc:HGNC:16391]	-	30 44	19	
62	59 87	0.219300671	0.311221176	
0.176461704	0.514273037	0.541364027	0.603865604	
ENSG00000099282	24.49577608	27.43484975	22.08734135	0
6.848950969	6.038473317	24.67265573	4.295808095	
2.5212609	0.022522843	0.123476728	TSPAN15 10	
69451473	69507669	+ 2646	protein_coding	

	tetraspanin 15 [Source:HGNC Symbol;Acc:HGNC:23298]						-
	27	31	19	0	6	7	0.499692243
	0.555134598		0.44675622		0	0.139382667	
0.12300966							
ENSG00000154263	33.56828574		0	0	0	0	0
	11.18942858	0		5.919689445		0.02252583	
0.123476728	ABCA10	17		69147214		69244846	-
	8405	protein_coding		ATP binding cassette subfamily A			
member 10	[Source:HGNC Symbol;Acc:HGNC:30]			-		37	0
	0	0	0	0	0.215572168	0	0
	0	0	0				
ENSG00000164741	2112.080249			1741.670461		1985.535738	
	1628.542474	1317.28157		1614.860293		1946.428816	
1520.228112	0.355990708			0.022575092		0.123708429	DLC1
	8	13083361		13604610		-	12794
protein_coding	DLC1 Rho GTPase activating protein [Source:HGNC						
Symbol;Acc:HGNC:2897]	-		2328	1968	1708	1572	1154
	1872	8.910566447		7.288617988		8.305931911	
6.827445451	5.544301288			6.803470659			
ENSG00000081026	751.2037998			508.872213		649.8328323	
	435.1067679	527.3692246		379.5611799		636.6362817	
447.3457241	0.510206847			0.022583691		0.123717221	MAGI3
	1	113390749		113685923		+ 8180	
protein_coding	"membrane associated guanylate kinase, WW and PDZ						
domain containing 3	[Source:HGNC Symbol;Acc:HGNC:29647]"						-
	828	575	559	420	462	440	4.956849313
	3.330741911		4.251726802		2.853041116		3.471650779
	2.501096169						
ENSG00000165632	540.7215757			454.0025136		435.9343687	
	684.7751751	633.5279646		623.6880297		476.8861527	
647.3303898	-0.439972745			0.022601442		0.123738153	TAF3
	10	7818504	8016627	+	4872	protein_coding	TATA-
box binding protein associated factor 3	[Source:HGNC						
Symbol;Acc:HGNC:17303]	-		596	513	375	661	555
	723	5.990563329		4.989264479		4.788845598	
7.538869463	7.002176663			6.900205672			
ENSG00000131378	762.0908114			1012.434455		986.9554108	
	1111.594195	1135.784369		1445.78304		920.4935591	
1231.053868	-0.42037279			0.022607002		0.123738153	RFTN1
	3	16313574		16514026		-	4776
protein_coding	"raftlin, lipid raft linker 1 [Source:HGNC						
Symbol;Acc:HGNC:30278]"	-		840	1144	849	1073	995
	1676	8.6127859		11.34979839		11.059875	
12.48381855	12.80578255			16.31701506			
ENSG00000092108	792.9373443			841.6303906		896.2810621	
	707.566482	589.0097833		617.6495564		843.6162656	
638.0752739	0.40237139			0.022608497		0.123738153	SCFD1
	14	30622112		30735812		+ 6571	
protein_coding	sec1 family domain containing 1 [Source:HGNC						
Symbol;Acc:HGNC:20726]	-		874	951	771	683	516

716	6.513413485	6.857652759	7.300115938	
5.775655488	4.826869915	5.066552804		
ENSG00000231607	214.111228	148.6791857	119.7366399	
69.40988916	115.2906746	77.63751407	160.8423512	
87.44602596	0.883589671	0.022620017	0.123762908	DLEU2
13	49982552	50125720	- 5103	
antisense	deleted in lymphocytic leukemia 2 [Source:HGNC			
Symbol;Acc:HGNC:13748]	-	236 168	103 67	101
90	2.264723143	1.559948117	1.255794287	
0.729560442	1.216586984	0.8200644		
ENSG00000068078	12.70151352	0 13.9498998	0 0	
0	8.883804441	0 5.581563334	0.022641271	
0.123840889	FGFR3	4 1793293	1808872 +	4848
protein_coding	fibroblast growth factor receptor 3			
[Source:HGNC Symbol;Acc:HGNC:3690]	-	14	0	12
0	0	0	0.141414554	0 0.154001688
0	0	0		
ENSG00000213366	153.3254133	148.6791857	113.9241817	
50.76245625	89.0363626	83.67598739	138.6429269	
74.49160208	0.897636519	0.02266609	0.123938319	GSTM2
1	109668022	109709551	+ 9116	
protein_coding	glutathione S-transferase mu 2 [Source:HGNC			
Symbol;Acc:HGNC:4634]	-	169 168	98 49	78
97	0.907843674	0.873235546	0.668849807	
0.298678394	0.525941749	0.494764392		
ENSG00000163257	1495.149592	1488.561848	1159.004175	
1931.045274	1662.012102	1745.981428	1380.905205	
1779.679601	-0.365259374	0.022683136	0.123993197	DCAF16
4	17800655	17810758	- 4816	
protein_coding	DDB1 and CUL4 associated factor 16 [Source:HGNC			
Symbol;Acc:HGNC:25987]	-	1648 1682	997 1864	1456
2024	16.75712127	16.54877892	12.87999002	
21.50658592	18.58327514	19.54137181		
ENSG00000169976	1366.319955	1910.704536	2018.085504	
1938.297054	2515.847989	2590.505053	1765.036665	
2348.216699	-0.41235733	0.022695081	0.124020169	SF3B5
6	144094881	144095573	- 693	
protein_coding	splicing factor 3b subunit 5 [Source:HGNC			
Symbol;Acc:HGNC:21083]	-	1506 2159	1736 1871	2204
3003	106.4193056	147.6202201	155.8559307	
150.0211867	195.4905263	201.4898232		
ENSG00000166123	676.8092206	860.2152888	797.4692718	
528.3439324	574.1703896	631.4517811	778.1645938	
577.988701	0.428392739	0.022729275	0.124166542	GPT2
16	46884378	46931297	+ 6354	
protein_coding	glutamic--pyruvic transaminase 2 [Source:HGNC			
Symbol;Acc:HGNC:18062]	-	746 972	686 510	503
732	5.749370556	7.248455805	6.717129974	
4.460001546	4.865955521	5.356669956		
ENSG00000125726	166.0269268	220.3637931	174.3737475	

112.9205659	116.4321665	15.52750281	186.9214891	
81.62674508	1.200997061	0.022735905	0.124166542	CD70
19	6583183	6604103 -	1532	protein_coding CD70
molecule [Source:HGNC Symbol;Acc:HGNC:11937]			-	183 249
150	109	102	18	5.849530476 7.701352865
6.091711685	3.953482095	4.09250074	0.546317054	
ENSG0000047648	69.85832438	61.06466557	53.4746159	
17.61146441	30.82027936	26.7418104	61.46586861	
25.05785139	1.296598254	0.022804266	0.124453223	
ARHGAP6 X	11137543	11665701	-	7885
protein_coding	Rho GTPase activating protein 6 [Source:HGNC			
Symbol;Acc:HGNC:676]	-	77	69	46 17 27
31	0.478208962	0.414642519	0.362963522	
0.119800676	0.210479317	0.182806239		
ENSG00000100284	518.0403016	608.8766653	547.5335671	
597.7538216	771.6484758	978.2326773	558.150178	
782.5449916	-0.48818329	0.022807701	0.124453223	TOM1
22	35299275	35347994	+	5871
protein_coding	target of myb1 membrane trafficking protein			
[Source:HGNC Symbol;Acc:HGNC:11982]	-		571	688 471
577	676	1134	4.762694353	5.552681954
4.991322981	5.461045267	7.077534186	8.981150877	
ENSG00000182287	1425.291268	1146.068723	1314.778056	
1030.788652	1120.944975	651.2924792	1295.379349	
934.3420356	0.472492128	0.022809506	0.124453223	AP1S2
X	15825806	15854931	-	5371
protein_coding	adaptor related protein complex 1 subunit sigma 2			
[Source:HGNC Symbol;Acc:HGNC:560]	-		1571	1295 1131
995	982	755	14.3235186	11.42460141
13.10129722	10.29390064	11.23837956	6.536162145	
ENSG00000113273	600.6001395	537.1920579	740.507181	
503.4806885	474.8606005	326.0775591	626.0997928	
434.8062827	0.526536627	0.02282031	0.124473781	ARSB
5	78777209	78986087	-	9053
protein_coding	arylsulfatase B [Source:HGNC Symbol;Acc:HGNC:714]			
-	662	607	637	486 416 378
3.580916157	3.177039479	4.377778243	2.983017441	
2.824542868	1.941468272			
ENSG00000155926	8.165258694	5.309970919	8.137441549	0
0	0	7.204223721	0	5.281047493
0.022825541	1	SLA	8	133036724 133103054
-	7637	protein_coding	Src like adaptor	[Source:HGNC
Symbol;Acc:HGNC:10902]	-	9	6	7 0 0
0	0.057709645	0.037226731	0.057027206	0
0	0			
ENSG00000265491	1448.879793	1324.837744	1222.941216	
1768.398221	1650.597184	1624.349322	1332.219584	
1681.114909	-0.335037653	0.022935271	0.125062142	RNF115
1	145738868	145824077	-	11041
protein_coding	ring finger protein 115 [Source:HGNC			

Symbol;Acc:HGNC:18154]	-	1597	1497	1052	1707	1446
1883	7.083129627	6.424507364	5.928081647			
8.590870152	8.050210623	7.92999527				
ENSG00000184857	234.9780002	217.7088077	167.3987976			
347.0494458	232.8643329	395.9513218	206.6952018			
325.2883668	-0.654016992	0.022942317	0.125062142			
TMEM186 16	8780384 8797648	-	1978	protein_coding		
transmembrane protein 186	[Source:HGNC Symbol;Acc:HGNC:24530]	-				
259	246	144	335	204	459	6.412127663
5.892983983	4.529424777	9.410887102	6.33944503			
10.78989992						
ENSG00000129055	1316.421152	1166.423612	1175.279058			
1813.980835	1457.685065	1439.744567	1219.374607			
1570.470155	-0.364765998	0.022970097	0.125174996			
ANAPC13 3	134477706	134486716	-	2359		
protein_coding	anaphase promoting complex subunit 13	[Source:HGNC				
Symbol;Acc:HGNC:24540]	-	1451	1318	1011	1751	1277
1669	30.12091462	26.47365532	26.66429229			
41.24489942	33.2744064	32.89723627				
ENSG00000127362	0	0	0	19.6834014	6.848950969	
0	0	8.844117457	-5.618154084	0.022981062		
0.125196184	TAS2R3	7	141764097	141765197		
+	1101	protein_coding	taste 2 receptor member 3			
[Source:HGNC Symbol;Acc:HGNC:14910]	-	0	0	0	0	
19	6	0	0	0	0.958911055	
0.334974148	0					
ENSG00000277157	1.814501932	17.69990306	3.48747495	0		
0	0	7.667293315	0	5.375193265		
0.022987218	1	HIST1H4D	6	26188765		
26189076	-	312	protein_coding	histone cluster 1 H4		
family member d	[Source:HGNC Symbol;Acc:HGNC:4782]	-	2			
20	3	0	0	0	0.31390923	
3.037398978	0.598237327	0	0	0		
ENSG00000059758	1007.955823	929.2449108	1020.667669			
1051.508022	1462.251032	1375.909277	985.9561342			
1296.55611	-0.395270314	0.023000628	0.125264196	CDK17		
12	96278261	96400560	-	6547		
protein_coding	cyclin dependent kinase 17	[Source:HGNC				
Symbol;Acc:HGNC:8750]	-	1111	1050	878	1015	1281
1595	8.309988094	7.599296664	8.343706553			
8.614612461	12.02691244	11.32789891				
ENSG00000204335	7.258007728	0.884995153	15.11239145	0		
0	0	7.75179811	0	5.382363472		
0.023006099	1	SP5	2	170715351	170718078	
+	2060	protein_coding	Sp5 transcription factor			
[Source:HGNC Symbol;Acc:HGNC:14529]	-	zf-C2H2	8	1	13	
0	0	0	0.190174135	0.023001662		
0.392629547	0	0	0			
ENSG00000151135	943.5410046	898.2700804	1159.004175			
852.6020713	696.3100152	698.7376267	1000.271753			

749.2165711	0.416197192	0.023038842	0.125433695	
TMEM263 12	106955719	106978778	+ 4768	
protein_coding	transmembrane protein 263 [Source:HGNC			
Symbol;Acc:HGNC:28281]	-	1040 1015	997 823	610
810	10.6813409	10.08686565	13.00965435	
9.591259296	7.863953711	7.899139621		
ENSG00000109814	979.8310433	891.1901192	880.006179	
805.983489	666.6312277	584.8692727	917.0091138	
685.8279965	0.41994006	0.023047413	0.125441752	UGDH
4	39498755	39528311	- 4045	
protein_coding	UDP-glucose 6-dehydrogenase [Source:HGNC			
Symbol;Acc:HGNC:12525]	-	1080 1007	757 778	584
678	13.07476564	11.7960712	11.6435175	
10.68742585	8.874454792	7.793673107		
ENSG00000157036	510.7822938	564.6269077	444.0718103	
628.8328764	707.7249335	722.0288809	506.4936706	
686.1955636	-0.437038097	0.023072605	0.125540235	EXOG
3	38496127	38542161	+ 5223	
protein_coding	exo/endonuclease G [Source:HGNC			
Symbol;Acc:HGNC:3347]	-	563 638	382 607	620 837
5.278579327	5.787980959	4.550406381	6.45774228	
7.296574546	7.451375513			
ENSG00000100814	699.4904948	693.8362	802.1192384	
1164.428588	848.1284283	924.7490565	731.8153111	
979.1020244	-0.420742484	0.023080155	0.125542699	
CCNB1IP1	14 20311368	20333312	-	3680
protein_coding	cyclin B1 interacting protein 1 [Source:HGNC			
Symbol;Acc:HGNC:19437]	-	771 784	690 1124	743
1072	10.25971373	10.09472947	11.66562788	
16.97190281	12.41047361	13.54496805		
ENSG00000135318	7571.009311	7487.943991	7983.992651	
8895.861466	9559.994061	9124.995821	7680.981984	
9193.617116	-0.259381972	0.02308899	0.125552152	NT5E
6	85449584	85495791	+ 4533	
protein_coding	5'-nucleotidase ecto [Source:HGNC			
Symbol;Acc:HGNC:8021]	-	8345 8461	6868 8587	8375
10578	90.15074198	88.44278644	94.2652045	
105.2610717	113.5655103	108.5047778		
ENSG00000268205	456.3472359	558.4319416	381.2972612	
566.6747667	633.5279646	773.7872236	465.3588129	
657.9966517	-0.498987986	0.023103541	0.125581243	
AC005261.1	19 57304305	57308562	+ 4258	
lincRNA	novel transcript	-	503 631	328
547	555 897	5.784835471	7.021827285	
4.792642484	7.138282197	8.011884618	9.795301408	
ENSG00000135900	576.1043634	534.5370725	587.0582832	
595.6818846	838.9964937	910.9468318	565.8999064	
781.87507	-0.467117615	0.023108539	0.125581243	MRPL44
2	223957404	223967714	+ 1748	
protein_coding	mitochondrial ribosomal protein L44 [Source:HGNC			

Symbol;Acc:HGNC:16650]	-	635	604	505	575	735
1056	17.7893869	16.37276209		17.97449909		
18.27841191	25.84599589	28.09011441				
ENSG00000163161	1486.077082	1600.071237		1457.764529		
2076.080864	1772.736809	1852.08603		1514.637616		
1900.301234	-0.327071583	0.023123209		0.125622371		ERCC3
2	127257290	127294176		-	8422	
protein_coding	"ERCC excision repair 3, TFIIH core complex helicase subunit [Source:HGNC Symbol;Acc:HGNC:3435]"					
1254	2004	1553	2147	9.524174501	10.17207679	1808
9.263799482	13.22191996	11.33453163		11.85353334		
ENSG00000070814	4040.895802	4040.002874		3750.198063		
2882.064353	3147.09297	3549.759671		3943.698913		
3192.972331	0.304529631	0.023141452		0.125682884		TCOF1
5	150357629	150400308		+	11439	
protein_coding	treacle ribosome biogenesis factor 1 [Source:HGNC Symbol;Acc:HGNC:11654]					
4115	19.06737185	18.90946156		17.546203		2757
13.51391271	14.81480933	16.72679744				
ENSG00000121988	195.9662087	165.4940936		230.1733467		
146.0715578	116.4321665	84.53862644		197.2112163		
115.6807836	0.770559996	0.023198359		0.125935622		ZRANB3
2	135136916	135531236		-	9115	
protein_coding	zinc finger RANBP2-type containing 3 [Source:HGNC Symbol;Acc:HGNC:25249]					
98	1.160448207	0.972100965		1.351497865		102
0.859556608	0.687845434	0.499919895				
ENSG00000184205	242.2360079	345.1481097		338.2850701		
372.9486582	436.0498784	565.8912137		308.5563959		
458.2965834	-0.572543396	0.023202227		0.125935622		TSPYL2
X	53082367	53088540		+	4948	
protein_coding	TSPY like 2 [Source:HGNC Symbol;Acc:HGNC:24358]					
267	390	291	360	382	656	2.642471147
3.73474846	3.65906517	4.04282417		4.745489668		
6.164603756						
ENSG00000163428	4262.265038	3296.606945		2872.516867		
5167.410853	4217.812305	4150.156447		3477.129617		
4511.793201	-0.37546397	0.023225517		0.126009176		LRR58
3	120324509	120349339		-	7903	
protein_coding	leucine rich repeat containing 58 [Source:HGNC Symbol;Acc:HGNC:26968]					
4811	29.11050329	22.33370297		19.45304583		3695
35.07086733	28.73887881	28.30573217				
ENSG00000196935	548.8868344	513.2971888		435.9343687		
878.5012837	494.2659616	793.6279217		499.3727973		
722.1317223	-0.532203758	0.023230026		0.126009176		SRGAP1
12	63844293	64162221		+	26641	
protein_coding	SLIT-ROBO Rho GTPase activating protein 1 [Source:HGNC Symbol;Acc:HGNC:17382]					
920	1.112073612	1.031582371		0.875765015		433



1.768713022	0.999044272	1.605714477			
ENSG00000135912	693.139738	510.6422034	459.1842017		
865.0336932	619.8300627	872.1280748	554.3220477		
785.6639436	-0.502890277	0.02327805	0.126230883	TTL4	
2	218710845	218755416	+ 7685		
protein_coding	tubulin tyrosine ligase like 4	[Source:HGNC			
Symbol;Acc:HGNC:28976]	-	764 577	395 835	543	
1011	4.868309386	3.557610368	3.197864592		
6.037465295	4.34313489	6.116997484			
ENSG00000157191	1679.321538	2248.772684	2157.584502		
2171.389965	2772.683651	3005.434434	2028.559575		
2649.836017	-0.385764792	0.02328517	0.126230883	NECAP2	
1	16440672	16460078	+ 5559		
protein_coding	NECAP endocytosis associated 2	[Source:HGNC			
Symbol;Acc:HGNC:25528]	-	1851 2541	1856 2096	2429	
3484	16.30566172	21.65880204	20.77247019		
20.95109123	26.85828024	29.14153945			
ENSG00000170606	5873.542754	5495.819901	5182.387775		
6516.241833	6748.499688	6691.491074	5517.250143		
6652.077532	-0.269720775	0.023300003	0.126261747	HSPA4	
5	133051962	133106449	+ 5153		
protein_coding	heat shock protein family A (Hsp70) member 4	[Source:HGNC			
Symbol;Acc:HGNC:5237]	-	6474 6210		4458	
6290	5912 7757	61.52352864	57.10286501		
53.82533832	67.82699033	70.52151655	69.99462113		
ENSG00000166073	2561.169477	2533.741123	2636.531062		
2952.51021	3308.043318	3187.451272	2577.147221		
3149.334934	-0.289329716	0.023305139	0.126261747	GPR176	
15	39799032	39920892	- 5119		
protein_coding	G protein-coupled receptor 176	[Source:HGNC			
Symbol;Acc:HGNC:32370]	-	2823 2863	2268 2850	2898	
3695	27.0056374	26.50102424	27.56542973		
30.93654245	34.79850704	33.56296587			
ENSG00000125124	402.8194289	361.0780225	346.4225117		
298.3589265	207.7515127	247.577406	370.1066543		
251.2292818	0.558743265	0.023327282	0.126343017	BBS2	
16	56466836	56520283	- 8337		
protein_coding	Bardet-Biedl syndrome 2	[Source:HGNC			
Symbol;Acc:HGNC:967]	-	444 408	298 288	182	
287	2.607965561	2.318872138	2.223890037		
1.91952923	1.341865375	1.600674821			
ENSG00000221890	162.3979229	129.2092924	237.1482966		
109.8126605	89.0363626	7.763751407	176.2518373		
68.87092482	1.35959725	0.023389012	0.126638575	NPTXR	
22	38818452	38843982	- 5784		
protein_coding	neuronal pentraxin receptor	[Source:HGNC			
Symbol;Acc:HGNC:7954]	-	179 146	204 106	78	
9	1.51549124	1.196054618	2.194364303		
1.018332547	0.828922024	0.072351117			
ENSG00000230836	29.03203091	1.769990306	8.137441549		

2.07193699	0	0	12.97982092	0.690645663		
4.252284295	0.023471291		0.127045187	LINC01293	2	
74940258	74942670		+	1266	lincRNA	long
intergenic non-protein coding RNA 1293 [Source:HGNC						
Symbol;Acc:HGNC:50362]	-	32	2	7	2	0
0	1.237784261	0.07485533		0.34401009		
0.087782579	0	0				
ENSG00000151694	927.2104872		707.1111273	861.4063126		
798.7317096	474.8606005		441.6711912	831.909309		
571.7545004	0.541299213		0.023487668	0.12705971		ADAM17
2	9488486	9556732	-	10750	protein_coding	ADAM
metallopeptidase domain 17 [Source:HGNC Symbol;Acc:HGNC:195]						
1022	799	741	771	416	512	4.655551284
3.521800541	4.28861036		3.985271904	2.378659217		
2.21458582						
ENSG00000226688	136.0876449		138.0592439	122.0616232		
191.6541716	186.063168		263.9675479	132.069504		
213.8949625	-0.696382744		0.02348834	0.12705971		
ENTPD1-AS1	10	95753206	96090238	-		12528
antisense ENTPD1 antisense RNA 1 [Source:HGNC						
Symbol;Acc:HGNC:45203]	-	150	156	105	185	163
306	0.586324711	0.59002348		0.521452076		
0.820544289	0.799748105		1.135718499			
ENSG00000140988	30754.9005		38182.23089	38084.38894		
38622.97743	45061.53141		49175.60142	35673.84011		
44286.70342	-0.312036401		0.023522198	0.127203962		RPS2
16	1962052	1964860	-	2413	protein_coding	
ribosomal protein S2 [Source:HGNC Symbol;Acc:HGNC:10404]						
33899	43144	32761	37282	39476	57006	687.9521759
847.206982	844.7081306		858.5269326	1005.59517		
1098.485338						
ENSG00000130749	1732.849345		1483.251877	1719.32515		
1227.622666	1135.784369		1465.623738	1645.142124		
1276.343591	0.3652341		0.023551463	0.127315803		ZC3H4
19	47064187		47113752	-	6502	
protein_coding zinc finger CCCH-type containing 4 [Source:HGNC						
Symbol;Acc:HGNC:17808]	-	1910	1676	1479	1185	995
1699	14.38517288	12.21387553		14.15233354		
10.12706107	9.406400713	12.15003228				
ENSG00000141295	425.500703		540.7320386	475.4590848		
287.9992416	415.5030255		291.5719973	480.5639421		
331.6914214	0.536707997		0.023557274	0.127315803		SCRN2
17	47837692		47841333	-	3043	
protein_coding secernin 2 [Source:HGNC Symbol;Acc:HGNC:30381]						
469	611	409	278	364	338	7.547438344
9.514055898	8.362347335	5.076388916		7.352699068		
5.164707922						
ENSG00000273056	0	0	0	13.46759043	12.55641011	
0	0	8.674666848		-5.589051196	0.023584946	
0.127403031	AL354694.1	9		7786105	7786688	-

584	lincRNA novel transcript	-	0	0
0	13 11 0 0	0	0	
1.236922669	1.157783079	0		
ENSG00000221819	2.721752898	2.654985459	4.6499666	
11.39565344	9.131934625	40.54403513	3.342234986	
20.35720773	-2.62663905	0.023587819	0.127403031	GAS8-
AS1 16	90028908	90029901	- 994	
antisense	GAS8 antisense RNA 1 [Source:HGNC			
Symbol;Acc:HGNC:1197]	-	3 3	4 11	8
47	0.147796297	0.143008322	0.250368942	
0.614919612	0.494710312	2.198581107		
ENSG00000099260	1069.648889	1078.809092	1562.388777	
1381.981972	2020.440536	1648.503216	1236.948919	
1683.641908	-0.445515932	0.023620931	0.127523217	PALMD
1	99645943	99694541	+ 8244	
protein_coding	palmdelphin [Source:HGNC Symbol;Acc:HGNC:15846] -			
1179	1219 1344 1334 1770	1911	7.003328622	
7.006355401	10.14303986	8.991453241	13.19722568	
10.77838574				
ENSG00000160172	77.11633211	70.79961225	97.64929859	
141.9276838	149.5354295	138.8848863	81.85508098	
143.4493332	-0.812223055	0.023627574	0.127523217	
FAM86C2P	11 67791648	67805336	- 3402	
	transcribed_unprocessed_pseudogene "family with sequence			
	similarity 86 member C2, pseudogene [Source:HGNC			
Symbol;Acc:HGNC:42392]"	-	85 80	84 137	131
161	1.223526274	1.114248655	1.53621437	
2.237681655	2.366924181	2.200506141		
ENSG00000100439	293.042062	325.6782163	385.9472278	
481.7253501	399.5221399	560.7153794	334.8891687	
480.6542898	-0.523982893	0.023631698	0.127523217	ABHD4
14	22598237	22613215	+ 4070	
protein_coding	abhydrolase domain containing 4 [Source:HGNC			
Symbol;Acc:HGNC:20154]	-	323 368	332 465	350
650	3.886304242	4.284299767	5.075169146	
6.348492156	5.285924982	7.425914859		
ENSG00000125952	786.5865875	892.9601095	892.7935871	
903.3645276	1188.292993	1360.381774	857.4467614	
1150.679765	-0.425043745	0.023702911	0.127868497	MAX
14	65006174	65102695	- 4430	
protein_coding	MYC associated factor X [Source:HGNC			
Symbol;Acc:HGNC:6913]	bHLH	867 1009	768 872	1041
1577	9.583939308	10.79229681	10.78609747	
10.93766965	14.44422894	16.55232425		
ENSG00000236530	0 0 0	20.7193699	5.707459141	
0	0	8.808943013	-5.612629889	0.023713562
0.127886949	KPNA2P1 4	80079532	80081122	
+	1591	processed_pseudogene	karyopherin subunit	
alpha 2 pseudogene 1	[Source:HGNC Symbol;Acc:HGNC:52871] -			
0	0 0 20 5	0	0 0	

0	0.698508764	0.193173338	0	
ENSG00000165264	649.5916916	803.575599	925.3433533	
591.5380106	576.4533732	588.3198289	792.8368813	
585.4370709	0.436473112	0.023734518	0.127960956	NDUFB6
9	32552999	32573184	-	1388
protein_coding	NADH:ubiquinone oxidoreductase subunit B6 [Source:HGNC			
Symbol;Acc:HGNC:7701]	-	716 908	796 571	505
682	25.26109893	30.99722553	35.68046029	
22.85907675	22.36398911	22.84682876		
ENSG00000273450	1.814501932	7.079961225	3.48747495	
15.53952742	10.27342645	43.99459131	4.127312702	
23.26918173	-2.494216254	0.023751084	0.12801125	
AL139124.1	10	94314907	94315327	- 421
antisense	"novel transcript, antisense to PLCE1"			-
2	8	3	15	9 51
0.900397607	0.443349278	1.979799485	1.314037544	
5.632732129				
ENSG00000225282	8.165258694	6.194966072	6.974949899	0
0	0	7.111724888	0	5.263328953
0.02376471	1	AP000350.2	22	23926900
23929574	+	1763	processed_pseudogene	kelch-like 5
(Drosophila) (KLHL5)	pseudogene	-	9	7 6 0
0	0	0.249987838	0.188136114	0.211741402
0	0	0		
ENSG00000169221	1604.019708	1793.885175	1908.811289	
1820.196646	2644.836566	2438.680581	1768.905391	
2301.237931	-0.37976266	0.023808552	0.128281898	
TBC1D10B	16	30357102	30370264	- 6699
protein_coding	TBC1 domain family member 10B [Source:HGNC			
Symbol;Acc:HGNC:24510]	-	1768 2027	1642 1757	2317
2827	12.92411954	14.33739372	15.25000625	
14.5738343	21.26000764	19.62216163		
ENSG00000008311	388.3034134	279.6584684	223.1983968	
233.0929114	159.8088559	160.4508624	297.0534262	
184.4508766	0.689339033	0.023826123	0.128331604	AASS
7	122075647	122144280	-	4591
protein_coding	aminoadipate-semialdehyde synthase [Source:HGNC			
Symbol;Acc:HGNC:17366]	-	428 316	192 225	140
186	4.565256251	3.26141625	2.601960999	
2.723248474	1.874425152	1.883808142		
ENSG00000121579	6570.311496	6933.05203	5513.697895	
7769.763712	7302.123225	8365.873461	6339.020474	
7812.586799	-0.301424149	0.023837725	0.128331604	NAA50
3	113716460	113746300	-	6436
protein_coding	"N(alpha)-acetyltransferase 50, NatE catalytic subunit			
[Source:HGNC Symbol;Acc:HGNC:29533]"	-		7242 7834	4743
7500	6397 9698	55.10248292	57.67584587	
45.8504852	64.752609	61.09528225	70.06436051	
ENSG00000163947	284.8768033	280.5434635	237.1482966	
557.3510503	339.023073	328.6654763	267.5228545	

408.3465332	-0.608748016	0.023839542	0.128331604		
ARHGEF3 3	56727418	57079329	-	6594	
protein_coding	Rho guanine nucleotide exchange factor 3 [Source:HGNC				
Symbol;Acc:HGNC:683]	-	314	317	204	538 297
381	2.331897135	2.277911044	1.924810908		
4.533622724	2.768565908	2.686624996			
ENSG00000108786	118.8498765	139.8292342	119.7366399		
178.1865811	175.7897415	273.4565774	126.1385836		
209.1443	-0.730916947	0.023850073	0.128349239		
HSD17B1 17	42549214	42555213	+	5658	
protein_coding	hydroxysteroid 17-beta dehydrogenase 1 [Source:HGNC				
Symbol;Acc:HGNC:5210]	-	131	158	103	172 154
317	1.133801523	1.323185048	1.132611921		
1.689186288	1.673035429	2.605117626			
ENSG00000146109	655.0351974	819.5055118	712.6073814		
831.8827014	1021.635186	1055.870191	729.0493635		
969.7960263	-0.41163759	0.023919384	0.128683084		ABT1
6	26596952	26600744	+	2949	
protein_coding	activator of basal transcription 1 [Source:HGNC				
Symbol;Acc:HGNC:17369]	-	722	926	613	803 895
1224	11.98922494	14.8786201	12.93279962		
15.13048385	18.65501588	19.29912697			
ENSG00000101440	0	19.46989337	6.974949899	0	0
0	8.814947756	0	5.574294817	0.023980788	
0.128936501	ASIP	20	34194569	34269344	
+	778	protein_coding	agouti signaling protein		
[Source:HGNC Symbol;Acc:HGNC:745]	-	0	22	6	
0	0	0	0	1.339891169	0.47982017
0	0	0			
ENSG00000137094	202.3169654	144.25421	231.3358383		
122.2442824	67.34801786	133.709052	192.6356712		
107.7671174	0.832878196	0.023981263	0.128936501		DNAJB5
9	34989641	34998900	+	5891	
protein_coding	DnaJ heat shock protein family (Hsp40) member B5				
[Source:HGNC Symbol;Acc:HGNC:14887]	-		223	163	199
118	59	155	1.853721657	1.311067411	
2.101700852	1.113025279	0.615616638	1.223414697		
ENSG00000176531	124.2933823	192.9289434	167.3987976		
130.5320304	351.5794831	392.5007656	161.5403744		
291.5374263	-0.852552864	0.023988356	0.128936501		PHLDB3
19	43474954	43504935	-	4553	
protein_coding	pleckstrin homology like domain family B member 3				
[Source:HGNC Symbol;Acc:HGNC:30499]	-		137	218	144
126	308	455	1.473504954	2.268742904	
1.967758008	1.537747177	4.158152628	4.646701391		
ENSG00000198900	3807.732304	3116.952929	3923.409318		
2977.373454	2950.756376	2802.714258	3616.031517		
2910.281363	0.313104354	0.024012911	0.129013326		TOP1
20	41028818	41124487	+	3738	
protein_coding	DNA topoisomerase I [Source:HGNC				

Symbol;Acc:HGNC:11986]	-	4197	3522	3375	2874	2585
3249	54.98299031	44.64537708		56.17477308		
42.72278055	42.50779824	40.41489292				
ENSG00000164929	47.17705023	57.52468495		77.88694054		
20.7193699	25.11282022	28.46708849		60.86289191		
24.7664262	1.292680611	0.024017236		0.129013326		BAALC
8	103140710	103230305		+ 3997		
protein_coding	"BAALC, MAP3K1 and KLF4 binding	[Source:HGNC				
Symbol;Acc:HGNC:14333]"	-	52	65	67	20	22
33	0.637085732	0.77055856		1.042911607		
0.278040391	0.338326404	0.383893545				
ENSG00000279583	3.629003864	5.309970919		12.78740815		0
0	0	7.242127644	0	5.285069242		
0.024026791	1	AC009086.3	16	29595130		
29596137	-	1008	TEC	novel transcript		-
4	6	11	0	0	0.194324761	
0.282044191	0.678951887	0	0	0		
ENSG00000171853	605.1363943	673.4813115		621.9330327		
679.5953327	990.8149069	908.3589147		633.5169128		
859.5897181	-0.439972827	0.024049051		0.129145012		
TRAPPC12	2	3379675	3485094	+ 9193	protein_coding	
	trafficking protein particle complex 12	[Source:HGNC				
Symbol;Acc:HGNC:24284]	-	667	761	535	656	868
1053	3.55301677	3.922417677		3.620790261		
3.965140886	5.803765082	5.32601186				
ENSG00000182197	1599.483453	1708.925641		1483.339345		
1606.787136	2324.077362	2348.96612		1597.24948		
2093.276873	-0.390002064	0.024075525		0.129247937		EXT1
8	117794490	118111853		- 8325		
protein_coding	exostosin glycosyltransferase 1	[Source:HGNC				
Symbol;Acc:HGNC:3512]	-	1763	1931	1276	1551	2036
2723	10.37042974	10.9906777		9.536154503		
10.35236556	15.03283503	15.20878139				
ENSG00000111276	578.8261163	608.8766653		753.2945891		
343.9415403	445.181813	564.1659356		646.9991236		
451.0964296	0.518225813	0.024101819		0.12934984		CDKN1B
12	12715058	12722371		+ 2811		
protein_coding	cyclin dependent kinase inhibitor 1B	[Source:HGNC				
Symbol;Acc:HGNC:1785]	-	638	688	648	332	390
654	11.11446383	11.59722367		14.3423728		
6.562801697	8.52807717	10.81802351				
ENSG00000255857	12.70151352	46.90474312		46.499666		
12.43162194	7.990442797	7.763751407		35.36864088		
9.395272048	1.911819237	0.024150103		0.129532825		PXN-
AS1	12	120201291	120213138	+ 2380		
antisense	PXN antisense RNA 1	[Source:HGNC				
Symbol;Acc:HGNC:44123]	-	14	53	40	12	7
9	0.288057881	1.05517709		1.045658521		
0.280166583	0.180787518	0.175831455				
ENSG00000163517	88.0033437	59.29467526		125.5490982		

52.83439324	42.23519764	28.46708849	90.94903905	
41.17889313	1.143527556	0.02415056	0.129532825	HDAC11
3	13479724	13506424	+ 5281	
protein_coding	histone deacetylase 11 [Source:HGNC			
Symbol;Acc:HGNC:19086]	-	97 67	108 51	37
33	0.899464962	0.601153079	1.27237297	
0.536619008	0.430658394	0.290555292		
ENSG00000122778	571.5681086	565.5119028	508.008851	
498.300846	316.1932364	326.9401982	548.3629541	
380.4780935	0.527972048	0.024166586	0.129579492	
KIAA1549	7	138831381	138981318	- 12427
protein_coding	KIAA1549 [Source:HGNC Symbol;Acc:HGNC:22219]			
-	630 639	437 481	277 379	
2.482578184	2.43646962	2.187872378	2.150754408	
1.37012702	1.418090442			
ENSG00000234405	9.979760626	4.424975766	6.974949899	0
0	0	7.126562097 0	5.266220442	
0.024210777	1	Z69733.1 X	103497523	
103500317	+ 632	antisense	novel transcript	
-	11 5	6 0	0 0	
0.852323162	0.374868861	0.590664703	0 0	0
ENSG00000114790	323.8885949	352.2280709	285.9729459	
246.5605018	180.3557089	216.5224004	320.6965372	
214.479537	0.580475245	0.024229378	0.12987681	
ARHGEF26	3	154121003	154257827	+ 5489
protein_coding	Rho guanine nucleotide exchange factor 26			
[Source:HGNC Symbol;Acc:HGNC:24490]	-		357 398	246
238	158 251	3.184957701	3.435708285	
2.788359223	2.409327124	1.769339676	2.126236204	
ENSG00000152240	713.0992593	811.5405554	852.1063794	
695.1348601	448.6062885	576.2428822	792.2487313	
573.3280103	0.465583266	0.024314405	0.130293098	HAUS1
18	46104332	46128333	+ 2165	
protein_coding	HAUS augmin like complex subunit 1 [Source:HGNC			
Symbol;Acc:HGNC:25174]	-	786 917	733 671	393
668	17.77842684	20.06956114	21.06458564	
17.22172552	11.15788831	14.34661949		
ENSG00000198382	663.2004561	659.3213891	631.2329659	
879.5372522	752.2431148	940.2765594	651.2516037	
857.3523088	-0.397157785	0.024327946	0.130326175	UVRAG
11	75815167	76143195	+ 6352	
protein_coding	UV radiation resistance associated [Source:HGNC			
Symbol;Acc:HGNC:12640]	-	731 745	543 849	659
1090	5.635540447	5.557407261	5.318586009	
7.426928526	6.37708617	7.978973573		
ENSG00000158555	406.4484328	424.7976735	511.496326	
523.1640899	623.2545382	716.8530466	447.5808107	
621.0905582	-0.474545747	0.024378385	0.130556842	GDPD5
11	75434640	75525903	- 9867	
protein_coding	glycerophosphodiester phosphodiesterase domain			

containing 5 [Source:HGNC Symbol;Acc:HGNC:28804]					-	448
480	440	505	546	831	2.223420315	
2.305061675	2.77443398		2.843926012		3.401377815	
3.916038147						
ENSG00000133678	198.6879615		199.1239095		192.9736139	
211.337573	334.4571057		378.6985409		196.928495	
308.1644065	-0.646637799		0.024406365		0.130667126	
TMEM254 10	80078646		80092557		+ 2996	
protein_coding transmembrane protein 254 [Source:HGNC						
Symbol;Acc:HGNC:25804]	-		219	225	166	204 293
439	3.579571069		3.558501473		3.447252741	
3.783558054	6.011366012		6.813240657			
ENSG00000218725	0	0	0	8.287747959	0	
17.25278091	0	8.513509622		-5.57015048	0.024422042	
0.130711497		B3GALNT2P1	6		129800908	
129802214	+	1295	processed_pseudogene	"beta-1,3-N-		
acetylgalactosaminyltransferase 2 pseudogene 1 [Source:HGNC						
Symbol;Acc:HGNC:51315]"	-		0	0	0	8 0
20	0	0	0	0.343267164	0	
0.718110448						
ENSG00000232821	9.979760626		7.964956378		3.48747495	0
0	0	7.144063985	0		5.272770272	
0.02442739	1	AC003986.2	7		19112474	
19114271	+	1711	antisense		novel transcript	
-	11	9	3	0	0	0
0.314826556	0.249240688		0.109088279		0	0
ENSG00000254302	9.979760626		7.964956378		3.48747495	0
0	0	7.144063985	0		5.272770272	
0.02442739	1	AC087855.2	8		34174886	
34184895	+	537	lincRNA novel transcript			-
11	9	3	0	0	0	1.003106589
0.794135599		0.347579229	0		0	
ENSG00000176887	1362.690951		1443.427095		1608.888443	
880.5732207	1275.046372		1190.441882		1471.66883	
1115.353825	0.399664663		0.024512247		0.131140266	SOX11
2	5692667	5701385	+	8719	protein_coding	SRY-
box 11 [Source:HGNC Symbol;Acc:HGNC:11191]					HMG	1502 1631
1384	850	1117	1380	8.435910016	8.863672971	
9.875890342		5.417068055		7.874697064	7.359417258	
ENSG00000068885	329.3321007		226.5587592		203.4360387	
176.1146441	124.4226093		167.3519748		253.1089662	
155.9630761	0.698401516		0.024521734		0.131140266	IFT80
3	160256986		160399880		-	7175
protein_coding intraflagellar transport 80 [Source:HGNC						
Symbol;Acc:HGNC:29262]	-		363	256	175	170 109
194	2.477498517		1.690614154		1.517480049	
1.31655516	0.933795878		1.25721873			
ENSG00000120948	2700.886126		2608.080716		2613.281229	
2251.159539	2101.486456		2133.306359		2640.749357	
2161.984118	0.288616186		0.024524394		0.131140266	TARDBP



1	11012344	11026420	+	6071	
protein_coding	TAR DNA binding	protein	[Source:HGNC		
Symbol;Acc:HGNC:11571]	-	2977	2947	2248	2173
2473	24.0130478	23.00098018		23.03790169	1841
19.8889354	18.63978574	18.94065099			
ENSG00000185238	638.70468	553.1219707		560.3209752	
467.2217912	454.3137476	337.2918667		584.0492087	
419.6091352	0.478766591	0.024609942		0.13155795	PRMT3
11	20387530	20509294	+	5467	
protein_coding	protein arginine	methyltransferase 3	[Source:HGNC		
Symbol;Acc:HGNC:30163]	-	704	625	482	451
391	6.305975351	5.416981898		5.485355904	398
4.583946198	4.474879637	3.325513396			
ENSG00000008735	9.07250966	7.964956378		2.3249833	
33.15099184	6.848950969	52.62098176		6.454149779	
30.87364152	-2.2473059	0.024631929		0.131592808	
MAPK8IP2	22	50600685		50613981	+
					5901
protein_coding	mitogen-activated	protein kinase 8	interacting		
protein 2	[Source:HGNC	Symbol;Acc:HGNC:6883]	-	10	9
2	32	6	61	0.082985663	0.072267551
	0.021086827	0.301325862		0.06249899	0.480656963
ENSG00000220472	33.56828574	38.93978674		34.8747495	
73.55376314	68.48950969	87.98918262		35.79427399	
76.67748515	-1.099840888	0.024634088		0.131592808	
AL139095.2	6	7338839	7339568	-	730
processed_pseudogene	ribosomal	protein S3 (RPS3)	pseudogene	-	
	37	44	30	71	60
	2.855987203	2.556849945		5.404400584	5.052144347
	6.496932127				
ENSG00000257242	13.60876449	14.15992245		16.2748831	
31.07905485	13.69790194	107.8298807		14.68119001	
50.86894581	-1.800530156	0.02463878		0.131592808	
LINC01619	12	91984976		92142914	-
					3642
processed_transcript	long	intergenic	non-protein	coding	RNA
1619	[Source:HGNC	Symbol;Acc:HGNC:27409]	-	15	16
	14	30	12	125	0.201687973
	0.239163522	0.457713115		0.202529675	1.595883151
ENSG00000095261	931.7467421	952.2547848		1029.967602	
1218.29895	1201.990895	1270.667314		971.3230429	
1230.319053	-0.341666727	0.024678105		0.131763057	PSMD5
9	120815496	120842984		-	4432
protein_coding	"proteasome 26S	subunit, non-ATPase 5	[Source:HGNC		
Symbol;Acc:HGNC:9563]"	-	1027	1076	886	1176
1473	11.34747868	11.50373743		12.43772118	1053
14.74414569	14.60413973	15.45375466			
ENSG00000108256	4428.291965	3973.628238		3756.010521	
4787.210415	4849.057286	5187.048579		4052.643574	
4941.105427	-0.285874507	0.02472647		0.131981448	NUFIP2
17	29255836	29294118		-	10850
protein_coding	"NUFIP2, FMR1	interacting	protein 2	[Source:HGNC	

Symbol;Acc:HGNC:17634]	-	4881	4490	3231	4621	4248
6013	22.0296579	19.60844		18.52738245		
23.6656411	24.06590124	25.76869848				
ENSG00000224330	0	0	0	18.64743291	0	
6.901112362	0	8.516181757		-5.567174369	0.024840794	
	0.132551673	AC005019.2	7	13854355		
13859025	-	359	lincRNA novel transcript			-
	0	0	18	0	8	0
	0	2.786057659	0	1.036159365		
ENSG00000157315	17.23776835	41.5947722		27.8997996		
68.37392066	150.6769213	25.01653231		28.91078005		
81.35579143	-1.487611927	0.024851203		0.132567226		TMED6
	16	69343248	69351809	-	1411	
protein_coding	transmembrane p24 trafficking protein 6 [Source:HGNC					
Symbol;Acc:HGNC:28331]	-	19	47	24	66	132
	29	0.659409608	1.578328087	1.058256817		
2.599135766	5.750349979	0.955656905				
ENSG00000129003	1212.087291	739.855948		861.4063126		
781.1202452	679.1876378	523.6219005		937.7831837		
661.3099278	0.504928446	0.024868506		0.132619536		VPS13C
	15	61852389	62060473	-	19703	
protein_coding	vacuolar protein sorting 13 homolog C [Source:HGNC					
Symbol;Acc:HGNC:23594]	-	1336	836	741	754	595
	607	3.320494646	2.010482795	2.339875215		
2.126429713	1.856230775	1.432475991				
ENSG00000198833	1161.281236	1097.39399		1122.966934		
972.7744167	912.0519707	612.4737221		1127.214053		
832.4333699	0.438530804	0.024877402		0.132626994		UBE2J1
	6	89326625	89352848	-	4290	
protein_coding	ubiquitin conjugating enzyme E2 J1 [Source:HGNC					
Symbol;Acc:HGNC:17598]	-	1280	1240	966	939	799
	710	14.61104778	13.69590812	14.00963049		
12.16242972	11.44819049	7.695415516				
ENSG00000197859	46.26979926	26.54985459		11.6249165		0
	11.41491828	0	28.14819012	3.804972761		
2.92661563	0.025021673	0.133355942		ADAMTSL2		9
	133532164	133575519	+	4677	protein_coding	
	ADAMTS like 2 [Source:HGNC Symbol;Acc:HGNC:14631]					
	51	30	10	0	10	0
	0.303934728	0.133026902	0	0.131425607		0
ENSG00000183309	1244.748325	1412.452264		1041.592518		
1536.341278	1607.220494	1610.547098		1232.931036		
1584.702957	-0.361258151	0.025074958		0.13359968		ZNF623
	8	143636013	143656418	+	7146	
protein_coding	zinc finger protein 623 [Source:HGNC					
Symbol;Acc:HGNC:29084]	zf-C2H2	1372	1596	896	1483	1408
	1867	9.401989959	10.58269588	7.801028138		
11.53161629	12.11119518	12.14821094				
ENSG00000159176	3923.860428	4753.308967		4973.139278		
5124.936144	5812.476389	6003.105116		4550.102891		

5646.839216	-0.311764169	0.025087273	0.133625042	CSRP1
1	201483530	201509456	- 10318	
protein_coding	cysteine and glycine rich protein 1 [Source:HGNC			
Symbol;Acc:HGNC:2469]	-	4325 5371	4278 4947	5092
6959	20.52670646	24.66528112	25.79598426	
26.6414851	30.33473684	31.36045326		
ENSG00000198586	1145.85797	861.9852791	1005.555277	
840.1704494	633.5279646	774.6498627	1004.466175	
749.4494256	0.421911334	0.025101194	0.133635163	TLK1
2	170990823	171231314	- 9405	
protein_coding	tousled like kinase 1 [Source:HGNC			
Symbol;Acc:HGNC:11841]	-	1263 974	865 811	555
898	6.576173068	4.907119089	5.722214772	
4.791528746	3.62728386	4.439648171		
ENSG00000108262	2719.938396	2877.119243	2888.79175	
2910.035502	3597.982242	4338.211759	2828.616463	
3615.409834	-0.354370298	0.025104282	0.133635163	GIT1
17	29573469	29594054	- 5635	
protein_coding	GIT ArfGAP 1 [Source:HGNC Symbol;Acc:HGNC:4272]	-		
2998	3251 2485	2809 3152	5029 26.05351904	
27.33691422	27.43717033	27.69936815	34.38267393	
41.49719421				
ENSG00000134109	2542.117207	2523.121182	2071.56012	
2441.777742	1407.459424	1250.826616	2378.932836	
1700.021261	0.485198717	0.02511743	0.133664925	EDEM1
3	5187646 5219957 +	6758	protein_coding	ER
degradation enhancing	alpha-mannosidase like protein 1 [Source:HGNC			
Symbol;Acc:HGNC:18967]	-	2802 2851	1782 2357	1233
1450	20.30386079	19.98966292	16.40576019	
19.3799851	11.2148185	9.976560325		
ENSG00000130045	6.350756762	19.46989337	0 0 0	
0	8.606883377	0 5.543093408	0.025138828	
0.133738565	NXNL2	9 88534033	88584274	
+	2498	protein_coding	nucleoredoxin like 2	
[Source:HGNC Symbol;Acc:HGNC:30482]	-	7 22	0	
0	0 0	0.137225332	0.417307978	0
0	0 0			
ENSG00000198455	406.4484328	366.3879934	433.6093854	
485.8692241	648.3673584	538.2867643	402.1486039	
557.5077823	-0.47144317	0.025221719	0.134111426	ZXDB
X	57591652	57597545	+ 5894	
protein_coding	zinc finger X-linked duplicated B [Source:HGNC			
Symbol;Acc:HGNC:13199]	zf-C2H2	448 414	373 469	568
624	3.722173099	3.328255439	3.937363826	
4.421552182	5.923597817	4.922723878		
ENSG00000132801	188.7082009	163.7241033	194.1361055	
248.6324388	262.5431205	315.7258906	182.1894699	
275.6338166	-0.59930431	0.025224078	0.134111426	ZSWIM3
20	45857617	45879122	+ 2773	
protein_coding	zinc finger SWIM-type containing 3 [Source:HGNC			

Symbol;Acc:HGNC:16157]	-	208	185	167	240	230
366	3.673179475	3.16117326		3.74691161		
4.809206393	5.09829929	6.13708635				
ENSG00000134070	471.7705023	506.2172276		834.6690046		
381.2364061	490.8414861	343.33034		604.2189115		
405.1360774	0.576171856	0.025266986		0.134299193		IRAK2
3	10164865	10243743		+	3483	
protein_coding	interleukin 1 receptor associated kinase 2					
[Source:HGNC Symbol;Acc:HGNC:6113]	-			520	572	718
368	430	398	7.311029777	7.781601654		
12.8256037	5.870923046		7.588611879	5.313254464		
ENSG00000123684	3038.383485		2677.995333	2853.917		
2399.303034	2219.060114		2369.669457	2856.765273		
2329.344202	0.294311388		0.025281028	0.134333463		LPGAT1
1	211743457		211830772	-	8799	
protein_coding	lysophosphatidylglycerol acyltransferase 1					
[Source:HGNC Symbol;Acc:HGNC:28985]	-			3349	3026	2455
2316	1944	2747	18.63848092	16.29528824		
17.35901288	14.62572088		13.58032937	14.5163142		
ENSG00000006534	422.7789501		361.0780225	463.8341683		
393.6680281	184.9216762		206.1707318	415.897047		
261.586812	0.668528558		0.025294472	0.134364537		
ALDH3B1 11	68008578		68029282	+	6626	
protein_coding	aldehyde dehydrogenase 3 family member B1					
[Source:HGNC Symbol;Acc:HGNC:410]	-	466	408	399	380	162
239	3.444000205		2.917663298	3.746522203		
3.186722221	1.502833762		1.677171553			
ENSG00000169981	414.6136915		410.637751	394.0846693		
522.1281214	650.6503421		504.6438415	406.4453706		
559.1407683	-0.458865484		0.025319223	0.134455638		ZNF35
3	44648727		44660791	+	2663	
protein_coding	zinc finger protein 35					
[Source:HGNC Symbol;Acc:HGNC:13099]	zf-C2H2	457	464	339	504	570
585	8.403761473		8.256067879	7.920185956		
10.51650454	13.15682352		10.21446719			
ENSG00000174891	1052.411121		814.1955409	964.8680694		
825.6668904	599.2832098		676.3090115	943.8249103		
700.4197039	0.42989782		0.025338071	0.134515348		RSRC1
3	158105855		158545730	+	5117	
protein_coding	arginine and serine rich coiled-coil 1					
[Source:HGNC Symbol;Acc:HGNC:24152]	-	1160	920	830	797	525
784	11.10123397		8.519200729	10.09182061		
8.654758383	6.306541336		7.124127179			
ENSG00000261592	1.814501932		10.61994184	9.299933199		0
0	0	7.244792323	0	5.288706047		
0.025347733	1	AC010531.3	16	87396704		
87400295	-	513	antisense	"novel transcript,		
antisense to MAP1LC3B"	-	2	12	8	0	0
0	0.190915555		1.108384188	0.970240655		0
0	0					

ENSG00000136861	1434.363777	1388.557395	1624.000835		
1309.464178	1189.434485	763.4355551	1482.307336		
1087.444739	0.447553031	0.02535911	0.134586646		
CDK5RAP2	9	120388869	120580170	-	10080
protein_coding	CDK5 regulatory subunit associated protein 2				
[Source:HGNC Symbol;Acc:HGNC:18672]	-		1581	1569	1397
1264	1042	885	7.680686188	7.37545559	
8.622688964	6.967846673	6.354107339	4.082383093		
ENSG00000121940	1087.793908	1031.019353	903.256012		
812.1993	829.8645591	652.1551182	1007.356425		
764.7396591	0.399035688	0.025397216	0.13471322		CLCC1
1	108929508	108963457	-	4964	
protein_coding	chloride channel CLIC like 1 [Source:HGNC				
Symbol;Acc:HGNC:29675]	-	1199	1165	777	784
756	11.82813013	11.12040472	9.738590233		727
8.77599432	9.002227794	7.081431211			
ENSG00000227036	148.7891584	105.3144232	189.4861389		
117.0644399	54.79160775	54.34625985	147.8632402		
75.40076918	0.970637024	0.02539819	0.13471322		
LINC00511	17	72290091	72640472	-	27605
processed_transcript	long intergenic non-protein coding RNA				
511 [Source:HGNC Symbol;Acc:HGNC:43564]	-		164	119	163
113	48	63	0.290927503	0.204261093	
0.367372547	0.227458796	0.106881083	0.10611672		
ENSG00000128335	202.3169654	307.0933181	275.510521		
338.7616978	438.332862	386.4622923	261.6402682		
387.852284	-0.56790926	0.025420378	0.134790489		APOL2
22	36226203	36239954	-	3484	
protein_coding	apolipoprotein L2 [Source:HGNC Symbol;Acc:HGNC:619]				
-	223	347	237	327	384
3.134407085	4.719301994	4.232305865	5.215328275		
6.774861765	5.97903211				
ENSG00000248749	11.79426256	0	13.9498998	0	0
0	8.581387452	0	5.531350452	0.025447752	
0.13485785	AC104063.1	4	84371393		
84380189	-	702	lincRNA novel transcript		-
13	0	12	0	0	0.906848886
0	1.063533026	0	0	0	
ENSG00000101343	1102.309924	1037.214319	1070.65481		
1344.687106	1338.969914	1342.266354	1070.059684		
1341.974458	-0.326696547	0.025452115	0.13485785		CRNKL1
20	20034368	20056046	-	4567	
protein_coding	crooked neck pre-mRNA splicing factor 1 [Source:HGNC				
Symbol;Acc:HGNC:15762]	-	1215	1172	921	1298
1556	13.02788601	12.15970506	12.54687193		
15.79267596	15.78753625	15.84198505			
ENSG00000176845	633.2611743	700.0311661	1407.777388		
513.8403735	762.5165412	500.3306463	913.6899095		
592.229187	0.625024549	0.025455953	0.13485785		METRNL
17	83079691	83095119	+	2626	

protein_coding	"meteorin like, glial cell differentiation regulator [Source:HGNC Symbol;Acc:HGNC:27584]"	-	698	791	1211
	496	668	580	13.01635499	14.27276787
28.69169913	10.49540008	15.63612382	10.26985448		
ENSG00000164307	699.4904948	608.8766653	797.4692718		
559.4229872	553.6235367	414.0667417	701.9454773		
509.0377552	0.464008449	0.025490189	0.13499879		ERAP1
	5	96760810	96808100	-	7945
protein_coding	endoplasmic reticulum aminopeptidase 1 [Source:HGNC Symbol;Acc:HGNC:18173]	-	771	688	686
	480	4.752139271	4.103183858	5.372013072	540
3.776694901	3.752279643	2.809172149			485
ENSG00000236801	65.32206955	54.86969949	63.93704074		
159.5391482	89.0363626	104.3793245	61.37626993		
117.6516118	-0.939727904	0.025516361	0.135096949		
RPL24P8	9	70217195	70217668	+	474
processed_pseudogene	ribosomal protein L24 pseudogene 8 [Source:HGNC Symbol;Acc:HGNC:36409]	-	72	62	55
	154	78	121	7.438456683	6.197831838
7.219235254	18.05320953	10.11494723	11.86965365		
ENSG00000242759	37.19728961	61.06466557	24.41232465		
101.5249125	66.20652603	104.3793245	40.89142661		
90.70358767	-1.144206954	0.025537027	0.135165908		
LINC00882	3	106836811	107240641	-	3882
lincRNA	long intergenic non-protein coding RNA 882 [Source:HGNC Symbol;Acc:HGNC:48568]	-	41	69	21
	98	58	121	0.517198205	0.842209237
0.336566286	1.402757464	0.918374513	1.44930856		
ENSG00000166682	22.68127415	3.539980612	0	0	0
	0	8.740418254	0	5.564518905	0.025570776
	0.135304056	TMPRSS5	11	113687546	113706373
	-	2666	protein_coding	transmembrane serine protease	
5	[Source:HGNC Symbol;Acc:HGNC:14908]	-	25	4	0
	0	0	0	0.45920705	0.071092909
	0	0	0		0
ENSG00000146457	1592.225445	1592.10628	1613.53841		
1885.462661	1937.111632	2107.427188	1599.290045		
1976.66716	-0.305936482	0.025587902	0.135354186		WTAP
	6	159725585	159756319	+	6419
protein_coding	WT1 associated protein [Source:HGNC Symbol;Acc:HGNC:16846]	-	1755	1799	1388
	2443	13.38870056	13.27976007	13.45330342	1820
15.75491469	16.25031661	17.69648896			1697
ENSG00000242296	0	0	0	0	31.96177119
	0	10.65392373	-5.884819423	0.025608101	0
0.135418577	DEFB109A	8	12393209		12400366
	-	265	unprocessed_pseudogene	defensin beta 109A	
(pseudogene)	[Source:HGNC Symbol;Acc:HGNC:18090]	-			0
	0	0	0	28	0
	0	0	0	0	0
	0	6.494706318	0		

ENSG00000259776	4.53625483	0	0	15.53952742		
26.25431205	7.763751407	1.512084943				
16.51919696	-3.411542728	0.025615386	0.135418577			
AC093426.1	1	239247808	239250818	-	3011	
lincRNA novel transcript			-	5	0	0
15	23	9	0.081318233	0	0	
0.276816866	0.469531183	0.138983349				
ENSG00000266970	0	0	0	14.83939377		
10.35166854	0	8.39702077	-5.545030644	0.025654579		
0.135585253	AC061992.1	17	78360453			
78373911	+	1188	lincRNA uncharacterized	LOC101928674		
[Source:NCBI gene;Acc:101928674]			-	0	0	0
0	13	12	0	0	0	0
0.672626962	0.469673247					
ENSG00000143157	2640.100311	2471.791463	2176.184369			
2916.251313	3095.725838	2979.555262	2429.358714			
2997.177471	-0.302574191	0.025698652	0.135777613	POGK		
1	166839447	166856344	+	8448		
protein_coding	pogo transposable element derived with KRAB domain					
[Source:HGNC Symbol;Acc:HGNC:18800]		-	2910	2793	1872	
2815	2712	3454	16.86816216	15.66547152		
13.78665113	18.51554661	19.73254674	19.01075856			
ENSG00000250497	5.443505796	3.539980612	0	4.14387398		
43.37668947	18.978059	2.994495469	22.16620748			
-2.855487372	0.02571696	0.135833774	AC007126.1			
4	13777377	13782157	-	4781		
lincRNA novel transcript		-	6	4	0	4
38	22	0.061455561	0.039643107	0		
0.04648933	0.488553595	0.213961166				
ENSG00000234616	1078.721399	993.849557	852.1063794			
1125.061785	1295.593225	1378.497194	974.892445			
1266.384068	-0.376868552	0.02572599	0.135840905	JRK		
8	142657460	142681968	-	11229		
protein_coding	Jrk helix-turn-helix protein [Source:HGNC					
Symbol;Acc:HGNC:6199]	-	1189	1123	733	1086	1135
1598	5.185247089	4.738764379	4.061343656			
5.374038669	6.213011249	6.617084967				
ENSG00000013619	459.0689888	359.3080322	382.4597528			
287.9992416	324.1836792	168.2146138	400.2789246			
260.1325115	0.624783653	0.025753107	0.135943513	MAMLD1		
X	150361422	150514178	+	5958		
protein_coding	mastermind like domain containing 1 [Source:HGNC					
Symbol;Acc:HGNC:2568]	-	506	406	329	278	284
195	4.158902141	3.228880525	3.435597244			
2.592724316	2.92998368	1.521826459				
ENSG00000162430	2161.071801	2031.063876	2211.059118			
1793.261465	1594.664084	1783.074907	2134.398265			
1723.666818	0.307900095	0.025763864	0.135951035			
SELENON 1	25800176	25818224	+	4424		
protein_coding	selenoprotein N [Source:HGNC Symbol;Acc:HGNC:15999]					

-	2382	2295	1902	1731	1397	2067		
26.36667235	24.58068676		26.74867296		21.74172475			
19.41013911	21.72482949							
ENSG00000173209	333.8683555		307.9783133		184.8361723			
158.5031797	179.214217		181.1541995		275.560947			
172.9571988	0.6740864		0.025769903		0.135951035		AHSA2P	
2	61177418		61191203		+	9083		
transcribed_unitary_pseudogene	"activator of HSP90 ATPase homolog 2, pseudogene [Source:HGNC Symbol;Acc:HGNC:20437]"						-	368 348
159	153	157	210	1.984025218		1.815416886		
1.0891173		0.935996361	1.062472501			1.075031027		
ENSG00000131196	245.8650118		144.25421		256.9106546			
162.6470537	106.15874		108.6925197		215.6766255			
125.8327711	0.776228399		0.025812751		0.13611101		NFATC1	
18	79395856		79529325		+	9068		
protein_coding	nuclear factor of activated T cells 1 [Source:HGNC Symbol;Acc:HGNC:7775]						RHD	271 163 221 157 93
126	1.463478892		0.851731156		1.516308637			
0.962055628	0.630403764		0.646085585					
ENSG00000033178	1936.980812		1385.017415		1634.46326			
1263.881564	1378.922128		1180.090214		1652.153829			
1274.297969	0.375028128		0.02582191		0.13611101		UBA6	
4	67612652		67701179		-	11432		
protein_coding	ubiquitin like modifier activating enzyme 6 [Source:HGNC Symbol;Acc:HGNC:25581]						-	2135 1565 1406
1220	1208	1368	9.145434573		6.486621645			
7.65191173	5.929931253		6.495193274		5.564099655			
ENSG00000106400	1316.421152		1672.640839		1603.075985			
1749.750788	1880.037041		2294.61986		1530.712659			
1974.802563	-0.368076216		0.025827821		0.13611101		ZNHIT1	
7	101217668		101224190		+	5510		
protein_coding	zinc finger HIT-type containing 1 [Source:HGNC Symbol;Acc:HGNC:21688]						-	1451 1890 1379 1689 1647
2660	12.8956874		16.25311642		15.57110789			
17.03295874	18.37339283		22.4471421					
ENSG00000102921	537.9998228		560.2019319		585.8957915			
766.6166862	667.7727195		790.1773655		561.3658488			
741.5222571	-0.402558313		0.025831006		0.13611101		N4BP1	
16	48538726		48620148		-	7839		
protein_coding	NEDD4 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:29850]						-	593 633 504 740 585
916	3.704441258		3.826216026		4.000154067			
5.245454194	4.587145987		5.433326799					
ENSG00000267565	4.53625483		19.46989337		17.43737475			
3.107905485	0	0	13.81450765		1.035968495			
3.751442672	0.025872101		0.136286953		AC011477.3		19	
19892433		19895847		-	403		antisense	
"novel transcript, antisense to ZNF253"				-	5		22	
15	3	0	0	0.607566251		2.586688162		
2.315757395		0.413645451		0				



ENSG00000267321	200.5024635	166.3790888	155.7738811		
93.23716454	114.1491828	107.8298807	174.2184778		
105.072076	0.730709372	0.025880213	0.136289098		
LINC02001	17	35568109	35574843	+	1504
lincRNA	long intergenic non-protein coding RNA 2001				
[Source:HGNC Symbol;Acc:HGNC:52836]	-	221	188		134
90	100	125	7.195701199	5.922928007	
5.543241615	3.325115358	4.086951876	3.864498961		
ENSG00000254635	387.3961625	331.8731824	288.2979292		
361.5530047	530.7937001	584.8692727	335.855758		
492.4053258	-0.551410495	0.025894034	0.136321297		WAC-
AS1	10	28522652	28532743	-	2943
antisense	WAC antisense RNA 1 (head to head) [Source:HGNC				
Symbol;Acc:HGNC:27347]	-	427	375	248	349
678	7.105036224	6.037643228	5.242860053		465
6.589420285	9.712030799	10.71199719			
ENSG00000251191	5.443505796	0.884995153	16.2748831		0
0	0	7.534461349	0	5.340287413	
0.025937662	1	LINC00589	8	29673922	
29748109	-	2074	lincRNA long intergenic non-protein		
coding RNA 589	[Source:HGNC Symbol;Acc:HGNC:32299]				-
1	14	0	0	0.141667811	6
0.022846395	0.419977603	0	0	0	
ENSG00000198590	5.443505796	4.424975766	3.48747495		
7.251779464	29.67878753	31.91764468	4.451985504		
22.94940389	-2.360597648	0.025962425	0.136625691		
C3orf35	3	37386269	37435497	+	3072
processed_transcript	chromosome 3 open reading frame 35				
[Source:HGNC Symbol;Acc:HGNC:24082]	-	6	5		3
7	26	37	0.095644218	0.077121458	
0.060758479	0.126616082	0.520234916	0.560030308		
ENSG00000130695	1091.422912	953.1397799	918.3684034		
676.4874272	886.9391505	665.0947039	987.6436985		
742.8404272	0.412280666	0.0259673	0.136625691		CEP85
1	26234200	26278808	+	5145	
protein_coding	centrosomal protein 85 [Source:HGNC				
Symbol;Acc:HGNC:25309]	-	1203	1077	790	653
771	11.45009083	9.91874591	9.553193155		777
7.05244724	9.282885633	6.967869642			
ENSG00000160298	423.6862011	440.7275863	398.7346359		
217.5533839	175.7897415	34.50556181	421.0494744		
142.6162291	1.563368984	0.026053583	0.137011539		
C21orf58	21	46300181	46323875	-	5315
protein_coding	chromosome 21 open reading frame 58				
[Source:HGNC Symbol;Acc:HGNC:1300]	-	467	498		343
210	154	40	4.302712173	4.439688651	
4.01511231	2.195472843	1.781003661	0.349935289		
ENSG00000137700	861.8884177	867.2952501	732.3697394		
634.0127189	582.1608324	655.6056744	820.5178024		
623.9264086	0.39536817	0.026057479	0.137011539		

SLC37A4	11	119024114	119030906	-	6186	
protein_coding		solute carrier family 37 member 4				[Source:HGNC
Symbol;Acc:HGNC:4061]		-	950 980	630 612	510	
	760	7.520424804	7.506588357	6.336325519		
5.497352051		5.067661764	5.712611565			
ENSG00000171497		780.2358307	814.1955409	759.1070474		
644.3724038		521.6617655	615.9242783	784.5128063		
593.9861492		0.400950846	0.026063872	0.137011539		PPID
	4	158709134	158723396	-	2509	
protein_coding		peptidylprolyl isomerase D				[Source:HGNC
Symbol;Acc:HGNC:9257]		-	860 920	653 622	457	
	714	16.78519819	17.37455167	16.19270361		
13.77532224		11.19600024	13.23209373			
ENSG00000122257		1486.077082	1122.173854	1177.604041		
1144.745187		827.5815754	854.8752939	1261.951659		
942.4006854		0.421525832	0.026113844	0.137233446		RBBP6
	16	24537693	24572863	+	10475	
protein_coding		"RB binding protein 6, ubiquitin ligase				[Source:HGNC
Symbol;Acc:HGNC:9889]"		-	1638 1268	1013 1105	725	
	991	7.657527221	5.735769136	6.016754069		
5.861655492		4.254331576	4.398966361			
ENSG00000279530		4.53625483	13.2749273	3.48747495		0
	0	0	7.099552359	0	5.264044883	
0.026131524		1	AC092881.1	12	70321542	
70324274		-	2733	TEC	TEC	-
	3	0	0	0	0.089589901	5 15
	0.068294931	0	0	0	0.260062701	
ENSG00000174353		79.83808501	49.55972857	31.38727455		
32.11502334		11.41491828	10.35166854	53.59502938		
17.96053672		1.582544193	0.026139443	0.137327179		
STAG3L3	7	72969696	73005922	-	3644	
transcribed_unprocessed_pseudogene						stromal antigen 3-like 3
(pseudogene) [Source:HGNC						Symbol;Acc:HGNC:33845]
	56	27	31	10	12	1.182586692
0.728175562		0.460990783	0.472710631	0.168682097		
0.153120696						
ENSG00000198040		778.4213288	715.9610789	582.4083166		
1168.572462		749.9601311	941.1391984	692.2635748		
953.2239306		-0.460908775	0.026152257	0.137353704		ZNF84
	12	133037292	133063304	+	9520	
protein_coding		zinc finger protein 84				[Source:HGNC
Symbol;Acc:HGNC:13159]		zf-C2H2	858 809	501 1128	657	
	1091	4.413458254	4.026595595	3.274218244		
6.58391469		4.242049983	5.328669936			
ENSG00000159322		921.7669814	991.1945715	1006.717769		
690.9909861		809.3177062	759.9849989	973.2264406		
753.4312304		0.369289228	0.026177514	0.137445547		ADPGK
	15	72751369	72785846	-	5931	
protein_coding		ADP dependent glucokinase				[Source:HGNC
Symbol;Acc:HGNC:25250]		-	1016 1120	866 667	709	

881	8.388696218	8.947805588	9.084411839	
6.248991782	7.347941184	6.90683375		
ENSG00000150768	2220.950365	1987.699114	2285.458584	
1783.937748	1845.792286	1573.453619	2164.702687	
1734.394551	0.319920855	0.026201732	0.137509093	DLAT
11	112024814	112064390	+ 4831	
protein_coding	dihydrolipoamide S-acetyltransferase [Source:HGNC			
Symbol;Acc:HGNC:2896]	-	2448 2246	1966 1722	1617
1824	24.81435891	22.02922178	25.31939491	
19.80651893	20.57407613	17.55572683		
ENSG00000103047	690.4179851	620.3816023	719.5823313	
754.1850643	1036.47458	915.260027	676.7939729	
901.9732238	-0.414593094	0.026211414	0.137509093	TANG06
16	68843604	69085180	+ 6839	
protein_coding	transport and golgi organization 6 homolog			
[Source:HGNC Symbol;Acc:HGNC:25749]	-	761	701	619
728	908 1061	5.449049293	4.856818287	
5.631251084	5.914946478	8.160947894	7.213628928	
ENSG00000150636	208.6677222	114.1643748	117.4116566	
70.44585765	83.32890346	86.26390453	146.7479179	
80.01288855	0.875915282	0.026214172	0.137509093	
CCDC102B	18 68715209	69055189	+ 5805	
protein_coding	coiled-coil domain containing 102B			
[Source:HGNC Symbol;Acc:HGNC:26295]	-	230	129	101
68	73 100	1.940234825	1.052964979	
1.082495242	0.650906686	0.772979536	0.800993135	
ENSG00000251127	32.66103478	53.98470434	26.73730795	
137.7838098	63.92354238	61.24737221	37.79434902	
87.6515748	-1.208158226	0.026220712	0.137509093	
AC091173.1	8 61759094	61765969	- 2750	
lincRNA	novel transcript	-	36 61	23
133	56 71	0.641059721	1.051050497	
0.520357704	2.687391819	1.251707036	1.200484821	
ENSG00000129910	11.79426256	15.0449176	30.2247829	
6.215810969	0 0	19.02132102	2.07193699	
3.206211005	0.026302681	0.13789808	CDH15 16	
89171767	89195492	+ 4628	protein_coding	
cadherin 15 [Source:HGNC Symbol;Acc:HGNC:1754]	-	13	17	
26	6 0	0 0.13755573	0.1740532	
0.349531921	0.072039376	0	0	
ENSG00000189046	415.5209424	556.6619513	519.6337675	
475.5095392	800.1857715	904.0457194	497.2722204	
726.5803434	-0.547762926	0.026313535	0.137914112	ALKBH2
12	109088188	109093631	- 2290	
protein_coding	"alkB homolog 2, alpha-ketoglutarate dependent			
dioxygenase [Source:HGNC Symbol;Acc:HGNC:32487]"	-			458
629	447 459	701 1048	9.793967966	
13.01492303	12.14447898	11.13753923	18.81611228	
21.27927457				
ENSG00000047056	635.9829272	676.136297	483.5965264	

894.0408111	760.2335576	775.5125017	598.5719168	
809.9289568	-0.43475991	0.026336642	0.137994331	WDR37
10	1049538	1132384 +	6000	protein_coding WD
repeat domain 37	[Source:HGNC Symbol;Acc:HGNC:31406]			- 701
764	416	863	666	899
5.72130962				
6.03348933	4.313689952	7.992296535	6.82292094	
6.966898116				
ENSG00000204536	1201.200279	1316.872788	1136.916834	
873.3214412	1101.539614	826.4082054	1218.329967	
933.7564203	0.385049684	0.026401107	0.138291142	CCHCR1
6	31142439	31158238	-	5086
protein_coding	coiled-coil alpha-helical rod protein 1 [Source:HGNC			
Symbol;Acc:HGNC:13930]	-	1324	1488	978 843 965
958	12.74794887	13.86286571	11.96380554	
9.210077028	11.66267887	8.758307144		
ENSG00000114416	3906.62266	3555.02553	3936.196727	
3472.566395	2963.312786	2782.87356	3799.281639	
3072.91758	0.306163306	0.026503995	0.138788975	FXR1
3	180868141	180982753	+	12054
protein_coding	FMR1 autosomal homolog 1 [Source:HGNC			
Symbol;Acc:HGNC:4023]	-	4306	4017	3386 3352 2596
3226	17.49329105	15.79054376	17.47682805	
15.45200594	13.2379538	12.4441201		
ENSG00000139618	2037.68567	1352.272594	1343.840347	
1530.125467	763.658033	984.2711507	1577.93287	
1092.684884	0.530261614	0.026527586	0.138871403	BRCA2
13	32315474	32400266	+	12273
protein_coding	"BRCA2, DNA repair associated [Source:HGNC			
Symbol;Acc:HGNC:1101]"	-	2246	1528	1156 1477 669
1141	8.961644281	5.899280694	5.860220353	
6.68716139	3.350601231	4.322807819		
ENSG00000124783	7206.294423	6103.811571	6609.927521	
6321.479756	4793.124186	4782.470867	6640.011172	
5299.024936	0.325495646	0.026642536	0.139431898	SSR1
6	7268306	7347446 -	11349	protein_coding signal
sequence receptor subunit 1	[Source:HGNC Symbol;Acc:HGNC:11323]			-
7943	6897	5686	6102	4199 5544 34.27327851
28.79579485	31.17138549	29.87628894	22.7423657	
22.71415807				
ENSG00000268182	7.258007728	5.309970919	8.137441549	0
0	0	6.901806732	0	5.218905881
0.026678402	1	SMIM17	19	56643145 56655766
+	1076	protein_coding	small integral membrane	
protein 17	[Source:HGNC Symbol;Acc:HGNC:27114]			- 8 6
7	0	0	0	0.364088028 0.264219837
0.404755366	0	0	0	
ENSG00000160392	890.0131976	1060.224193	868.3812625	
1029.752684	1265.914437	1414.728034	939.5395512	
1236.798385	-0.396478763	0.026711732	0.139734855	
C19orf47	19	40319536	40348527	- 4875

protein_coding	chromosome 19 open reading frame 47					
[Source:HGNC Symbol;Acc:HGNC:26723]	-	981	1198	747		
994	1109	1640	9.854238538	11.64417272		
9.533510043	11.32984081	13.98312649	15.64228686			
ENSG00000151176	1123.176696	938.0948623	1110.179526			
857.7819138	833.2890346	762.572916	1057.150361			
817.8812881	0.370268888	0.026716224	0.139734855	PLBD2		
12	113358566	113391625	+ 5260			
protein_coding	phospholipase B domain containing 2 [Source:HGNC					
Symbol;Acc:HGNC:27283]	-	1238	1060	955	828	730
884	11.52560109	9.548750855	11.29599455			
8.746949845	8.530696205	7.814434206				
ENSG00000166887	1389.90848	1395.637356	1355.465264			
1751.822725	1610.64497	1774.448516	1380.337033			
1712.305404	-0.311050853	0.02673793	0.139807046	VPS39		
15	42158701	42208316	- 8354			
protein_coding	"VPS39, HOPS complex subunit [Source:HGNC					
Symbol;Acc:HGNC:20593]"	-	1532	1577	1166	1691	1411
2057	8.980344101	8.94465642	8.683822267			
11.24763411	10.38197319	11.44908656				
ENSG00000187446	1225.696055	806.2305845	1061.354876			
888.8609686	715.7153763	659.0562306	1031.093839			
754.5441918	0.450657557	0.026785921	0.139989861	CHP1		
15	41230839	41281890	+ 3950			
protein_coding	calcineurin like EF-hand protein 1 [Source:HGNC					
Symbol;Acc:HGNC:17433]	-	1351	911	913	858	627
764	16.74892497	10.92817704	14.38071663			
12.06986009	9.757033709	8.993469809				
ENSG00000162814	93.4468495	133.6342681	97.64929859			
145.0355893	167.7992987	244.9894889	108.2434721			
185.941459	-0.781041849	0.026790072	0.139989861			
SPATA17 1	217631324	217871696	+ 6515			
protein_coding	spermatogenesis associated 17 [Source:HGNC					
Symbol;Acc:HGNC:25184]	-	103	151	84	140	147
284	0.774197007	1.098219038	0.802179783			
1.194058651	1.386916372	2.026912207				
ENSG00000171812	36.29003864	17.69990306	47.66215765			
8.287747959	0	12.93958568	33.88403312	7.075777879		
2.236266121	0.026796635	0.139989861	COL8A2 1			
36095236	36125220	- 4670	protein_coding			
collagen type VIII alpha 2 chain [Source:HGNC						
Symbol;Acc:HGNC:2216]	-	40	20	41	8	0
15	0.419441883	0.20292687	0.546227829			
0.095188646	0	0.149350058				
ENSG00000157077	814.7113674	653.126423	678.8951235			
905.4364645	888.0806423	1023.089908	715.577638			
938.8690049	-0.391975669	0.026828649	0.140096684	ZFYVE9		
1	52142094	52346686	+ 5809			
protein_coding	zinc finger FYVE-type containing 9 [Source:HGNC					
Symbol;Acc:HGNC:6775]	-	898	738	584	874	778

1186	7.570135336	6.019791178	6.254870424	
8.36030458	8.232383257	9.493237163		
ENSG00000149527	53.52780699	26.54985459	30.2247829	
66.30198367	113.007691	69.01112362	36.76748149	
82.77359943	-1.166286945	0.026832922	0.140096684	PLCH2
1	2425980	2505530 +	10781	protein_coding
phospholipase C eta 2	[Source:HGNC Symbol;Acc:HGNC:29037]			-
59	30	26	64	99
0.131852585	0.150044869	0.329862519	0.564447441	
0.345034052				
ENSG00000136630	129.7368881	163.7241033	237.1482966	
174.0427071	369.8433523	355.4072867	176.8697627	
299.7644487	-0.764052587	0.026851699	0.140153352	HLX
1	220879400	220885059	+ 5660	
protein_coding	H2.0 like homeobox [Source:HGNC Symbol;Acc:HGNC:4978]			
Homeobox	143	185	204	168
1.237223869	1.548751493	2.242438715	1.649319882	
3.518648943	3.384634703			
ENSG00000063854	311.1870813	331.8731824	409.1970608	
235.1648483	231.7228411	256.2037964	350.7524415	
241.0304953	0.539128516	0.026898621	0.140356847	HAGH
16	1795620	1827194 -	5975	protein_coding
hydroxyacylglutathione hydrolase	[Source:HGNC Symbol;Acc:HGNC:4805]			
-	343	375	352	227
2.811155659	2.973855066	3.665317501	2.111057153	
2.088360588	2.311264016			
ENSG00000134138	350.1988729	276.1184878	381.2972612	
276.6035881	194.0536108	194.9564242	335.8715406	
221.8712077	0.597457709	0.0269165	0.140408721	MEIS2
15	36889204	37101299	- 10798	
protein_coding	Meis homeobox 2 [Source:HGNC Symbol;Acc:HGNC:7001]			
Homeobox	386	312	328	267
1.750542524	1.369108011	1.889893656	1.373978642	
0.967727223	0.973186631			
ENSG00000178035	9050.735637	10119.91958	9848.629258	
10279.91537	12339.52666	12752.39301	9673.094823	
11790.61168	-0.285635508	0.026945387	0.140512324	IMPDH2
3	49024325	49029408	- 2773	
protein_coding	inosine monophosphate dehydrogenase 2 [Source:HGNC Symbol;Acc:HGNC:6053]			
	-	9976	11435	8472
14783	176.1713387	195.3946823	190.0828453	10810
198.840646	239.6200666	247.8812774		
ENSG00000203706	117.0353746	78.76456863	58.12458249	
24.86324388	36.5277385	51.75834272	84.64150858	
37.7164417	1.164251967	0.026952248	0.140512324	
SERTAD4-AS1	1	210231456	210234047	- 1004
antisense	SERTAD4 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:32019]			
	-	129	89	50
60	6.291941572	4.200323447	3.098440339	32
1.328279814	1.959131672	2.778744114		

ENSG0000004777	241.328757		219.478798		254.5856713	
173.0067386	58.21608324		166.4893357		238.4644088	
132.5707192	0.843132921		0.02698309		0.140631668	
ARHGAP33	19	35774532	35788822	+	5260	
protein_coding	Rho GTPase activating protein 33 [Source:HGNC					
Symbol;Acc:HGNC:23085]	-	266	248	219	167	51
193	2.476421558		2.23404737		2.590390372	
1.764179498	0.595980146		1.706092536			
ENSG00000078098	543.4433286		464.6224554		481.2715431	
359.4810677	422.3519764		227.736708		496.4457757	
336.5232507	0.563578614		0.027024868		0.140807921	FAP
2	162170684		162245151	-	7003	
protein_coding	fibroblast activation protein alpha [Source:HGNC					
Symbol;Acc:HGNC:3590]	-	599	525	414	347	370
264	4.188624027		3.552234418		3.678096009	
2.753324454	3.247618135		1.752874482			
ENSG00000226950	891.8276996		702.6861516		739.3446893	
645.4083723	369.8433523		620.2374736		777.9528468	
545.1630661	0.511857134		0.027038494		0.140835092	DANCR
4	52712404		52720351	+	2285	
processed_transcript	differentiation antagonizing non-protein					
coding RNA [Source:HGNC	Symbol;Acc:HGNC:28964]	-	983	794		
636	623	324	719	21.06667508	16.46496223	
17.31720339	15.15004371		8.715778125		14.63098968	
ENSG00000148541	99.79760626		66.37463648		90.67434869	
64.23004668	25.11282022		12.07694663		85.61553048	
33.80660451	1.34459602		0.027047175		0.140835092	FAM13C
10	59246129		59363181	-	6753	
protein_coding	family with sequence similarity 13 member C					
[Source:HGNC	Symbol;Acc:HGNC:19371]	-	110	75	78	
62	22	14	0.797672498		0.526248601	
0.718628935	0.510160681		0.200250353		0.09639673	
ENSG00000175198	420.9644482		367.2729885		462.6716767	
387.4522171	238.5717921		145.7859987		416.9697045	
257.2700026	0.697916627		0.027053968		0.140835092	PCCA
13	100089015		100530437	+	7288	
protein_coding	propionyl-CoA carboxylase subunit alpha [Source:HGNC					
Symbol;Acc:HGNC:8653]	-	464	415	398	374	209
169	3.117728551		2.698150519		3.39767281	
2.851512514	1.762727916		1.078224904			
ENSG00000283445	8.165258694		10.61994184		2.3249833	0
0	0	7.036727944	0	5.251925837		
0.027060969	1	AL136985.3	1	58715609		
58771295	+	4739	lincRNA novel transcript		-	
9	12	2	0	0	0.093000329	
0.119983349	0.026257304		0	0		
ENSG00000244578	9.07250966		15.92991276		0	0
0	8.334140805		0	5.496600175	0.027072872	
0.140892038	LINC01391		3	138935189		
138944020	-	3889	lincRNA long intergenic non-protein			

coding RNA	1391	[Source:HGNC Symbol;Acc:HGNC:50666]				-	10
	18	0	0	0	0	0.125918848	
	0.219311297	0	0	0	0		
	ENSG00000165475	280.3405485	334.5281679	454.5342351			
	483.7972871	512.5298308	532.2482909	356.4676505			
	509.5251363	-0.517960841	0.027096125	0.140971576		CRYL1	
	13	20403666	20525873	-	4327		
protein_coding	crystallin lambda 1	[Source:HGNC					
	Symbol;Acc:HGNC:18246]	-	309	378	391	467	449
	617	3.497037326	4.139342337	5.622075957			
	5.997110196	6.378327373	6.630240577				
	ENSG00000134056	237.6997531	395.5928334	404.5470942			
	268.3158402	184.9216762	213.0718442	345.9465602			
	222.1031202	0.638016337	0.027129047	0.141101356		MRPS36	
	5	69217760	69230129	+	1530		
protein_coding	mitochondrial ribosomal protein S36	[Source:HGNC					
	Symbol;Acc:HGNC:16631]	-	262	447	348	259	162
	247	8.385684991	13.84339252	14.15124532			
	9.406333595	6.508350659	7.506483608				
	ENSG00000104774	694.046989	623.0365878	1050.892452			
	563.5668612	639.2354238	453.7481378	789.3253428			
	552.1834743	0.515126755	0.027174405	0.141257467		MAN2B1	
	19	12646511	12666742	-	5374		
protein_coding	mannosidase alpha class 2B member 1	[Source:HGNC					
	Symbol;Acc:HGNC:6826]	-	765	704	904	544	560
	526	6.970957847	6.207281454	10.46592492			
	5.624880253	6.405274187	4.551128524				
	ENSG00000256128	42.6407954	47.78973827	26.73730795			
	62.15810969	115.2906746	78.50015312	39.05594721			
	85.31631249	-1.120288137	0.027175033	0.141257467			
	LINC00944	12	126729787	126772411	-	1853	
	lincRNA	long intergenic non-protein coding RNA	944				
	[Source:HGNC Symbol;Acc:HGNC:48640]	-	47	54		23	
	60	101	91	1.242084443	1.380844522		
	0.772252394	1.799234934	3.350374192	2.283478838			
	ENSG00000267505	4.53625483	2.654985459	8.137441549			
	23.82727538	23.97132839	21.56597613	5.109560613			
	23.12152664	-2.196769844	0.027188006	0.141283385			
	AC005180.2	17	44793199	44794474	+	562	
	lincRNA	novel transcript	-	5	3	7	
	23	21	25	0.435674732	0.252936427		
	0.774940879	2.274068613	2.296837866	2.068400867			
	ENSG00000100982	1188.498765	1309.792827	1461.252004			
	1521.837719	1814.972007	1685.596694	1319.847865			
	1674.135473	-0.343489044	0.027203111	0.141320362		PCIF1	
	20	45934628	45948023	+	3219		
protein_coding	PDX1 C-terminal inhibiting factor 1	[Source:HGNC					
	Symbol;Acc:HGNC:16200]	-	1310	1480	1257	1469	1590
	1954	19.92870152	21.78548232	24.29523743			
	25.35787535	30.36151985	28.22504226				



ENSG00000159461	2494.032905	2492.146351	2986.441049		
2260.483256	1991.90324	2156.597613	2657.540102		
2136.328036	0.314414642	0.027215697	0.141344233	AMFR	
16	56361452	56425538	- 5758		
protein_coding	autocrine motility factor receptor [Source:HGNC				
Symbol;Acc:HGNC:463]	-	2749 2816	2569 2182	1745	
2500	23.37931395	23.17327581	27.75871068		
21.05693368	18.62821025	20.18828217			
ENSG00000247809	43.54804637	23.89486913	49.98714095		
13.46759043	14.83939377	9.489029498	39.14335215		
12.59867123	1.638466189	0.027285955	0.141667523	NR2F2-	
AS1 15	96110040	96327361	- 6063		
antisense	NR2F2 antisense RNA 1 [Source:HGNC				
Symbol;Acc:HGNC:44222]	-	48 27	43 13	13	
11	0.387687995	0.211009805	0.441253064		
0.119142807	0.131796278	0.084359915			
ENSG00000139641	3476.585702	3080.668128	3563.036907		
3114.121296	2717.892043	1913.333402	3373.430246		
2581.782247	0.386169257	0.0273107	0.141754391	ESYT1	
12	56118250	56144671	+ 5493		
protein_coding	extended synaptotagmin 1 [Source:HGNC				
Symbol;Acc:HGNC:29534]	-	3832 3481	3065 3006	2381	
2218	34.16210199	30.02761681	34.71584386		
30.40824956	26.64386083	18.77513035			
ENSG00000227076	19.05227029	20.35488852	17.43737475		
1.035968495	4.565967313	4.313195226	18.94817785		
3.305043678	2.517781671	0.027339179	0.141860584		
AL158166.1	10 127934698	127936167	+ 371		
sense_intronic	novel transcript				
15 1 4 5		2.771877726	2.937516855	23	
2.515499272	0.149774588	0.662725134	0.626652985		
ENSG00000176834	310.2798304	232.7537253	276.6730127		
165.7549592	216.8834474	148.3739158	273.2355228		
177.0041074	0.628530332	0.027394204	0.142104422	VSIG10	
12	118063593	118136026	- 8350		
protein_coding	V-set and immunoglobulin domain containing 10				
[Source:HGNC Symbol;Acc:HGNC:26078]	-		342 263	238	
160 190 172		2.005710805	1.492435991		
1.773361715	1.064744857	1.398667507	0.957795935		
ENSG00000275367	0.907250966	4.424975766	5.812458249		
18.64743291	0 65.56056744	3.714894994	28.06933345		
-2.935449419	0.027425056	0.142222753	AC092111.1		
12	8217758 8221115 +	3358	lincRNA novel		
transcript	- 1 5	5	18 0	76	
0.014583037	0.070553044	0.092639491	0.297854288		
0	1.052358998				
ENSG00000169375	1696.559306	1556.706474	2036.685371		
1666.873308	1184.868518	1130.057149	1763.31705		
1327.266325	0.409581649	0.027458093	0.142352346	SIN3A	
15	75369379	75455842	- 12453		

protein_coding	SIN3 transcription regulator family member A							
	[Source:HGNC Symbol;Acc:HGNC:19353]	-	1870	1759				1752
	1609	1038	1310	7.353537339	6.692960966			
	8.75320219	7.179498344	5.123547013	4.891345336				
	ENSG00000150893	108.8701159	75.22458802	86.02438209				
	61.1221412	36.5277385	30.19236658	90.03969534				
	42.6140821	1.081771268	0.027535127	0.14270989				FREM2
	13	38687129	38887131	+	16223			
protein_coding	FRAS1 related extracellular matrix protein 2							
	[Source:HGNC Symbol;Acc:HGNC:25396]	-	120	85				74
	59	32	35	0.362225284	0.248264257			
	0.283796737	0.202084446	0.121245651	0.100315466				
	ENSG00000169955	189.6154519	185.8489822	155.7738811				
	269.3518087	345.8720239	213.0718442	177.0794384				
	276.0985589	-0.637440758	0.027543585	0.142711912				ZNF747
	16	30530367	30535347	-	3936			
protein_coding	zinc finger protein 747 [Source:HGNC							
	Symbol;Acc:HGNC:28350]	zf-C2H2	209	210	134	260		303
	247	2.600278589	2.528079027	2.118149235				
	3.670542879	4.731892819	2.917916646					
	ENSG00000133997	471.7705023	554.0069659	455.6967268				
	678.5593642	641.5184074	657.3309525	493.8247316				
	659.1362414	-0.415806327	0.027586072	0.142878223				MED6
	14	70581257	70600690	-	4219			
protein_coding	mediator complex subunit 6 [Source:HGNC							
	Symbol;Acc:HGNC:19970]	-	520	626	392	655		562
	762	6.035628517	7.030581526	5.780739357				
	8.626682577	8.187930551	8.398011482					
	ENSG00000178927	1336.380673	1555.821479	1412.427355				
	1570.528238	1941.6776	1945.251047	1434.876502				
	1819.152295	-0.342303394	0.027591837	0.142878223				CYBC1
	17	82442589	82450829	-	7234			
protein_coding	cytochrome b-245 chaperone 1 [Source:HGNC							
	Symbol;Acc:HGNC:28672]	-	1473	1758	1215	1516		1701
	2255	9.971326247	11.51507596	10.44971919				
	11.64481895	14.45350475	14.49436054					
	ENSG00000150630	2340.707492	2715.16513	2487.732131				
	3149.344225	2907.379686	3179.687521	2514.534918				
	3078.803811	-0.29215337	0.027654696	0.143139362				VEGFC
	4	176683538	176792727	-	2420			
protein_coding	vascular endothelial growth factor C [Source:HGNC							
	Symbol;Acc:HGNC:12682]	-	2580	3068	2140	3040		2547
	3686	52.20751519	60.07121694	55.01805764				
	69.80238492	64.69354343	70.82245596					
	ENSG00000111644	0	0.884995153	0	7.251779464			
	6.848950969	11.21430759	0.294998384					
	8.438346007	-4.592987192	0.027658451	0.143139362				ACRBP
	12	6638075	6647460	-	2843	protein_coding		
acrosin binding	protein [Source:HGNC Symbol;Acc:HGNC:17195]							-
	0	1	0	7	6	13	0	

0.016666699	0	0.136814845	0.129724424	0.212616767		
ENSG00000074935	303.9290736	223.9037737	201.1110554			
290.0711786	460.0212068	360.5831209	242.9813009			
370.2251688	-0.605333562	0.027686367	0.143224888		TUBE1	
6	112070777	112087529	-	6973		
protein_coding	tubulin epsilon 1 [Source:HGNC	Symbol;Acc:HGNC:20775]				
-	335	253	173	280	403 418	
2.352631055	1.71920354	1.543594721	2.231261181			
3.552488994	2.787325158					
ENSG00000173575	1017.028333	928.3599156	902.0935203			
813.2352685	505.6808799	763.4355551	949.1605896			
694.1172345	0.450633586	0.027691801	0.143224888		CHD2	
15	92900189	93028005	+	16960		
protein_coding	chromodomain helicase DNA binding protein 2					
[Source:HGNC	Symbol;Acc:HGNC:1917]	-	1121	1049	776	
785	443	885	3.23674472	2.93073183		
2.846706677	2.571910506	1.605555189	2.426322027			
ENSG00000177556	288.5058072	450.4625329	464.99666			
247.5964703	179.214217	339.8797838	401.3216667			
255.5634904	0.647703918	0.027699267	0.143224888		ATOX1	
5	151742316	151772532	-	5239		
protein_coding	antioxidant 1 copper chaperone [Source:HGNC	Symbol;Acc:HGNC:798]	-	318	509	400 239
394	2.972401043	4.603581379	4.750271579		157	
2.534904172	1.842038123	3.496864801				
ENSG00000176973	312.0943323	390.2828625	346.4225117			
429.9269254	546.7745857	487.3910606	349.5999022			
488.0308572	-0.480701032	0.027709033	0.143233515		FAM89B	
11	65572349	65574198	+	1458		
protein_coding	family with sequence similarity 89 member B					
[Source:HGNC	Symbol;Acc:HGNC:16708]	-	344	441	298	
415	479	565	11.55392654	14.33202333		
12.71644118	15.81621705	20.19413939	18.01863724			
ENSG00000110852	9.07250966	0	0	11.39565344		
23.97132839	36.2308399	3.024169887				
23.86594058	-2.957528305	0.027750887	0.14340796		CLEC2B	
12	9852984	9870136	-	2638	protein_coding C-type	
lectin domain family 2 member B	[Source:HGNC	Symbol;Acc:HGNC:2053]				
-	10	0	0	11	21 42	
0.185632448	0	0	0.231702083	0.489318757		
0.740296195						
ENSG00000076043	1027.915344	1138.103767	991.6053774			
859.8538508	808.1762143	802.2543121	1052.541496			
823.4281257	0.354647905	0.027776696	0.143499408		REX02	
11	114439386	114450279	+	3699		
protein_coding	RNA exonuclease 2 [Source:HGNC	Symbol;Acc:HGNC:17851]				
-	1133	1286	853	830	708 930	
14.99941296	16.47339371	14.34734516	12.4682587			
11.76511798	11.69040711					
ENSG00000184260	31.75378381	35.39980612	31.38727455			

15.53952742	0	0	32.84695483	5.179842475	
2.671024223	0.027788031		0.143505158	HIST2H2AC	1
149886975		149887364	+	390	protein_coding
	histone cluster 2 H2A family member c [Source:HGNC				
Symbol;Acc:HGNC:4738]	-	35	40	27	15
0	4.394729216	4.859838365		4.307308754	0
2.137168162	0	0			
ENSG00000274641	7.258007728	6.194966072		6.974949899	0
0	0	6.8093079	0	5.200404654	
0.027789734	1	HIST1H2B0	6	27893463	
27893843	+	381	protein_coding	histone cluster 1 H2B	
family member o	[Source:HGNC Symbol;Acc:HGNC:4758]				
7	6	0	0	0	1.028238107
0.870561597	0.979790268	0	0	0	
ENSG00000048162	1079.62865	1485.906862		1035.78006	
1362.298571	1533.023525	1928.860905		1200.438524	
1608.061	-0.421603245	0.027794034		0.143505158	NOP16
5	176383938	176388975		-	2862
protein_coding	NOP16 nucleolar protein [Source:HGNC				
Symbol;Acc:HGNC:26934]	-	1190	1679	891	1315
2236	20.36132404	27.7976132		19.3693444	1343
25.53102007	28.84388421	36.32730564			
ENSG00000146833	657.7569503	764.6358123		796.3067802	
930.2997084	873.2412486	1111.941729		739.5665143	
971.8275621	-0.395304035	0.027874995		0.143881177	TRIM4
7	99876958	99919600		-	4891
protein_coding	tripartite motif containing 4 [Source:HGNC				
Symbol;Acc:HGNC:16275]	-	725	864	685	898
1289	7.258870145	8.370328846		8.713642849	765
10.20212681	9.614155287	12.25423692			
ENSG00000138311	264.9172821	270.8085169		174.3737475	
335.6537923	358.428434	363.1710381		236.6998488	
352.4177548	-0.571458254	0.027893576		0.143935083	ZNF365
10	62374192	62670301		+	5368
protein_coding	zinc finger protein 365 [Source:HGNC				
Symbol;Acc:HGNC:18194]	-	292	306	150	324
421	2.663784134	2.70106702		1.738543648	314
3.353857041	3.595543117	3.646704784			
ENSG00000081985	3.629003864	8.849951531		8.137441549	0
0	0	6.872132315	0	5.212936673	
0.027898384	1	IL12RB2 1	67307364	67397090	
+	4423	protein_coding	interleukin 12 receptor		
subunit beta 2	[Source:HGNC Symbol;Acc:HGNC:5972]				
10	7	0	0	0	0.044286538
0.107129604	0.098466374	0	0	0	
ENSG00000124575	3.629003864	8.849951531		8.137441549	0
0	0	6.872132315	0	5.212936673	
0.027898384	1	HIST1H1D	6	26234268	
26234933	-	666	protein_coding	histone cluster 1 H1	
family member d	[Source:HGNC Symbol;Acc:HGNC:4717]				
					4

10	7	0	0	0	0.294113152	
0.711462824	0.65392909	0	0	0		
ENSG00000170624	107.055614	73.45459771	125.5490982			
24.86324388	83.32890346	21.56597613	102.01977			
43.25270782	1.245301724	0.027912504	0.143990749	SGCD		
5	155870344	156767788	+ 10584			
protein_coding	sarcoglycan delta	[Source:HGNC Symbol;Acc:HGNC:10807]				
-	118 83	108 24	73 25			
0.545960043	0.371582029	0.634864102	0.126000844			
0.423955613	0.109830054					
ENSG00000116852	1073.277893	993.849557	1332.215431			
741.7534424	993.0978905	822.0950101	1133.114293			
852.3154477	0.41055124	0.027931166	0.144045013	KIF21B		
1	200969390	201023700	- 12150			
protein_coding	kinesin family member 21B	[Source:HGNC Symbol;Acc:HGNC:29442]				
-	1183 1123	1146 716	870			
953	4.768009919	4.379554339	5.868338895			
3.274528601	4.40139489	3.647099743				
ENSG00000107560	635.0756762	572.5918641	494.0589512			
688.9190491	826.4400836	758.2597208	567.2421638			
757.8729512	-0.416691833	0.02796539	0.144179477			
RAB11FIP2	10 118004916	118046603	-	6169		
protein_coding	RAB11 family interacting protein 2	[Source:HGNC Symbol;Acc:HGNC:29152]				
-	700 647	425				
665	724 879	5.556636065	4.969537261			
4.286284625	5.98989099	7.213917248	6.625293511			
ENSG00000155366	2842.417276	3579.805394	4903.389779			
2433.489995	3196.177119	2876.038577	3775.20415			
2835.23523	0.412770249	0.027990053	0.144264583	RHOC		
1	112701106	112707434	- 4028			
protein_coding	ras homolog family member C	[Source:HGNC Symbol;Acc:HGNC:669]				
-	3133 4045	4218 2349	2800			
3334	38.08900402	47.58340375	65.15143116			
32.40452043	42.72833104	38.48638781				
ENSG00000166359	39.01179154	28.3198449	24.41232465			
59.05020421	94.74382174	56.93417699	30.58132036			
70.24273431	-1.193890786	0.02799829	0.144265	WDR88		
19	33132090	33175795	+ 1841			
protein_coding	WD repeat domain 88	[Source:HGNC Symbol;Acc:HGNC:26999]				
-	43 32	21 57	83			
66	1.143782245	0.823611934	0.709695992			
1.720414566	2.771224208	1.666944595				
ENSG00000104450	727.6152747	542.5020289	562.6459585			
536.6316804	382.3997624	381.286458	610.9210874			
433.4393003	0.495795948	0.028147517	0.144991678	SPAG1		
8	100157906	100259278	+ 5055			
protein_coding	sperm associated antigen 1	[Source:HGNC Symbol;Acc:HGNC:11212]				
-	802 613	484 518	335			
442	7.769300009	5.74600177	5.957047298			
5.694041701	4.073530828	4.065670022				

ENSG00000167721	4021.843532	3649.720011	3323.563627	
4216.391774	4458.667081	4780.745589	3665.04239	
4485.268148	-0.291222681	0.028204109	0.145240898	TSR1
17	2322503	2337507	-	5545
protein_coding	ribosome maturation factor [Source:HGNC Symbol;Acc:HGNC:25542]" -			
4433	4124	2859	4070	3906
35.24062052	32.0788988	40.78541657	43.29901818	
46.47249497				
ENSG00000124422	7092.888052	6206.471009	7130.72378	
5956.818846	5471.170332	5496.735996	6810.027614	
5641.575058	0.271482791	0.028234398	0.14535456	USP22
17	20999593	21043760	-	6808
protein_coding	ubiquitin specific peptidase 22 [Source:HGNC			
Symbol;Acc:HGNC:12621]	-	7818	7013	6134
6372	56.23475438	48.81021635	56.05715738	4793
46.9310576	43.27481721	43.51983481		
ENSG00000198742	674.0874677	715.9610789	691.6825317	
869.1775672	962.2776112	853.1500158	693.9103594	
894.8683981	-0.366443021	0.028319501	0.145646744	SMURF1
7	99027438	99144100	-	6276
protein_coding	SMAD specific E3 ubiquitin protein ligase 1			
[Source:HGNC Symbol;Acc:HGNC:16807]	-	743	809	595
839	843	989	5.797417303	6.107901539
5.898490407	7.42832796	8.256424234	7.327306777	
ENSG00000123500	367.4366412	462.8524651	404.5470942	
190.6182031	348.1550076	284.6708849	411.6120668	
274.4813652	0.585467082	0.028326449	0.145646744	
COL10A1	6	116118923	116158747	-
3816				
protein_coding	collagen type X alpha 1 chain [Source:HGNC			
Symbol;Acc:HGNC:2185]	-	405	523	348
330	5.197270737	6.49411184	5.673848359	305
2.679300966	4.912910285	4.021023322		
ENSG00000136875	2326.191477	2469.136477	2147.122077	
2710.093583	2997.557541	2800.126341	2314.15001	
2835.925821	-0.292909315	0.028328507	0.145646744	PRPF4
9	113275343	113292905	+	3613
protein_coding	pre-mRNA processing factor 4 [Source:HGNC			
Symbol;Acc:HGNC:17349]	-	2564	2790	1847
3246	34.75191512	36.590023	31.80576022	2626
40.23294483	44.67598335	41.77452997		
ENSG00000151327	712.1920083	759.3258414	647.507849	
625.7249709	509.1053554	402.8524341	706.3418996	
512.5609201	0.464185732	0.028335436	0.145646744	
FAM177A1	14	35044907	35113130	+
8385				
protein_coding	family with sequence similarity 177 member A1			
[Source:HGNC Symbol;Acc:HGNC:19829]	-	785	858	557
604	446	467	4.584534796	4.848536415
4.132938805	4.002634324	3.269483515	2.589672421	
ENSG00000186871	978.9237923	752.2458802	762.5945223	
739.6815054	550.1990612	538.2867643	831.2547316	

609.3891103	0.448556096	0.028335938	0.145646744	ERCC6L
X	72204657	72239047	- 4364	
protein_coding	"ERCC excision repair 6 like, spindle assembly			
checkpoint helicase	[Source:HGNC Symbol;Acc:HGNC:20794]"			-
1079	850	656	714	482
9.22912705	9.352461823	9.091290044	624	12.10780412
6.648610114				6.789060151
ENSG00000186812	361.9931354	332.7581776	301.0853373	
465.1498542	495.4074534	421.8304931	331.9455501	
460.7959336	-0.471451964	0.028340556	0.145646744	ZNF397
18	35241030	35267133	+ 8710	
protein_coding	zinc finger protein 397 [Source:HGNC			
Symbol;Acc:HGNC:18818]	zf-C2H2	399	376	259
489	2.243279689	2.045484207	1.850071256	449
2.864443297	3.062802089	2.610488127		434
ENSG00000265917	0	0	0	15.53952742
0	0	8.223820683	-5.512605553	9.131934625
0.145796136	MIR3685	12	95309923	0.028377867
+	62	miRNA	microRNA 3685 [Source:HGNC	95309984
Symbol;Acc:HGNC:38886]	-	0	0	0
0	0	0	13.44347715	15
0				8
ENSG00000175764	176.9139384	188.5039676	145.3114562	
143.9996208	54.79160775	77.63751407	170.2431207	
92.14291421	0.885988591	0.028400089	0.145867939	TTLL11
9	121821928	122093606	- 3535	
protein_coding	tubulin tyrosine ligase like 11 [Source:HGNC			
Symbol;Acc:HGNC:18113]	-	195	213	125
90	2.701306582	2.855069116	2.200024116	139
2.184929487	0.834639971	1.183815738		48
ENSG00000189014	9.979760626	6.194966072	9.299933199	0
0	0.862639045	8.491553299	0.287546348	
4.556538353	0.028490905	0.1462388	SHLD2P3	10
47689707	47730436	+ 2712	unprocessed_pseudogene	
	shieldin complex subunit 2 pseudogene 3 [Source:HGNC			
Symbol;Acc:HGNC:34038]	-	11	7	8
1	0.198623982	0.122302348	0.183530035	0
0	0.017145152			0
ENSG00000152291	4158.838428	3779.814299	4132.657815	
3795.788565	2924.502064	2970.928872	4023.770181	
3230.4065	0.31680589	0.028495969	0.1462388	TGOLN2
2	85318020	85328425	- 7081	
protein_coding	trans-golgi network protein 2 [Source:HGNC			
Symbol;Acc:HGNC:15450]	-	4584	4271	3555
3444	31.7014187	28.57994692	31.23574418	3664
28.75232139	22.23985192	22.61515489		2562
ENSG00000274191	0	16.81490791	8.137441549	0
0	8.31744982	0	5.489674973	0.028500156
0.1462388	AC026333.4	12	122634130	
122634673	+	544	lincRNA novel transcript	-

0	19	7	0	0	0	0
1.654935767	0.800582305		0	0	0	
ENSG00000251131	10.88701159		6.194966072		3.48747495	0
0	0	6.856484204	0		5.213271798	
0.028500665	1	AC025171.3	5		43018429	
43024247	+	553	antisense		novel transcript	
-	12	7	3	0	0	0
1.062636669	0.599790178		0.337522687		0	0
ENSG00000173811	0	0	0	0	30.82027936	0
0	10.27342645		-5.832301235		0.028505364	
0.1462388	CCDC13-AS1		3	42732575		42746768
+	2164	antisense		CCDC13 antisense RNA 1		
[Source:HGNC Symbol;Acc:HGNC:41142]			-	0	0	0
0	27	0	0	0	0	0
0.766926718	0					
ENSG00000284024	577.0116144		552.2369755		495.2214429	
659.9119313	646.0843747		906.6336366		541.4900109	
737.5433142	-0.446303179		0.028518456		0.146263544	HSPA14
10	14838160		14847018	+	4924	
protein_coding	heat shock protein family A (Hsp70) member 14					
[Source:NCBI gene;Acc:51182]			-	636	624	426 637
566	1051	6.325105226		6.004723113		5.382678013
7.1884198		7.065546308		9.924661195		
ENSG00000227706	43.54804637		16.81490791		29.06229125	
2.07193699	0	13.80222472		29.80841517		5.291387238
2.459460154	0.028631402		0.146760863		AL713998.1	
6	67887646		67889339	-	1605	
lincRNA	novel transcript					
0	16	1.464518574		0.560925269		0.969107196
0.069241585	0	0.46352799				
ENSG00000103260	2074.882959		2685.96029		2849.267034	
1607.823104	2288.691115		1943.525769		2536.703428	
1946.679996	0.381888772		0.028636793		0.146760863	METRN
16	715115	719655	+	3692		
protein_coding	"meteorin, glial cell differentiation regulator					
[Source:HGNC Symbol;Acc:HGNC:14151]"			-	2287	3035	2451
1552	2005	2253	30.3342426		38.95143337	
41.30365319	23.35834498		33.38105396		28.37465028	
ENSG00000167740	289.4130581		384.9728916		292.9478958	
341.8696033	434.9083865		702.1881829		322.4446152	
492.9887242	-0.613281195		0.028643059		0.146760863	CYB5D2
17	4143168	4187310	+	2182	protein_coding	
cytochrome b5 domain containing	2 [Source:HGNC Symbol;Acc:HGNC:28471]					
-	319	435	252	330	381	814
7.159202065	9.446282981		7.185427986		8.403713486	
10.73291252	17.34605331					
ENSG00000132879	84.37433984		166.3790888		169.7237809	
200.977888	237.4303003		263.1049088		140.1590698	
233.837699	-0.740966838		0.02864861		0.146760863	FBX044
1	11654375		11663327	+	3527	



protein_coding	F-box protein 44 [Source:HGNC Symbol;Acc:HGNC:24847]					
-	93	188	146	194	208	305
1.291237625	2.525682938		2.575456641		3.05638679	
3.624976834	4.020919679					
ENSG00000073282	91.63234756		68.14462679		39.5247161	
39.36680281	11.41491828		0	66.43389682		16.92724036
	1.980496404	0.028659906		0.146776226	TP63	3
	189631416	189897279		+	7454	protein_coding
	tumor protein p63 [Source:HGNC Symbol;Acc:HGNC:15979]					P53
	101	77	34	38	10	0
	0.489471915	0.283789534		0.283273698		0.663530161
	0					0.08246278
ENSG00000108389	1604.926959		1177.043554		1641.43821	
1419.276838	948.5797092		834.1719568		1474.469574	
1067.342835	0.466199076		0.028684063		0.146857423	MTMR4
	17	58489529	58517905		-	7475
protein_coding	myotubularin related protein 4 [Source:HGNC					
Symbol;Acc:HGNC:7452]	-		1769	1330	1412	1370
	967	11.58898283	8.430763076		11.75250234	831
10.18407089	6.833405407		6.015147692			
ENSG00000037897	288.5058072		438.0726008		326.6601536	
445.4664528	479.4265678		586.5945508		351.0795205	
503.8291905	-0.52116181		0.028716546		0.146981189	METTTL1
	12	57768471	57772793		-	2621
protein_coding	methyltransferase like 1 [Source:HGNC					
Symbol;Acc:HGNC:7030]	-		318	495	281	430
	680	5.941399873	8.948796226		6.670311959	420
9.116192311	9.849850291		12.06348837			
ENSG00000155363	1137.692711		1085.004058		1136.916834	
820.487048	966.8435785		849.6994596		1119.871201	
879.0100287	0.34975371		0.028726178		0.146987955	MOV10
	1	112673141	112700746		+	6509
protein_coding	Mov10 RISC complex RNA helicase [Source:HGNC					
Symbol;Acc:HGNC:7200]	-		1254	1226	978	792
	985	9.434349232	8.924885219		9.348273929	847
6.761187092	7.998646415		7.036439811			
ENSG00000199266	1.814501932		0	0	8.287747959	
9.131934625	14.66486377		0.604833977			
10.69484878	-4.095728726		0.028747389		0.14705395	
SNORA60 20	38449370		38449503		+	134
	"small nucleolar RNA, H/ACA box 60 [Source:HGNC					snoRNA
Symbol;Acc:HGNC:32654]"	-		2	0	0	8
	17	0.730893132	0	0	3.317395355	8
3.669716789	5.898955787					
ENSG00000187193	169.6559306		180.5390112		204.5985304	
342.9055718	301.3538426		211.3465661		184.9311574	
285.2019935	-0.624701395		0.028787218		0.147215122	MT1X
	16	56682424	56684196		+	1773
protein_coding	metallothionein 1X [Source:HGNC Symbol;Acc:HGNC:7405]					
-	187	204	176	331	264	245

5.164895684	5.451899891	6.176049652	10.37364309		
9.152559302	6.425225391				
ENSG00000110768	1596.7617	1363.777531	1262.465932		
1711.419954	1696.256857	1935.762018	1407.668388		
1781.146276	-0.339312444	0.028817442	0.147327092	GTF2H1	
11	18322295	18367044	+ 6939		
protein_coding	general transcription factor IIH subunit 1				
[Source:HGNC Symbol;Acc:HGNC:4655]	-		1760 1541	1086	
1652	1486 2244	12.420654	10.52282122		
9.737327664	13.22894464	13.16343648	15.03685401		
ENSG00000273748	222.2764867	177.8840258	265.0480962		
163.6830222	134.6960357	115.5936321	221.7362029		
137.9908967	0.683834433	0.02885283	0.147458706		
AL592183.1	GL000219.1	54224 83311	- 372		
protein_coding	-	245 201	228 158	118	
134	32.25164182	25.60233397	38.1328051		
23.60077099	19.49783665	16.74915403			
ENSG00000185532	13.60876449	16.81490791	48.8246493		
7.251779464	0	6.901112362	26.41610723	4.717630609	
2.46191092	0.028859859	0.147458706	PRKG1	10	
50990891	52298350	+	12831	protein_coding	
protein_kinase	cGMP-dependent 1 [Source:HGNC				
Symbol;Acc:HGNC:9414]	-	15 19	42 7	0	
8	0.057247884	0.07016484	0.20365526		
0.030314442	0	0.02899082			
ENSG00000233912	2.721752898	9.734946684	8.137441549	0	
0	0	6.864713711	0	5.211448159	
0.028872919	1	AC026202.2	3	5156905 5187329	-
672	antisense	"novel transcript, antisense to ARL8B"			
-	3 11	7 0	0 0		
0.218615356	0.775621525	0.648090438	0 0	0	
ENSG00000125538	29.03203091	52.21471403	63.93704074		
52.83439324	83.32890346	195.8190633	48.39459523		
110.6607867	-1.200048213	0.028920904	0.147727946	IL1B	
2	112829751	112836903	- 3096		
protein_coding	interleukin 1 beta [Source:HGNC				
-	32 59	55 51	73 227		
0.506148215	0.902978688	1.105270514	0.915337527		
1.449336629	3.409227032				
ENSG00000008516	0.907250966	17.69990306	3.48747495	0	
0	0	7.364876326	0	5.316963827	
0.028951299	1	MMP25	16 3046681	3060726 +	4126
protein_coding	matrix metalloproteinase 25 [Source:HGNC				
Symbol;Acc:HGNC:14246]	-	1 20	3 0	0	
0	0.011868599	0.229682133	0.045237529	0	
0	0				
ENSG00000143669	825.598379	678.7912824	652.1578156		
631.9407819	518.23729	404.5777122	718.849159		
518.251928	0.473520684	0.028967927	0.147899986	LYST	
1	235661041	235883640	- 19614		

protein_coding	lysosomal trafficking regulator [Source:HGNC					
Symbol;Acc:HGNC:1968]	-	910	767	561	610	454
469	2.271976866	1.852915583	1.779522719			
1.728127207	1.422777675	1.111828212				
ENSG00000179271	2360.667013	3314.306848	3018.990815			
3073.718524	3877.64774	4268.337996	2897.988226			
3739.90142	-0.368138642	0.028979911	0.147899986			
GADD45GIP1	19	12953119	12957236	-		1782
protein_coding	GADD45G interacting protein 1 [Source:HGNC					
Symbol;Acc:HGNC:29996]	-	2602	3745	2597	2967	3397
4948	71.50366063	99.57964259	90.67156182			
92.51707426	117.1750661	129.1079571				
ENSG00000198792	1530.53238	1656.710927	1617.025885			
1328.11161	1208.839846	1325.876213	1601.423064			
1287.609223	0.314337007	0.028987863	0.147899986			
TMEM184B	22	38219291	38273034	-		7080
protein_coding	transmembrane protein 184B [Source:HGNC					
Symbol;Acc:HGNC:1310]	-	1687	1872	1391	1282	1059
1537	11.6683785	12.52849856	12.22364473			
10.06159451	9.194117774	10.09419355				
ENSG00000112874	387.3961625	340.723134	383.6222445			
579.1063887	505.6808799	447.7096645	370.5805136			
510.832311	-0.462885109	0.028988029	0.147899986			NUDT12
5	103548855	103562793	-	4304		
protein_coding	nudix hydrolase 12 [Source:HGNC					
Symbol;Acc:HGNC:18826]	-	427	385	330	559	443
4.85829963	4.238526548	4.770331102	7.216914977			
6.32672305	5.606942641					
ENSG00000155463	1582.245685	1798.310151	1507.75167			
1938.297054	2087.788554	2044.454537	1629.435835			
2023.513382	-0.312039929	0.029062784	0.148238634			OXA1L
14	22766522	22773041	+	4497		
protein_coding	"OXA1L, mitochondrial inner membrane protein					
[Source:HGNC	Symbol;Acc:HGNC:8526]"					
1871	1829	2370	18.99119428	21.41052205		1297
17.94419314	23.1186752	24.99989462	24.50509986			
ENSG00000198919	761.1835605	604.4516896	385.9472278			
511.7684365	362.9944014	249.3026841	583.8608259			
374.6885073	0.642213586	0.029086353	0.14828883			DZIP3
3	108589682	108694846	+	6972		
protein_coding	DAZ interacting zinc finger protein 3 [Source:HGNC					
Symbol;Acc:HGNC:30938]	-	839	683	332	494	318
289	5.892956916	4.641835719	2.962699143			
3.937146854	2.803606781	1.927398348				
ENSG00000144485	137.9021468	163.7241033	183.6736807			
127.4241249	67.34801786	80.22543121	161.7666436			
91.66585798	0.818146569	0.029089391	0.14828883			HES6
2	238238267	238240662	-	2037		
protein_coding	hes family bHLH transcription factor 6 [Source:HGNC					
Symbol;Acc:HGNC:18254]	bHLH	152	185	158	123	59

93	3.65410685	4.303354664	4.825839841		
3.355259588	1.780362109	2.122867742			
ENSG00000266412	3237.071447	2765.609853	3158.489813		
3821.687778	4104.804614	3372.056028	3053.723704		
3766.182807	-0.302401198	0.029113614	0.148369551	NCOA4	
10	46005088	46030714	-	4079	
protein_coding	nuclear receptor coactivator 4				
Symbol;Acc:HGNC:7671]	-	3568	3125	2717	3689
3909	42.83510383	36.30134841	41.44219784		3596
50.25357859	54.18927467	44.55977438			
ENSG00000173376	21.77402318	16.81490791	31.38727455		
9.323716454	0	0	23.32540188	3.107905485	
2.914526654	0.029131269	0.148391842	NDNF	4	
121035613	121073021	-	3556	protein_coding	neuron
derived neurotrophic factor	[Source:HGNC Symbol;Acc:HGNC:26256]	-			
24	19	27	9	0	0
0.253173526	0.472398879	0.1406348	0	0.330505106	0
ENSG00000137207	1999.581129	2494.801337	2671.405811		
2577.489615	3335.439122	3223.682112	2388.596092		
3045.53695	-0.350849445	0.029134765	0.148391842	YIPF3	
6	43511827	43516990	-	3053	
protein_coding	Yip1 domain family member 3				
Symbol;Acc:HGNC:21023]	-	2204	2819	2298	2488
3737	35.35195774	43.75167783	46.83063716		2922
45.28304423	58.83025997	56.9150749			
ENSG00000069764	0	0	0	30.19236658	
0	10.06412219	-5.812113535	0.029155968		
0.148414363	PLA2G10 16	14672545	14694669	-	
1116	protein_coding	phospholipase A2 group X			
Symbol;Acc:HGNC:9029]	-	0	0	0	0
35	0	0	0	1.45825968	
ENSG00000272078	0	0	0	30.19236658	
0	10.06412219	-5.812113535	0.029155968		
0.148414363	AL139423.1	1	10639241	10654333	
+	7923	antisense	"novel transcript, antisense		
to CASZ1"	-	0	0	0	35
0	0	0	0	0.205404241	
ENSG00000116455	1571.358673	1763.79534	1600.751002		
1836.772141	2176.824916	2134.168998	1645.301672		
2049.255352	-0.316595196	0.029166103	0.148423244	WDR77	
1	111439890	111449376	-	2805	
protein_coding	WD repeat domain 77				
Symbol;Acc:HGNC:29652]	-	1732	1993	1377	1773
2474	30.23734852	33.66672518	30.5427348		1907
35.12270157	41.78930877	41.01076286			
ENSG00000179041	1867.122488	2359.397078	1661.200568		
2254.267445	2483.886218	2839.807737	1962.573378		
2525.987133	-0.363791603	0.029179817	0.148450327	RRS1	
8	66429028	66430733	+	1706	
protein_coding	ribosome biogenesis regulator homolog				
	[Source:HGNC				

Symbol;Acc:HGNC:17083]	-	2058	2666	1429	2176	2176
3292	59.07381616	74.04701555		52.11467678		
70.87481003	78.40201497	89.72465928				
ENSG00000167447	825.598379	746.9359092		762.5945223		
867.1056302	1259.065486	972.194204		778.3762702		
1032.78844	-0.407283161	0.029248976		0.148759383		SMG8
17	59209400	59215247		+ 3752		
protein_coding	"SMG8, nonsense mediated mRNA decay factor					
[Source:HGNC Symbol;Acc:HGNC:25551]"	-	910	844		656	
837	1103	1127	11.87701339	10.65874464		
10.87796999	12.39580318	18.07007865		13.96664532		
ENSG00000158079	249.4940156	199.1239095		184.8361723		
157.4672112	115.2906746	123.3573835		211.1513658		
132.0384231	0.678246096	0.029307114		0.149012226		PTPDC1
9	94030794	94109856		+ 6404		
protein_coding	protein tyrosine phosphatase domain containing 1					
[Source:HGNC Symbol;Acc:HGNC:30184]	-	275	225		159	
152	101	143	2.102858519	1.664783013		
1.544730237	1.318877042	0.969432133		1.038282974		
ENSG00000231845	6.350756762	7.964956378		5.812458249		0
0	0	6.709390463	0	5.180132901		
0.029370732	1	HMGB3P14	3	134170487		
134171085	+	599	processed_pseudogene	high mobility		
group box 3 pseudogene 14	[Source:HGNC Symbol;Acc:HGNC:39306]					-
7	9	5	0	0	0	0.572268579
0.711937924	0.519337913	0	0	0	0	
ENSG00000260645	4.53625483	0	0	32.11502334		
9.131934625	7.763751407	1.512084943				
16.33690312	-3.398983193	0.029428324		0.149551152		
AL359715.2	6	80466958	80469080	+	2123	
lincRNA	novel transcript					-
31	8	9	0.1153317	0	0	
0.811378963	0.231626024	0.197116752				
ENSG00000279794	0.907250966	8.849951531		2.3249833		
6.215810969	14.83939377	52.62098176		4.027395266		
24.55872883	-2.599465666	0.029430016		0.149551152		
AC024580.1	19	56149817	56150490	+	674	
TEC	TEC	-	1	10	2	6
61	0.072655549	0.703018161		0.184619234		13
0.494656132	1.185579868	4.208244424				
ENSG00000049759	1121.362194	900.9250659		1078.792251		
1371.622287	1208.839846	1383.673029		1033.69317		
1321.378387	-0.354900808	0.029466578		0.149693942		NEDD4L
18	58044367	58401540		+ 17455		
protein_coding	"neural precursor cell expressed, developmentally					
down-regulated 4-like, E3 ubiquitin protein ligase	[Source:HGNC					
Symbol;Acc:HGNC:7728]"	-	1236	1018	928	1324	1059
1604	3.467586481	2.763467527		3.307767453		
4.214831097	3.729266906	4.272829161				
ENSG00000221914	2358.852512	2413.381783		2524.931864		

2988.769108	2975.869196	2863.098991	2432.388719		
2942.579098	-0.274792633	0.029498348	0.149721203		
PPP2R2A 8	26291491	26372680	+ 7865		
protein_coding	protein phosphatase 2 regulatory subunit Balpha				
[Source:HGNC Symbol;Acc:HGNC:9304]	-	2600	2727	2172	
2885	2607	3319	16.1883768	16.42906515	
17.18177156	20.382579	20.37462689	19.62183157		
ENSG00000179151	1084.164904	1394.752361	1243.866065		
1277.349154	1598.088559	2122.95469	1240.927777		
1666.130801	-0.425598038	0.029505016	0.149721203	EDC3	
15	74630558	74696292	- 5103		
protein_coding	enhancer of mRNA decapping 3 [Source:HGNC				
Symbol;Acc:HGNC:26114]	-	1195	1576	1070	1233
2461	11.46755998	14.633799	13.04562997	1400	
13.42608993	16.86358195	22.42420544			
ENSG00000152495	625.0959156	501.7922518	540.5586172		
517.9842475	337.8815811	289.8467192	555.8155949		
381.9041826	0.542326766	0.0295079	0.149721203	CAMK4	
5	111223653	111494886	+ 13910		
protein_coding	calcium/calmodulin dependent protein kinase IV				
[Source:HGNC Symbol;Acc:HGNC:1464]	-	689	567	465	
500	296	336	2.425608889	1.931445107	
2.079853137	1.997353422	1.308012641	1.123163976		
ENSG00000145861	106.148363	113.2793796	105.7867401		
25.89921237	93.60232991	17.25278091	108.4048276		
45.5847744	1.259333623	0.029509626	0.149721203		
C1QTNF2 5	160347751	160370641	- 2414		
protein_coding	C1q and TNF related 2 [Source:HGNC				
Symbol;Acc:HGNC:14325]	-	117	128	91	25
20	2.373434656	2.512459933	2.34536788	82	
0.57545953	2.087968521	0.385233235			
ENSG00000205726	1126.8057	810.6555603	1017.180194		
868.1415987	569.6044223	725.4794371	984.8804846		
721.0751527	0.449103565	0.029517382	0.149721203	ITSN1	
21	33642400	33899861	+ 21748		
protein_coding	intersectin 1 [Source:HGNC Symbol;Acc:HGNC:6183]				
-	1242	916	875	838	499
2.796603875	1.995733697	2.503200145	2.141098947		
1.410355451	1.798074532				
ENSG00000141965	144.2529036	157.5291373	115.0866733		
269.3518087	144.9694622	279.4950507	138.9562381		
231.2721072	-0.734975787	0.029522729	0.149721203	FEM1A	
19	4791681	4801273	+ 9593	protein_coding	fem-1
homolog A [Source:HGNC Symbol;Acc:HGNC:16934]	-	159	178		
99	260	127	324	0.811654804	0.879208744
0.642077715	1.506020721	0.813760559	1.570440851		
ENSG00000171049	6.350756762	3.539980612	10.46242485	0	
0	0	6.784387408	0	5.191974766	
0.029527962	1	FPR2	19	51752026	51770526
+	3700	protein_coding	formyl peptide receptor 2		

[Source:HGNC Symbol;Acc:HGNC:3827]	-	7	4	9
0	0	0	0.092645643	0.051225323
0.151337875	0	0	0	
ENSG00000183134	6.350756762	2.654985459	0	8.287747959
	46.80116496	9.489029498	3.001914074	21.5259808
	-2.80883845	0.029552095	0.149827172	PTGDR2 11
	60850940	60855971	-	2895 protein_coding
	prostaglandin D2 receptor 2 [Source:HGNC Symbol;Acc:HGNC:4502]			
	-	7	3	0
0.118407212	0.049101994	0	0.153551288	0.870527808
	0.176675014			
ENSG00000134308	9011.723845	8195.940113	11723.72829	
8385.128998	7913.962845	6499.122567	9643.797416	
7599.404803	0.343656401	0.029566642	0.149857973	YWHAQ
	2	9583972	9631014	-
			2713	protein_coding
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein theta [Source:HGNC Symbol;Acc:HGNC:12854]				
	10085	8094	6933	7534
				179.291345
				161.7463657
				231.2772717
				165.7774481
				157.0792311
				129.1239611
ENSG00000170396	362.9003864	234.5237156	179.0237141	
483.7972871	325.325171	400.264517	258.8159387	
403.1289917	-0.637429032	0.029588557	0.149926093	
ZNF804A 2	184598366	184939492	+	4694
protein_coding zinc finger protein 804A [Source:HGNC Symbol;Acc:HGNC:21711]				
	-	400	265	154
	464	4.172973143	2.675033527	2.041194936
5.528226634	3.732064449	4.59627403		
ENSG00000170903	882.7551899	882.3401677	734.6947227	
976.9182907	1167.74614	1088.650475	833.2633601	
1077.771635	-0.370195906	0.029604393	0.149963375	
MSANTD4 11	105995623	106022403	-	5105
protein_coding Myb/SANT DNA binding domain containing 4 with coiled-coils [Source:HGNC Symbol;Acc:HGNC:29383]				
	632	943	1023	1262
				9.333526769
				9.253922387
				7.70243742
				10.26426817
				12.31763264
				11.49462021
ENSG00000147394	61.69306569	77.87957347	104.6242485	
138.8197783	125.5641011	166.4893357	81.39896255	
143.6244051	-0.8246533	0.029619084	0.149994842	ZNF185
	X	152914442	152973480	+
				4812
protein_coding zinc finger protein 185 with LIM domain [Source:HGNC Symbol;Acc:HGNC:12976]				
	-	68	88	90
	193	0.692009374	0.866529783	1.163653653
1.547359492	1.405123272	1.864930744		
ENSG00000285781	0	0	0	10.27342645
13.80222472	0	8.025217059	-5.48192128	0.029650908
	0.150067145	AL117340.1	10	31362799
31364049	-	1251	unprocessed_pseudogene	putative
UPF0607	protein	FLJ37424	[Source:NCBI gene;Acc:100505502]	
	0	0	0	9
	0	0	0.442214074	0.594694184

ENSG00000101236	1004.326819	796.4956378	1104.367067			
734.5016629	711.149409	760.8476379	968.3965082			
735.4995699	0.395783496	0.029655842	0.150067145	RNF24		
20	3927309	4015582	-	7668	protein_coding	ring
finger protein 24	[Source:HGNC Symbol;Acc:HGNC:13779]				-	1107
900	950	709	623	882	7.069589553	
5.561434748	7.70811788	5.137787936	4.994054789			
5.348321417						
ENSG00000108788	1103.217175	1368.202507	1236.891115			
1293.92465	1852.641237	1689.047251	1236.103599			
1611.871046	-0.382799284	0.029658813	0.150067145	MLX		
17	42567068	42573239	+	4259		
protein_coding	"MLX, MAX dimerization protein [Source:HGNC					
Symbol;Acc:HGNC:11645]"	bHLH	1216	1546	1064	1249	1623
1958	13.98152741	17.1999938	15.54321429			
16.29546816	23.42384793	21.37647373				
ENSG00000280388	13.60876449	10.61994184	0	0	0	
0	8.076235442	0	5.451072843	0.029724761		
0.150352417	AC006330.1	7	76043977			
76045963	-	1987	TEC	TEC	-	15 12
0	0	0	0	0.369676697	0.286160588	
0	0	0	0			
ENSG00000275074	153.3254133	164.6090985	115.0866733			
83.91344809	77.62144432	89.71446071	144.340395			
83.74978437	0.786104072	0.029741195	0.150352417	NUDT18		
8	22106872	22109419	-	1756		
protein_coding	nudix hydrolase	18	[Source:HGNC Symbol;Acc:HGNC:26194]			
-	169	186	99	81	68	104
4.712928777	5.018973163	3.507660318	2.563141315			
2.380300355	2.753847241					
ENSG00000061337	435.4804637	317.71326	291.7854041			
215.4814469	196.3365944	281.2203288	348.3263759			
231.01279	0.591435079	0.029752524	0.150352417	LZTS1		
8	20246165	20303963	-	5706		
protein_coding	leucine zipper tumor suppressor	1	[Source:HGNC			
Symbol;Acc:HGNC:13861]	-	480	359	251	208	172
326	4.119439733	2.981186336	2.73683617			
2.025553	1.852866118	2.656543005				
ENSG00000035928	1815.409183	1564.671431	1628.650801			
1530.125467	1180.30255	1212.870498	1669.577138			
1307.766172	0.352498434	0.029753943	0.150352417	RFC1		
4	39287456	39366375	-	6719		
protein_coding	replication factor C subunit	1	[Source:HGNC			
Symbol;Acc:HGNC:9969]	-	2001	1768	1401	1477	1034
1406	14.58381448	12.46820862	12.97299769			
12.21484324	9.459392757	9.729974402				
ENSG00000171109	1463.395808	1250.498151	1213.641282			
1097.090636	1110.671549	742.732218	1309.178414			
983.4981343	0.413962045	0.029757692	0.150352417	MFN1		
3	179347692	179394931	+	5957		



protein_coding	mitofusin 1 [Source:HGNC Symbol;Acc:HGNC:18262] -						
	1613	1413	1044	1059	973	861	13.25975351
	11.239345		10.9038469		9.878258882		10.03997428
	6.720577126						
ENSG00000179195	1769.139384			1657.595922			1691.425351
	1487.650759			1400.610473			1185.266048
	1357.842427			0.329913378			0.029772695
	12			123971845			0.150354502
				124015439			+ 6340
protein_coding	zinc finger protein 664 [Source:HGNC						
Symbol;Acc:HGNC:25406]	zf-C2H2	1950	1873	1455	1436		1227
	1374			15.06170153			13.99828916
	12.58569566			11.89604683			10.07693583
ENSG00000163682	6169.306569			8741.982123			9242.971108
	9059.544488			11035.94299			10647.55374
	10247.68041			-0.348094687			0.029775104
	4			39452521			0.150354502
				39458949			- 5022
protein_coding	ribosomal protein L9 [Source:HGNC						
Symbol;Acc:HGNC:10369]	-	6800	9878	7951	8745		9668
	12343			66.30723036			93.20060988
	96.75984168			118.3333865			114.2812649
ENSG00000182934	2723.5674			2901.899107			3153.839846
	2410.698688			2526.121416			2226.471376
	2387.763826			0.293506162			0.029801028
	11			126262919			0.150442462
				126269144			- 4167
protein_coding	SRP receptor subunit alpha [Source:HGNC						
Symbol;Acc:HGNC:11307]	-	3002	3279	2713	2327		2213
	2581			35.27896788			37.28587652
	31.03022513			32.64414315			28.80020123
ENSG00000235286	13.60876449			3.539980612			3.48747495
	0			0			5.217696909
	0.029808958			1			AP000925.1 11
	111672404			-			1449 processed_pseudogene
	(KRT8) pseudogene			-			15 4 3 0 0
	0			0.50693416			0.130803103
	0			0			0.128813006
	0			0			0
ENSG00000135390	2138.390527			2523.121182			2946.916332
	1996.31129			1983.912797			2063.432596
	2014.552228			0.331625468			0.029840587
	ATP5MC2 12			53632726			53677408
							- 3991
protein_coding	ATP synthase membrane subunit c locus 2 [Source:HGNC						
Symbol;Acc:HGNC:842]	-	2357	2851	2535	1927		1738
	2392			28.92054936			33.84869506
	26.82946611			26.76796801			27.86829927
ENSG00000007255	135.1803939			324.7932212			251.0981964
	275.5676196			355.0039586			552.951628
	394.5077354			-0.736377409			0.029920963
				0.029920963			0.150961758
TRAPPC6A	19			45162928			45178237
							- 933
protein_coding	trafficking protein particle complex 6A						
[Source:HGNC Symbol;Acc:HGNC:23069]	-				149	367	216
	266			311			641
				7.820478172			18.63849585

14.40386207	15.84207396	20.48925207	31.94533185		
ENSG00000274600	11.79426256	23.00987398	4.6499666		
30.04308635	41.09370581	56.93417699	13.15136771		
42.69032305	-1.686347428	0.029938389	0.151006603		
RIMBP3B 22	21383374	21389478	+	6105	
protein_coding	RIMS binding protein 3B [Source:HGNC				
Symbol;Acc:HGNC:33891]	-	13	26	4	29 36
66	0.104276481	0.201796728	0.040764411		
0.263951645	0.362463427	0.502677314			
ENSG00000268199	0	0	3.107905485	0	
21.56597613	0	8.224627206	-5.521787322	0.030060283	
0.15157595	AC010335.1	19	18441419		
18443597	+	599	antisense	"novel transcript,	
antisense to ELL"	-	0	0	0	3 0
25	0	0	0	0.278295687	0
1.94063654					
ENSG00000267534	164.2124248	209.7438513	156.9363727		
66.30198367	113.007691	127.6705787	176.9642163		
102.3267511	0.789662454	0.030068405	0.15157595	S1PR2	
19	10221433	10231331	-	3643	
protein_coding	sphingosine-1-phosphate receptor 2 [Source:HGNC				
Symbol;Acc:HGNC:3169]	-	181	237	135	64 99
148	2.433033492	3.082588938	2.305586624		
0.97618661	1.670411163	1.889006978			
ENSG00000148296	1221.1598	1673.525835	1235.728624		
1415.132964	1800.132613	2385.19696	1376.804753		
1866.820846	-0.439349901	0.030120322	0.151769274	SURF6	
9	133328774	133336398	-	4626	
protein_coding	surfeit 6 [Source:HGNC Symbol;Acc:HGNC:11478]				
1346	1891	1063	1366	1577	2765 14.24846615
19.36922933	14.2966565	16.40805543	20.95431292		
27.79204635					
ENSG00000173409	578.8261163	448.6925426	506.8463594		
448.5743583	335.5985975	294.1599144	511.4550061		
359.4442901	0.509653684	0.030123914	0.151769274	ARV1	
1	230978981	231000595	+	1987	
protein_coding	"ARV1 homolog, fatty acid homeostasis modulator				
[Source:HGNC Symbol;Acc:HGNC:29561]"	-	638	507	436	
433	294	341	15.72358219	12.09028485	
13.65197451	12.10882696	9.094876864	7.979717746		
ENSG00000027075	38.10454057	19.46989337	34.8747495		
6.215810969	0	12.93958568	30.81639448	6.385132216	
2.244961486	0.030165661	0.151936324	PRKCH	14	
61187559	61550976	+	8833	protein_coding	
protein kinase C eta [Source:HGNC Symbol;Acc:HGNC:9403]	-				
42	22	30	6	0	15 0.232846516
0.118016	0.211309913	0.037744621	0		
0.078961256					
ENSG00000143878	410.9846876	515.9521743	903.256012		
371.9126897	425.7764519	417.5172979	610.0642913		

405.0688132	0.588911539	0.030195493	0.152043287	RHOB
2	20447074	20449445	+ 2372	
protein_coding	ras homolog family member B	[Source:HGNC		
Symbol;Acc:HGNC:668]	-	453 583	777 359	373
484	9.35216587	11.64609453	20.38042239	
8.409918896	9.665882407	9.487716411		
ENSG00000163513	3848.558598	3501.040826	4623.229292	
3558.55178	3039.792738	2970.928872	3990.942905	
3189.757797	0.323022879	0.030229465	0.152171034	TGFBR2
3	30606502	30694142	+ 4704	
protein_coding	transforming growth factor beta receptor 2	[Source:HGNC		
Symbol;Acc:HGNC:11773]	-	4242 3956		3977
3435	2663 3444	44.16030199	39.84881496	
52.60113613	40.57620929	34.797754	34.04292342	
ENSG00000119396	2276.292674	2359.397078	2452.857381	
2817.834306	2814.918848	2945.91234	2362.849044	
2859.555165	-0.275532484	0.030240513	0.152183336	RAB14
9	121178137	121223014	- 4304	
protein_coding	"RAB14, member RAS oncogene family	[Source:HGNC		
Symbol;Acc:HGNC:16524]"	-	2509 2666	2110 2720	2466
3415	28.54677698	29.3504202	30.50120795	
35.1162947	35.21828226	36.89346651		
ENSG00000138594	2161.979052	1749.635418	2429.607548	
1997.347258	1541.013968	1168.013267	2113.740673	
1568.791498	0.430265415	0.030250908	0.152192352	TMOD3
15	51829628	51947295	+ 10632	
protein_coding	tropomodulin 3	[Source:HGNC		
Symbol;Acc:HGNC:11873]	-	2090 1928	1350 1354	
10.97583976	8.810856787	12.2303297	10.07636998	
7.804878753	5.921540644			
ENSG00000150783	1.814501932	0	6.974949899	6.215810969
35.38624667	19.84069804	2.929817277	20.48091856	
-2.848873455	0.030264904	0.152219475	TEX12 11	
112167372	112172559	+ 1155	protein_coding	
testis expressed 12	[Source:HGNC			
Symbol;Acc:HGNC:11734]	-	2 0 6 6 31 23	0.084796259	
2	0	6	31	23
0	0.323203543	0.288656479	1.649783933	
0.925927259				
ENSG00000171017	92.53959853	107.0844135	105.7867401	
110.848629	152.959905	288.9840802	101.8035841	
184.2642047	-0.85907992	0.030296027	0.152332696	LRR8E
19	7888505 7902021	+ 4329	protein_coding	
leucine rich repeat containing 8 VRAC subunit E	[Source:HGNC			
Symbol;Acc:HGNC:26272]	-	102 121	91 107	134
335	1.15382852	1.32441541	1.30785818	
1.373435395	1.902674829	3.59822436		
ENSG00000100294	468.1414984	538.0770531	512.6588176	
557.3510503	657.499293	885.0676605	506.2924564	
699.9726679	-0.468453154	0.03031236	0.152354533	MCAT
22	43132206	43143394	- 2388	

protein_coding	malonyl-CoA-acyl carrier protein transacylase						
[Source:HGNC Symbol;Acc:HGNC:29622]	-	516	608	441			
538	576	1026	10.58142268	12.06412137			
11.48976414	12.51872205	14.82639346	19.97763419				
ENSG00000172315	908.1582169	1019.514416	968.3555444				
1103.306447	1157.472714	1499.266661	965.3427259				
1253.348607	-0.377407054	0.030317596	0.152354533	TP53RK			
20	46684365	46689779	-	3520			
protein_coding	TP53 regulating kinase [Source:HGNC						
Symbol;Acc:HGNC:16197]	-	1001	1152	833	1065	1014	
1738	13.9257982	15.50730242	14.72343639				
16.81198477	17.70690477	22.95821543					
ENSG00000186020	335.6828574	174.3440452	235.9858049				
370.8767212	437.1913702	332.9786715	248.6709025				
380.3489209	-0.612049191	0.03033042	0.152363834	ZNF529			
19	36534774	36605276	-	8173			
protein_coding	zinc finger protein 529 [Source:HGNC						
Symbol;Acc:HGNC:29328]	zf-C2H2	370	197	203	358	383	
386	2.21691432	1.142118505	1.545330533				
2.433960755	2.880478482	2.196022694					
ENSG00000182963	2909.553848	2565.600949	2469.132264				
2386.871412	1791.000678	2133.306359	2648.095687				
2103.72615	0.33194283	0.03035614	0.152363834	GJC1			
17	44798448	44830816	-	8660			
protein_coding	gap junction protein gamma 1 [Source:HGNC						
Symbol;Acc:HGNC:4280]	-	3207	2899	2124	2304	1569	
2473	18.13467394	15.86195685	15.25961115				
14.78347824	11.13659463	13.27813997					
ENSG00000198909	1246.562827	1349.617609	1496.126753				
1020.428967	1049.03099	1161.112155	1364.102396				
1076.857371	0.340221227	0.030357629	0.152363834	MAP3K3			
17	63622415	63696303	+	6107			
protein_coding	mitogen-activated protein kinase kinase kinase 3						
[Source:HGNC Symbol;Acc:HGNC:6855]	-	1374	1525	1287			
985	919	1346	11.01761256	11.83227799			
13.1116538	8.962318097	9.24985557	10.24821335				
ENSG00000229994	12.70151352	10.61994184	12.78740815				
68.37392066	25.11282022	23.29125422	12.03628784				
38.92599837	-1.693919349	0.030359963	0.152363834	RPL5P4			
1	35350722	35351607	+	886			
processed_pseudogene	ribosomal protein L5 pseudogene 4 [Source:HGNC						
Symbol;Acc:HGNC:36095]	-	14	12	11	66	22	
27	0.773789794	0.641761951	0.772441876				
4.139255717	1.5262874	1.416971321					
ENSG00000279140	9.07250966	15.0449176	0	0	0		
0	8.039142421	0	5.444625809	0.030362514			
0.152363834	AL590326.1	14	104815449				
104815753	-	305	TEC	novel transcript	-		
10	17	0	0	0	1.605568519		
2.641043308	0	0	0	0			

ENSG0000004864	891.8276996	938.0948623	946.268203		
710.6743875	811.6006898	596.9462193	925.3969216		
706.4070989	0.390679732	0.030400013	0.152456473		
SLC25A13	7	96120220	96322147	-	3710
protein_coding solute carrier family 25 member 13					
[Source:HGNC Symbol;Acc:HGNC:10983]	-	983	1060		814
686	711	692	12.97502764	13.53812116	
13.65077605	10.27453675	11.77993926	8.672877315		
ENSG00000156587	721.264518	763.7508171	734.6947227		
743.8253793	1296.734717	995.4854582	739.9033526		
1012.015185	-0.451276286	0.030408082	0.152456473		UBE2L6
11	57551656	57568284	-	2197	
protein_coding ubiquitin conjugating enzyme E2 L6 [Source:HGNC					
Symbol;Acc:HGNC:12490]	-	795	863	632	718
1154	17.72008314	18.61260581	17.89756169		1136
18.15960639	31.78305465	24.42343643			
ENSG00000100124	1028.822595	1343.422642	1328.727956		
1289.780776	1593.522592	2066.883152	1233.657731		
1650.062174	-0.420341383	0.03041383	0.152456473		
ANKRD54	22	37830855	37849327	-	4487
protein_coding ankyrin repeat domain 54 [Source:HGNC					
Symbol;Acc:HGNC:25185]	-	1134	1518	1143	1245
2396	12.37615297	16.03031819	15.84882272		1396
15.41790359	19.12391078	24.82914486			
ENSG00000078549	0	0	2.3249833	1.035968495	
25.11282022	11.21430759	0.774994433			
12.45436543	-4.113622408	0.03041545	0.152456473		
ADCYAP1R1	7	31052461	31111479	+	6832
protein_coding ADCYAP receptor type I [Source:HGNC					
Symbol;Acc:HGNC:242]	-	0	0	2	1
13	0	0	0.018213314	0.008133251	22
0.197934812	0.08847621				
ENSG00000281392	24.49577608	25.66485944	20.9248497		
55.94229872	39.95221399	76.77487503	23.69516174		
57.55646258	-1.28111915	0.030444468	0.15251722		
LINC00506	3	87089129	87157069	+	5011
lincRNA long intergenic non-protein coding RNA 506					
[Source:NCBI gene;Acc:100846978]	-	27	29		18
54	35	89	0.26385665	0.274220574	
0.223488381	0.598799461	0.429329768	0.825841346		
ENSG00000232956	436.3877146	625.6915733	430.1219105		
562.5308927	660.9237685	906.6336366	497.4003995		
710.0294326	-0.513453561	0.030447708	0.15251722		SNHG15
7	44983023	44986961	-	3647	
lincRNA small nucleolar RNA host gene 15 [Source:HGNC					
Symbol;Acc:HGNC:27797]	-	481	707	370	543
1051	6.458594176	9.185654184	6.312084547		579
8.273249275	9.758659405	13.39978934			
ENSG00000177548	818.3403713	906.2350368	685.8700734		
895.0767796	1028.484137	1307.760793	803.4818272		

1077.107236	-0.422643245	0.030453436	0.15251722	RABEP2
16	28904421	28936526	- 4566	
protein_coding	"rabaptin, RAB GTPase binding effector protein 2 [Source:HGNC Symbol;Acc:HGNC:24817]"			
864	901 1516	9.673849218	10.62650596	590
8.039387294	10.51453035	12.12931414	15.43811644	
ENSG00000272886	987.089051	958.4497508	968.3555444	
1273.20528	1154.048238	1229.26064	971.2981154	
1218.838053	-0.327675889	0.030472917	0.152571591	DCP1A
3	53283428	53347610	- 6127	
protein_coding	decapping mRNA 1A [Source:HGNC Symbol;Acc:HGNC:18714]			
-	1088 1083	833 1229	1011 1425	
8.695803123	8.375428146	8.458706726	11.1459232	
10.14263123	10.81428976			
ENSG00000186153	439.1094675	434.5326202	485.9215097	
361.5530047	278.5240061	336.4292277	453.1878658	
325.5020795	0.47597496	0.030484793	0.15258786	WVOX
16	78099413	79212667	+ 4886	
protein_coding	WW domain containing oxidoreductase [Source:HGNC Symbol;Acc:HGNC:12799]			
390	4.850880573	4.761617112	5.322671526	244
3.969026586	3.069613696	3.711437594		
ENSG00000160013	2.721752898	23.00987398	4.6499666	
27.97114936	47.94265678	40.54403513	10.12719783	
38.81928042	-1.925394856	0.030523252	0.152711165	PTGIR
19	46620468	46625118	- 3546	
protein_coding	prostaglandin I2 receptor [Source:HGNC Symbol;Acc:HGNC:9602]			
47	0.041429645	0.347424993	0.070182382	42
0.423094205	0.72804449	0.616297129		
ENSG00000095739	38.10454057	58.40968011	75.56195724	
52.83439324	164.3748233	146.6486377	57.35872597	
121.2859514	-1.083934684	0.030526693	0.152711165	BAMBI
10	28677342	28682939	+ 2314	
protein_coding	BMP and activin membrane bound inhibitor [Source:HGNC Symbol;Acc:HGNC:30251]			
170	0.888821639	1.351471905	1.747659607	144
1.224669396	3.825132626	3.415989955		
ENSG00000198467	404.6339308	538.0770531	459.1842017	
263.1359977	324.1836792	391.6381266	467.2983952	
326.3192678	0.51699741	0.030640144	0.153220806	TPM2
9	35681992	35690121	- 3248	
protein_coding	tropomyosin 2 [Source:HGNC Symbol;Acc:HGNC:12011]			
-	446 608	395 254	284 454	
6.724306824	8.869803518	7.566376044	4.345399797	
5.374643709	6.499363849			
ENSG00000143507	1438.900032	1372.627482	1136.916834	
1389.233752	1717.945201	2061.707318	1316.148116	
1722.96209	-0.388427389	0.030645894	0.153220806	DUSP10
1	221701424	221742176	- 2914	

protein_coding	dual specificity phosphatase 10	[Source:HGNC				
Symbol;Acc:HGNC:3065]	-	1586	1551	978	1341	1505
2390	26.65276801	25.22020958		20.8812337		
25.57120972	31.74638748	38.13637168				
ENSG00000168917	205.0387183	198.2389143		262.7231129		
152.2873688	150.6769213	122.4947444		222.0002485		
141.8196782	0.646392056	0.030719645		0.153546142		
SLC35G2 3	136818647	136855892		+	4287	
protein_coding	solute carrier family 35 member G2	[Source:HGNC				
Symbol;Acc:HGNC:28480]	-	226	224	226	147	132
142	2.581568417	2.475830881		3.279909058		
1.90535496	1.8926391	1.540160138				
ENSG00000167720	176.0066874	174.3440452		162.748831		
213.4095099	311.6272691	256.2037964		171.0331878		
260.4135252	-0.605132493	0.030755161		0.153670233		SRR
17	2303383	2325260	+	3498		protein_coding serine
racemase [Source:HGNC	Symbol;Acc:HGNC:14398]	-		194		197
140	206	273		297	2.715880197	2.668534745
2.490090189	3.27234782	4.797226257		3.947913807		
ENSG00000160785	1359.061947	1258.463108		1159.004175		
1449.319924	1644.889724	1642.464742		1258.843077		
1578.891464	-0.326397159	0.030761846		0.153670233		
SLC25A44	1	156193932		156212796	+	7293
protein_coding	solute carrier family 25 member 44	[Source:HGNC				
Symbol;Acc:HGNC:29036]	-			1498	1422	997
1399	1441	1904		10.05852462	9.238890581	
8.505420535	10.65917383	12.14521277		12.13924701		
ENSG00000198208	45.3625483	62.83465587		22.08734135		
22.79130689	3.424475485	12.07694663		43.42818184		
12.764243	1.764955209	0.030785875		0.153746852		
RPS6KL1 14	74903954	74923396		-	7617	
protein_coding	ribosomal protein S6 kinase like 1	[Source:HGNC				
Symbol;Acc:HGNC:20222]	-	50	71	19	22	3
14	0.321450964	0.441672983		0.155194559		
0.160491032	0.024209435	0.085462403				
ENSG00000103966	3030.218226	3427.586228		3890.859552		
3067.502713	2668.807894	2576.702828		3449.554669		
2771.004479	0.315797345	0.030805716		0.153802515		EHD4
15	41895939	41972578		-	7879	
protein_coding	EH domain containing 4	[Source:HGNC				
Symbol;Acc:HGNC:3245]	-	3340	3873	3347	2961	2338
2987	20.75888628	23.29178847		26.42965283		
20.88234904	18.23982917	17.62767928				
ENSG00000164038	494.4517765	524.8021258		454.5342351		
510.732468	785.3463778	739.2816618		491.2627125		
678.4535025	-0.465141161	0.030818319		0.1538126		SLC9B2
4	103019868	103085829		-	5374	
protein_coding	solute carrier family 9 member B2	[Source:HGNC				
Symbol;Acc:HGNC:25143]	-	545	593	391	493	688
857	4.966237943	5.228576566		4.526744076		

5.097547729	7.869336859	7.415051607					
ENSG00000158163	281.2477995	162.8391082	182.511189				
139.8557468	148.3939377	63.83528935	208.8660322				
117.3616579	0.836219969	0.0308263	0.1538126			DZIP1L	
3	138061990	138115818	-	5045			
protein_coding	DAZ interacting zinc finger protein 1 like						
[Source:HGNC Symbol;Acc:HGNC:26551]	-	310	184			157	
135	130	74	3.009048632	1.728156596			
1.936178211	1.486909861	1.583906503	0.682026999				
ENSG00000231991	1132.249206	1152.263689	1677.475451				
1158.212777	964.5605948	795.3531997	1320.662782				
972.7088573	0.440814171	0.030833822	0.1538126				
ANXA2P2	9	33624274	33625293	+	1020		
processed_pseudogene	annexin A2 pseudogene 2 [Source:HGNC						
Symbol;Acc:HGNC:539]	-	1248	1302	1443	1118	845	
922	59.91603932	60.48354718	88.01830601				
60.90510208	50.92181765	42.03023008					
ENSG00000272657	8.165258694	7.079961225	4.6499666			0	
0	0	6.631728839	0	5.164220403			
0.030857959	1	AP000317.2	21	34073592			
34360033	+	641	processed_transcript	novel			
transcript	-	9	8	4	0	0	0
0.687564054	0.591368787	0.388247626	0	0	0		
0							
ENSG00000125637	649.5916916	718.6160643	676.5701402				
719.998104	945.1552337	1062.771304	681.5926321				
909.3082138	-0.416280481	0.030876116	0.153980156			PSD4	
2	113157325	113209396	+	13442			
protein_coding	pleckstrin and Sec7 domain containing 4 [Source:HGNC						
Symbol;Acc:HGNC:19096]	-	716	812	582	695	828	
1232	2.608421762	2.862322596	2.69380367				
2.872982345	3.786289403	4.261650547					
ENSG00000127325	22.68127415	36.28480128	23.249833				
56.97826722	43.37668947	96.61557307	27.40530281				
65.65684325	-1.261028951	0.030892142	0.154016659			BEST3	
12	69643360	69699476	-	6863			
protein_coding	bestrophin 3 [Source:HGNC Symbol;Acc:HGNC:17105]						
-	25	41	20	55	38	112	
0.178383505	0.283071599	0.181310453	0.445308243				
0.340343106	0.758813488						
ENSG00000183160	1320.050155	1269.968045	1207.828824				
1111.594195	1043.323531	602.1220536	1265.949008				
919.0132599	0.463360546	0.030967599	0.154349355				
TMEM119	12	108589846	108598320	-	3189		
protein_coding	transmembrane protein 119 [Source:HGNC						
Symbol;Acc:HGNC:27884]	-	1455	1435	1039	1073	914	
698	22.34277735	21.32179791	20.27065933				
18.69636794	17.6172873	10.17728465					
ENSG00000116661	1.814501932	5.309970919	6.974949899				
24.86324388	37.66923033	7.763751407	4.699807583				



23.4320752	-2.326120544	0.030976792	0.154351682	FBX02
1	11637018	11655785	- 3416	
protein_coding	F-box protein 2	[Source:HGNC	Symbol;Acc:HGNC:13581]	
-	2 6	6 24	33 9	
0.028670866	0.083226155	0.109279886	0.390396058	
0.593804437	0.122505522			
ENSG00000171466	592.4348808	587.6367817	477.7840681	
872.2854727	671.197195	688.3859581	552.6185769	
743.9562086	-0.42778085	0.030991101	0.154379497	ZNF562
19	9641808 9675086	- 13007	protein_coding	zinc
finger protein	562 [Source:HGNC	Symbol;Acc:HGNC:25950]	zf-C2H2	653
664	411 842	588 798	2.458468933	
2.418897023	1.965945745	3.597054309	2.778737653	
2.852704382				
ENSG00000163762	9.07250966	8.849951531	2.3249833	0
0	0	6.749148164	0	5.191579071
0.031020184	1	TM4SF18 3	149318498	149334414
-	4482	protein_coding	transmembrane 4 L	six family
member 18	[Source:HGNC	Symbol;Acc:HGNC:25181]	-	10 10
2	0 0	0	0.109258902	0.105719375
0.02776291	0	0	0	
ENSG00000174307	746.667545	994.7345521	1033.455077	
866.0696617	1313.857094	1740.805593	924.9523913	
1306.910783	-0.499632321	0.031050614	0.154495369	PHLDA3
1	201464383	201469237	- 3138	
protein_coding	pleckstrin homology	like domain	family A member	3
[Source:HGNC	Symbol;Acc:HGNC:8934]	-	823	1124 889
836	1151 2018	12.84326902	16.97226534	
17.62607722	14.80353319	22.54601256	29.9019314	
ENSG00000187634	40.82629347	28.3198449	44.1746827	0
10.27342645	16.39014186	37.77360702	8.887856105	
2.076454762	0.03105345	0.154495369	SAMD11	1
923928	944581 +	4166	protein_coding	sterile alpha
motif domain	containing 11	[Source:HGNC	Symbol;Acc:HGNC:28706]	-
45	32 38	0	9	19 0.528958904
0.363962931	0.567506941	0	0.1327916	
0.212063221				
ENSG00000133962	0	4.424975766	0	4.14387398
7.990442797	37.95611799	1.474991922		
16.69681159	-3.463192755	0.031054017	0.154495369	
CATSPERB	14	91580696	91780707	- 5635
protein_coding	cation channel	sperm associated	auxiliary	
subunit beta	[Source:HGNC	Symbol;Acc:HGNC:20500]	-	0
5	0 4	7 44	0	0.042043855
0	0.039443742	0.076357461	0.363069506	
ENSG00000267002	205.0387183	173.45905	151.1239145	
236.2008168	239.7132839	339.8797838	176.5405609	
271.9312949	-0.623309496	0.031056297	0.154495369	
AC060780.1	17	43148368	43171037	- 8450
lincRNA	novel transcript	-	226	196 130

228	210	394	1.309725894	1.099071138			
0.957179723	1.499305664		1.527601042	2.168056176			
ENSG00000156709	1237.490318		1262.888084	1310.128089			
1041.148337	932.5988236		1058.458109	1270.16883			
1010.73509	0.328970755		0.031058032	0.154495369	AIFM1		
X	130129362		130165887	-	3306		
protein_coding	apoptosis inducing factor mitochondria associated 1						
[Source:HGNC Symbol;Acc:HGNC:8768]			-	1364	1427	1127	
1005	817	1227	20.20413234	20.45255479			
21.20937708	16.89177376		15.19030757	17.25729534			
ENSG00000109705	95.26135143		99.11945715	60.44956579			
27.97114936	33.10326302		56.93417699	84.94345812			
39.33619646	1.107146081		0.031075313	0.154526395	NKX3-2		
4	13540830		13545050	-	2801		
protein_coding	NK3 homeobox 2 [Source:HGNC Symbol;Acc:HGNC:951]						
Homeobox		105	112	52	27	29	
						66	
1.835713382	1.894660298		1.155040151	0.535627294			
0.636403045	1.095624777						
ENSG00000113719	2864.1913		2862.074325	3256.139111			
2496.684073	2623.148221		2159.18553	2994.134912			
2426.339275	0.303478332		0.031081828	0.154526395	ERGIC1		
5	172834275		172952685	+	14139		
protein_coding	endoplasmic reticulum-golgi intermediate compartment 1						
[Source:HGNC Symbol;Acc:HGNC:29205]			-	3157	3234	2801	
2410	2298	2503	10.93413851	10.83796544			
12.32540677	9.47131742		9.990303684	8.231389893			
ENSG00000187621	26.31027801		21.23988367	18.5998664	0		
0	8.626390453		22.05000936	2.875463484			
2.889164327	0.031090477		0.154526395	TCL6	14		
95650498	95679833		+	10566	processed_transcript		
T cell leukemia/lymphoma 6	[Source:HGNC Symbol;Acc:HGNC:13463]						
-	29	24	16	0	0	10	
0.134405201	0.107628448		0.094214169	0	0		
0.044006863							
ENSG00000165283	3248.865709		3651.490002	3436.325317			
3821.687778	4535.147033		4218.304931	3445.560343			
4191.713247	-0.282709107		0.031115686	0.154565138	STOML2		
9	35099776		35103195	-	1806		
protein_coding	stomatin like 2 [Source:HGNC Symbol;Acc:HGNC:14559]						
-	3581	4126	2956	3689	3973	4890	
97.09911209	108.2524959		101.8341705	113.5018533			
135.2222566	125.8989567						
ENSG00000141934	1271.058603		1212.44336	1338.027889			
1089.838857	996.522366		948.0403108	1273.843284			
1011.467178	0.332689488		0.031115747	0.154565138	PLPP2		
19	281040	291504	-	7059	protein_coding		
phospholipid phosphatase 2	[Source:HGNC Symbol;Acc:HGNC:9230]					-	
1401	1370	1151	1052	873	1099	9.719045984	
9.196102983	10.14469486		8.281034645	7.601834705			
7.23911588							

ENSG0000030582	3381.32435	4024.957956	4268.669338	
3148.308256	3320.599728	3033.038883	3891.650548	
3167.315622	0.297042807	0.031128412	0.154584639	GRN
17	44345086	44353102	+ 3680	
protein_coding	granulin precursor [Source:HGNC Symbol;Acc:HGNC:4601]			
-	3727 4548	3672 3039	2909 3516	
49.59526985	58.55973169	62.08142835	45.88755574	
48.58959316	44.42547355			
ENSG00000164366	435.4804637	457.5424942	433.6093854	
619.50916	490.8414861	697.8749876	442.2107811	
602.7418779	-0.44782185	0.031165448	0.15472512	
CCDC127 5	196871 218215	- 9701	protein_coding	
coiled-coil domain containing 127	[Source:HGNC Symbol;Acc:HGNC:30520]			
-	480 517	373 598	430 809	
2.423000012	2.525227321	2.392209297	3.425285082	
2.724578412	3.877600254			
ENSG00000249628	8.165258694	9.734946684	2.3249833	0
0	0	6.741729559	0	5.190052354
0.03118639	1	LINC00942	12	1500525 1504424 +
2210	lincRNA long intergenic non-protein coding RNA 942			
[Source:HGNC Symbol;Acc:HGNC:48636]	-	9	11	2
0	0	0	0.199424687	0.235845097
0.05630469	0	0	0	
ENSG00000253540	122.4788804	96.46447169	33.71225785	
130.5320304	272.8165469	117.3189102	84.21853665	
173.5558291	-1.036017686	0.031235686	0.155011729	
FAM86HP 3	130099092	130111472	- 1301	
transcribed_unprocessed_pseudogene	"family with sequence similarity 86 member H, pseudogene [Source:HGNC Symbol;Acc:HGNC:42359]" -			
136	5.081420736	3.969864121	1.386843796	239
5.381524133	11.29192447	4.860630749		
ENSG00000132613	709.4702554	618.611612	759.1070474	
499.3368145	586.7267997	478.7646701	695.7296383	
521.6094281	0.415822675	0.031240704	0.155011729	MTSS1L
16	70661204	70686066	- 4999	
protein_coding	"MTSS1L, I-BAR domain containing [Source:HGNC Symbol;Acc:HGNC:25094]" -			
555	7.660415033	6.625527789	8.127124095	514
5.357669814	6.320149369	5.162271771		
ENSG00000177842	113.4063707	123.8993214	95.32431529	
137.7838098	189.4876435	225.1487908	110.8766692	
184.1400814	-0.731053433	0.031267169	0.155099536	ZNF620
3	40477131	40518736	+ 3783	
protein_coding	zinc finger protein 620 [Source:HGNC Symbol;Acc:HGNC:28742] zf-C2H2			
261	1.618088813	1.753549925	1.348603734	166
1.953562649	2.69723699	3.208006091		
ENSG00000159147	1236.583067	1028.364368	932.3183032	
938.5874564	753.3846066	734.9684666	1065.755246	

808.9801765	0.398480659	0.031277245	0.155103355	DONSON
21	33559542	33588708	- 3513	
protein_coding	downstream neighbor of SON [Source:HGNC			
Symbol;Acc:HGNC:2993]	-	1363 1162	802 906	660
852	18.99968451	15.67308248	14.20375149	
14.33052468	11.5481694	11.27697099		
ENSG00000189306	852.815908	1004.469499	877.6811957	
1051.508022	1146.057795	1321.563017	911.6555342	
1173.042945	-0.363885649	0.031285475	0.155103355	RRP7A
22	42509968	42519802	- 4082	
protein_coding	ribosomal RNA processing 7 homolog A [Source:HGNC			
Symbol;Acc:HGNC:24286]	-	940 1135	755 1015	1004
1532	11.27673921	13.1749599	11.50749508	
13.8167241	15.11847801	17.45085794		
ENSG00000176641	179.6356913	161.954113	219.7109218	
135.7118728	34.24475485	119.0441882	187.100242	
96.33360531	0.953069547	0.03131227	0.155192698	RNF152
18	61808063	61894247	- 10632	
protein_coding	ring finger protein 152 [Source:HGNC			
Symbol;Acc:HGNC:26811]	-	198 183	189 131	30
138	0.911966543	0.81557248	1.105996322	
0.68464962	0.17344175	0.603524822		
ENSG00000104472	1542.326642	1551.396503	1624.000835	
2095.764265	1724.794152	2040.141342	1572.57466	
1953.566587	-0.313477227	0.031329038	0.155232312	CHRAC1
8	140511298	140517137	+ 3301	
protein_coding	chromatin accessibility complex subunit 1 [Source:HGNC			
Symbol;Acc:HGNC:13544]	-	1700 1753	1397 2023	1511
2365	25.21924499	25.16302404	26.33041647	
34.05355073	28.13625557	33.31322199		
ENSG00000106868	76.20908114	51.32971888	69.74949899	
41.4387398	26.25431205	9.489029498	65.76276634	
25.72736045	1.360535133	0.031351824	0.155301711	SUSD1
9	112040785	112175408	- 4183	
protein_coding	sushi domain containing 1 [Source:HGNC			
Symbol;Acc:HGNC:25413]	-	84 58	60 40	23
11	0.983377133	0.657001816	0.892421927	
0.531354264	0.337977144	0.122274484		
ENSG00000048740	145.1601546	52.21471403	29.06229125	
22.79130689	43.37668947	2.587917136	75.47905328	
22.91863783	1.732579791	0.03137693	0.155382561	CELF2
10	10798397	11336675	+ 10978	
protein_coding	CUGBP Elav-like family member 2 [Source:HGNC			
Symbol;Acc:HGNC:2550]	-	160 59	25 22	38
3	0.713716011	0.25465677	0.14168492	
0.111355455	0.212768695	0.012706591		
ENSG00000118680	3255.216466	3773.619333	5247.487308	
3210.466366	3160.790872	3158.121545	4092.107702	
3176.459594	0.365009216	0.031445023	0.155676187	MYL12B
18	3261479 3278431	+ 1932	protein_coding	myosin

light chain 12B [Source:HGNC	Symbol;Acc:HGNC:29827]	-	3588
4264	4514 3099	2769 3661	90.94398826
104.5770808	145.3654775	89.13053181	88.09742079
88.1096802			
ENSG0000005379	236.7925021	321.2532406	258.0731463
136.7478413	206.6100209	187.1926728	272.0396297
176.8501784	0.622120136	0.031489296	0.155851751
TSP0AP1 17	58301228	58328760	- 11354
protein_coding	TSP0 associated protein 1 [Source:HGNC		
Symbol;Acc:HGNC:16831]	-	261 363	222 132 181
217	1.12569387	1.514900734	1.216496689
0.646006793	0.979889367	0.888672748	
ENSG00000197283	351.1061238	376.1229401	355.7224449
287.9992416	178.0727252	268.2807431	360.9838363
244.7842366	0.558756706	0.031557888	0.156147546
SYNGAP1 6	33419661	33457541	+ 12129
protein_coding	synaptic Ras GTPase activating protein 1 [Source:HGNC		
Symbol;Acc:HGNC:11497]	-	387 425	306 278 156
311	1.562480667	1.660314554	1.569651636
1.273596461	0.790582074	1.192247474	
ENSG0000011590	2.721752898	4.424975766	0 10.35968495
22.82983656	18.11541995	2.382242888	17.10164715
-2.805909761	0.031571976	0.156173569	ZBTB32 19
35704527	35717038	+ 2770	protein_coding
zinc finger and BTB domain containing 32 [Source:HGNC			
Symbol;Acc:HGNC:16763]	ZBTB	3 5	0 10 20
21	0.053035928	0.085529646	0 0.200600622
0.443810514	0.352509271		
ENSG0000043143	938.0974988	784.1057057	1093.904643
735.5376314	793.3368206	551.2263499	938.7026157
693.366934	0.437432704	0.031615532	0.1563453 JADE2
5	134524312	134583230	+ 9877
protein_coding	jade family PHD finger 2 [Source:HGNC		
Symbol;Acc:HGNC:22984]	-	1034 886	941 710 695
639	5.126537854	4.25045193	5.927498002
3.994342843	4.32520913	3.008200801	
ENSG00000166924	0.907250966	0 0	0 37.66923033
0	0.302416989	12.55641011	-5.159743843
0.031638839	0.156416831	NYAP1 7	100483927
100494799	+ 3586	protein_coding	neuronal tyrosine
phosphorylated phosphoinositide-3-kinase adaptor 1 [Source:HGNC			
Symbol;Acc:HGNC:22009]	-	1 0	0 0 33
0	0.013655839	0 0	0 0.565654198
0			
ENSG00000165678	3312.373277	3612.550215	3787.397795
3107.905485	3007.830967	2664.692011	3570.773762
2926.809488	0.286983824	0.031701108	0.156635785 GHITM
10	84139440	84153245	+ 2128
protein_coding	growth hormone inducible transmembrane protein		
[Source:HGNC	Symbol;Acc:HGNC:17281]	-	3651 4082 3258

3000	2635	3089	84.01733328	90.8924516	
95.25467574	78.33605104		76.11256468	67.49588604	
ENSG00000165487	1223.881553		1106.243941	1196.203908	
1073.263361	689.4610642		899.7325242	1175.443134	
887.4856497	0.404772791		0.031720469	0.156635785	MICU2
13	21492691		21604214	-	3645
protein_coding	mitochondrial	calcium uptake 2	[Source:HGNC		
Symbol;Acc:HGNC:31830]	-	1349	1250	1029	1036
1043	18.12354292		16.24945955	17.56405097	604
15.79335023	10.1856035		13.3050893		
ENSG00000143882	18.14501932		12.38993214	12.78740815	
4.14387398	0	0	14.44078654	1.381291327	
3.399946567	0.031720688		0.156635785	ATP6V1C2	2
10721100	10785110	+	3483	protein_coding	
ATPase H+ transporting V1 subunit C2	[Source:HGNC				
Symbol;Acc:HGNC:18264]	-	20	14	11	4
0	0.281193453		0.190458782	0.196492536	0
0.063814381	0	0			
ENSG00000268089	376.5091509		266.3835411	363.8598864	
197.8699825	262.5431205		219.9729565	335.5841928	
226.7953532	0.565432379		0.031724676	0.156635785	GABRQ
X	152638183		152657534	+	6172
protein_coding	gamma-aminobutyric acid type A receptor theta subunit	[Source:HGNC			
Symbol;Acc:HGNC:14454]	-		415	301	313
191	230	255	3.292690138	2.310824796	
3.155188183	1.71956855		2.290600118	1.92107925	
ENSG00000182307	2782.538713		3480.685937	3174.764696	
3640.393291	3811.441214		4141.530056	3145.996449	
3864.454854	-0.296873289		0.031727402	0.156635785	
C8orf33 8	145052378		145066685	+	4440
protein_coding	chromosome 8 open reading frame 33	[Source:HGNC			
Symbol;Acc:HGNC:26104]	-	3067	3933	2731	3514
4801	33.82668891		41.97274928	38.26886454	3339
43.97752971	46.22541397		50.2782038		
ENSG00000134440	5979.691117		5821.498117	5922.894956	
8018.396151	6937.987332		6475.831313	5908.028063	
7144.071598	-0.274000838		0.031737245	0.156640661	NARS
18	57600656		57622213	-	4089
protein_coding	asparaginyl-tRNA synthetase	[Source:HGNC			
Symbol;Acc:HGNC:7643]	-	6591	6578	5095	7740
7507	78.93377704		76.22601209	77.52359863	6078
105.1806605	91.36733243		85.36509411		
ENSG00000182685	40.82629347		46.90474312	32.5497662	
3.107905485	7.990442797		23.29125422	40.09360093	
11.46320083	1.791131821		0.031762758	0.156722853	BRICD5
16	2209253	2211950	-	2083	protein_coding
BRICHOS domain containing 5	[Source:HGNC				
Symbol;Acc:HGNC:28309]	-				
45	53	28	3	7	27
1.205627208	0.836326018		0.080028381	0.206564711	
0.602705996					

ENSG00000125898	291.2275601	269.0385265	358.0474282		
161.6110852	221.4494147	228.599347	306.1045049		
203.8866156	0.584351599	0.031773976	0.156734483		
FAM110A 20	833715 857463	+ 2722	protein_coding	family	
with sequence similarity 110 member A [Source:HGNC					
Symbol;Acc:HGNC:16188]	-	321 304	308 156	194	
265	5.774914984	5.291903348	7.039947854		
3.184553293	4.380876086	4.526773566			
ENSG00000111775	363.8076374	837.2054149	727.7197728		
309.75458	503.3978962	439.9459131	642.9109417		
417.6994631	0.622050291	0.031812778	0.156882139	COX6A1	
12	120438090	120440742	+ 1344		
protein_coding	cytochrome c oxidase subunit 6A1	[Source:HGNC			
Symbol;Acc:HGNC:2277]	-	401 946	626 299	441	
510	14.61079299	33.35172556	28.97890099		
12.36186405	20.16910751	17.64419811			
ENSG00000091844	468.1414984	528.3421064	341.7725451		
598.7897901	791.0538369	518.4460662	446.0853833		
636.0965644	-0.509167675	0.031854075	0.157042008	RGS17	
6	153004459	153131249	- 7899		
protein_coding	regulator of G protein signaling 17	[Source:HGNC			
Symbol;Acc:HGNC:14088]	-	516 597	294 578	693	
601	3.198941303	3.581200679	2.315698761		
4.066003688	5.392727568	3.537800804			
ENSG00000108091	2080.326465	1960.264264	1672.825484		
2294.670216	2358.322117	2412.80141	1904.472071		
2355.264581	-0.306013271	0.031892543	0.157187849	CCDC6	
10	59788763	59906656	- 7345		
protein_coding	coiled-coil domain containing 6	[Source:HGNC			
Symbol;Acc:HGNC:18782]	-	2293 2215	1439 2215	2066	
2797	15.28765728	14.28921501	12.18921789		
16.75691143	17.28963708	17.70645762			
ENSG00000167323	830.1346339	787.6456863	770.7319639		
707.566482	614.1226036	380.423819	796.1707613		
567.3709682	0.490391741	0.03192314	0.157274322	STIM1	
11	3854527 4093210	+ 7130	protein_coding		
stromal interaction molecule 1	[Source:HGNC	Symbol;Acc:HGNC:11386]			
-	915 890	663 683	538 441		
6.284348309	5.914620955	5.785366083	5.322837618		
4.638099978	2.875941699				
ENSG00000155011	20.86677222	11.50493699	16.2748831		
5.179842475	0 0	16.21553077	1.726614158		
3.242897075	0.031940912	0.157274322	DKK2 4		
106921802	107283806	- 4319	protein_coding		
dickkopf WNT signaling pathway inhibitor 2	[Source:HGNC				
Symbol;Acc:HGNC:2892]	-	23 13	14 5	0	
0	0.26077942	0.142622022	0.20167482		
0.064327821	0 0				
ENSG00000130513	238.6070041	161.954113	325.497662		
233.0929114	74.19696883	61.24737221	242.019593		

122.8457508	0.97818099	0.03194948	0.157274322	GDF15
19	18374731	18389176	+ 2087	
protein_coding	growth differentiation factor 15	[Source:HGNC		
Symbol;Acc:HGNC:30142]	-	263 183	280 225	65
71	6.171091459	4.154847438	8.347230935	
5.990624698	1.914424607	1.581855897		
ENSG0000017797	1949.682326	1708.040646	2290.10855	
1712.455922	1502.203246	1477.700685	1982.610507	
1564.119951	0.341573873	0.031967806	0.157274322	RALBP1
18	9475009 9538116	+ 8043	protein_coding	ralA
binding protein 1	[Source:HGNC	Symbol;Acc:HGNC:9841]	-	2149
1930	1970 1653	1316 1713	13.08419567	
11.37013657	15.23894859	11.42001905	10.05738744	
9.903080569				
ENSG00000124120	599.6928885	674.3663067	546.3710754	
867.1056302	723.7058191	802.2543121	606.8100902	
797.6885871	-0.393950661	0.031968988	0.157274322	TTPAL
20	44475886	44494603	+ 7044	
protein_coding	alpha tocopherol transfer protein like	[Source:HGNC		
Symbol;Acc:HGNC:16114]	-	661 762	470 837	634
930	4.59526748	5.125804817	4.151311832	
6.602648145	5.53244711	6.138957396		
ENSG00000279118	36.29003864	49.55972857	37.1997328	0
19.40536108	11.21430759	41.0165	10.20655622	
2.01258467	0.031973365	0.157274322	AC093535.2	5
126496279	126498604	+	2326 TEC	tec
-	40 56	32 0	17 13	
0.842129662	1.14078751	0.855947474	0 0.449248433	
0.259875094				
ENSG00000169258	710.3775064	889.4201289	788.1693386	
843.2783549	1236.23565	1097.276866	795.9889913	
1058.93029	-0.411477272	0.031979729	0.157274322	GPRIN1
5	176595802	176610133	- 4211	
protein_coding	G protein regulated inducer of neurite outgrowth 1	[Source:HGNC		
Symbol;Acc:HGNC:24835]	-	783 1005	678	
814	1083 1272	9.105529468	11.30855882	
10.01731427	10.74116053	15.80849679	14.04536042	
ENSG00000130175	7843.184601	9252.624326	10247.36389	
7176.153764	7515.582197	7737.872236	9114.39094	
7476.536066	0.285618775	0.031981216	0.157274322	PRKCSH
19	11435288	11450968	+ 5166	
protein_coding	protein kinase C substrate 80K-H	[Source:HGNC		
Symbol;Acc:HGNC:9411]	-	8645 10455	8815 6927	6584
8970	81.9481737	95.89502487	106.163386	
74.50798688	78.3398581	80.73634029		
ENSG00000280385	329.3321007	269.9235217	172.0487642	
477.5814762	323.0421874	380.423819	257.1014622	
393.6824942	-0.612297856	0.032046017	0.157508282	
AP000648.3	11 90193614	90198120	+ 4507	
TEC	novel transcript	-	363 305	148



461	283	441	3.944098482	3.206555211	
2.043059449	5.683624936		3.859635014	4.549692547	
ENSG00000033867	1934.259059		1785.920219	1705.37525	
1726.959481	1357.233784		997.2107363	1808.518176	
1360.468	0.411461242		0.0320466	0.157508282	SLC4A7
3	27372721		27484420	- 9616	
protein_coding	solute carrier family 4 member 7				
Symbol;Acc:HGNC:11033]	-		2132 2018	1467 1667	1189
1156	10.85728978		9.943817569	9.491667273	
9.632814316	7.600370439		5.589775908		
ENSG00000229644	140.6238997		173.45905	176.6987308	
271.4237457	265.967596		210.483927	163.5938935	
249.2917562	-0.607498654		0.032062548	0.157542891	
NAMPTP1 10	36521721		36524234	- 2514	
processed_pseudogene	nicotinamide phosphoribosyltransferase				
pseudogene 1 [Source:HGNC	Symbol;Acc:HGNC:17633]			-	155
196	152 262		233 244	3.019222424	
3.694173077	3.761708697		5.790926618	5.696892283	
4.512898554					
ENSG00000251192	76.20908114		71.6846074	94.16182364	
155.3952742	106.15874		160.4508624	80.68517073	
140.6682922	-0.806197635		0.032118018	0.157771626	ZNF674
X	46497727		46545457	- 6203	
protein_coding	zinc finger protein 674				
Symbol;Acc:HGNC:17625]	zf-C2H2	84 81	81 150		93
186	0.663141471		0.618742116	0.812437731	
1.343697538	0.921570422		1.394254906		
ENSG00000123989	2455.928365		2907.209078	3170.114729	
2310.209744	2279.559181		2313.597919	2844.417391	
2301.122281	0.305436257		0.032221957	0.158215571	CHPF
2	219538947		219543787	- 3354	
protein_coding	chondroitin polymerizing factor				
Symbol;Acc:HGNC:24291]	-		2707 3285	2727 2230	1997
2682	39.52336208		46.4086309	50.58583537	
36.94484496	36.59842253		37.18148519		
ENSG00000101266	5286.551379		5186.956592	5578.797428	
6042.804231	6363.816942		6764.815393	5350.768466	
6390.478855	-0.256355778		0.032226282	0.158215571	
CSNK2A1 20	472498 543835		- 29523	protein_coding	casein
kinase 2 alpha 1 [Source:HGNC	Symbol;Acc:HGNC:2457]			-	5827
5861	4799 5833		5575 7842	9.665252742	
9.406708275	10.11339826		10.97851333	11.60731433	
12.35086485					
ENSG00000051382	850.0941551		868.1802452	749.8071142	
1232.802509	1088.983204		900.5951633	822.6938382	
1074.126959	-0.383565668		0.032357176	0.158793265	PIK3CB
3	138652699		138834938	- 7850	
protein_coding	"phosphatidylinositol-4,5-bisphosphate 3-kinase				
catalytic subunit beta [Source:HGNC	Symbol;Acc:HGNC:8976]"			-	
937	981 645		1190 954	1044 5.845189799	

	5.921418981	5.112071324	8.423437315	7.470094195	
	6.183891486				
ENSG00000271590	31.75378381	8.849951531	2.3249833	0	
	3.424475485	0	14.30957288	1.141491828	
3.717851	0.032361904	0.158793265	AC108463.3	2	
	111210995	111212476	-	1482	lincRNA novel
transcript	-	35	10	2	0
	1.156507688	0.319726208	0.083963134	0	
0.124428656	0				
ENSG00000149571	17.23776835	24.77986429	24.41232465	0	
	9.131934625	0	22.1433191	3.043978208	
2.90509707	0.032414532	0.159007392	KIRREL3	11	
126423359	127003460	-	6594	protein_coding	kirre
like nephrin family adhesion molecule 3 [Source:HGNC					
Symbol;Acc:HGNC:23204]	-	19	28	21	0
	0	0.141102056	0.201203499	0.198142299	0
	0.074574166	0			
ENSG00000122042	978.0165413	985.8846006	1134.59185		
1084.659014	1533.023525	1407.826922	1032.830997		
1341.836487	-0.378039351	0.03245	0.159096728	UBL3	13
	29764371	29850684	-	4384	protein_coding
ubiquitin like 3 [Source:HGNC Symbol;Acc:HGNC:12504]					-
	1078	1114	976	1047	1343
	12.04040474	13.85115913	13.2705273	1632	12.04139766
	17.30934472				18.83010871
ENSG00000089063	1819.038187	1780.610248	1894.861389		
2310.209744	2140.297178	2238.548322	1831.503275		
2229.685081	-0.284088973	0.032454858	0.159096728		
TMEM230	20	5068232	5113103	-	3051
transmembrane protein 230 [Source:HGNC Symbol;Acc:HGNC:15876]					-
	2005	2012	1630	2230	1875
	31.24727932	33.23932864	40.61390036	2595	32.18109763
	39.54815				37.77516975
ENSG00000172500	1504.222102	1773.530287	1589.126085		
2055.361494	1988.478765	1956.465355	1622.292825		
2000.101871	-0.301835818	0.032462232	0.159096728		FIBP
	11	65883741	65888539	-	3353
protein_coding	FGF1 intracellular binding protein [Source:HGNC				
Symbol;Acc:HGNC:3705]	-	1658	2004	1367	1984
	2268	24.21473142	28.31982756	25.3654054	1742
32.87911794	31.93463505	31.45143859			
ENSG00000138801	969.8512826	962.8747266	1105.529559		
801.8396151	865.2508058	680.6222067	1012.751856		
782.5708758	0.3723976	0.032476245	0.159096728		PAPSS1
	4	107590276	107720452	-	3478
protein_coding	3'-phosphoadenosine 5'-phosphosulfate synthase 1				
[Source:HGNC Symbol;Acc:HGNC:8603]					
	774	758	789	15.051397	14.82264674
17.01209448	12.36583441	13.3963655	10.54820214		
ENSG00000067704	4920.929239	3682.464832	4130.332832		

4005.054201	3179.054741	2763.032862	4244.575635	
3315.713935	0.356500629	0.032480943	0.159096728	IARS2
1	220094102	220148041	+ 4165	
protein_coding	"isoleucyl-tRNA synthetase 2, mitochondrial [Source:HGNC Symbol;Acc:HGNC:29685]"			
3866	2785	3203	5424 4161	3553
53.07463893	51.57733372	63.77248769	47.33791777	
ENSG00000099940	1133.156457	41.10148885	35.75797785	
1070.155455	945.1552337	1283.242972	1255.490982	
962.1920416	0.347432331	871.2654357	1223.96347	
22	20858983	0.032486708	0.159096728	SNAP29
22	20858983	20891218	+ 4953	
protein_coding	synaptosome associated protein 29 [Source:HGNC Symbol;Acc:HGNC:11133]			
1010	12.34874419	1249 1450	1080 1033	828
11.58894861	10.27565155	13.87158588	13.56632678	
ENSG00000248371	6.350756762	9.481653143		
25.89921237	10.27342645	19.46989337	8.137441549	
43.11255191	-1.92899973	93.16501689	11.31936389	
LINC02056	5	0.032498212	0.159109017	
	72574120	72660669	-	818
	lincRNA long intergenic non-protein coding RNA 2056 [Source:HGNC Symbol;Acc:HGNC:52898]			
25	9	108	7 22	7
0.532416594	1.698238759	0.419057309	1.274370818	
ENSG00000178150	16.33051739	0.676295606	6.139054232	0
	3.424475485	0	6.974949899	
3.591036724	0.032588325	13.07846001	1.141491828	
48270102	48287608	0.159506057	ZNF114 19	
finger protein 114	[Source:HGNC Symbol;Acc:HGNC:12894] zf-C2H2			18
18	6	0	3 0	0.29450622
0.284965464	0.124724388	0	0.061611516	0
ENSG00000135744	12.70151352	1.769990306	5.812458249	0
	0	6.761320693	0	5.190794711
0.032648391	1	AGT	1	230702523 230714297
-	2291	protein_coding angiotensinogen [Source:HGNC Symbol;Acc:HGNC:333]		
0	0.299248257	14	2	5 0 0
0	0	0.04136484	0.135784989	0
ENSG00000166896	137.9021468	85.84452985	138.3365063	
91.16522755	57.07459141	25.01653231	120.6943943	
57.75211709	1.066870617	0.03268882	0.159953674	ATP23
12	57906039	57959148	+ 3327	
protein_coding	ATP23 metalloproteinase and ATP synthase assembly factor homolog [Source:HGNC Symbol;Acc:HGNC:29452]			
97	119	88	50 29	2.23727552
1.381482457	2.225363739	1.469744741	0.923771509	
0.405299637				
ENSG00000161714	899.9929583	850.4803421	1025.317635	
854.6740083	638.0939319	578.8307994	925.2636452	
690.5329132	0.422107009	0.032707478	0.159988994	PLCD3
17	45108967	45133354	- 6740	

protein_coding	phospholipase C delta 3	[Source:HGNC				
Symbol;Acc:HGNC:9061]	-	992	961	882	825	559
671	7.207430432	6.756004528		8.141708239		
6.80152182	5.097993431	4.629068866				
ENSG00000101856	4020.936281	4434.710712		4048.958417		
5539.323542	4972.338404	4635.822229		4168.201803		
5049.161392	-0.276435945	0.032714127		0.159988994		PGRMC1
X	119236245	119244466		+ 1919		
protein_coding	progesterone receptor membrane component 1					
[Source:HGNC Symbol;Acc:HGNC:16090]	-	4432	5011			3483
5347	4356	5374	113.0976186	123.7302438		
112.9237642	154.8271976	139.5276426		130.2128083		
ENSG00000284906	47.17705023	30.08983521		23.249833		
5.179842475	12.55641011	12.07694663		33.50557281		
9.937733073	1.754764845	0.032743675		0.16008924		
AC091057.6	15	30624548	30685606	+		2297
protein_coding	Rho GTPase-activating protein 11B					
[Source:UniProtKB/Swiss-Prot;Acc:Q3KRB8]	-			52		34
20	5	11	14	1.108590192	0.701365441	
0.541721219	0.120954228	0.294360173		0.283398834		
ENSG00000269693	13.60876449	8.849951531		27.8997996		0
0	5.175834272	16.78617187		1.725278091		
3.214922008	0.032770209	0.160174698		AC010422.6		19
12525720	12580975	-		5857	protein_coding	
novel transcript	zf-C2H2	15		10	24	0
0	6	0.125413624	0.080900502	0.254942866		
0	0	0.047632902				
ENSG00000071537	1837.183206	1269.08305		1699.562792		
1571.564207	926.8913645	998.9360144		1601.943016		
1165.797195	0.458364298	0.032822257		0.160384782		SEL1L
14	81471549	81533861		- 9559		
protein_coding	"SEL1L, ERAD E3 ligase adaptor subunit	[Source:HGNC				
Symbol;Acc:HGNC:10717]"	-	2025	1434	1462	1517	812
1158	10.37388071	7.10825715		9.515722261		
8.818305956	5.221447646	5.632836116				
ENSG00000142208	2761.67194	2415.151773		2857.404475		
2371.331885	2128.88226	2013.399532		2678.076063		
2171.204559	0.302623411	0.032886834		0.160655951		AKT1
14	104769349	104795751		- 11162		
protein_coding	AKT serine/threonine kinase 1	[Source:HGNC				
Symbol;Acc:HGNC:391]	-	3044	2729	2458	2289	1865
2334	13.35461319	11.58478447		13.70082462		
11.39503906	10.27032479	9.722766404				
ENSG00000100299	79.83808501	97.34946684		103.4617568		
54.90633023	54.79160775	12.07694663		93.54976956		
40.59162821	1.211910532	0.032898116		0.160666696		ARSA
22	50622754	50628173		- 2932		
protein_coding	arylsulfatase A	[Source:HGNC Symbol;Acc:HGNC:713]				
-	88	110	89	53	48	14
1.469763269	1.777686441	1.888569133		1.00443988		

1.006293417	0.222021528						
ENSG00000160888	766.6270663	1101.818966	1036.942552				
976.9182907	1276.187864	1776.173794	968.4628612				
1343.093316	-0.472621626	0.032939432	0.160824073			IER2	
19	13150415	13154908	+ 3072				
protein_coding	immediate early response 2 [Source:HGNC						
Symbol;Acc:HGNC:28871]	-	845 1245	892 943			1118	
2059	13.46989409	19.20324315	18.06552095				
17.05699511	22.37010138	31.16492983					
ENSG00000137776	1703.817314	1483.251877	1471.714429				
1214.155076	1344.677374	1161.112155	1552.927873				
1239.981535	0.325358689	0.032975126	0.16095392			SLTM	
15	58879045	58933653	- 8157				
protein_coding	SAFB like transcription modulator [Source:HGNC						
Symbol;Acc:HGNC:20709]	-	1878 1676	1266 1172			1178	
1346	11.27440961	9.735762991	9.656285328				
7.983791617	8.876917596	7.67265403					
ENSG00000272173	8.165258694	7.964956378	3.48747495			0	
0	0	6.539230007	0			5.14496974	
0.033008555	1	U47924.2	12			6943508 6944604	-
1097	antisense	"novel transcript, antisense to					
C12orf57"	-	9	9			3 0 0	0
0.40175803	0.388742768	0.170145894	0			0	0
0							
ENSG00000213023	0	1.769990306	0			3.107905485	
19.40536108	9.489029498	0.589996769					
10.66743202	-4.10911639	0.033042724	0.161239378			SYT3	
19	50621307	50639827	- 3790				
protein_coding	synaptotagmin 3 [Source:HGNC						
Symbol;Acc:HGNC:11511]	-	0 2	0 3			17 11	0
0.025004445	0	0.043983936	0.275712891				
0.134953606							
ENSG00000205097	694.046989	588.5217768	368.509853				
511.7684365	323.0421874	189.78059	550.3595396				
341.5304046	0.690680502	0.033101452	0.161481409			FRG2	
4	190024351	190027257	- 2103				
protein_coding	FSHD region gene 2 [Source:HGNC						
Symbol;Acc:HGNC:19136]	-	765 665	317 494			283 220	
17.81356513	14.98334617	9.378358628	13.05268087				
8.271695202	4.864233633						
ENSG00000104979	1507.851105	1893.004633	2026.222946				
1977.663857	2343.482723	2614.658946	1809.026228				
2311.935175	-0.354503079	0.033119478	0.1615248				
C19orf53	19	13774168	13778462			+ 1174	
protein_coding	chromosome 19 open reading frame 53						
[Source:HGNC	Symbol;Acc:HGNC:24991]	-	1662 2139			1743	
1909	2053 3031	69.32527581	86.33146853				
92.37110454	90.35451834	107.4900371	120.0463217				
ENSG00000166454	1864.400735	1538.121576	1586.801102				
1896.858314	2039.845897	2309.284724	1663.107804				

2081.996312	-0.324206515	0.033214684	0.161911021	ATMIN
16	81035847	81047358	+	6262
protein_coding	ATM interactor [Source:HGNC Symbol;Acc:HGNC:29034]			
-	2055	1738	1365	1831
16.07042811	13.15113239	13.56208415	16.24752914	
17.54118179	19.87770889			
ENSG00000185909	146.9746565	171.6890597	138.3365063	
168.8628647	208.8930046	382.1490971	152.3334075	
253.3016554	-0.735073426	0.033216976	0.161911021	
KLHDC8B 3	49171611	49176486	+	2158
protein_coding	kelch domain containing 8B [Source:HGNC			
Symbol;Acc:HGNC:28557]	-	162	194	119
443	3.676141822	4.259677603	3.430855032	183
4.197089281	5.212511301	9.545162009		
ENSG00000105248	589.7131279	980.5746297	790.4943219	
824.6309219	1015.927727	1532.909583	786.9273598	
1124.489411	-0.51564919	0.033241613	0.161934565	YJU2
19	4247079	4269090	+	1671
splicing factor	homolog [Source:HGNC Symbol;Acc:HGNC:25518]			
650	1108	680	796	890
31.4188114	25.31857796	26.4696782	32.7386613	
49.44723322				
ENSG00000109079	1312.792148	1557.591469	1727.462592	
1743.534977	2078.656619	1987.52036	1532.615403	
1936.570652	-0.33801632	0.033244221	0.161934565	
TNFAIP1 17	28335602	28347009	+	3889
protein_coding	TNF alpha induced protein 1 [Source:HGNC			
Symbol;Acc:HGNC:11894]	-	1447	1760	1486
2304	18.22045725	21.44377124	23.77320377	1821
24.04685123	28.78189357	27.5470787		
ENSG00000103160	1222.974302	1163.768626	1109.017034	
1395.449563	1465.675507	1475.112767	1165.253321	
1445.412612	-0.310556659	0.03324927	0.161934565	HSDL1
16	84122146	84145192	-	4507
protein_coding	hydroxysteroid dehydrogenase like 1 [Source:HGNC			
Symbol;Acc:HGNC:16475]	-	1348	1315	954
1710	14.64640428	13.82498394	13.16945077	1284
16.60703425	17.51155957	17.64166498		
ENSG00000232916	0	0	0	10.27342645
12.93958568	0	7.737670711	-5.429071315	0.033250433
1	HMG2P27	5	116218026	116218295
-	270	processed_pseudogene	high mobility group	
nucleosomal binding domain 2 pseudogene 27	[Source:HGNC			
Symbol;Acc:HGNC:39394]	-	0	0	0
15	0	0	0	0
2.583202861				
ENSG00000134551	0	0	9.323716454	0
13.80222472	0	7.70864706	-5.426303558	0.033271935
1	PRH2	12	10929236	10932341
757	protein_coding	proline rich protein HaeIII subfamily		

2	[Source:HGNC Symbol;Acc:HGNC:9367]	-	0	0	0	
9	0	16	0	0	0	0.660630581
0	0.98277731					
ENSG00000203930	80.74533597	33.62981582	72.07448229			
68.37392066	140.4034949	171.66517	62.14987803			
126.8141952	-1.032316953	0.033293486	0.162075445			
LINC00632	X	140709562	140793215	+		28876
	antisense	long intergenic non-protein coding RNA	632			
[Source:HGNC Symbol;Acc:HGNC:27865]		-	89	38		62
66	123	199	0.150932115	0.062355247		
0.133586171	0.127004452	0.261827608	0.32044025			
ENSG00000135083	321.166842	224.7887689	312.7102538			
207.193699	191.7706271	174.2530871	286.2219549			
191.0724711	0.582843084	0.033302861	0.162075445			CCNJL
5	160249106	160345396	-	9209		
protein_coding	cyclin J like	[Source:HGNC Symbol;Acc:HGNC:25876]				
-	354	254	269	200	168	202
1.882432761	1.306916029	1.817383805	1.206784063			
1.121357698	1.019928939					
ENSG00000181827	865.5174215	556.6619513	753.2945891			
546.9913653	616.4055872	349.3688133	725.1579873			
504.2552553	0.525569941	0.033312552	0.162075445			RFX7
15	56087280	56243266	-	10588		
protein_coding	regulatory factor X7	[Source:HGNC				
Symbol;Acc:HGNC:25777]	RFX	954	629	648	528	540
405	4.41228062	2.814901184	3.807745555			
2.770971338	3.134925232	1.778574694				
ENSG00000197119	511.6895448	528.3421064	418.496994			
311.826517	399.5221399	343.33034	486.1762151			
351.5596656	0.469479057	0.033315472	0.162075445			
SLC25A29	14	100291111	100306547	-		7451
	protein_coding	solute carrier family 25 member 29				
[Source:HGNC Symbol;Acc:HGNC:20116]		-	564	597		360
301	350	398	3.706749385	3.796524515		
3.006040199	2.244729302	2.887359371	2.483702227			
ENSG00000060339	2140.205029	1577.061363	1753.037408			
1723.851576	1312.715602	1085.199919	1823.4346			
1373.922366	0.408843604	0.033324009	0.162075445			CCAR1
10	68721012	68792377	+	6059		
protein_coding	cell division cycle and apoptosis regulator 1					
[Source:HGNC Symbol;Acc:HGNC:24236]		-	2359	1782		1508
1664	1150	1258	19.06582805	13.93584117		
15.4848583	15.26034714	11.66659839	9.654075852			
ENSG00000121964	421.8716992	340.723134	360.3724115			
516.948279	537.6426511	473.5888359	374.3224149			
509.3932553	-0.443647401	0.033345416	0.162134984			GTDC1
2	143938068	144332568	-	14162		
protein_coding	glycosyltransferase like domain containing 1					
[Source:HGNC Symbol;Acc:HGNC:20887]		-	465	385		310
499	471	549	1.607892637	1.288138558		

1.361896019	1.957888697	2.044295522	1.802514523		
ENSG00000213214	0	16.81490791	6.974949899	0	0
0	7.929952603	0	5.421290098	0.033373045	
0.16222473	ARHGEF35	7	144186083		
144195655	-	2431	protein_coding	Rho guanine nucleotide	
exchange factor	35 [Source:HGNC	Symbol;Acc:HGNC:33846]	-	0	
19	6	0	0	0	0.370335276
0.153558244	0	0	0		
ENSG00000280062	0	0	1.16249165	0	0
36.2308399	0.387497217		12.07694663	-5.113793669	
0.033401396	0.162317227		AL031719.1	16	1530715
1533301 +	2587	TEC	TEC	-	0
0	0	42	0	0	0
0	0.754890361				
ENSG00000144355	192.3372048		191.1589531	211.5734803	
152.2873688	123.2811174		96.61557307	198.356546	
124.0613531	0.678424318		0.033410426	0.162317227	DLX1
2	172084740		172089677	+	3656
protein_coding	distal-less homeobox 1 [Source:HGNC				
Symbol;Acc:HGNC:2914]	Homeobox	212	216	182	147
108	112	2.83960778	2.799458314	3.097219947	
2.234205885	1.815787109		1.424435713		
ENSG00000102996	82.5598379		58.40968011	136.011523	
27.97114936	38.81072216		60.38473317	92.32701368	
42.38886823	1.11496398		0.033477323	0.162596953	MMP15
16	58025566		58046901	+	4419
protein_coding	matrix metalloproteinase 15 [Source:HGNC				
Symbol;Acc:HGNC:7161]	-	91	66	117	27
70	1.008430737		0.707695403	1.64728486	34
0.339509402	0.472935893		0.736554787		
ENSG00000182854	0	0	0	29.00711786	0
0	9.669039286		-5.748377996	0.033486387	
0.162596953	OR4F15	15	101812202	101820197	+
2119	protein_coding		olfactory receptor family 4 subfamily		
F member 15 [Source:HGNC	Symbol;Acc:HGNC:15078]	-	0	0	
0	28	0	0	0	0
0.734241822	0	0			
ENSG00000224549	14.51601546		8.849951531	0	0
0	7.788655662		0	5.398712189	0.033551091
0.162866422	AC017067.1		9	22767175	
22768316	+	447	lincRNA novel transcript		-
16	10	0	0	0	1.75283543
1.060031858	0	0	0	0	
ENSG00000172432	1288.296372		1328.377725	1336.865397	
1003.853472	1227.103715		788.4520874	1317.846498	
1006.469758	0.390016112		0.033572994	0.162928035	GTPBP2
6	43605316		43629162	-	4624
protein_coding	GTP binding protein 2 [Source:HGNC				
Symbol;Acc:HGNC:4670]	-	1420	1501	1150	969
914	15.03831587		15.38116771	15.47343951	1075



11.64442359	14.29018987	9.190928519					
ENSG00000126814	684.9744793	676.136297	640.5328991				
886.7890316	959.9946275	754.8091646	667.2145585				
867.1976079	-0.377048155	0.033596739	0.162998553	TRMT5			
14	60971451	60981358	-	5692			
protein_coding	tRNA methyltransferase 5 [Source:HGNC						
Symbol;Acc:HGNC:23141]	-	755	764	551	856	841	
875	6.49547243	6.35996767	6.022732218				
8.356432643	9.081936574	7.147829421					
ENSG00000139410	50.80605409	45.13475281	60.44956579				
23.82727538	18.26386925	0	52.13012423	14.03038154			
1.90468996	0.033650622	0.163215203	SDSL	12			
113422237	113438276	+	2216	protein_coding			
serine dehydratase like [Source:HGNC							
Symbol;Acc:HGNC:30404]							
-	56	51	52	23	16	0	
1.237504978	1.09050299	1.459958242	0.576726787				
0.443810514	0						
ENSG00000105270	301.2073207	231.8687301	408.0345691				
430.9628939	448.6062885	479.6273092	313.70354				
453.0654972	-0.53333235	0.033706474	0.163441288	CLIP3			
19	36014660	36033343	-	3772			
protein_coding	CAP-Gly domain containing linker protein 3						
[Source:HGNC							
Symbol;Acc:HGNC:24314]							
416	393	556	4.310176783	3.291213442		351	
5.789516274	6.12821072	6.404249256	6.853842586				
ENSG00000226851	7.258007728	19.46989337	5.812458249				
2.07193699	0	0	10.84678645	0.690645663			
3.994958043	0.033718398	0.1634543	AC004112.1	7			
112328189	112409623	-	707	antisense			
"novel transcript, antisense to ZNF277"							
-							
5	2	0	0	0.554114171	1.474448839		
0.440004823	0.157189172	0	0				
ENSG00000070047	1821.75994	1859.374817	1718.162659				
1985.951605	2118.608833	2687.983265	1799.765805				
2264.181234	-0.331470585	0.033729966	0.16346558	PHRF1			
11	576486	612222	+	5769	protein_coding	PHD	
and ring finger domains 1 [Source:HGNC							
Symbol;Acc:HGNC:24351]							
2008	2101	1478	1917	1856	3116	17.04479778	
17.25646974	15.93972196	18.46433273	19.77537798				
25.11469615							
ENSG00000198315	794.7518462	753.1308753	754.4570808				
996.6016921	1162.038681	841.0730691	767.4466008				
999.9044808	-0.380685995	0.033740973	0.163474135				
ZKSCAN8	28141910	28159472	+	7565			
protein_coding	zinc finger with KRAB and SCAN domains 8 [Source:HGNC						
Symbol;Acc:HGNC:12983]	zf-C2H2	876	851	649	962	1018	
975	5.670532676	5.330243737	5.337558046				
7.066074033	8.271536792	5.992757464					
ENSG00000112972	1671.156279	985.8846006	1222.941216				
1165.464557	945.1552337	618.5121955	1293.327365				

909.710662	0.508446473	0.033752506	0.163485237	HMGCS1
5	43289395	43313512	- 4702	
protein_coding	3-hydroxy-3-methylglutaryl-CoA synthase 1 [Source:HGNC			
Symbol;Acc:HGNC:5007]	-	1842 1114	1052 1125	828
717	19.18384623	11.22610259	13.92002328	
13.29480407	10.82418166	7.090347964		
ENSG00000143353	435.4804637	395.5928334	464.99666	
571.8546092	601.5661934	551.2263499	432.023319	
574.8823842	-0.412643728	0.033868734	0.164003294	
LYPLAL1 1	219173844	219212865	+ 2966	
protein_coding	lysophospholipase like 1 [Source:HGNC			
Symbol;Acc:HGNC:20440]	-	480 447	400 552	527
639	7.924990937	7.141062223	8.390651653	
10.34141519	10.92161414	10.0175318		
ENSG00000134108	2041.314673	2017.788949	1932.061122	
2844.769487	2558.083187	2091.037046	1997.054915	
2497.96324	-0.322397658	0.033897065	0.164095562	ARL8B
3	5122220 5180912	+ 3576	protein_coding	ADP
ribosylation factor like GTPase	8B [Source:HGNC			
Symbol;Acc:HGNC:25564]	-	2250 2280	1662 2746	2241
2424	30.8115603	30.21090795	28.91614248	
42.66925561	38.52048146	31.51854229		
ENSG00000185115	573.3826105	597.3717284	595.1957247	
629.8688449	842.4209692	872.9907138	588.6500212	
781.760176	-0.409672645	0.033928347	0.164202061	NSMCE3
15	29264992	29269829	- 4838	
protein_coding	"NSE3 homolog, SMC5-SMC6 complex component			
[Source:HGNC Symbol;Acc:HGNC:7677]"	-	632 675		512
608	738 1012	6.397052248	6.610957263	
6.584320212	6.98312408	9.376437389	9.726255336	
ENSG00000145337	1110.475182	1606.266203	1233.403641	
1112.630164	934.8818073	976.5073993	1316.715009	
1008.006457	0.385718694	0.033938962	0.164208508	PYURF
4	88520985	88523813	- 1361	
protein_coding	PIGY upstream reading frame [Source:HGNC			
Symbol;Acc:HGNC:44317]	-	1224 1815	1061 1074	819
1132	44.04047315	63.18950379	48.50249787	
43.84884919	36.98904654	38.6740202		
ENSG00000185716	430.9442088	392.937848	325.497662	
444.4304843	638.0939319	522.7592614	383.1265729	
535.0945592	-0.480077814	0.033971553	0.164321248	MOSMO
16	22007638	22087534	+ 6122	
protein_coding	modulator of smoothened [Source:HGNC			
Symbol;Acc:HGNC:27087]	-	475 444	280 429	559
606	3.799522039	3.436497922	2.845584933	
3.893821247	5.612622628	4.602675075		
ENSG00000173272	679.5309735	985.8846006	1136.916834	
663.0198367	664.348244	734.1058275	934.1108026	
687.1579694	0.441716243	0.034117806	0.16498356	MZT2A
2	131464900	131492743	- 4093	

protein_coding	mitotic spindle organizing protein 2A [Source:HGNC					
Symbol;Acc:HGNC:33187]	-	749	1114	978	640	582
851	8.961253368	12.89644134		14.86633643		
8.688609384	8.740345497	9.667603574				
ENSG00000164096	1079.62865	1147.838714		1345.002839		
1500.082381	1504.48623	1472.52485		1190.823401		
1492.364487	-0.326373406	0.034128997		0.164992574		C4orf3
4	119296419	119304445		-	3148	
protein_coding	chromosome 4 open reading frame 3 [Source:HGNC					
Symbol;Acc:HGNC:19225]	-	1190	1297	1157	1448	1318
1707	18.51147058	19.52233196		22.86680466		
25.55911911	25.73522957	25.21330721				
ENSG00000100387	815.6186184	895.615095		1019.505177		
794.5878356	713.4323926	521.0339833		910.2462968		
676.3514038	0.429022653	0.03415147		0.165056108		RBX1
22	40951347	40973309		+	3092	
protein_coding	ring-box 1 [Source:HGNC Symbol;Acc:HGNC:9928]					-
899	1012	877	767	625	604	14.23799677
	15.50841693	17.64684027	13.78376697			12.42475667
	9.082982376					
ENSG00000022267	1871.658743	1702.730675		1986.69823		
1772.542095	1412.025391	905.7709975		1853.695882		
1363.446161	0.443671911	0.034176499		0.165131956		FHL1
X	136146702	136211359		+	5997	
protein_coding	four and a half LIM domains 1 [Source:HGNC					
Symbol;Acc:HGNC:3702]	-	2063	1924	1709	1711	1237
1050	16.84588621	15.20188559		17.73025005		
15.85360394	12.67894188	8.141159592				
ENSG00000072121	672.2729658	540.7320386		518.4712759		
857.7819138	648.3673584	815.1938978		577.1587601		
773.7810567	-0.422828594	0.0342052		0.165225499		
ZFYVE26 14	67727374	67816590		-	15706	
protein_coding	zinc finger FYVE-type containing 26 [Source:HGNC					
Symbol;Acc:HGNC:20761]	-	741	611	446	828	568
945	2.310368733	1.843325614		1.766754118		
2.929387252	2.22295209	2.797674816				
ENSG00000057019	11325.21381	10474.80263		11235.4818		
10937.75537	7735.89012	7833.62517		11011.83275		
8835.756886	0.317633904	0.034251542		0.165404186		DCBLD2
3	98795941	98901689		-	11274	
protein_coding	"discoidin, CUB and LCCL domain containing 2					
[Source:HGNC Symbol;Acc:HGNC:24627]"	-			12483	11836	9665
10558	6777	9081	54.22126225	49.74545034		
53.33725666	52.03740977	36.94935106		37.45300455		
ENSG00000115368	1810.872928	1623.966106		1456.602037		
2089.548454	2084.364078	1901.256456		1630.480357		
2025.056329	-0.311949185	0.034305269		0.165618421		WDR75
2	189441433	189475565		+	5066	
protein_coding	WD repeat domain 75 [Source:HGNC					
Symbol;Acc:HGNC:25725]	-	1996	1835	1253	2017	1826

	2204	19.29407823	17.16316288	15.38837397	
22.12344507		22.15557103	20.22914013		
ENSG00000141030		3505.617733	3739.104522	3643.248831	
4348.995742		4518.024656	4147.56853	3629.323695	
4338.196309		-0.257273374	0.034364696	0.165860059	COP53
	17	17246820	17281293	- 2788	
protein_coding	COP9 signalosome subunit 3 [Source:HGNC				
Symbol;Acc:HGNC:2239]	-	3864	4225	3134 4198	3958
	4808	67.86924717	71.80594212	69.93797755	
83.6684471		87.26304846	80.18676772		
ENSG00000267353		8.165258694	15.0449176	0 0 0	
	0	7.736725432	0 5.389355304	0.034389254	
	1	AC020928.2	19 36773712	36775908	
	-	2197 lincRNA	novel transcript	-	9
	17	0 0	0 0	0.200604715	
0.36664461		0 0	0 0		
ENSG00000186577		876.4044331	1277.048006	1326.402973	
1179.968116		1638.040773	1910.745485	1159.951804	
1576.251458		-0.443197313	0.034445416	0.166203991	SMIM29
	6	34246380	34249470	- 2229	
protein_coding	small integral membrane protein 29 [Source:HGNC				
Symbol;Acc:HGNC:1340]	-	966	1443	1141 1139	1435
	2215	21.22246087	30.67486806	31.84801892	
28.39394255		39.57210865	46.20560703		
ENSG00000198042		1818.130936	1923.094468	1540.301436	
2269.806972		2040.987389	2244.586796	1760.508947	
2185.127052		-0.311299195	0.034461078	0.166203991	MAK16
	8	33484750	33501260	+ 4846	
protein_coding	MAK16 homolog [Source:HGNC Symbol;Acc:HGNC:13703]				
	-	2004 2173	1325 2191	1788 2602	
20.2508376		21.24725144	17.01137096	25.12297183	
22.67939499		24.96634115			
ENSG00000237624		61.69306569	65.48964133	62.77454909	
30.04308635		35.38624667	5.175834272	63.31908537	
23.53505577		1.439163015	0.034464144	0.166203991	
OXCT2P1 1		39514956	39516490	+ 1535	
unprocessed_pseudogene	3-oxoacid CoA-transferase 2 pseudogene 1				
[Source:HGNC Symbol;Acc:HGNC:21627]	-			68 74	54
	29	31 6	2.169347953	2.284282332	
2.188730181		1.049788139	1.241368367	0.181749778	
ENSG00000100528		2119.338257	2369.132025	2529.58183	
2777.431535		2756.702765	3039.939996	2339.350704	
2858.024765		-0.289404967	0.034521112	0.166433346	CNIH1
	14	54423560	54441431	- 5060	
protein_coding	cornichon family AMPA receptor auxiliary protein 1				
[Source:HGNC Symbol;Acc:HGNC:19431]	-			2336 2677	2176
	2681	2415 3524	22.60742013	25.06826605	
26.75563242		29.44139207	29.33688365	32.38294938	
ENSG00000143155		2139.297778	2239.037737	2261.046259	
2565.057993		2693.920714	2756.13175	2213.127258	

2671.703486	-0.271838943	0.034544509	0.166500766	TIPRL
1	168178933	168202114	+ 3220	
protein_coding	TOR signaling pathway regulator [Source:HGNC			
Symbol;Acc:HGNC:30231]	-	2358 2530	1945 2476	2360
3195	35.86052246	37.22983319	37.58119456	
42.72743403	45.05090207	46.13664489		
ENSG00000145979	567.0318537	692.0662097	745.1571476	
725.1779464	958.8531357	989.4469849	668.0850704	
891.1593557	-0.416597808	0.034591234	0.16668056	TBC1D7
6	13266542	13328583	- 8300	
protein_coding	TBC1 domain family member 7 [Source:HGNC			
Symbol;Acc:HGNC:21066]	-	625 782	641 700	840
1147	3.687487939	4.464317785	4.804926887	
4.686320547	6.22083316	6.42563931		
ENSG00000256742	0 0	0 6.215810969	17.12237742	
0	0	7.779396131	-5.430588322	0.03460819
0.166716849	AC145422.1	12	121580792	
121593504	+ 544	lincRNA novel transcript		-
0	0 0	6 15	0 0	0
0	0.612864399	1.694882984	0	
ENSG00000132604	1122.269445	1134.563786	967.1930527	
1240.054288	1293.310241	1581.21737	1074.675428	
1371.5273	-0.351862845	0.034619297	0.166724952	TERF2
16	69355561	69408571	- 5621	
protein_coding	telomeric repeat binding factor 2 [Source:HGNC			
Symbol;Acc:HGNC:11729]	MYB	1237 1282	832 1197	1133
1833	10.7766753	10.80689373	9.209087249	
11.83293854	12.38978256	15.16281715		
ENSG00000068745	812.8968655	908.0050271	919.5308951	
549.0633023	652.9333257	791.0400045	880.1442626	
664.3455442	0.404631391	0.034633152	0.16674628	IP6K2
3	48688003	48740353	- 5624	
protein_coding	inositol hexakisphosphate kinase 2 [Source:HGNC			
Symbol;Acc:HGNC:17313]	-	896 1026	791 530	572
917	7.801738352	8.644273307	8.750603746	
5.236518006	6.251699246	7.581498298		
ENSG00000172482	0 0	0 0	9.131934625	
13.80222472	0 7.644719783	-5.412249316	0.034637553	
1	AGXT 2	240868479	240880502	+
4459	protein_coding alanine--glyoxylate and serine--			
pyruvate aminotransferase [Source:HGNC	Symbol;Acc:HGNC:341]			-
0	0 0	0 8	16 0	0
0	0 0.110280792	0.166845128		
ENSG00000213859	305.7435755	323.0232309	519.6337675	
273.4956827	255.6941695	244.1268498	382.8001913	
257.772234	0.568489345	0.034753368	0.167281048	KCTD11
17	7351889 7354944	+ 3056	protein_coding	
potassium channel tetramerization domain containing 11 [Source:HGNC	Symbol;Acc:HGNC:21302]			-
283	5.400142678	5.659342206	9.100411275	224

4.800236342	4.505489985	4.305901628				
ENSG00000171612	873.6826802	826.585473	624.258016			
1020.428967	995.3808742	1017.051434	774.8420564			
1010.953759	-0.382473606	0.034839297	0.167647533			
SLC25A33	1	9539482	9585179	+	3854	protein_coding
	solute carrier family 25 member 33 [Source:HGNC					
Symbol;Acc:HGNC:29681]	-	963	934	537	985	872
1179	12.23610684	11.48316504	8.669008364			
14.2015767	13.90759819	14.22437237				
ENSG00000018510	2770.74445	2337.272199	2638.856045			
2520.511348	1793.283662	1721.827534	2582.290898			
2011.874182	0.360197612	0.03485266	0.167666224			AGPS
2	177392644	177559299	+	8965		
protein_coding	alkylglycerone phosphate synthase [Source:HGNC					
Symbol;Acc:HGNC:327]	-	3054	2641	2270	2433	1571
1996	16.68197332	13.95868633	15.75369416			
15.0800874	10.77142722	10.35240517				
ENSG00000104343	596.0638846	638.9665006	650.9953239			
817.3791425	873.2412486	744.4574961	628.6752364			
811.692629	-0.368308369	0.034910813	0.167900319			UBE2W
8	73780097	73878910	-	9090		
protein_coding	ubiquitin conjugating enzyme E2 W [Source:HGNC					
Symbol;Acc:HGNC:25616]	-	657	722	560	789	765
863	3.539404265	3.763567895	3.832930905			
4.823087752	5.173028989	4.414463503				
ENSG00000206337	22.68127415	5.309970919	17.43737475			0
4.565967313	0	15.14287327	1.521989104			
3.372880918	0.034955592	0.168069182	HCP5	6		
31400702	31477506	+	3138	sense_overlapping		
	HLA complex P5 [Source:HGNC Symbol;Acc:HGNC:21659]					
25	6	15	0	4	0	0.390135754
0.090599281	0.297402878	0	0.07835278			0
ENSG00000011243	806.5461088	815.080536	934.6432865			
936.5155194	1124.369451	1239.612308	852.0899771			
1100.165759	-0.369684248	0.034964927	0.168069182			AKAP8L
19	15380048	15419141	-	5081		
protein_coding	A-kinase anchoring protein 8 like [Source:HGNC					
Symbol;Acc:HGNC:29857]	-	889	921	804	904	985
1437	8.568035349	8.588886746	9.844954208			
9.886242958	11.91610704	13.15038874				
ENSG00000075399	507.15329	740.7409432	402.2221109			
642.3004668	849.2699202	847.9741815	550.0387813			
779.8481895	-0.50213413	0.034976735	0.168080269			VPS9D1
16	89707134	89720986	-	3428		
protein_coding	VPS9 domain containing 1 [Source:HGNC					
Symbol;Acc:HGNC:13526]	-	559	837	346	620	744
983	7.985455212	11.56940663	6.279746783			
10.04992729	13.34072655	13.33348641				
ENSG00000231908	2.721752898	15.0449176	2.3249833			0
0	0	6.697217934	0	5.180689107		

0.035020192	1	IDH1-AS1	2	208255247		
208256181	+	655	antisense	IDH1 antisense RNA 1		
[Source:HGNC Symbol;Acc:HGNC:40292]			-	3	17	2
0	0	0	0.224289343	1.229798792		
0.189974602	0	0	0			
ENSG00000232729	4.53625483	8.849951531	5.812458249	0		
0	0	6.39955487	0	5.111776013		
0.035059597	1	AC211433.1	7	74688939		
74729001	-	2847	processed_transcript			
uncharacterized LOC101926943	[Source:NCBI gene;Acc:101926943]					-
5	10	5	0	0	0.086002529	
0.166432821	0.109267092	0	0	0	0	
ENSG00000272341	21.77402318	16.81490791	26.73730795	0		
9.131934625	0	21.77541301	3.043978208			
2.879716541	0.03506777	0.168471968	AL137003.2	6		
16764346	16766883	+	2538	lincRNA novel		
transcript	-	24	19	23	0	8
0.463071771	0.354722245	0.563823359	0			
0.193751793	0					
ENSG00000113161	1567.729669	1497.411799	1628.650801			
1395.449563	1253.358027	1087.787836	1564.597423			
1245.531809	0.329326148	0.03511714	0.16866224	HMGR		
5	75336329	75362104	+	6215		
protein_coding	3-hydroxy-3-methylglutaryl-CoA reductase	[Source:HGNC				
Symbol;Acc:HGNC:5006]	-	1728	1692	1401	1347	1098
1261	13.61542771	12.89987989	14.02503162			
12.04310593	10.85946844	9.434197674				
ENSG00000121211	283.9695524	236.2937059	322.010187			
278.6755251	113.007691	75.91223598	280.7578151			
155.8651507	0.850001345	0.035126445	0.16866224	MND1		
4	153344649	153415118	+	1511		
protein_coding	meiotic nuclear divisions 1	[Source:HGNC				
Symbol;Acc:HGNC:24839]	-	313	267	277	269	99
88	10.14398403	8.372848592	11.40570544			
9.892358784	4.027338098	2.708003529				
ENSG00000137857	19.05227029	10.61994184	19.76235805			
5.179842475	0	1.725278091	16.47819006	2.301706855		
2.830460458	0.035146212	0.168680355	DUOX1	15		
45129933	45165576	+	8784	protein_coding		
dual oxidase 1	[Source:HGNC Symbol;Acc:HGNC:3062]					-
21	12	17	5	0	2	0.117072705
0.064731454	0.120410245	0.03162931	0			
0.010586897						
ENSG00000144566	1555.028156	1490.331838	1637.950735			
2074.008927	1882.320025	1803.778244	1561.103576			
1920.035732	-0.29870646	0.035154616	0.168680355	RAB5A		
3	19947079	19985175	+	3785		
protein_coding	"RAB5A, member RAS oncogene family	[Source:HGNC				
Symbol;Acc:HGNC:9783]"	-	1714	1684	1409	2002	1649
2091	22.17551003	21.08155511	23.16071465			

29.39072051	26.77947953	25.68734195				
ENSG00000163701	15.42326642	27.43484975	17.43737475			
62.15810969	45.65967313	43.99459131	20.09849697			
50.60412471	-1.328431235	0.035168339	0.168680355	IL17RE		
3	9902612	9916402 +	4676	protein_coding		
interleukin 17 receptor E [Source:HGNC Symbol;Acc:HGNC:18439]					-	
17	31	15	60	40	51	0.178034063
	0.314133051	0.199583026	0.712998788			0.525814852
	0.507138628					
ENSG00000176624	975.2947884	918.6249689	1174.116566			
832.9186699	833.2890346	699.6002657	1022.678775			
788.6026567	0.374833978	0.035168362	0.168680355	MEX3C		
18	51174550	51218304	-	7481		
protein_coding mex-3 RNA binding family member C [Source:HGNC Symbol;Acc:HGNC:28040]						
	-	1075	1038	1010	804	730
811	7.03683703	6.574521343	8.399792651			
5.971843771	5.998056682	5.040715862				
ENSG00000227627	6.350756762	2.654985459	10.46242485	0		
0	0	6.489389023	0	5.127413039		
0.035191107	1	AL080276.2	6	152983331		
152990541	+	2146	antisense	novel transcript		
-	7	3	9	0	0	
0.159733867	0.066239642	0.260927371	0	0	0	
ENSG00000100650	1514.201862	1715.120607	1419.402305			
1911.361873	1964.507436	1865.888255	1549.574924			
1913.919188	-0.30404894	0.035199258	0.168782781	SRSF5		
14	69726900	69772005	+	5357		
protein_coding serine and arginine rich splicing factor 5 [Source:HGNC Symbol;Acc:HGNC:10787]						
	-		1669	1938		1221
1845	1721	2163	15.25679721	17.1418846		
14.18080432	19.13756892	19.74724817	18.77439242			
ENSG00000198393	615.1161549	707.1111273	527.7712091			
862.9617563	708.8664253	881.6171043	616.6661638			
817.8150953	-0.406744159	0.035219227	0.168832768	ZNF26		
12	132986365	133032952	+	20863		
protein_coding zinc finger protein 26 [Source:HGNC Symbol;Acc:HGNC:13053]						
	zf-C2H2	678	799	454	833	621
1022	1.591408302	1.814664996	1.353897984			
2.21860653	1.829625491	2.277745283				
ENSG00000143158	744.8530431	992.0795666	857.9188376			
982.0981332	1142.63332	1250.826616	864.9504824			
1125.186023	-0.379674156	0.035268851	0.169024848	MPC2		
1	167916729	167937040	-	2552		
protein_coding mitochondrial pyruvate carrier 2 [Source:HGNC Symbol;Acc:HGNC:24515]						
	-	821	1121	738	948	1001
1450	15.75401195	20.8138003	17.99212826			
20.64142666	24.11019748	26.41912017				
ENSG00000232044	0.907250966	0	0	3.107905485		
7.990442797	12.93958568	0.302416989				
8.012644654	-4.519006038	0.035302044	0.169138098			



LINC01105	2	5932687	6001275	+	8200		
processed_transcript		long	intergenic	non-protein	coding	RNA	1105
[Source:HGNC Symbol;Acc:HGNC:26403]		-			1	0	0
	3	7	15		0.005971932	0	0
0.020329161		0.052472475			0.08505668		
ENSG00000264044	9.979760626		8.849951531		1.16249165		0
	0	0	6.664067936		0	5.174032108	
0.035319978		1	AC005726.2		17	28633206	
28635950		+	1515		antisense	"novel transcript,	
antisense to KIAA0100"		-			11	10	1
	0	0.355556593			0.312761875		0.041067117
	0	0					0
ENSG00000128656	582.4551202		474.3574021		453.3717435		
427.8549884		378.975287		207.0333709		503.3947552	
337.9545487		0.577377578		0.035349717		0.169320646	CHN1
	2	174799363		175005369		-	4971
protein_coding		chimerin 1		[Source:HGNC Symbol;Acc:HGNC:1943]		-	
	642	536	390	413	332	240	6.324409007
		5.109136048		4.881212227		4.616558383	4.105269577
		2.244907737					
ENSG00000129932	1009.770325		1218.638326		989.2803941		
1098.126605		1435.99672		1708.02531		1072.563015	
1414.049545		-0.398832425		0.035364336		0.169344815	DOHH
	19	3490822	3500940	-	2031	protein_coding	
deoxyhypusine hydroxylase				[Source:HGNC Symbol;Acc:HGNC:28662]		-	
	1113	1377	851	1060	1258	1980	26.83576156
		32.12554157		26.06912673		29.00066693	38.07308583
		45.33005907					
ENSG00000226833	6.350756762		1.769990306		11.6249165		0
	0	0	6.581887856		0	5.147011012	
0.035380151		1	AC092164.1		2	28708953	
28736205		-	1438		antisense	novel transcript	
	-	7	2	10	0	0	0
0.238378914		0.065901842		0.43266121		0	0
ENSG00000138316	69.85832438		124.7843166		145.3114562		
39.36680281		43.37668947		84.53862644		113.3180324	
55.76070624		1.015602744		0.035410513		0.169520045	
ADAMTS14	10	70672803		70762441		+	5269
		protein_coding		ADAM metalloproteinase with thrombospondin type			
1 motif	14	[Source:HGNC Symbol;Acc:HGNC:14899]		-		77	141
	125	38	98	0.715634403		1.267994457	
		1.476007829		0.400744381		0.443305131	0.864826314
ENSG00000072401	585.1768731		715.9610789		559.1584836		
763.5087807		856.1188711		814.3312587		620.0988118	
811.3196369		-0.386750052		0.035456176		0.16969272	UBE2D1
	10	58334975		58370753		+	3486
protein_coding		ubiquitin conjugating enzyme E2		D1		[Source:HGNC	
Symbol;Acc:HGNC:12474]		-		645	809	481	737
	944	9.06068465		10.99632532		8.584688481	750
11.7476811		13.22456029		12.59144665			

ENSG00000166165	233.1634983	192.0439482	159.261356	
285.9273046	334.4571057	254.4785184	194.8229342	
291.6209762	-0.578742255	0.035586946	0.170272517	CKB
14	103519659	103523111	- 2669	
protein_coding	creatine kinase B [Source:HGNC Symbol;Acc:HGNC:1991]			
-	257 217	137 276	293 295	
4.715342389	3.852455234	3.193587649	5.746091693	
6.747865332	5.139305805			
ENSG00000165650	1244.748325	1288.552943	1179.929025	
1638.902159	1505.627721	1453.546791	1237.743431	
1532.692224	-0.307890719	0.035606077	0.170317983	PDZD8
10	117277274	117375467	- 9881	
protein_coding	PDZ domain containing 8 [Source:HGNC			
Symbol;Acc:HGNC:26974]	-	1372 1456	1015 1582	1319
1685	6.799576991	6.982113695	6.391046679	
8.896468052	8.205239394	7.929211899		
ENSG00000100304	1950.589577	2375.326991	1778.612224	
2255.303413	2714.467567	2714.725075	2034.842931	
2561.498685	-0.331644221	0.035626043	0.170367417	TTL12
22	43166622	43187133	- 4622	
protein_coding	tubulin tyrosine ligase like 12 [Source:HGNC			
Symbol;Acc:HGNC:28974]	-	2150 2684	1530 2177	2378
3147	22.77913363	27.51560151	20.59531014	
26.17221815	31.6249079	31.65904571		
ENSG00000257219	53.52780699	40.70977704	8.137441549	
85.98538508	91.31934625	73.32431885	34.12500853	
83.54301673	-1.281069081	0.035650699	0.170439249	
LINC02407	12 76259839	76305131	+	1201
lincRNA	long intergenic non-protein coding RNA 2407			
[Source:HGNC Symbol;Acc:HGNC:53336]	-	59	46	7
83	80 85	2.405679059	1.814852212	
0.362628455	3.840140627	4.094438383	3.29084128	
ENSG00000230733	863.7029196	1023.939392	752.1320975	
996.6016921	1186.010009	1256.865089	879.9248031	
1146.492264	-0.381079498	0.035733858	0.170771076	
AC092171.2	7 5475804	5479811 +	3251	lincRNA novel
transcript	- 952	1157 647	962	1039 1457
14.33998386	16.86331025	12.38209574	16.44258691	
19.6447243	20.83884289			
ENSG00000279700	12.70151352	22.12487883	17.43737475	
6.215810969	0 0	17.4212557	2.07193699	
3.082275548	0.035739416	0.170771076	AC131212.2	12
132565071	132566425	+	1355	TEC novel
transcript	- 14	25 15	6 0	0
0.505961445	0.874232916	0.688745557	0.246050357	
0	0			
ENSG00000177839	11.79426256	19.46989337	23.249833	
39.36680281	55.93309958	45.7198694	18.17132964	
47.0065906	-1.375932836	0.03577458	0.170892937	PCDHB9
5	141187127	141191541	+ 4415	

protein_coding	protocadherin beta 9 [Source:HGNC						
Symbol;Acc:HGNC:8694]	-	13	22	20	38	49	
53	0.144192054	0.236112192	0.281842274				
0.478260961	0.682201598	0.558182453					
ENSG00000164402	1679.321538	1796.540161	1658.875584				
1450.355893	1421.157326	1303.447597	1711.579094				
1391.653605	0.299012437	0.035821263	0.171025405			8-Sep	
5	132750817	132807241	-	7711			
protein_coding	septin 8 [Source:HGNC Symbol;Acc:HGNC:16511]						-
1851	2030	1427	1400	1245	1511	11.75504779	
12.47417337	11.51383805	10.08856453	9.924439955				
9.111392999							
ENSG00000146535	5040.686367	4794.018744	5556.710086				
4412.18982	4256.623027	4180.348813	5130.471733				
4283.053887	0.260295303	0.035821648	0.171025405			GNA12	
7	2728112	2844324	-	6120	protein_coding	G	
protein subunit	alpha 12 [Source:HGNC Symbol;Acc:HGNC:4380]						-
5556	5417	4780	4259	3729	4846	44.45693302	
41.9405242	48.59407516	38.66947373	37.45314754				
36.81823843							
ENSG00000077684	1029.729846	861.100284	1066.004843				
843.2783549	662.0652603	769.4740284	985.6116578				
758.2725479	0.377378621	0.035978065	0.171725845			JADE1	
4	128809623	128875224	+	9129			
protein_coding	jade family PHD finger 1 [Source:HGNC						
Symbol;Acc:HGNC:30027]	-	1135	973	917	814	580	
892	6.088374215	5.050287173	6.249610844				
4.954652971	3.905279725	4.543313083					
ENSG00000102271	289.4130581	192.9289434	291.7854041				
169.8988332	190.6291353	142.3354425	258.0424686				
167.621137	0.623053191	0.035992959	0.171750592			KLHL4	
X	87517749	87670050	+	5818			
protein_coding	kelch like family member 4 [Source:HGNC						
Symbol;Acc:HGNC:6355]	-	319	218	251	164	167	
165	2.685008406	1.775453153	2.684150427				
1.566326064	1.764371827	1.318685544					
ENSG00000175820	16.33051739	7.079961225	1.16249165				
20.7193699	36.5277385	40.54403513	8.190990087				
32.59704784	-1.975492386	0.03600437	0.171756929				
CCDC168	13	102729369	102759070	-	21466		
protein_coding	coiled-coil domain containing 168 [Source:HGNC						
Symbol;Acc:HGNC:26851]	-	18	8	1	20	32	
47	0.041062942	0.017658967	0.002898383				
0.05177152	0.091631799	0.101807026					
ENSG00000136628	5116.895448	4522.325232	5382.336339				
4891.843233	3608.255669	3447.968264	5007.185673				
3982.689055	0.330232986	0.036018202	0.171756929			EPRS	
1	219968601	220046658	-	5450			
protein_coding	glutamyl-prolyl-tRNA synthetase [Source:HGNC						
Symbol;Acc:HGNC:3418]	-	5640	5110	4630	4722	3161	

	3997	50.67704526	44.42739393	52.85563994	
48.14392836		35.65129861	34.10112166		
ENSG0000004142	3664.386652		3857.693872	3811.81012	
3954.291745	4691.531414		5231.043171	3777.963548	
4625.62211	-0.292213065		0.036023416	0.171756929	
POLDIP2	17	28347177	28357522	-	2121
protein_coding	DNA polymerase delta interacting protein 2				
[Source:HGNC Symbol;Acc:HGNC:23781]			-	4039	4359
	3817	4110	6064	93.2527973	97.38064378
96.18505436		99.99851141	119.1100792	132.9381229	
ENSG00000119906	1578.616681		1195.628452	1312.453073	
1266.989469	744.252672		1023.952547	1362.232735	
1011.731563	0.428755264		0.036056376	0.171867754	SLF2
	10	100912569	100965136	+	9208
protein_coding	SMC5-SMC6 complex localization factor 2 [Source:HGNC				
Symbol;Acc:HGNC:17814]		-	1740	1351	1129
	1187	9.253640455	6.952107504	7.628435489	1223
7.380285969		4.352408455	5.993995692		652
ENSG00000054267	1005.23407		815.9655312	1020.667669	
853.6380398	504.5393881		723.754159	947.28909	
693.9771956	0.447807001		0.036087896	0.171971655	ARID4B
	1	235131634	235328219	-	11073
protein_coding	AT-rich interaction domain 4B [Source:HGNC				
Symbol;Acc:HGNC:15550]	ARID		1108	922	878
	839	4.900079701	3.945409282	4.933283374	824
4.134985162		2.453603201	3.523121973		442
ENSG00000148396	2197.36184		2092.128542	2052.960254	
2502.899884	2367.454052		2905.368304	2114.150212	
2591.907413	-0.29421697		0.036136379	0.172156318	SEC16A
	9	136440096	136483759	-	9975
protein_coding	"SEC16 homolog A, endoplasmic reticulum export factor				
[Source:HGNC Symbol;Acc:HGNC:29006]"			-	2422	2364
	2416	2074	3368	11.89022076	11.22951523
11.01500355		13.45848173	12.78036355	15.69965817	
ENSG00000247199	0	0	0	0	7.990442797
14.66486377		0	7.551768856	-5.395225656	0.036167653
	1	AC091948.1	5	148268307	148383783
	-	3201	antisense	uncharacterized	LOC102546294
[Source:NCBI gene;Acc:102546294]			-	0	0
	0	7	17	0	0
0.134418711		0.246941604			
ENSG00000273356	18.14501932		31.85982551	32.5497662	
51.79842475	79.90442797		56.93417699	27.51820368	
62.8790099	-1.193707558		0.036170653	0.172273204	
LINC02019	3	50669989	50672048	+	2060
lincRNA	long intergenic non-protein coding RNA 2019				
[Source:HGNC Symbol;Acc:HGNC:52854]			-	20	36
	50	70	66	0.475435338	0.828059838
0.845663639		1.348698354	2.088710163	1.489730582	
ENSG00000100578	887.2914447		490.2873148	781.1943887	

668.1996792	436.0498784	351.9567305	719.5910494	
485.402096	0.568320495	0.036199628	0.172314959	
KIAA0586	14	58427385	58551289	+ 10184
protein_coding	KIAA0586 [Source:HGNC Symbol;Acc:HGNC:19960]			
-	978	554	672	645 382 408
4.702720282	2.577613602	4.105421279	3.519276323	
2.30564443	1.862828143			
ENSG00000184220	1545.048395	1536.351586	1671.662993	
1477.291074	1066.153368	1192.167161	1584.354324	
1245.203867	0.347137638	0.036202944	0.172314959	CMSS1
3	99817834	100181732	+ 7210	
protein_coding	cms1 ribosomal small subunit homolog (yeast)			
[Source:HGNC Symbol;Acc:HGNC:28666]	-		1703	1736 1438
1426	934	1382	11.56666258	11.40882443
12.40881952	10.98996488	7.962674661	8.912587292	
ENSG00000118620	233.1634983	284.0834442	238.3107882	
183.3664236	155.2428886	169.0772529	251.8525769	
169.228855	0.573763388	0.036208644	0.172314959	ZNF430
19	21020620	21060050	+ 6845	
protein_coding	zinc finger protein 430 [Source:HGNC			
Symbol;Acc:HGNC:20808]	zf-C2H2	257	321	205 177 136
196	1.838604651	2.222071457	1.863319183	
1.436851407	1.22127317	1.331415587		
ENSG00000188747	27.21752898	19.46989337	24.41232465	
6.215810969	6.848950969	5.175834272	23.69991567	
6.080198737	1.966761452	0.036225854	0.172342366	NOXA1
9	137423350	137434406	+ 1678	
protein_coding	NADPH oxidase activator 1 [Source:HGNC			
Symbol;Acc:HGNC:10668]	-	30	22	21 6 6
6	0.875503692	0.621236787	0.778635472	
0.198687862	0.219789355	0.166260971		
ENSG00000231528	98.89035529	104.4294281	90.67434869	
70.44585765	46.80116496	33.64292277	97.99804402	
50.29664846	0.96605972	0.036248988	0.172342366	
FAM225A	9	113113073	113119928	+ 6100
lincRNA family with sequence similarity 225 member A	[Source:HGNC			
Symbol;Acc:HGNC:27855]	-	109	118	78 68 41
39	0.875034843	0.916597383	0.795557573	
0.619428411	0.413143935	0.297280067		
ENSG00000160305	865.5174215	687.641234	940.4557448	
804.9475205	523.9447491	436.4953569	831.2048001	
588.4625422	0.498387222	0.036251007	0.172342366	DIP2A
21	46458899	46569852	+ 13557	
protein_coding	disco interacting protein 2 homolog A [Source:HGNC			
Symbol;Acc:HGNC:17217]	-	954	777	809 777 459
506	3.445985631	2.715712952	3.712716364	
3.184706882	2.081116774	1.73547331		
ENSG00000184486	125.2006333	37.16979643	72.07448229	
38.33083431	27.39580388	36.2308399	78.14830401	
33.98582603	1.199666819	0.036253375	0.172342366	POU3F2

6	98834592	98839470	+	4879		
protein_coding	POU class 3 homeobox 2 [Source:HGNC					
Symbol;Acc:HGNC:9215]	Pou	138	42	62	37	24
42	1.385086677	0.407891742		0.790619857		
0.421388762	0.3023624	0.400266727				
ENSG00000225849	0	0	17.61146441	0		
5.175834272	0	7.595766228	-5.401810087	0.036303973		
1	MKRN7P	20	46463719	46477232		-
1994	transcribed_processed_pseudogene					"makorin ring
finger protein 7,	pseudogene [Source:HGNC					Symbol;Acc:HGNC:7119]"
-	0	0	0	17	0	6
0	0	0.47373537	0	0.139912693		0
ENSG00000143643	825.598379	840.7453955	773.0569472			
752.1131273	586.7267997	474.4514749	813.1335739			
604.4304673	0.429075842	0.036402161	0.173003175			TTC13
1	230906243	230978875	-	4212		
protein_coding	tetratricopeptide repeat domain 13 [Source:HGNC					
Symbol;Acc:HGNC:26204]	-	910	950	665	726	514
550	10.57990367	10.68714455	9.822909196			
9.577679539	7.501050973	6.071630656				
ENSG00000223749	45.3625483	89.38451047	34.8747495			
21.75533839	13.69790194	30.19236658	56.54060275			
21.88186897	1.365576831	0.036534646	0.173549494			
MIR503HG	X	134543337	134546632	-		1678
lincRNA	MIR503 host gene [Source:HGNC					Symbol;Acc:HGNC:28258]"
-	50	101	30	21	12	35
1.45917282	2.852041615	1.112336389	0.695407519			
0.43957871	0.969855663					
ENSG00000125676	3127.29408	2405.416826	2365.670508			
2622.036261	1705.388791	1643.327381	2632.793804			
1990.250811	0.403943374	0.036546895	0.173549494			THOC2
X	123600561	123733056	-	10277		
protein_coding	THO complex 2 [Source:HGNC					Symbol;Acc:HGNC:19073]"
-	3447	2718	2035	2531	1494	1905
16.42493314	12.53168693	12.31983535	13.68478039			
8.935762167	8.619054793					
ENSG00000166189	631.4466723	899.1550756	776.5444221			
764.5447492	1126.652434	1266.354118	769.0487233			
1052.517101	-0.453051703	0.036552792	0.173549494			HPS6
10	102065390	102068038	+	2649		
protein_coding	"HPS6, biogenesis of lysosomal organelles complex 2					
subunit 3 [Source:HGNC	Symbol;Acc:HGNC:18817]"				696	1016
668	738	987	1468	12.86636788	18.1734839	
15.68921992	15.48055217	22.90248222	25.76766795			
ENSG00000204267	1144.043468	1107.128937	902.0935203			
863.9977247	760.2335576	833.3093177	1051.088642			
819.1802	0.360145336	0.036556358	0.173549494			TAP2
6	32821833	32838780	-	6390		
protein_coding	"transporter 2, ATP binding cassette subfamily B					
member [Source:HGNC	Symbol;Acc:HGNC:44]"				-	1261
						1251

	776	834	666	966	9.663688267	9.27647316	
	7.555578284		7.252324635		6.406498536	7.029222433	
ENSG00000157429	41.73354444		30.97483036		48.8246493		
59.05020421	91.31934625		97.47821212		40.51100803		
82.61592086	-1.032543266		0.036598588		0.173703362		ZNF19
	16	71464555	71565089		-	9225	
protein_coding	zinc finger protein 19 [Source:HGNC						
Symbol;Acc:HGNC:12981]	zf-C2H2	46	35		42	57	80
	113	0.244185651	0.179774509		0.283262942		
0.343336934	0.533053712		0.569564728				
ENSG00000189398	0.907250966		4.424975766		0	11.39565344	
	22.82983656	10.35166854	1.777408911		14.85905285		
	-3.018649878	0.036613574	0.173727871		OR7E12P	11	
	3390780	3391752	-	973	unprocessed_pseudogene		
olfactory receptor family 7 subfamily E member 12	pseudogene						
[Source:HGNC	Symbol;Acc:HGNC:8383]						
	11	20	12	0.050328715	0.243491388		0
	0.628191258	1.263468781	0.573455106				
ENSG00000221963	581.5478692		563.7419125		521.9587508		
448.5743583	441.7573375		347.6435352		555.7495108		
412.6584103	0.431249083		0.036635617		0.173785848		APOL6
	22	35648395	35668409		+	10121	
protein_coding	apolipoprotein L6 [Source:HGNC						
Symbol;Acc:HGNC:14870]	-	641	637	449	433	387	403
3.101439317	2.98223902		2.760131432		2.377259081		
2.350362776	1.851452777						
ENSG00000198824	1644.846001		1269.968045		1374.06513		
1880.282818	1677.992987		1817.580468		1429.626392		
1791.952091	-0.325893791		0.036664068		0.173874182		CHAMP1
	13	114314335	114337626		+	5770	
protein_coding	chromosome alignment maintaining phosphoprotein 1						
[Source:HGNC	Symbol;Acc:HGNC:20311]						
	1815	1470	2107	15.38688382	11.78426577		
12.74525444	17.47885018		15.6598963		16.97929839		
ENSG00000163251	194.1517067		151.3341712		185.998664		
128.4600934	118.7151501		71.59904076		177.161514		
106.2580948	0.740412987		0.036682863		0.173910588		FZD5
	2	207762586	207769563		-	6708	
protein_coding	frizzled class receptor 5 [Source:HGNC						
Symbol;Acc:HGNC:4043]	-		214	171	160	124	104
	83	1.562245934	1.207895873		1.483999571		
1.027166093	0.952988469		0.575328723				
ENSG00000164916	2161.071801		2393.026894		2255.233801		
2638.611757	2511.282022		3303.044904		2269.777499		
2817.646228	-0.312341616		0.036691408		0.173910588		FOXK1
	7	4682309	4771443	+	13093	protein_coding	
forkhead box K1	[Source:HGNC						
Symbol;Acc:HGNC:23480]	Fork						2382
	2704	1940	2547	2200	3829	8.909047467	
9.785746479	9.218694195		10.80940579		10.32834825		
13.59806825							

ENSG00000181029	42.6407954	53.98470434	22.08734135		
40.4027713	90.17785443	142.3354425	39.57094703		
90.97202273	-1.197317486	0.036703957	0.173915904		
TRAPPC5 19	7680843	7687703 +	5669	protein_coding	
trafficking protein particle complex 5 [Source:HGNC					
Symbol;Acc:HGNC:23067]	-	47	61	19	39 79
165	0.405994439	0.509858682	0.208523013		
0.38226998	0.856580127	1.353344946			
ENSG00000259172	3.629003864	2.654985459	0	5.179842475	
0	58.65945508	2.094663108			
21.27976585	-3.322317563	0.036712193	0.173915904		
AC023024.1	15	101295419	101305737	+	2590
antisense		"novel transcript, antisense to			
PCSK6"	-	4	3	0	5 0 68
0.075629096	0.054884275	0	0.107270989	0	
1.220787761					
ENSG00000173198	6.350756762	4.424975766	8.137441549	0	
0	0	6.304391359	0	5.087604919	
0.036777809	1	CYSLTR1 X	78271464	78327691	
-	5571	protein_coding	cysteinyl leukotriene receptor		
1 [Source:HGNC	Symbol;Acc:HGNC:17451]	-	7	5	7
0	0	0	0.061530942	0.042526857	
0.078175691	0	0	0		
ENSG00000257126	51.71330506	52.21471403	41.8496994		
33.15099184	10.27342645	6.038473317	48.59257283		
16.48763054	1.565323016	0.036782689	0.174177201	FOXG1-	
AS1 14	28729083	28765277	-	874	
antisense	FOXG1 antisense	RNA 1 [Source:HGNC			
Symbol;Acc:HGNC:50663]	-	57	59	36	32 9
7	3.193685206	3.198652196	2.562700861		
2.034466717	0.632963165	0.37240682			
ENSG00000121753	146.9746565	138.0592439	180.1862057		
127.4241249	52.5086241	79.36279217	155.0733687		
86.43184704	0.840900992	0.036787044	0.174177201	ADGRB2	
1	31727117	31764893	-	7756	
protein_coding	adhesion G protein-coupled receptor B2 [Source:HGNC				
Symbol;Acc:HGNC:944]	-	162	156	155	123 46
92	1.022835747	0.95304463	1.24337103		
0.881209874	0.364558637	0.551545118			
ENSG00000063046	7238.048207	6856.057451	7808.456412		
9431.457178	8062.356782	8719.55547	7300.854023		
8737.78981	-0.259354752	0.036813185	0.174254327	EIF4B	
12	53006158	53042209	+	6146	
protein_coding	eukaryotic translation initiation factor 4B				
[Source:HGNC	Symbol;Acc:HGNC:3285]	-	7978	7747	6717
9104	7063	10108	63.56677224	59.7265516	
67.99698227	82.30983608	70.63891347	76.47221955		
ENSG00000108423	192.3372048	156.6441421	226.6858717		
106.704755	86.75337894	153.5497501	191.8890729		
115.6692947	0.724891277	0.036838499	0.174311214	TUBD1	



17	59859482	59892945	-	3330	
protein_coding	tubulin delta 1	[Source:HGNC	Symbol;Acc:HGNC:16811]		
-	212	177	195	103	76 178
3.117599413	2.518578396	3.643319216	1.718719621		
1.40286771	2.48546005				
ENSG00000253227	9.07250966	1.769990306	0	24.86324388	
	23.97132839	15.52750281	3.614166655	21.45402503	
	-2.542001823	0.036844911	0.174311214	AC090192.2	
8	124271683	124277584	+	553	
lincRNA novel transcript		-	10	2	0 24
21	18	0.885530558	0.171368622	0	
2.411560457	2.334218591	1.513485944			
ENSG00000122641	552.5158383	404.442785	1053.217435		
295.251021	560.4724876	415.7920198	670.058686		
423.8385095	0.659802216	0.036875539	0.174409465	INHBA	
7	41667168	41705834	-	8302	
protein_coding	inhibin subunit beta A	[Source:HGNC			
Symbol;Acc:HGNC:6066]	-	609	457	906	285 491
482	3.592222652	2.608314237	6.789727041		
1.907542288	3.635349109	2.699574563			
ENSG00000216906	14.51601546	1.769990306	3.48747495	0	
0	0	6.591160237	0	5.155775045	
0.036968834	1	AL355312.1	6	149904243	
149906418	+	2176	processed_pseudogene	multimerin 2	
(MMRN2) pseudogene	-	16	2	3	0 0
0	0.360072352	0.043550941	0.085776676	0	
0	0				
ENSG00000128185	1196.664024	1353.157589	1075.304776		
1189.291832	1776.161285	1795.151853	1208.375463		
1586.868323	-0.392759808	0.036970806	0.174813307	DGCR6L	
22	20314276	20320080	-	1154	
protein_coding	DiGeorge syndrome critical region gene 6 like	[Source:HGNC	Symbol;Acc:HGNC:18551]		
		-	1319	1529	925
1148	1556	2081	55.97159336	62.78098387	
49.87039069	55.27746559	82.88026749	83.84888455		
ENSG00000273733	2.721752898	7.079961225	9.299933199	0	
0	0	6.367215774	0	5.101186698	
0.037044073	1	AC011472.4	19	11221083	
11221573	+	491	antisense	"novel transcript,	
antisense to DOCK6"	-	3	8	8	0 0
0	0.299204724	0.772031349	1.01371376	0	
0	0				
ENSG00000178605	1788.191654	2253.19766	2044.822812		
2071.93699	2676.798337	3014.923463	2028.737375		
2587.886263	-0.351414915	0.037055849	0.175088595	GTPBP6	
X	304529	318819	-	2964	protein_coding
binding protein 6 (putative)	[Source:HGNC	Symbol;Acc:HGNC:30189]			GTP
-	1971	2546	1759	2000	2345 3495
32.5639522	40.7011463	36.922788	37.49417827		
48.63086651	54.82769635				

ENSG00000149929	348.3843709	640.7364909	654.4827989		
416.459335	289.9389244	404.5777122	547.8678869		
370.3253238	0.563314248	0.037057746	0.175088595	HIRIP3	
16	29992321	29996436	-	3931	
protein_coding	HIRA interacting protein 3 [Source:HGNC				
Symbol;Acc:HGNC:4917]	-	384	724	563	402
469	4.783622105	8.72693946	8.9107077		254
5.68244254	3.971714597	5.547544786			
ENSG00000177576	79.83808501	96.46447169	105.7867401		
164.7189907	127.8470848	174.2530871	94.02976561		
155.6063875	-0.729883197	0.03705872	0.175088595		
C18orf32	18	49477250	49487252	-	5740
protein_coding	chromosome 18 open reading frame 32				
[Source:HGNC Symbol;Acc:HGNC:31690]	-		88	109	91
159	112	202	0.750757126	0.89978976	
0.986362032	1.539207871	1.199370853	1.636328502		
ENSG00000127920	598.7856375	598.2567235	578.9208416		
419.5672404	1068.436351	1209.419941	591.9877342		
899.1411777	-0.603259503	0.037083091	0.175156957	GNG11	
7	93921699	93928610	+	3055	
protein_coding	G protein subunit gamma 11 [Source:HGNC				
Symbol;Acc:HGNC:4403]	-	660	676	498	405
1402	10.57940893	10.48484277	10.14203196		936
7.366409408	18.83267425	21.33869309			
ENSG00000260793	5.443505796	11.50493699	2.3249833		0
0	0	6.424475362	0	5.120574627	
0.037108769	1	AC003102.1	17	44221401	
44223710	+	2012	antisense	"novel transcript,	
antisense to UBTF"	-	6	13	2	0
0	0.14603332	0.306155324	0.061845608	0	
0	0				
ENSG00000108433	1046.060364	1208.018384	993.9303607		
1311.536115	1392.62003	1363.832331	1082.669703		
1355.996158	-0.324129087	0.037114009	0.175256194	GOSR2	
17	46923075	46975524	+	14366	
protein_coding	golgi SNAP receptor complex member 2 [Source:HGNC				
Symbol;Acc:HGNC:4431]	-	1153	1365	855	1266
1581	3.930267669	4.502183895	3.702858354		1220
4.896772046	5.220009925	5.117136783			
ENSG00000100347	1009.770325	1215.98334	1071.817301		
1174.788273	1496.495787	1544.123891	1099.190322		
1405.135984	-0.354257978	0.037152707	0.175392111	SAMM50	
22	43955421	44010531	+	6435	
protein_coding	SAMM50 sorting and assembly machinery component				
[Source:HGNC Symbol;Acc:HGNC:24276]	-		1113	1374	922
1134	1311	1790	8.469841761	10.11729987	
8.914340452	9.792115941	12.52280162	12.93407866		
ENSG00000249471	277.6187956	469.0474312	331.3101202		
500.372783	461.1626986	573.6549651	359.325449		
511.7301489	-0.509964404	0.037165942	0.175407776		

ZNF324B 19	58451604	58457833	+	4042	
protein_coding	zinc finger protein 324B [Source:HGNC				
Symbol;Acc:HGNC:33107]	zf-C2H2 306	530	285	483	404
665	3.707266449	6.213066489	4.386876391		
6.63992028	6.143734169	7.649910502			
ENSG00000152208	10.88701159	0.884995153	8.137441549	0	
0	0	6.636482765	0	5.161903034	
0.037204794	1	GRID2 4	92303622	93810157	
+	10951	protein_coding	glutamate ionotropic receptor		
delta type subunit 2 [Source:HGNC	Symbol;Acc:HGNC:4576]	-		12	
1	7	0	0	0.053660677	
0.004326858	0.039769589	0	0	0	
ENSG00000164733	41398.76883	53403.26252	52293.52438		
64204.14747	56251.5758	57754.54672	49031.85191		
59403.42333	-0.276839007	0.037214892	0.175591949	CTSB	
8	11842524	11869448	-	7428	
protein_coding	cathepsin B [Source:HGNC	Symbol;Acc:HGNC:2527]	-		
45631	60343	44984	61975	49279	66951
384.9297197	376.7844943	463.6141515	407.7907322		
419.0985818					
ENSG00000090924	786.5865875	654.8964133	714.9323647		
516.948279	494.2659616	621.9627516	718.8051218		
544.3923307	0.399800899	0.037266567	0.175788879		
PLEKHG2 19	39412585	39428415	+	9200	
protein_coding	pleckstrin homology and RhoGEF	domain containing G2			
[Source:HGNC	Symbol;Acc:HGNC:29515]	-	867	740	615
499	433	721	4.614875123	3.811275413	
4.159049938	3.01387171	2.892993309	3.644000732		
ENSG00000188706	1081.443151	996.5045424	1169.4666		
1216.227013	1703.105808	1273.255231	1082.471431		
1397.52935	-0.368396481	0.037301837	0.175883471	ZDHHC9	
X	129803288	129843909	-	5243	
protein_coding	zinc finger DHHC-type containing 9 [Source:HGNC				
Symbol;Acc:HGNC:18475]	-	1192	1126	1006	1174
1476	11.13332998	10.17618453	11.93781844		
12.44228895	17.49187341	13.08993584			
ENSG00000160326	236.7925021	221.2487883	383.6222445		
237.2367853	116.4321665	161.3135015	280.5545116		
171.6608178	0.705886975	0.037306506	0.175883471	SLC2A6	
9	133471095	133479137	-	3540	
protein_coding	solute carrier family 2 member 6 [Source:HGNC				
Symbol;Acc:HGNC:11011]	-	261	250	330	229
187	3.610488191	3.34628701	5.799860187		102
3.594547806	1.77110484	2.456231873			
ENSG00000221843	69.85832438	14.15992245	31.38727455		
125.3521879	65.06503421	81.9507093	38.46850713		
90.78931046	-1.237582369	0.037325516	0.175926207		
C2orf16 2	27537386	27582721	+	16402	
protein_coding	chromosome 2 open reading frame 16 [Source:HGNC				
Symbol;Acc:HGNC:25275]	-	77	16	27	121
					57

95	0.229891334	0.046222094	0.102417413		
0.409921414	0.213611883	0.269313309			
ENSG00000139112	146.0674055	141.5992245	134.8490314		
145.0355893	251.1282022	282.9456069	140.8385538		
226.3697994	-0.685061292	0.037344358	0.175941371		
GABARAPL1	12	10212458	10223130	+	4086
protein_coding	GABA type A receptor associated protein like 1				
[Source:HGNC Symbol;Acc:HGNC:4068]	-	161	160	116	
140	220	328	1.929550713	1.855444897	
1.766308153	1.903889405	3.309570819	3.732557438		
ENSG00000163508	14.51601546	0	2.3249833	21.75533839	
13.69790194	55.2088989	5.613666252	30.22071308		
-2.421990567	0.037365673	0.175941371	EOMES	3	
27715949	27722711	-	3656	protein_coding	
eomesodermin	[Source:HGNC Symbol;Acc:HGNC:3372] T-box				
0	2	21	12	64	0.214310021
0.034035384	0.319172269	0.201754123	0.813963265		
ENSG00000181163	18635.84209	17272.4504	19183.43721		
17056.1853	14502.65368	14638.9846	18363.9099		
15399.27453	0.253986782	0.037376383	0.175941371	NPM1	
5	171387116	171411137	+	3828	
protein_coding	nucleophosmin 1 [Source:HGNC Symbol;Acc:HGNC:7910]				
-	20541	19517	16502	16464	12705
262.7715465	241.5836696	268.2078596	238.9876572		
204.0093633	206.1298709				
ENSG00000273199	7.258007728	7.964956378	17.43737475		
29.00711786	62.78205055	17.25278091	10.88677962		
36.34731644	-1.747623121	0.037389176	0.175941371		
AP000692.2	21	36319792	36320670	-	879
antisense	"novel transcript, antisense to MORC3"				
8	9	15	28	55	20
0.485154513	1.061718123	1.770032334	3.846105338		
1.057967042					
ENSG00000153208	41.73354444	15.0449176	36.03724115		
6.215810969	13.69790194	0	30.93856773	6.637904302	
2.243197366	0.03738953	0.175941371	MERTK	2	
111898479	112029561	+	4700	protein_coding	
"MER proto-oncogene, tyrosine kinase	[Source:HGNC				
Symbol;Acc:HGNC:7027]"	-	46	17	31	6
0	0.479279283	0.171386853	0.410365349		12
0.070935794	0.156938952	0			
ENSG00000235106	646.8699387	764.6358123	761.4320307		
890.9329056	1101.539614	839.3477911	724.3125939		
943.9401036	-0.381623998	0.037396503	0.175941371	BRD30S	
9	134025439	134034666	+	5994	
protein_coding	BRD3 opposite strand [Source:HGNC				
Symbol;Acc:HGNC:24742]	-	713	864	655	860
973	5.825074374	6.830043107	6.798786572		965
7.972485835	9.895960085	7.547917069			
ENSG00000162836	256.7520234	298.2433666	238.3107882		

442.3585473	366.4188768	321.7643639	264.4353927	
376.8472627	-0.50922611	0.037398358	0.175941371	ACP6
1	147629652	147670496	-	11960
protein_coding	"acid phosphatase 6, lysophosphatidic [Source:HGNC			
Symbol;Acc:HGNC:29609]"	-	283	337	205 427 321
373	1.158734504	1.335134942	1.066423061	
1.983849576	1.649761684	1.450135787		
ENSG00000139637	854.63041	1044.294281	990.4428857	
992.4578181	1384.629588	1388.848863	963.1225254	
1255.31209	-0.382485296	0.03743014	0.176044071	
C12orf10	12	53299686	53307177	+ 2509
protein_coding	chromosome 12 open reading frame 10			
[Source:HGNC Symbol;Acc:HGNC:17590]	-	942	1180	852
958	1213 1610	18.38564732	22.28475105	
21.12738664	21.21665387	29.71717349	29.8370741	
ENSG00000119397	536.1853209	345.1481097	387.1097194	
421.6391774	195.1951026	170.802531	422.8143833	
262.5456037	0.688491885	0.037517113	0.176406224	CNTRL
9	121074863	121177610	+ 9417	
protein_coding	centriolin [Source:HGNC Symbol;Acc:HGNC:1858] -			
591	390 333	407 171	198	3.073290362
1.962359072	2.200080186	2.401562439	1.116171425	
0.977650525				
ENSG00000256594	51.71330506	37.16979643	27.8997996	
17.61146441	10.27342645	12.93958568	38.9276337	
13.60815885	1.517327584	0.037532015	0.176429397	
AC010186.2	12	9648047	9658412 +	2825
transcribed_unprocessed_pseudogene	C-type lectin domain family 2			
member D pseudogene [Source:NCBI gene;Acc:374443]	-			57
42	24 17	9 15	0.988064025	
0.704461526	0.528566502	0.334381709	0.19582648	
0.246890185				
ENSG00000115073	912.6944718	1040.7543	1136.916834	
1153.032935	1348.101849	1429.392898	1030.121868	
1310.175894	-0.347782305	0.037543324	0.17643567	ACTR1B
2	97655963	97664107	- 2892	
protein_coding	ARP1 actin related protein 1 homolog B [Source:HGNC			
Symbol;Acc:HGNC:168]	-	1006 1176	978 1113	1181
1657	17.03446019	19.26794837	21.04008126	
21.38498349	25.10145923	26.64128926		
ENSG00000226935	0	2.654985459	2.3249833	38.33083431
0	13.80222472	1.659989586		
17.37768635	-3.400534765	0.037562402	0.17647844	
LINC00161	21	28539318	28540355	+ 870
lincRNA	long intergenic non-protein coding RNA 161			
[Source:HGNC Symbol;Acc:HGNC:17138]	-	0	3	2
37	0 16	0	0.163391117	0.143026855
2.363167553	0	0.855129223		
ENSG00000187741	1753.716117	1816.895049	1496.126753	
1574.672112	1034.191596	1300.85968	1688.91264	

1303.24113	0.374030963	0.037603789	0.176581596	FANCA
16	89737549	89816657	- 9736	
protein_coding	FA complementation group A [Source:HGNC			
Symbol;Acc:HGNC:3582]	-	1933 2053	1287 1520	906
1508	9.722545234	9.991595068	8.224411436	
8.675111519	5.719986353	7.201978067		
ENSG00000165916	5057.016884	5694.058815	6704.089345	
4341.743962	4818.237007	5058.515361	5818.388348	
4739.498777	0.295592554	0.037604323	0.176581596	PSMC3
11	47418769	47426473	- 2276	
protein_coding	"proteasome 26S subunit, ATPase 3 [Source:HGNC			
Symbol;Acc:HGNC:9549]"	-	5574 6434	5767 4191	4221
5864	119.9287729	133.9476935	157.6465752	
102.3192732	113.996221	119.7988701		
ENSG00000115594	211.3894751	176.1140355	179.0237141	
104.632818	160.9503478	64.6979284	188.8424082	
110.0936981	0.783807	0.037618649	0.176587733	IL1R1
2	102064544	102179874	+ 7083	
protein_coding	interleukin 1 receptor type 1 [Source:HGNC			
Symbol;Acc:HGNC:5993]	-	233 199	154 101	141
75	1.610895479	1.331258137	1.352727521	
0.792348382	1.223627506	0.492351244		
ENSG00000146555	30.84653284	54.86969949	84.86189044	
26.93518087	19.40536108	0	56.85937426 15.44684732	
1.88849025	0.037625596	0.176587733	SDK1 7	
3301448	4269000 +	12062	protein_coding sidekick cell	
adhesion molecule 1 [Source:HGNC	Symbol;Acc:HGNC:19307]			- 34
62	73 26	17 0	0.1380347	
0.243555985	0.376539362	0.119774969	0.086631724 0	
ENSG00000169933	0 0	0 2.07193699	5.707459141	
11.21430759	0	6.331234573	-5.141437813	
0.037638412	1	FRMPD4 X	12138466 12724523	
+	8478	protein_coding	FERM and PDZ domain containing	
4 [Source:HGNC	Symbol;Acc:HGNC:29007]			- 0 0 0
2	5 13	0 0	0 0.013108368	
0.036251331	0.071298593			
ENSG00000152207	95.26135143	114.1643748	94.16182364	
130.5320304	134.6960357	257.0664355	101.1958499	
174.0981672	-0.78474054	0.037796256	0.177341639	
CYSLTR2 13	48653711	48711226	+ 5372	
protein_coding	cysteinyl leukotriene receptor 2 [Source:HGNC			
Symbol;Acc:HGNC:18274]	-	105 129	81 126	118
298	0.957154353	1.137837249	0.938114528	
1.303306571	1.350185263	2.579355947		
ENSG00000154269	0.907250966	6.194966072	12.78740815 0	
0	0	6.629875062 0	5.157140379	
0.037818568	1	ENPP3 6	131628442 131747418	
+	3885	protein_coding	ectonucleotide	
pyrophosphatase/phosphodiesterase 3 [Source:HGNC	Symbol;Acc:HGNC:3358]			- 1 7 11 0 0

0	0.012604849	0.085375539	0.17616049	0
0	0			
ENSG00000175581	909.9727189	899.1550756	1028.80511	
885.7530631	623.2545382	640.9408106	945.9776349	
716.6494707	0.400210263	0.037818932	0.177400977	MRPL48
11	73787316	73865133	+ 4386	
protein_coding	mitochondrial ribosomal protein L48 [Source:HGNC			
Symbol;Acc:HGNC:16653]	-	1003 1016	885 855	546
743	11.19852926	10.97618761	12.55398166	
10.83202194	7.651936821	7.87682514		
ENSG00000177302	2485.867647	2596.575779	2180.834335	
2848.913361	2596.893909	3737.814983	2421.092587	
3061.207418	-0.33861086	0.037840984	0.177457362	TOP3A
17	18271428	18315007	- 6476	
protein_coding	DNA topoisomerase III alpha [Source:HGNC			
Symbol;Acc:HGNC:11992]	-	2740 2934	1876 2750	2275
4333	20.7191725	21.46741294	18.02323895	
23.59597337	21.59344432	31.11092093		
ENSG00000197479	11.79426256	9.734946684	17.43737475	0
0	3.450556181	12.98886133	1.150185394	
3.418653336	0.037883565	0.177609961	PCDHB11 5	
141199582	141203779	+ 4198	protein_coding	
protocadherin beta 11 [Source:HGNC	Symbol;Acc:HGNC:8682]			-
13	11 15	0 0	4	0.151645526
0.124158567	0.222308297	0 0	0	0.044304575
ENSG00000236654	0 0	0 5.179842475	0	
17.25278091	0 7.477541127	-5.383799892	0.037904268	
1	AC079780.1	7 23480753	23480959	
+	207	processed_pseudogene	chromosome 5 open	
reading frame 13 (C5orf13) pseudogene		-	0 0 0	
5	0 20	0 0	0	1.342182903
0	4.492526715			
ENSG00000150712	758.4618076	768.1757929	835.8314963	
1124.025817	1116.379008	828.9961225	787.4896989	
1023.133649	-0.377226816	0.037929489	0.17777815	MTMR12
5	32226994	32313009	- 5545	
protein_coding	myotubularin related protein 12 [Source:HGNC			
Symbol;Acc:HGNC:18191]	-	836 868	719 1085	978
961	7.383009215	7.417279005	8.067411066	
10.87277076	10.84138243	8.058474859		
ENSG00000261105	59.87856375	38.05479158	56.96209084	
12.43162194	35.38624667	8.626390453	51.63181539	
18.81475302	1.468287827	0.037952213	0.177822208	LM07-
AS1 13	75604700	75635994	- 593	
antisense	LM07 antisense RNA 1 [Source:HGNC			
Symbol;Acc:HGNC:50277]	-	66 43	49 12	31
10	5.450268851	3.435897528	5.141007451	
1.12444598	3.213322838	0.784108794		
ENSG00000196998	650.4989426	925.7049302	725.3947895	
1126.097754	1028.484137	882.4797433	767.1995541	

1012.353878	-0.39917794	0.037966087	0.177822208	WDR45
X	49071470	49101170	- 5452	
protein_coding	WD repeat domain 45 [Source:HGNC			
Symbol;Acc:HGNC:28912]	-	717 1046	624 1087	901
1023	6.440090822	9.090803661	7.120911513	
11.0786219	10.15818935	8.724706068		
ENSG00000172238	2.721752898	4.424975766	4.6499666	
37.29486582	14.83939377	7.763751407	3.932231754	
19.96600366	-2.346891188	0.037975788	0.177822208	ATOH1
4	93828753	93830964	+ 2212	
protein_coding	atonal bHLH transcription factor 1 [Source:HGNC			
Symbol;Acc:HGNC:797]	bHLH	3 5	4 36	13
9	0.066414792	0.107105389	0.112507562	
0.904335171	0.361248115	0.189185743		
ENSG00000008988	12012.91004	14093.54781	14221.92284	
15312.65032	15799.38839	17014.69253	13442.79357	
16042.24375	-0.255121388	0.0379791	0.177822208	RPS20
8	56067295	56074581	- 3002	
protein_coding	ribosomal protein S20 [Source:HGNC			
Symbol;Acc:HGNC:10405]	-	13241 15925	12234 14781	13841
19724	215.9925547	251.3594364	253.5505955	
273.5931204	283.4028027	305.5028908		
ENSG00000116062	2867.820303	2736.405013	2405.195224	
3259.156885	3056.915116	3411.737424	2669.806847	
3242.603142	-0.280235362	0.037995977	0.17785415	MSH6
2	47695530	47810101	+ 10993	
protein_coding	mutS homolog 6 [Source:HGNC Symbol;Acc:HGNC:7329]			
-	3161 3092	2069 3146	2678 3955	
14.08111195	13.3275309	11.709844	15.90210197	
14.97413364	16.72866476			
ENSG00000248309	11.79426256	2.654985459	4.6499666	0
0	0	6.366404872	0	5.104774216
0.038084529	1	MEF2C-AS1	5	88883328
89466398	+ 7865	antisense	MEF2C antisense	RNA 1
[Source:HGNC Symbol;Acc:HGNC:48908]	-		13 3	4
0	0	0.080941884	0.018073779	
0.031642305	0	0		
ENSG00000138231	600.6001395	515.9521743	446.3967936	
671.3075847	617.547079	808.2927854	520.9830358	
699.0491497	-0.423968077	0.038118999	0.178382798	DBR1
3	138161012	138174949	- 3160	
protein_coding	debranching RNA lariats 1 [Source:HGNC			
Symbol;Acc:HGNC:15594]	-	662 583	384 648	541
937	10.25887151	8.741941843	7.560508193	
11.39462316	10.52343548	13.78743654		
ENSG00000267523	47.17705023	14.15992245	23.249833	
7.251779464	4.565967313	10.35166854	28.19560189	
7.389805107	1.922255162	0.038140713	0.178437203	
AC008735.2	19	55661901	55674715	- 561
antisense	"novel transcript, antisense to U2AF2A"	-		



	52	16	20	7	4	12	4.539093888
	1.351398904		2.21806353		0.693341543		0.438272772
	0.994602171						
ENSG00000255363	6.350756762		5.309970919		6.974949899		0
	0	0	6.211892527	0	5.067326364		
0.038180501	1	AP001189.5	11	76607853			
76630427	-	1725	lincRNA novel transcript	-			
	7	6	6	0	0	0.198718191	
	0.16481191		0.21640585	0	0	0	
ENSG00000078902	1006.141321		1214.21335		1304.315631		
1327.075642	1514.759656		1632.113074		1174.890101		
1491.316124	-0.344857234		0.038220937		0.178765244		TOLLIP
	11	1274371	1309654	-	5983	protein_coding	toll
interacting protein [Source:HGNC Symbol;Acc:HGNC:16476]	-						1109
	1372	1122	1281	1327	1892	9.07697683	
10.86579606	11.66757767		11.897129		13.63324628		
14.70392055							
ENSG00000091640	694.046989		760.2108365		941.6182364		
583.2502626	673.4801786		555.5395452		798.625354		
604.0899955	0.402471325		0.038243023		0.178821263		SPAG7
	17	4959226	4967872	-	2831	protein_coding	sperm
associated antigen 7 [Source:HGNC Symbol;Acc:HGNC:11216]	-						-
	765	859	810	563	590	644	13.23275432
	14.37737946		17.80131135		11.0504654		12.81030596
	10.57735343						
ENSG00000130560	1115.918688		1383.247424		1055.542418		
1196.543612	1628.908839		1851.223391		1184.902844		
1558.891947	-0.39559569		0.038260989		0.178853794		UBAC1
	9	135932969	135961380		-	2979	
protein_coding UBA domain containing 1 [Source:HGNC Symbol;Acc:HGNC:30221]	-		1230	1563	908	1155	1427
	2146	20.21916851	24.86078946		18.96366138		
21.54386032	29.44427262		33.49579057				
ENSG00000065883	2414.19482		2493.916341		2399.382765		
2835.445771	2825.192275		3131.379734		2435.831309		
2930.672593	-0.266961975		0.038270653		0.178853794		CDK13
	7	39949646	40099580		+	25093	
protein_coding cyclin dependent kinase 13 [Source:HGNC Symbol;Acc:HGNC:1733]	-		2661	2818	2064	2737	2475
	3630	5.193031674	5.321264456		5.117571899		
6.060860029	6.062754419		6.726436653				
ENSG00000076641	846.4651513		725.6960256		839.3189712		
737.6095684	597.0002261		427.8689665		803.826716		
587.4929203	0.453236478		0.038280313		0.178853794		PAG1
	8	80967810	81112068		-	11023	
protein_coding phosphoprotein membrane anchor with glycosphingolipid microdomains 1 [Source:HGNC Symbol;Acc:HGNC:30043]	-						933
	820	722	712	523	496	4.14486624	
3.524848746	4.075155984		3.589155131		2.916414452		
2.092246679							

ENSG00000167173	765.7198153	800.0356184	957.8931195		
934.4435824	1077.568286	1265.491479	841.2161844		
1092.501116	-0.378479466	0.038296953	0.17888429		
C15orf39	15	75195643	75212169	+	5812
protein_coding chromosome 15 open reading frame 39					
[Source:HGNC Symbol;Acc:HGNC:24497]	-	844	904		824
902	944	1467	7.111243086	7.37003017	
8.820809699	8.623686808	9.983751182	11.73641685		
ENSG00000198087	1557.749909	1373.512478	1268.27839		
1285.636902	918.9009217	1059.320748	1399.846925		
1087.952857	0.363785967	0.038374604	0.179176887		CD2AP
6	47477789	47627263	+	6751	
protein_coding CD2 associated protein [Source:HGNC					
Symbol;Acc:HGNC:14258]	-	1717	1552	1091	1241
1228	12.45463116	10.89306386	10.0545697		805
10.21446718	7.329513221	8.457875284			
ENSG00000139687	3993.718752	3654.144987	4146.607715		
3672.508314	2934.77549	3041.665274	3931.490485		
3216.316359	0.28953436	0.038389392	0.179176887		RB1
13	48303726	48599436	+	6452	
protein_coding RB transcriptional corepressor 1 [Source:HGNC					
Symbol;Acc:HGNC:9884]	-	4402	4129	3567	3545
3526	33.41060678	30.32333508	34.39660643		2571
30.53050054	24.49373857	25.41083682			
ENSG00000264235	0	0.884995153	0	0	
34.50556181	0.294998384	11.50185394	-5.043482551		
0.038398192	0.179176887	AP005329.1	18	3255436	
3261850	-	1063	antisense	uncharacterized	LOC104968399
[Source:NCBI gene;Acc:104968399]	-	0	1	0	
0	0	40	0	0.044575187	0
0	1.749676444				
ENSG00000171223	1170.353746	1723.970558	2164.559452		
1714.527859	2592.327942	2602.582	1686.294585		
2303.145933	-0.450406089	0.038400112	0.179176887		JUNB
19	12791496	12793315	+	1820	
protein_coding "JunB proto-oncogene, AP-1 transcription factor					
subunit [Source:HGNC Symbol;Acc:HGNC:6205]"		TF_bZIP	1290	1948	
1862	1655	2271	3017	34.70939197	50.71588465
63.65245159	50.52876154	76.69960131	77.07879922		
ENSG00000115318	288.5058072	356.6530467	326.6601536		
242.4166278	257.9771532	95.75293403	323.9396692		
198.7155717	0.708480859	0.038426705	0.17925369		LOXL3
2	74532414	74555690	-	4363	
protein_coding lysyl oxidase like 3 [Source:HGNC					
Symbol;Acc:HGNC:13869]	-	318	403	281	234
111	3.569197586	4.37669491	4.007079451		226
2.980181319	3.183981872	1.182956525			
ENSG00000197496	264.0100311	283.198449	398.7346359		
206.1577305	269.3920714	103.5166854	315.314372		
193.0221625	0.710316291	0.038492589	0.179473738		

SLC2A10	20	46709487	46736347	+	5000	
protein_coding		solute carrier family 2 member 10 [Source:HGNC				
Symbol;Acc:HGNC:	13444]	-	291	320	343	199
	120	2.850044678	3.03253914		4.268064386	236
	2.211541614	2.901278094	1.115943636			
ENSG00000117713		2944.029385	2523.121182		2862.054442	
	2323.677334	2080.939603	2416.251966		2776.401669	
	2273.622968	0.287800096	0.038494169		0.179473738	ARID1A
	1	26693236	26782110	+	15928	
protein_coding		AT-rich interaction domain 1A [Source:HGNC				
Symbol;Acc:HGNC:	11110]	ARID	3245	2851	2462	2243
	2801	9.976590297	8.481299723		9.616867849	1823
	7.824922956	7.035140607	8.176790674			
ENSG00000136783		463.6052436	503.5622421		514.9838009	
	317.0063594	341.3060566	426.1436884		494.0504289	
	361.4853681	0.448984256	0.038521053		0.17952825	
NIPSNAP3A		9	104747688	104760122	+	2585
protein_coding		nipsnap homolog 3A [Source:HGNC				
Symbol;Acc:HGNC:	23619]	-	511	569	443	306
	494	9.680304895	10.42985234		10.66227858	299
	6.577682744	7.1098101	8.88581812			
ENSG00000176055		410.0774366	435.4176153		385.9472278	
	502.44472	554.7650285	579.6934384		410.4807599	
	545.6343956	-0.410232466	0.03852616		0.17952825	MBLAC2
	5	90458203	90474768	-	5676	
protein_coding		metallo-beta-lactamase domain containing 2				
[Source:HGNC		Symbol;Acc:HGNC:33711]				
	485	486	672	3.899641932	4.107231261	332
	3.639171675	4.748007491	5.263095406		5.505007366	
ENSG00000257800		23.58852512	23.00987398		13.9498998	
	62.15810969	29.67878753	62.11001126		20.1827663	
	51.31563616	-1.342871262	0.038570744		0.179688674	
FNBP1P1		2	74120680	74123218	+	1994
processed_pseudogene		formin binding protein 1 pseudogene 1				
[Source:HGNC		Symbol;Acc:HGNC:44528]				
	60	26	72	0.638523488	0.617838027	12
	0.374423362	1.672007188	0.801485287		1.678952311	
ENSG00000177380		156.0471661	251.3386235		173.2112558	
	247.5964703	249.9867104	408.8909075		193.5323485	
	302.1580294	-0.643395145	0.038593569		0.179732721	PPFIA3
	19	49119389	49151026	+	6451	
protein_coding		PTPRF interacting protein alpha 3 [Source:HGNC				
Symbol;Acc:HGNC:	9247]	-	172	284	149	239
	474	1.305659968	2.086016498		1.437030789	219
	2.05865183	2.086721223	3.416507024			
ENSG00000134013		4617.000166	4748.883992		11018.09586	
	3087.186115	4277.16988	1948.701603		6794.660005	
	3104.352533	1.130127447	0.038606926		0.179732721	LOXL2
	8	23297189	23425328	-	5707	
protein_coding		lysyl oxidase like 2 [Source:HGNC				

Symbol;Acc:HGNC:6666]	-	5089	5366	9478	2980	3747
2259	43.66699052	44.55220843	103.3274421			
29.01485705	40.35740013	18.40515065				
ENSG00000224631	210.4822241	165.4940936	267.3730795			
127.4241249	102.7342645	167.3519748	214.4497991			
132.5034547	0.689592845	0.038619098	0.179732721			
RPS27AP16	16	61055399	61055964	-		566
transcribed_processed_pseudogene						ribosomal protein S27a
pseudogene 16 [Source:HGNC Symbol;Acc:HGNC:36855]				-		232
187	230	123	90	194	20.07244318	
15.65494752	25.28239728	12.0753777	9.774024841			
15.93735758						
ENSG00000125266	451.8109811	455.7725039	369.6723447			
626.7609394	486.2755188	614.1990002	425.7519432			
575.7451528	-0.434928041	0.038626703	0.179732721			EFNB2
13	106489731	106535662	-	5019		
protein_coding	ephrin B2 [Source:HGNC Symbol;Acc:HGNC:3227]					-
498	515	318	605	426	712	4.858932105
4.862017013	3.94200137	6.698078339	5.217227366			
6.596200014						
ENSG00000272872	39.01179154	35.39980612	26.73730795			
51.79842475	95.88531357	69.01112362	33.71630187			
72.23162064	-1.094129139	0.038631003	0.179732721			
AP000525.1	22	15823197	15823890	+		694
sense_intronic	"novel transcript, sense intronic to novel transcript"					
-	43	40	23	50	84	80
3.034154341	2.731033087	2.061936147	4.003340937			
7.439901329	5.359959827					
ENSG00000116761	152.4181623	195.5839288	182.511189			
263.1359977	302.4953345	225.1487908	176.8377601			
263.5933743	-0.574799248	0.038666534	0.17985073			CTH
1	70411218	70439851	+	2414		
protein_coding	cystathionine gamma-lyase [Source:HGNC Symbol;Acc:HGNC:2501]					
-	168	221	157	254		265
261	3.408008737	4.337919104	4.046403925			
5.846668823	6.747703148	5.027293721				
ENSG00000189079	733.0587805	506.2172276	545.2085838			
513.8403735	417.7860091	348.5061743	594.8281973			
426.7108523	0.480444776	0.038681749	0.179850862			ARID2
12	45729665	45908040	+	12127		
protein_coding	AT-rich interaction domain 2 [Source:HGNC Symbol;Acc:HGNC:18037]					
ARID	808	572	469	496		366
404	3.26277155	2.234956589	2.406170022			
2.272690741	1.855133073	1.549027064				
ENSG00000145907	6171.121071	6087.881658	5978.694555			
7648.555398	6948.260758	6968.398208	6079.232428			
7188.404788	-0.241736288	0.038686898	0.179850862			G3BP1
5	151771045	151812785	+	12406		
protein_coding	G3BP stress granule assembly factor 1 [Source:HGNC Symbol;Acc:HGNC:30292]					
-	6802	6879	5143	7383		6087

	8078	26.84933504	26.27362358	25.79239042			
33.06839642		30.15913527	30.27632023				
ENSG00000273568		30.84653284	53.98470434	41.8496994			
67.33795217		70.77249335	121.6321054	42.22697886			
86.5808503		-1.038189606	0.038708999	0.179895153			
AC131009.3	12	131934642	131934928	+		287	
	sense_intronic	"novel transcript, sense intronic to PUS1"					
-	34	61	36	65	62	141	
5.801305067		10.07104135	7.804183109	12.58471844			
13.27874873		22.84379394					
ENSG00000281849		3.629003864	13.2749273	2.3249833		0	
0	0	6.409638153	0	5.117301456			
0.038714812	1	AL732314.6	X	386980	405579	+	
484	antisense	"novel transcript, antisense to					
PPP2R3B"	-	4	15	2	0	0	
0.40470942		1.468494547	0.257093727	0		0	
0							
ENSG00000101294		2962.174404	3086.863094	3131.752505			
3532.652568		4045.447039	3478.160631	3060.263334			
3685.420079		-0.268031437	0.038716764	0.179895153		HM13	
20		31514410	31577923	+	10805		
protein_coding	histocompatibility minor 13	[Source:HGNC					
Symbol;Acc:HGNC:16435]	-	3265	3488	2694	3410	3544	
4032		14.79745739	15.29600954	15.512424			
17.53644879		20.16119649	17.35109031				
ENSG00000230679		6.350756762	8.849951531	3.48747495		0	
0	0	6.229394414	0	5.0748986			
0.038786341	1	EN01-AS1	1	8878835	8879894	+	
456	antisense	EN01 antisense RNA 1 [Source:HGNC					
Symbol;Acc:HGNC:40214]	-	7	10	3	0	0	
0		0.751729997	1.039110177	0.409320276		0	
0							
ENSG00000127952		303.0218226	305.3233278	365.0223781			
409.2075555		416.6445173	514.99551	324.4558428			
446.9491943		-0.464424347	0.038795583	0.180214041		STYXL1	
7		75996338	76048004	-	2028		
protein_coding	serine/threonine/tyrosine interacting like 1	[Source:HGNC					
Symbol;Acc:HGNC:18165]	-			334	345	314	
395		365	597	8.065052517	8.060789595		
9.633154906		10.82283877	11.06298374	13.68791812			
ENSG00000206560		3696.140435	3099.253026	3268.926519			
3091.329989		2750.995306	2204.042761	3354.773327			
2682.122685		0.323220667	0.038864898	0.180462296			
ANKRD28	3	15667236	15859771	-	11276		
protein_coding	ankyrin repeat domain 28	[Source:HGNC					
Symbol;Acc:HGNC:29024]	-	4074	3502	2812	2984	2410	
2555		17.69272149	14.71592329	15.51554716			
14.70468736		13.13739735	10.53578393				
ENSG00000170581		690.4179851	872.605221	592.8707414			
886.7890316		877.8072159	1099.864783	718.6313158			

954.8203434	-0.409445402	0.03887641	0.180462296	STAT2
12	56341597	56360155	- 6109	
protein_coding	signal transducer and activator of transcription 2			
[Source:HGNC Symbol;Acc:HGNC:11363]	STAT	761	986	510
856	769	1275	6.100187938	7.647742039
5.194059228	7.786023016	7.737551896	9.704453374	
ENSG00000224939	0	7.964956378	0	29.00711786
10.27342645	21.56597613	2.654985459		
20.28217348	-2.901826488	0.038893689	0.180462296	
LINC00184	1	234629311	234634780	+ 2270
lincRNA	long intergenic non-protein coding RNA 184			
[Source:HGNC Symbol;Acc:HGNC:37192]	-	0	9	0
28	9	25	0	0.187863796
0.685400186	0.24370476	0.512088673		
ENSG00000112183	13.60876449	23.89486913	23.249833	
8.287747959	0	0	20.25115554	2.762582653
2.881877477	0.038895676	0.180462296	RBM24	6
17281346	17293875	+	3444	protein_coding RNA
binding motif protein 24	[Source:HGNC Symbol;Acc:HGNC:21539]			-
15	27	20	8	0
0.371472837	0.361304774	0.129074035	0	0.213283275
ENSG00000117616	476.3067571	413.2927365	291.7854041	
284.8913361	318.4762201	185.4673947	393.7949659	
262.9449836	0.586398967	0.038900036	0.180462296	RSRP1
1	25242237	25338213	-	6804
protein_coding	arginine and serine rich protein 1 [Source:HGNC			
Symbol;Acc:HGNC:25234]	-	525	467	251
215	3.778537024	3.252213262	2.295177423	275
2.245848377	2.520503231	1.469282051		
ENSG00000127774	39.01179154	94.69448138	38.36222445	
14.50355893	22.82983656	30.19236658	57.35616579	
22.50858736	1.348391038	0.038997156	0.180865417	EMC6
17	3668815	3669668	+	769
membrane protein complex subunit 6	[Source:HGNC			
Symbol;Acc:HGNC:28430]	-	43	107	33
35	2.738235517	6.59301219	2.669896627	14
1.011611458	1.598641254	2.116278027		20
ENSG00000176853	2887.779825	2668.260387	2449.369906	
3351.358081	3045.500198	3289.24268	2668.470039	
3228.700319	-0.274754664	0.039092529	0.181260222	
FAM91A1	8	123768456	123815452	+ 7246
protein_coding	family with sequence similarity 91 member A1			
[Source:HGNC Symbol;Acc:HGNC:26306]	-	3183	3015	2107
3235	2668	3813	21.51131661	19.71584647
18.09143651	24.80778555	22.63262125	24.46805757	
ENSG00000105383	612.394402	553.1219707	534.746159	
435.1067679	433.7668947	421.8304931	566.7541772	
430.2347186	0.398215125	0.03913711	0.181419376	CD33
19	51225064	51243860	+	5975
protein_coding	CD33 molecule [Source:HGNC Symbol;Acc:HGNC:1659]			

-	675	625	460	420	380	489	
5.532157638	4.95642511		4.789903552		3.905920724		
3.909246421	3.805414491						
ENSG00000125356	430.9442088		854.9053179		830.019038		
311.826517	505.6808799		590.045107		705.2895216		
469.1841679	0.58694765		0.039208462		0.18169376		NDUFA1
X	119871487		119876662		+ 766		
protein_coding	NADH:ubiquinone	oxidoreductase	subunit A1 [Source:HGNC				
Symbol;Acc:HGNC:7683]	-	475	966	714	301	443	
684	30.36641504		59.75507525		57.99309524		
21.83482772	35.54858486		41.52009612				
ENSG00000150656	9.979760626		1.769990306		3.48747495		
5.179842475	43.37668947		26.7418104		5.079075294		
25.09944745	-2.297358193		0.039217463		0.18169376		CNDP1
18	74534440		74587212		+ 7177		
protein_coding	carnosine dipeptidase 1 [Source:HGNC						
Symbol;Acc:HGNC:20675]	-	11	2	3	5	38	
31	0.075054791		0.013204242		0.026006694		
0.03871142	0.325452799		0.200839793				
ENSG00000172244	216.8329809		188.5039676		216.2234469		
164.7189907	103.8757564		127.6705787		207.1867985		
132.0884419	0.648175634		0.03923217		0.18169376		
C5orf34 5	43486701		43515145		- 3011		
protein_coding	chromosome 5 open reading frame 34 [Source:HGNC						
Symbol;Acc:HGNC:24738]	-	239	213	186	159	91	
148	3.887011531		3.351932688		3.84334203		
2.934258778	1.857710334		2.285503959				
ENSG00000117020	1907.948781		1618.656135		1968.098363		
1688.628647	1378.922128		1283.606899		1831.56776		
1450.385891	0.336601272		0.039246151		0.18169376		AKT3
1	243488233		243851079		- 9475		
protein_coding	AKT serine/threonine kinase 3 [Source:HGNC						
Symbol;Acc:HGNC:393]	-	2103	1829	1693	1630	1208	
1488	10.8689787		9.146626132		11.11692271		
9.559175376	7.836733458		7.302216932				
ENSG00000134259	93.4468495		61.94966072		70.91199064		
24.86324388	50.22564044		31.91764468		75.43616695		
35.668843	1.084927628		0.03924766		0.18169376		NGF
1	115285918		115338236		- 1047		
protein_coding	nerve growth factor [Source:HGNC						
Symbol;Acc:HGNC:7808]	-	61	24	44	37		
-	103	70					
4.817472304	3.167946212		3.624849668		1.27372773		
2.583172181	1.643183482						
ENSG00000124164	2538.488203		2400.106855		2356.370574		
2970.121675	2949.614884		2826.868151		2431.655211		
2915.534903	-0.261600224		0.039264242		0.181722964		VAPB
20	58389122		58451101		+ 10585		
protein_coding	VAMP associated protein B and C [Source:HGNC						
Symbol;Acc:HGNC:12649]	-	2798	2712	2027	2867	2584	
3277	12.9445075		12.14018385		11.91433296		

15.05042882	15.00544942	14.39516334				
ENSG00000149548	642.3336839	560.2019319	511.496326			
572.8905777	332.174122	225.1487908	571.3439806			
376.7378302	0.602347715	0.039359409	0.18211577	CCDC15		
11	124954121	125041489	+ 4823			
protein_coding	coiled-coil domain containing 15	[Source:HGNC				
Symbol;Acc:HGNC:25798]	-	708 633	440 553	291		
261	7.188605972	6.218890198	5.675998358			
6.371180557	3.70871181	2.516252756				
ENSG00000213190	1577.70943	1575.291373	2163.39696			
1397.5215	1503.344738	1258.590367	1772.132588			
1386.485535	0.353705606	0.039373016	0.182126699	MLLT11		
1	151057758	151068497	+ 4075			
protein_coding	"MLLT11, transcription factor 7 cofactor	[Source:HGNC				
Symbol;Acc:HGNC:16997]"	-	1739 1780	1861 1349	1317		
1459	20.89780404	20.69754474	28.41355711			
18.39485548	19.86577545	16.64787081				
ENSG00000173436	214.111228	320.3682454	370.8348363			
186.4743291	198.6195781	216.5224004	301.7714366			
200.5387692	0.587403585	0.039382363	0.182126699	MINOS1		
1	19484403	19629821	+ 5480			
protein_coding	mitochondrial inner membrane organizing system 1	[Source:HGNC				
Symbol;Acc:HGNC:32068]	-	236 362	319			
180	174 251	2.10892011	3.130072903			
3.621737511	1.82517281	1.951713427	2.129728198			
ENSG00000078967	339.3118613	291.1634054	312.7102538			
545.9553968	333.3156138	458.9239721	314.3951735			
446.0649942	-0.505475388	0.039406884	0.182192464	UBE2D4		
7	43926438	43956136	+ 4713			
protein_coding	ubiquitin conjugating enzyme E2 D4 (putative)	[Source:HGNC				
Symbol;Acc:HGNC:21647]	-	374 329	269			
527	292 532	3.886000445	3.307690752			
3.551090061	6.213341428	3.808314198	5.248620963			
ENSG00000269386	43.54804637	29.20484005	30.2247829			
2.07193699	14.83939377	12.93958568	34.32588977			
9.950305478	1.786998941	0.039426462	0.18223535			
RAB11B-AS1	19 8374373	8390685 -	1156 antisense			
RAB11B antisense RNA 1	[Source:HGNC	Symbol;Acc:HGNC:44178]				
-	48 33	26 2	13 15			
2.033349751	1.352640998	1.399337139	0.096135592			
0.691246393	0.603343229					
ENSG00000189241	966.2222788	978.8046394	1043.917502			
1118.845974	1297.876209	1323.288295	996.3148066			
1246.67016	-0.323883116	0.039482034	0.182444541	TSPYL1		
6	116276578	116279903	- 3326			
protein_coding	TSPY like 1	[Source:HGNC				
Symbol;Acc:HGNC:12382]	-	1065 1106 898 1080 1137 1534	15.68036062			
15.75648437	16.79813002	18.04319963	21.01287998			
21.4453991						
ENSG00000251396	0 3.539980612	2.3249833	0			



4.565967313	56.07153794	1.954987971					
20.21250175	-3.378609145	0.039627176	0.183067413				
LINC01301	8	60384588	60516795	-		4428	
	lincRNA long intergenic non-protein coding RNA 1301						
	[Source:HGNC Symbol;Acc:HGNC:50464]						
	0	4	65	0	0.042803454	0.028101482	
	0	0.055526428	0.682553602				
ENSG00000122376	1191.220518	890.305124	978.8179692				
1003.853472	618.6885709	609.885805	1020.114537				
744.1426158	0.455429935	0.039650743	0.183119086			SHLD2	
	10	87094161	87191468	+	4242		
	protein_coding shieldin complex subunit 2 [Source:HGNC						
	Symbol;Acc:HGNC:28773]						
	707	15.15733138	11.23708736	842	969	542	
12.69302562	7.853730286	7.749608583					
ENSG00000204650	205.0387183	235.4087107	261.5606212				
280.7474621	342.4475485	384.7370142	234.0026834				
335.9773416	-0.523852305	0.039659066	0.183119086				
LINC02210	17	45620328	45655156	+		15578	
	transcribed_unitary_pseudogene long intergenic non-protein						
	coding RNA 2210 [Source:HGNC Symbol;Acc:HGNC:26327]						
	266	225	271	300	446	0.710436757	226
0.809089151	0.89862328	0.966650845	1.183741614				
1.331233314							
ENSG00000152558	6967.687419	6190.541096	7059.81179				
6253.105835	5254.286885	5261.235537	6739.346768				
5589.542752	0.269824953	0.039676622	0.183152342				
TMEM123 11	102396332	102470384	-	4647			
	protein_coding transmembrane protein 123 [Source:HGNC						
	Symbol;Acc:HGNC:30138]						
	6099	80.93143316	71.32495185	6073	6036	4603	
72.17530076	60.88575035	61.02629148					
ENSG00000224239	0	0	0	0	27.39580388	0	
	0	9.131934625	-5.662217041	0.039695473			
0.183161861	AC090044.1	3	857124	858091	+	497	
	lincRNA novel transcript						
	0	24	0	0	0	0	0
2.96826187	0						
ENSG00000175334	3374.973593	3972.743242	4259.369405				
3143.128414	3184.762201	3235.759059	3869.028747				
3187.883224	0.279106064	0.039709079	0.183161861			BANF1	
	11	66002079	66004149	+	1645		
	protein_coding barrier to autointegration factor 1 [Source:HGNC						
	Symbol;Acc:HGNC:17397]						
	3751	110.7403065	129.3034593	3664	3034	2790	
102.4853333	104.2523039	106.0259518					
ENSG00000175220	3222.555431	3157.662706	3241.02672				
3383.473104	3929.014873	4415.849273	3207.081619				
3909.44575	-0.28593019	0.039709748	0.183161861				
ARHGAP1 11	46677080	46700615	-	6138			

protein_coding	Rho GTPase activating protein 1 [Source:HGNC						
Symbol;Acc:HGNC:673]	-	3552	3568	2788	3266	3442	
5119	28.33836284	27.54383464	28.26003738				
29.56659687	34.46921097	38.77834442					
ENSG00000251093	2.721752898	15.92991276	1.16249165	0			
0	0	6.604719101	0	5.161409556			
0.039726684	1	AC093281.2	5	91226475			
91227071	-	597	lincRNA novel transcript			-	
3	18	1	0	0	0.246079597		
1.428645951	0.104215548	0	0	0	0		
ENSG00000167191	2.721752898	15.92991276	1.16249165	0			
0	0	6.604719101	0	5.161409556			
0.039726684	1	GPRC5B	16	19856691	19886167		
-	6667	protein_coding	G protein-coupled receptor				
class C group 5 member B [Source:HGNC	Symbol;Acc:HGNC:13308]					-	
3	18	1	0	0	0.022035326		
0.127928849	0.009332036	0	0	0	0		
ENSG00000230251	0	3.539980612	0	20.7193699			
7.990442797	10.35166854	1.179993537					
13.02049375	-3.415658785	0.039733041	0.183208025			PHBP4	
2	154286589	154287425	+	837			
processed_pseudogene	prohibitin pseudogene 4 [Source:HGNC						
Symbol;Acc:HGNC:8916]	-	0	4	0	20	7	
12	0	0.226444082	0	1.327750829			
0.514067256	0.666632996						
ENSG00000124243	52.62055603	90.26950562	56.96209084				
84.94941658	138.1205112	145.7859987	66.61738416				
122.9519755	-0.88235043	0.039740471	0.183208025			BCAS4	
20	50794894	50882676	+	7583			
protein_coding	breast carcinoma amplified sequence 4 [Source:HGNC						
Symbol;Acc:HGNC:14367]	-	58	102	49	82	121	
169	0.374555019	0.637361104	0.402033156				
0.600875975	0.980825333	1.036278927					
ENSG00000115561	1163.095738	1054.914223	1235.728624				
964.4866688	946.2967256	827.2708444	1151.246195				
912.6847462	0.335109118	0.039764065	0.183246089			CHMP3	
2	86503431	86563479	-	7018			
protein_coding	charged multivesicular body protein 3 [Source:HGNC						
Symbol;Acc:HGNC:29865]	-	1282	1192	1063	931	829	
959	8.945473734	8.048025288	9.4238149				
7.371372545	7.260867755	6.35383981					
ENSG00000129480	323.8885949	366.3879934	292.9478958				
454.7901693	414.3615336	472.7261968	327.7414947				
447.2926332	-0.447969464	0.039769446	0.183246089			DTD2	
14	31446036	31457510	-	2971			
protein_coding	D-tyrosyl-tRNA deacylase 2 (putative) [Source:HGNC						
Symbol;Acc:HGNC:20277]	-	357	414	252	439	363	
548	5.884292434	6.602738997	5.277214361				
8.210581419	7.510197074	8.576476951					
ENSG00000256407	0	0	1.16249165	18.64743291	0		

	8.626390453	0.387497217	9.091274454	-4.700302073		
	0.039781837	0.183255447	AL357673.1	1		
54132686	54200073	-	3952	protein_coding	novel	
transcript	-	0	0	1	18	0
0	0	0.015743088	0.253085703	0		10
0.117656001						
ENSG00000152049	157.8616681	149.5641809	185.998664			
70.44585765	122.1396256	104.3793245	164.4748376			
98.98826925	0.732146782	0.039800336	0.183292928			KCNE4
2	223051814	223198399	+	4124		
protein_coding	potassium voltage-gated channel subfamily E regulatory					
subunit 4 [Source:HGNC Symbol;Acc:HGNC:6244]	-	174	169			
160	68	107	121	2.066137762	1.941755253	
2.413838293	0.916225342	1.594822967	1.364261841			
ENSG00000148730	2668.225091	2449.666584	2271.508684			
2819.906243	2732.731437	3655.864274	2463.133453			
3069.500651	-0.317694284	0.039830462	0.183381537			
EIF4EBP2	10	70404379	70428618	+		7257
protein_coding	eukaryotic translation initiation factor 4E					
binding protein 2 [Source:HGNC Symbol;Acc:HGNC:3289]	-	2941				
2768	1954	2722	2394	4238	19.84570745	
18.07321452	16.75229387	20.84217516	20.27749874			
27.15406464						
ENSG00000180660	69.85832438	29.20484005	76.72444889			
3.107905485	15.98088559	37.95611799	58.59587111			
19.01496969	1.611518766	0.03984031	0.183381537			
MAB21L1 13	35474182	35477209	-	3028		
protein_coding	mab-21 like 1 [Source:HGNC Symbol;Acc:HGNC:6757]					
-	77	33	66	3	14	44
1.245270035	0.51639795	1.356109978	0.055052548			
0.284197023	0.675659401					
ENSG00000226650	3.629003864	3.539980612	11.6249165	0		
0	0	6.264633658	0	5.075265043		
0.039846684	1	KIF4B	5	155013755	155018132	
+	4378	protein_coding	kinesin family member 4B			
[Source:HGNC Symbol;Acc:HGNC:6322]	-	4	4	10		
0	0	0	0.044741745	0.043292302		
0.142112111	0	0	0			
ENSG00000187889	0	2.654985459	0	27.97114936		
14.83939377	0	0.884995153	14.27018104	-3.960648817		
0.039876018	0.183455912	FYB2	1	56718804		
56819696	-	4633	protein_coding	FYN binding		
protein 2 [Source:HGNC Symbol;Acc:HGNC:27295]	-	0	3			
0	27	13	0	0	0.030682122	0
0.323827336	0.172475897	0				
ENSG00000163702	622.3741627	613.3016411	605.6581496			
507.6245625	418.9275009	476.176753	613.7779845			
467.5762721	0.392070419	0.039877211	0.183455912			IL17RC
3	9917074	9933630	+	4540	protein_coding	
interleukin 17 receptor C [Source:HGNC Symbol;Acc:HGNC:18358]	-					

	686	693	521	490	367	552	7.399407516	
	7.232756139		7.139843904		5.997251625		4.96886928	
	5.653458949							
ENSG00000136802	2340.707492		2517.811211		2286.621075			
2933.862778	2730.448453		2929.522198		2381.713259			
2864.611143	-0.266272629		0.039910361		0.183543774			LRRC8A
9	128882112		128918039		+	5230		
protein_coding	leucine rich repeat containing 8 VRAC subunit A							
[Source:HGNC Symbol;Acc:HGNC:19027]			-		2580	2845	1967	
2832	2392	3396	24.15720588		25.77549549			
23.39965841	30.08871244		28.11297761		30.1923565			
ENSG00000273162	11.79426256		8.849951531		15.11239145			
3.107905485	0	0	11.91886851		1.035968495			
3.537369678	0.039917061		0.183543774		AL133215.2		10	
101060029		101061005	-		977		lincRNA novel	
transcript	-	13	10	13	3	0	0	
	0.651594593		0.484988987		0.827857591		0.170623456	
	0	0						
ENSG00000100647	540.7215757		505.3322324		520.7962592			
442.3585473	313.9102527		396.8139608		522.2833558			
384.3609203	0.441450181		0.039960609		0.183696261			SUSD6
14	69611596		69715142		+	5830		
protein_coding	sushi domain containing 6 [Source:HGNC							
Symbol;Acc:HGNC:19956]			-	596	571	448	427	275
460	5.006179166		4.640812202		4.780973163			
4.069784036	2.899422463		3.668768386					
ENSG00000183011	873.6826802		1336.342681		1315.940548			
614.3293175	971.4095458		979.0953164		1175.32197			
854.9447265	0.458668391		0.04000776		0.18386523			NAA38
17	7856685	7885238	-	1943				
protein_coding	"N(alpha)-acetyltransferase 38, NatC auxiliary subunit							
[Source:HGNC Symbol;Acc:HGNC:28212]"			-		963	1510	1132	
593	851	1135	24.27069262		36.82396826			
36.24770151	16.95875384		26.92180162		27.16152056			
ENSG00000159128	951.7062633		1240.763205		1493.80177			
727.2498834	1023.91817		998.9360144		1228.757079			
916.7013559	0.421911274		0.040083823		0.1841025			IFNGR2
21	33402896		33479348		+	2960		
protein_coding	interferon gamma receptor 2 [Source:HGNC							
Symbol;Acc:HGNC:5440]			-	1049	1402	1285	702	897
1158	17.35451418		22.44309477		27.00960688			
13.17824098	18.62722207		18.19063528					
ENSG00000008083	332.9611045		281.4284587		363.8598864			
382.2723746	465.7286659		505.5064805		326.0831499			
451.1691737	-0.470185086		0.040084934		0.1841025			JARID2
6	15246296		15522040		+	6015		
protein_coding	jumonji and AT-rich interaction domain containing 2							
[Source:HGNC Symbol;Acc:HGNC:6196]			ARID		367	318	313	
369	408	586	2.987852239		2.505058828			
3.237543054	3.408809866		4.169383963		4.529945765			

ENSG00000227946	33.56828574	41.5947722	33.71225785				
17.61146441	12.55641011	6.901112362	36.29177193				
12.35632896	1.562159736	0.040090612	0.1841025				
AC007383.2	2	206084605	206086564	+	1034		
lincRNA	novel transcript	-	37	47	29		
17	11	8	1.752305681	2.153792003			
1.744955298	0.913567048	0.6539123	0.359749721				
ENSG00000100228	303.9290736	384.9728916	359.2099198				
473.4376022	349.2964994	712.5398514	349.3706283				
511.7579843	-0.552669639	0.040130163	0.184236298		RAB36		
22	23145326	23164350	+	4107			
protein_coding	"RAB36, member RAS oncogene family [Source:HGNC						
Symbol;Acc:HGNC:	9775]"	-	335	435	309	457	306
826	3.994374566	5.018697216	4.681021363				
6.183061139	4.579774386	9.351609481					
ENSG00000096060	780.2358307	587.6367817	657.9702738				
536.6316804	581.0193405	263.9675479	675.2809621				
460.5395229	0.554223909	0.040173635	0.18438802		FKBP5		
6	35573585	35728583	-	10628			
protein_coding	FK506 binding protein 5 [Source:HGNC						
Symbol;Acc:HGNC:	3721]"	-	860	664	566	518	509
306	3.962557608	2.960349414	3.313383705				
2.70825939	2.943835897	1.338754362					
ENSG00000128886	15.42326642	0.884995153	3.48747495		0		
0	0	6.598578841	0	5.157247737			
0.040181013	1	ELL3	15	43772600	43777543		
-	2880	protein_coding	elongation factor for RNA				
polymerase II 3	[Source:HGNC	Symbol;Acc:HGNC:23113]"	-		17		
1	3	0	0	0	0.289058082		
0.016452578	0.064809044	0	0	0			
ENSG00000184436	820.1548732	1238.993214	967.1930527				
1062.903676	1414.308375	1549.299725	1008.78038				
1342.170592	-0.411963463	0.04023596	0.184626173		THAP7		
22	20999104	21002196	-	2879			
protein_coding	THAP domain containing 7 [Source:HGNC						
Symbol;Acc:HGNC:	23190]"	THAP	904	1400	832	1026	1239
1796	15.37642765	23.04160947	17.97995117				
19.80239593	26.45312607	29.00652383					
ENSG00000162889	3081.931531	3309.881873	3563.036907				
3276.768349	4441.544703	4733.300441	3318.283437				
4150.537831	-0.323123945	0.040316131	0.184946071				
MAPKAPK2	1	206684944	206734283	+	4195		
protein_coding	mitogen-activated protein kinase-activated						
protein kinase 2	[Source:HGNC	Symbol;Acc:HGNC:6887]"	-		3397		
3740	3065	3163	3891	5487	39.65448055		
42.24410154	45.45748042	41.89664726	57.01335863				
60.81826312							
ENSG00000113739	448.1819772	768.1757929	1165.979125				
536.6316804	342.4475485	665.0947039	794.1122983				
514.7246442	0.62324488	0.040347585	0.185017458		STC2		

5	173314713	173329503	-	6128	
protein_coding	stanniocalcin 2	[Source:HGNC	Symbol;Acc:HGNC:11374]		
-	494 868	1003 518	300	771	
3.947633955	6.71162077	10.18331137	4.697026893		
3.009191721	5.850145122				
ENSG00000100227	2521.250434	2469.136477	2543.53173		
2450.06549	3296.6284	3763.694155	2511.306214		
3170.129348	-0.336361617	0.040352612	0.185017458		
POLDIP3 22	42583721	42614962	-	3650	
protein_coding	DNA polymerase delta interacting protein 3				
[Source:HGNC	Symbol;Acc:HGNC:23782]	-	2779	2790	2188
2365	2888 4363	37.28416024	36.21911044		
37.29591787	36.00396445	48.63530958	55.5806174		
ENSG00000169193	327.5175987	323.0232309	281.3229793		
335.6537923	543.3501102	442.5338302	310.6212696		
440.5125776	-0.502547975	0.040376159	0.18507745		
CCDC126 7	23597379	23644708	+	3550	
protein_coding	coiled-coil domain containing 126	[Source:HGNC			
Symbol;Acc:HGNC:22398]	-	361 365	242 324	476	
513	4.97974991	4.87181684	4.241249872		
5.071409745	8.241873792	6.71923809			
ENSG00000103855	2533.044697	2554.096012	3547.924515		
2166.210123	2349.190182	2351.554037	2878.355075		
2288.984781	0.329959793	0.040388688	0.185086917	CD276	
15	73683966	73714518	+	5542	
protein_coding	CD276 molecule	[Source:HGNC	Symbol;Acc:HGNC:19137]		
-	2792 2886	3052 2091	2058 2726		
24.67047867	24.674948	34.26295804	20.96522632		
22.82581059	22.87127355				
ENSG00000197050	128.8296372	129.2092924	158.0988644		
187.5102976	332.174122	160.4508624	138.712598		
226.7117607	-0.707724594	0.040410418	0.185138536	ZNF420	
19	37007857	37130314	+	4023	
protein_coding	zinc finger protein 420	[Source:HGNC			
Symbol;Acc:HGNC:20649]	zf-C2H2 142 146	136 181	291		
186	1.728490494	1.719607236	2.103273366		
2.500003323	4.446213537	2.149779562			
ENSG00000150627	261.2882782	187.6189725	140.6614896		
378.1285006	251.1282022	282.0829678	196.5229134		
303.7798902	-0.625920152	0.040461189	0.18529574	WDR17	
4	176065834	176182818	+	7808	
protein_coding	WD repeat domain 17	[Source:HGNC			
Symbol;Acc:HGNC:16661]	-	288 212	121 365	220	
327	1.806264584	1.286537641	0.964167331		
2.597557102	1.731929607	1.947327362			
ENSG00000165006	894.5494525	979.6896345	789.3318303		
925.1198659	1297.876209	1243.062864	887.8569724		
1155.35298	-0.379273509	0.040473469	0.18529574	UBAP1	
9	34179005	34252523	+	2772	
protein_coding	ubiquitin associated protein 1	[Source:HGNC			

Symbol;Acc:HGNC:12461]	-	986	1107	679	893	1137
1441	17.41856496	18.92260117		15.23994483		
17.90071081	25.21242382	24.1713982				
ENSG00000100345	15869.6339	16109.56677		17723.34769		
15406.92346	13816.61709	12179.60068		16567.51612		
13801.04707	0.263594488	0.040476157		0.18529574		MYH9
22	36281277	36388067		-	9012	
protein_coding	myosin heavy chain 9 [Source:HGNC					
Symbol;Acc:HGNC:7579]	-	17492	18203	15246	14872	12104
14119	95.04887243	95.7079969		105.2547197		
91.69807894	82.55722606	72.84735259				
ENSG00000261188	78.02358307	96.46447169		81.37441549		
162.6470537	108.4417237	160.4508624		85.28749009		
143.8465466	-0.754907061	0.040559555		0.185629488		
Z95115.1	22	26512537	26514568	+		2032
antisense	uncharacterized LOC100507599 [Source:NCBI					
gene;Acc:100507599]	-	86	109	70	157	95
186	2.072542434	2.541728948		2.143291211		
4.293267931	2.873738603	4.256182667				
ENSG00000184588	226.8127415	153.1041615		253.4231797		
171.9707702	113.007691	103.5166854		211.1133609		
129.4983822	0.704466425	0.04059309		0.18573491		PDE4B
1	65792514	66374579		+	8644	
protein_coding	phosphodiesterase 4B [Source:HGNC					
Symbol;Acc:HGNC:8781]	-	250	173	218	166	99
120	1.416295692	0.94832628		1.569092628		
1.067100623	0.703992118	0.645501872				
ENSG00000123094	1089.60841	779.6807299		1091.579659		
1345.723075	1191.717469	1276.705787		986.9562664		
1271.38211	-0.36612683	0.040622196		0.185776466		RASSF8
12	25959029	26079892		+	7619	
protein_coding	Ras association domain family member 8 [Source:HGNC					
Symbol;Acc:HGNC:13232]	-	1201	881	939	1299	1044
1480	7.71922531	5.479038797		7.667865127		
9.473778382	8.422671938	9.032225255				
ENSG00000185122	2537.580952	2872.694267		2917.854041		
2735.992795	3542.049143	4295.079806		2776.043087		
3524.373915	-0.344691266	0.040623177		0.185776466		HSF1
8	144291591	144314722		+	5307	
protein_coding	heat shock transcription factor 1 [Source:HGNC					
Symbol;Acc:HGNC:5224]	HSF	2797	3246	2510	2641	3103
4979	25.80905257	28.98183427		29.42601693		
27.6523062	35.94016347	43.62385657				
ENSG00000140526	3964.686721	3479.800942		4639.504175		
3692.191716	2851.446587	3157.258906		4027.997279		
3233.632403	0.316545325	0.040651549		0.185858166		ABHD2
15	89087459	89202360		+	10345	
protein_coding	abhydrolase domain containing 2 [Source:HGNC					
Symbol;Acc:HGNC:18717]	-	4370	3932	3991	3564	2498
3660	20.6861479	18.00982343		24.00258849		

19.14340749	14.84257661	16.45059492				
ENSG00000128626	1075.092395	1673.525835	1576.338677			
1530.125467	1948.526551	2240.273601	1441.652302			
1906.308539	-0.403552126	0.040678494	0.185933303	MRPS12		
19	38930548	38933162	+ 2144			
protein_coding	mitochondrial	ribosomal	protein	S12 [Source:HGNC		
Symbol;Acc:HGNC:10380]	-	1185	1891	1356	1477	1707
2597	27.06588629	41.79200321	39.34972985			
38.27963234	48.93911374	56.32201537				
ENSG00000270885	4.53625483	3.539980612	10.46242485	0		
0	0	6.17955343	0	5.056412311		
0.040685221	1	RASL10B	17	35731649	35743521	
+	3502	protein_coding	RAS	like	family	10 member B
[Source:HGNC	Symbol;Acc:HGNC:30295]	-	5	4	9	
0	0	0	0.069916961	0.054121558		
0.159894386	0	0	0			
ENSG00000173452	3.629003864	15.92991276	18.5998664	0		
3.424475485	0	12.71959434	1.141491828			
3.542113271	0.040734911	0.186143073	TMEM196	7		
19719310	19773598	-	4087	protein_coding		
transmembrane	protein	196 [Source:HGNC	Symbol;Acc:HGNC:22431]	-		
4	18	16	0	3	0	0.047927418
0.208686477	0.2435691	0	0.045119469	0		
ENSG00000183778	180.5429422	163.7241033	126.7115898			
133.6399358	78.76293614	38.81875704	156.9928785			
83.74054301	0.911257037	0.040795921	0.186373719			
B3GALT5	21	39556442	39673137	+	14319	
protein_coding	"beta-1,3-galactosyltransferase	5 [Source:HGNC				
Symbol;Acc:HGNC:920]"	-	199	185	109	129	69
45	0.680564154	0.612188941	0.473609773			
0.500597948	0.296199119	0.146127126				
ENSG00000278396	3.629003864	4.424975766	10.46242485	0		
0	0	6.172134826	0	5.05473927		
0.040820046	1	AL122023.1	14	93334528		
93335057	+	530	sense_intronic	"novel transcript,		
sense intronic	UNC79"	-	4	5	9	0
0	0.369583697	0.447013434	1.056509694	0		
0	0					
ENSG00000130052	845.5579003	702.6861516	790.4943219			
510.732468	660.9237685	616.7869174	779.5794579			
596.147718	0.387051338	0.040824985	0.186458341	STARD8		
X	68647666	68725842	+	5558		
protein_coding	StAR related	lipid transfer	domain	containing	8	
[Source:HGNC	Symbol;Acc:HGNC:19161]	-	932	794	680	
493	579	715	8.211567241	6.769060579		
7.611972609	4.928791201	6.403352078	5.981615837			
ENSG00000143493	1904.319778	1772.645292	1628.650801			
2231.476138	2285.26664	1984.932443	1768.538624			
2167.225074	-0.292613858	0.040854674	0.186545772	INTS7		
1	211940399	212035542	-	5311		



protein_coding	integrator complex subunit 7	[Source:HGNC					
Symbol;Acc:HGNC:24484]	-	2099	2003	1401	2154	2002	
2301	19.35373636	17.87026895	16.41227104				
22.53623907	23.1704854	20.1451885					
ENSG00000124299	1296.46163	1214.21335	1740.25	1020.428967			
	1204.273879	1070.535055	1416.974993	1098.412634			
	0.366765385	0.040890402	0.186660726	PEPD	19		
	33386950	33521794	-	4157	protein_coding		
	peptidase D [Source:HGNC Symbol;Acc:HGNC:8840]					-	1429
	1372	1497	985	1055	1241	16.83375057	
15.63869565	22.40518955	13.16643652	15.59982747				
13.88106459							
ENSG00000264049	1.814501932	0	0	10.35968495			
13.69790194	5.175834272	0.604833977					
9.74447372	-3.958608066	0.040958844	0.186899937				
MIR4737	17	60043025	60043105	-	81	miRNA	
	microRNA 4737 [Source:HGNC Symbol;Acc:HGNC:41669]					-	
	2	0	0	10	12	6	
	0	0	6.860045951	9.106334255	3.444270481		
ENSG00000105808	0	0	0	10.35968495	0		
11.21430759	0	7.191330846	-5.325465368	0.04096128			
	1	RASA4	7	102573807	102616757	-	
	8077	protein_coding	RAS p21 protein	activator 4			
	[Source:HGNC Symbol;Acc:HGNC:23181]					-	0
	10	0	13	0	0	0.068795806	
	0	0.074838364					
ENSG00000162391	11.79426256	15.0449176	10.46242485				
22.79130689	53.65011592	33.64292277	12.43386834				
36.69478186	-1.555319971	0.040963936	0.186899937				
FAM151A	1	54609182	54623556	-	2005		
protein_coding	family with sequence similarity			151 member A			
	[Source:HGNC Symbol;Acc:HGNC:25032]					-	13
	22	47	39	0.317510183	0.401754718		
0.279276877	0.60970583	1.440890046	0.904443097				
ENSG00000226803	17.23776835	11.50493699	19.76235805				
40.4027713	52.5086241	34.50556181	16.16835446				
42.47231907	-1.39655033	0.040990305	0.186972021				
ZNF451-AS1	6	57114894	57174236	-	4918		
	antisense ZNF451 regulatory antisense RNA 1 [Source:HGNC						
	Symbol;Acc:HGNC:53824]					-	19
	40	0.189188076	0.125251019	0.215063765	39	46	
0.440644269	0.574932246	0.37818342					
ENSG00000228286	0	0	0	0	26.7418104		
	0	8.913936801	-5.637208252	0.041019927			
0.187058905	AP000593.2	11	72249856	72251288			
	-	1433	processed_pseudogene	"docking protein 1,			
	62kDa (downstream of tyrosine kinase 1) (DOK1) pseudogene"					-	
	0	0	0	0	31	0	
	0	0	0	1.005880807			
ENSG00000133103	786.5865875	569.9368786	814.9066466				

526.2719954	577.5948651	526.2098176	723.8100376	
543.3588927	0.413230424	0.041139937	0.187557821	COG6
13	39655627	39791665	+ 8051	
protein_coding	component of oligomeric golgi complex 6 [Source:HGNC			
Symbol;Acc:HGNC:18621]	-	867 644	701 508	506
610	5.273487906	3.790203092	5.417202097	
3.506113163	3.863207632	3.522986885		
ENSG00000166333	70.76557535	86.72952501	112.76169	
10.35968495	74.19696883	27.60444945	90.0855968	
37.38703441	1.274138158	0.041163759	0.187618071	ILK
11	6603708 6610874	+ 3484	protein_coding	
integrin linked kinase	[Source:HGNC Symbol;Acc:HGNC:6040]			-
78	98 97	10 65	32	1.096339698
1.332828805	1.732209574	0.159490161	1.146786497	
0.427073722				
ENSG00000207725	2.721752898	2.654985459	0	5.179842475
15.98088559	21.56597613	1.792246119	14.24223473	
-2.954069393	0.041201995	0.187743972	MIR222	X
45747015	45747124	-	110	miRNA
microRNA 222	[Source:HGNC Symbol;Acc:HGNC:31602]			- 3
3	0 5	14 25	1.335541086	
1.292275202	0	2.525744191	7.823168973	10.56764807
ENSG00000157445	19.95952125	20.35488852	62.77454909	
17.61146441	0 0	34.36298629	5.870488138	
2.55140434	0.041223778	0.187794854	CACNA2D3	3
54122547	55074557	+	4670	protein_coding
calcium voltage-gated channel auxiliary subunit alpha2delta 3				
[Source:HGNC Symbol;Acc:HGNC:15460]	-	22	23	54
17	0 0	0.230693036	0.2333659	
0.719422019	0.202275873	0 0		
ENSG00000108255	8.165258694	0	13.9498998	0 0
0	7.371719498	0	5.310936604	0.041257436
1	CRYBA1 17	29246863	29254494	+
794	protein_coding	crystallin beta A1	[Source:HGNC	
Symbol;Acc:HGNC:2394]	-	9 0	12 0	0 0
0	0.555073751	0	0.940302499	0 0
0				
ENSG00000185000	476.3067571	726.5810207	568.4584168	
722.0700409	732.8377537	937.6886422	590.4487315	
797.5321456	-0.434095141	0.04128155	0.187974977	DGAT1
8	144314584	144326910	- 4131	
protein_coding	diacylglycerol 0-acyltransferase 1 [Source:HGNC			
Symbol;Acc:HGNC:2843]	-	525 821	489 697	642
1087	6.223472746	9.417039736	7.364792423	
9.375396133	9.552723189	12.23503926		
ENSG00000115419	4849.256413	3694.854764	3765.310454	
3643.501197	3482.691568	2612.071029	4103.140544	
3246.087931	0.338447814	0.041291405	0.187974977	GLS
2	190880827	190965552	+ 9827	
protein_coding	glutaminase [Source:HGNC Symbol;Acc:HGNC:4331]			-

	5345	4175	3239	3517	3051	3028	26.63516779
	20.13084313		20.50675008		19.88673359		19.08396502
	14.32735206						
ENSG00000102606	1854.420974		1624.851101		1677.475451		
2300.886027	1929.12119		2096.21288		1718.915842		
2108.740032	-0.294911808		0.041295198		0.187974977		
ARHGEF7 13	111114559		111305737		+	11768	
protein_coding	Rho guanine nucleotide exchange factor 7 [Source:HGNC						
Symbol;Acc:HGNC:15607]	-		2044	1836	1443	2221	1690
	2430	8.505638394	7.392587234		7.629050997		
10.48716117	8.827371517		9.601401525				
ENSG00000197852	10.88701159		52.21471403		26.73730795		
6.215810969	12.55641011		0	29.94634452		6.257407026	
	2.282400654	0.041310048		0.187994194		INKA2 1	
	111680630	111739424		-	6290	protein_coding	
	inka box actin regulator 2 [Source:HGNC Symbol;Acc:HGNC:28045]						
	-	12	59	23	6	11	0
0.093424178	0.444455011		0.227501381		0.053004489		
0.107495281	0						
ENSG00000131023	1020.657337		923.9349399		952.0806613		
1459.679609	1216.830289		1035.166854		965.5576459		
1237.225584	-0.357144106		0.041339861		0.188081481		LATS1
	6	149658153	149718256		-	8643	
protein_coding	large tumor suppressor kinase 1 [Source:HGNC						
Symbol;Acc:HGNC:6514]	-		1125	1044	819	1409	1066
	1200	6.37406801	5.723509744		5.895575907		
9.05854662	7.581236623		6.455765567				
ENSG00000170310	413.7064405		557.5469465		619.6080494		
693.0629231	851.5529038		619.3748345		530.2871454		
721.3302205	-0.44412788		0.041432014		0.188452274		STX8
	17	9250471	9576591	-	3779	protein_coding	
syntaxin 8 [Source:HGNC	Symbol;Acc:HGNC:11443]						
	-				456	630	
	533	669	746	718	5.909035979	7.899327112	
	8.775202834	9.836968246	12.13414822		8.834430743		
ENSG00000097021	3035.661732		3460.331049		3768.797929		
2657.259189	2972.444721		2815.653844		3421.596903		
2815.119251	0.281283224		0.041461211		0.18851179		ACOT7
	1	6264269	6394391	-	4124	protein_coding	acyl-
CoA thioesterase 7 [Source:HGNC	Symbol;Acc:HGNC:24157]						
	-						3346
	3910	3242	2565	2604	3264	39.73159168	
44.92463338	48.91039841		34.56055885		38.81232716		
36.80124503							
ENSG00000188130	506.246039		586.7517865		497.5464262		
302.5028005	420.0689928		437.357996		530.1814172		
386.6432631	0.45546601		0.041475916		0.18851179		MAPK12
	22	50245450	50261825		-	9424	
protein_coding	mitogen-activated protein kinase 12 [Source:HGNC						
Symbol;Acc:HGNC:6874]	-		558	663	428	292	368
	507	2.89952999	3.333532486		2.825630295		
1.721708477	2.400268919		2.50151839				

ENSG00000139826	607.8581472	643.3914763	528.9337007		
757.2929698	759.0920657	776.3751407	593.3944414		
764.2533921	-0.364126897	0.04147707	0.18851179	ABHD13	
13	108218379	108234255	+ 5338		
protein_coding	abhydrolase domain containing 13 [Source:HGNC				
Symbol;Acc:HGNC:20293]	-	670 727	455 731	665	
900	6.146457978	6.453306349	5.303220366		
7.609407658	7.657560488	7.839619024			
ENSG00000144233	671.3657148	850.4803421	759.1070474		
875.3933782	1132.359894	946.3150327	760.3177015		
984.6894348	-0.372526731	0.041499284	0.188564305		
AMMECR1L	2	127861630	127885922	-	4761
protein_coding	AMMECR1 like [Source:HGNC				
Symbol;Acc:HGNC:28658]	-	740 961	653 845	992	
1097	7.611359268	9.564266019	8.533394948		
9.862126551	12.80739638	10.71369958			
ENSG00000172250	8.165258694	19.46989337	8.137441549		
1.035968495	0	2.587917136	11.92419787	1.207961877	
3.253205763	0.041527392	0.188642538	SERHL	22	
42500579	42512560	+ 1742			
transcribed_unitary_pseudogene	serine hydrolase-like (pseudogene)				
[Source:HGNC	Symbol;Acc:HGNC:14408]	-	9 22	7	
1	0	3	0.253001469	0.598412933	
0.250009629	0.031898032	0	0.080076323		
ENSG00000110497	878.2189351	970.839683	1118.316967		
1079.479172	1127.793926	1762.371569	989.1251951		
1323.214889	-0.421219296	0.041537831	0.188642538	AMBRA1	
11	46396414	46594125	- 7673		
protein_coding	autophagy and beclin 1 regulator 1 [Source:HGNC				
Symbol;Acc:HGNC:25990]	-	968 1097	962 1042	988	
2043	6.177871101	6.774353732	7.800397249		
7.545961141	7.914784719	12.38038603			
ENSG00000214026	712.1920083	626.5765684	790.4943219		
880.5732207	1451.977605	681.4848458	709.7542995		
1004.678557	-0.500695766	0.041570771	0.188719628	MRPL23	
11	1947278	1984522	+ 2975	protein_coding	
mitochondrial ribosomal protein	L23 [Source:HGNC				
Symbol;Acc:HGNC:10322]	-	785 708	680 850	1272	
790	12.92145354	11.27645857	14.22095589		
15.87610634	26.2813398	12.34727552			
ENSG00000103496	589.7131279	978.8046394	697.4949899		
837.0625439	1063.870384	1180.952853	755.3375857		
1027.29526	-0.44348018	0.041576143	0.188719628	STX4	
16	31032889	31042975	+ 4078		
protein_coding	syntaxin 4 [Source:HGNC				
Symbol;Acc:HGNC:11439]	-	650 808	932 1369	7.805393794	
650	1106	600	808	932	1369
12.85092374	9.153999314	11.00971769	14.04805022		
15.6094372					
ENSG00000126003	714.9137612	570.8218738	623.0955243		
789.4079931	826.4400836	839.3477911	636.2770531		

818.3986226	-0.363141403	0.041589105	0.188730035	PLAGL2
20	32192503	32207791	- 5705	
protein_coding	PLAG1 like zinc	finger 2 [Source:HGNC		
Symbol;Acc:HGNC:9047]	zf-C2H2	788 645	536 762	724
973	6.763932303	5.357109293	5.845423585	
7.421836217	7.800640754	7.930274305		
ENSG00000151743	87.09609273	130.0942875	116.249165	
168.8628647	164.3748233	199.2696195	111.1465151	
177.5024358	-0.676800664	0.041640219	0.188913527	AMN1
12	31671137	31729174	- 3195	
protein_coding	antagonist of mitotic exit network 1 homolog			
[Source:HGNC Symbol;Acc:HGNC:27281]		-	96 147	100
163	144 231	1.471394248	2.180082421	
1.947313991	2.834841524	2.770377745	3.361802033	
ENSG00000272442	9.979760626	6.194966072	2.3249833	0
0	0	6.166569999	0	5.061036244
0.041663272	1	AL353588.1	6	44273194
44378957	+	3513	protein_coding	"novel protein,
TMEM151B-SPATS1	readthrough"	-	11	7 2 0
0	0	0.153335678	0.09441616	0.035420827
0	0	0		
ENSG00000063660	403.7266799	500.9072567	628.9079826	
400.9198075	410.9370581	251.0279622	511.1806397	
354.2949426	0.529599618	0.041704595	0.18915023	GPC1
2	240435671	240468078	+ 6516	
protein_coding	glypican 1 [Source:HGNC Symbol;Acc:HGNC:4449]			-
445	566 541	387 360	291	3.344318405
4.115871396	5.165626913	3.300212714	3.396008631	
2.076552576				
ENSG00000009307	21785.81745	18519.40857	21719.99399	
19619.17136	16616.69654	14805.47393	20675.07334	
17013.78061	0.281203998	0.041713779	0.18915023	CSDE1
1	114716913	114758676	- 5778	
protein_coding	cold shock domain containing E1 [Source:HGNC			
Symbol;Acc:HGNC:29905]	CSD	24013 20926	18684 18938	14557
17163	203.5155355	171.6070495	201.186654	
182.1246031	154.8608735	138.1168558		
ENSG00000105655	35.38278767	24.77986429	29.06229125	
70.44585765	117.5736583	26.7418104	29.74164774	
71.58710879	-1.262653802	0.04173027	0.189176509	ISYNA1
19	18434388	18438301	- 3284	
protein_coding	inositol-3-phosphate synthase 1 [Source:HGNC			
Symbol;Acc:HGNC:29821]		-	39 28	25 68
31	0.581554127	0.403999961	0.473634912	103
1.150582616	1.927886386	0.438924238		
ENSG00000078018	44.45529733	89.38451047	110.4367067	
43.51067679	44.5181813	5.175834272	81.42550485	
31.06823079	1.396988432	0.041758442	0.189239434	MAP2
2	209424058	209734118	+ 11559	
protein_coding	microtubule associated protein 2 [Source:HGNC			

Symbol;Acc:HGNC:6839]	-	49	101	95	42	39
6	0.207589078	0.414025939	0.511340496			
0.201902209	0.207391859	0.024135817				
ENSG00000143162	1555.028156	1617.77114	1550.763861			
1502.154318	1200.849403	977.3700383	1574.521052			
1226.791253	0.360656417	0.041765546	0.189239434			CREG1
1	167529117	167553805	-		3286	
protein_coding	cellular repressor of E1A stimulated genes 1					
[Source:HGNC Symbol;Acc:HGNC:2351]	-	1714	1828			1334
1450	1052	1133	25.54300227	26.35937285		
25.25777657	24.51954951	19.67866085	16.03220911			
ENSG00000239672	1724.684086	2087.703566	2152.934536			
1465.89542	1706.530283	1636.426269	1988.440729			
1602.950657	0.310674922	0.041792212	0.189311764			NME1
17	51153536	51162428	+		3438	
protein_coding	NME/NM23 nucleoside diphosphate kinase 1 [Source:HGNC					
Symbol;Acc:HGNC:7849]	-	1901	2359	1852	1415	1495
1897	27.07727328	32.51236107	33.5152109			
22.86981288	26.72899812	25.65620852				
ENSG00000124635	14.51601546	25.66485944	53.4746159			
13.46759043	6.848950969	0	31.21849693	6.772180468		
2.215148905	0.04180947	0.189341455				HIST1H2BJ
6	27125897	27132750	-		950	
protein_coding	histone cluster 1 H2B family member j [Source:HGNC					
Symbol;Acc:HGNC:4761]	-	16	29	46	13	6
0	0.824755197	1.446441366	3.012597234			
0.760381935	0.388217408	0				
ENSG00000196678	592.4348808	429.2226493	368.509853			
352.2292883	248.8452185	364.0336771	463.3891277			
321.702728	0.526160561	0.041834927	0.189341578			ERI2
16	20780193	20900349	-		6761	
protein_coding	ERI1 exoribonuclease family member 2 [Source:HGNC					
Symbol;Acc:HGNC:30541]	-	653	485	317	340	218
422	4.729670967	3.399047577	2.917125898			
2.794345001	1.981951021	2.902234719				
ENSG00000149547	3540.093269	3352.36164	3227.07682			
3720.162865	4092.248204	4315.783144	3373.177243			
4042.731404	-0.261196671	0.041838152	0.189341578			EI24
11	125569216	125584687	+		3558	
protein_coding	"EI24, autophagy associated transmembrane protein					
[Source:HGNC Symbol;Acc:HGNC:13276]"	-	3902	3788			2776
3591	3585	5003	53.70441681	50.44643348		
48.54230164	56.08174328	61.93420631	65.38160496			
ENSG00000259956	2230.022874	2504.536283	2627.231129			
2697.661961	2900.530735	3468.671601	2453.930095			
3022.288099	-0.301066651	0.041841609	0.189341578			RBM15B
3	51391268	51397908	+		6641	
protein_coding	RNA binding motif protein 15B [Source:HGNC					
Symbol;Acc:HGNC:24303]	-	2458	2830	2260	2604	2541
4021	18.12496105	20.19200272	21.17297114			

21.7881092	23.51898337	28.15344928					
ENSG00000107140	287.5985562	407.0977704	420.8219773				
397.811902	586.7267997	591.7703851	371.8394346				
525.4363623	-0.499966284	0.041934252	0.189712271	TESK1			
9	35605305	35610041	+	3298			
protein_coding	testis associated actin remodelling kinase 1						
[Source:HGNC Symbol;Acc:HGNC:11731]	-		317	460	362		
384	514	686	4.706925175	6.608967576			
6.829120341	6.469826236	9.579874681	9.671737092				
ENSG00000101955	1450.694295	1547.856523	1935.548597				
1442.068145	1351.526325	1032.578937	1644.699805				
1275.391136	0.366935182	0.042025019	0.190063747	SRPX			
X	38149336	38220924	-	1987			
protein_coding	sushi repeat containing protein X-linked						
[Source:HGNC Symbol;Acc:HGNC:11309]	-	1599	1749	1665	1392	1184	
1197	39.40753593	41.70790572	52.13426046				
38.927222	36.6269871	28.01091537					
ENSG00000284976	363.8076374	507.1022227	378.9722779				
225.8411319	232.8643329	386.4622923	416.6273793				
281.7225857	0.562534724	0.042033432	0.190063747				
BX255925.3	9	137217452	137219361	+		1910	
protein_coding	novel RING finger protein			-		401	
573	326	218	204	448	10.2811025		
14.21502722	10.61918237	6.34213044	6.565142549				
10.90625543							
ENSG00000268758	2.721752898	12.38993214	3.48747495	0			
0	0	6.199719997	0	5.068182265			
0.042146948	1	ADGRE4P 19	6952500	6997872	-	3321	
transcribed_unprocessed_pseudogene	"adhesion G protein-						
coupled receptor E4, pseudogene	[Source:HGNC Symbol;Acc:HGNC:19240]"						
-	3	14	3	0	0	0	
0.044236531	0.199749454	0.056202965	0	0	0		
ENSG00000008130	1572.265924	1385.017415	1499.614228				
1340.543232	1172.312108	1048.969079	1485.632522				
1187.274806	0.323772042	0.042163594	0.190470401	NADK			
1	1751232	1780457	-	5570	protein_coding	NAD	
kinase	[Source:HGNC Symbol;Acc:HGNC:29831]				-	1733	1565
1290	1294	1027	1216	15.23603814	13.31329599		
14.40924951	12.90895613	11.33346241	10.15101333				
ENSG00000103202	2288.994187	2691.270261	2700.468103				
2134.095099	2074.090652	2123.817329	2560.244184				
2110.667694	0.278354761	0.042164041	0.190470401	NME4			
16	396725	410367	+	3670	protein_coding	NME/	
NM23 nucleoside diphosphate kinase 4	[Source:HGNC						
Symbol;Acc:HGNC:7852]	-	2523	3041	2323	2060	1817	
2462	33.66509697	39.26239579	39.3812949				
31.1898438	30.43240138	31.19270245					
ENSG00000120265	1207.551036	1354.927579	1449.627087				
1076.371266	1118.661992	1029.99102	1337.368568				
1075.008093	0.314906676	0.042168463	0.190470401	PCMT1			

6	149749443	149811420	+	2832	
protein_coding	protein-L-isoaspartate (D-aspartate) 0-				
methyltransferase	[Source:HGNC Symbol;Acc:HGNC:8728]			-	1331
1531	1247	1039	980	1194	23.01513306
25.61582706	27.39555172	20.38610901	21.27062186		
19.60388273					
ENSG00000274565	64.41481858	28.3198449	51.1496326		
22.79130689	0	17.25278091	47.96143203	13.34802926	
1.835790302	0.042170113	0.190470401	AC080038.1		
17	62626437	62627590	-	1154	
antisense	novel transcript			-	71
22	0	20	3.012875761	1.313925104	44
2.372213179	1.059324253	0	0.805851846		
ENSG00000114383	807.4533597	960.2197411	694.007515		
910.616307	1028.484137	1312.073988	820.5602053		
1083.724811	-0.401091764	0.042177204	0.190470401	TUSC2	
3	50320027	50328251	-	2406	
protein_coding	"tumor suppressor 2, mitochondrial calcium regulator				
[Source:HGNC Symbol;Acc:HGNC:17034]"				-	890
879	901	1521	18.11436303	21.3678367	597
15.43780514	20.30043274	23.01847396	29.39440064		
ENSG00000177169	1302.812387	1335.457686	2056.447729		
1045.292211	1277.329356	1236.161752	1564.905934		
1186.261106	0.398738799	0.042210011	0.190533774	ULK1	
12	131894651	131923167	+	7608	
protein_coding	unc-51 like autophagy activating kinase 1 [Source:HGNC				
Symbol;Acc:HGNC:12558]				-	1436
1433	9.242992902	9.398210686	14.46652346	1769	1009
7.369409773	9.040801684	8.758035568			1119
ENSG00000131781	27.21752898	21.23988367	12.78740815		
56.97826722	27.39580388	72.4616798	20.41494027		
52.27858363	-1.353468373	0.04221278	0.190533774	FM05	
1	147175351	147243050	-	5986	
protein_coding	flavin containing monooxygenase 5 [Source:HGNC				
Symbol;Acc:HGNC:3773]				-	30
84	0.24542185	0.189976976	0.114330689	11	55
0.510549694	0.246446066	0.652489597			24
ENSG00000233846	0.907250966	8.849951531	9.299933199		0
0	0	6.352378565	0	5.098087564	
0.04221471	1	SELENOTP1	9	6278667	6279153
487	processed_pseudogene		selenoprotein T pseudogene 1	+	
[Source:HGNC Symbol;Acc:HGNC:53722]				-	1
0	0	0	0.100554086	0.972965586	8
1.022039951	0	0	0		
ENSG00000001084	857.3521629	898.2700804	820.7191048		
1020.428967	1046.748006	1159.386877	858.7804494		
1075.521284	-0.324704184	0.042330472	0.191016256	GCLC	
6	53497341	53616970	-	8646	
protein_coding	glutamate-cysteine ligase catalytic subunit				
[Source:HGNC Symbol;Acc:HGNC:4311]				-	945
				1015	706



985	917	1344	5.352359315	5.562592576		
5.08038139	6.330427553		6.519307478	7.227948602		
ENSG00000107890	704.0267496		436.3026105	480.1090514		
367.7688157	482.8510433		251.0279622	540.1461372		
367.2159404	0.559211559		0.042374314	0.191165326		
ANKRD26 10	26991914		27100498	-	7941	
protein_coding	ankyrin repeat domain 26 [Source:HGNC					
Symbol;Acc:HGNC:29186]	-	776	493	413	355	423
291	4.785366542		2.941698534	3.235800235		
2.484077841	3.274255243		1.703918472			
ENSG00000274211	942.6337537		824.8154827	857.9188376		
957.2348893	1261.34847		1128.331871	875.1226913		
1115.63841	-0.34998119		0.042385239	0.191165859		50CS7
17	38352228		38405593	+	8621	
protein_coding	suppressor of cytokine signaling 7 [Source:HGNC					
Symbol;Acc:HGNC:29846]	-	1039	932	738	924	1105
1308	5.90182851		5.12253233	5.326053975		
5.955611636	7.878653361		7.054741696			
ENSG00000084453	0	0	0	5.179842475	0	
16.39014186	0	7.189994778	-5.327193225	0.042435397		
1	SLC01A2 12		21264600	21419594		-
11520	protein_coding solute carrier organic anion					
transporter family member 1A2 [Source:HGNC	Symbol;Acc:HGNC:10956]					
-	0	0	0	5	0	19
0	0	0.024117349	0	0.076688835		
ENSG00000135378	302.1145717		274.3484975	211.5734803		
310.7905485	438.332862		381.286458	262.6788498		
376.8032895	-0.518167682		0.042465176	0.191477567		PRRG4
11	32829943		32858123	+	5530	
protein_coding	proline rich and Gla domain 4 [Source:HGNC					
Symbol;Acc:HGNC:30799]	-	333	310	182	300	384
442	2.948816757		2.656213645	2.047637636		
3.014450572	4.268285423		3.716448818			
ENSG00000172183	58.97131279		118.5893505	149.9614228		
196.834014	160.9503478		200.9948975	109.1740287		
186.2597531	-0.775210969		0.042498764	0.191580181		ISG20
15	88636153		88656483	+	7363	
protein_coding	interferon stimulated exonuclease gene 20 [Source:HGNC					
Symbol;Acc:HGNC:6130]	-	65	134	129	190	141
233	0.432301995		0.862335845	1.090038297		
1.433873519	1.177095427		1.471404699			
ENSG00000280670	74.39457921		55.75469465	56.96209084		
39.36680281	21.68834474		1.725278091	62.3704549		
20.92680854	1.584249242		0.042535328	0.191696156		
CCDC163 1	45493866		45500079	-	2757	
protein_coding	coiled-coil domain containing 163 [Source:HGNC					
Symbol;Acc:HGNC:27003]	-	82	63	49	38	19
2	1.456484173		1.082755065	1.105773456		
0.76587673	0.423608041		0.033730614			
ENSG00000158887	17.23776835		33.62981582	4.6499666		0

	6.848950969	0	18.50585026	2.282983656		
3.068265929	0.042548915		0.191708546	MPZ	1	
161304735	161309972	-	2154	protein_coding	myelin	
protein zero [Source:HGNC Symbol;Acc:HGNC:7225]	-	19	38			
4	0	6	0	0.43195309	0.835919273	
	0.115537014	0	0.171219377	0		
ENSG00000251768	0	0	0	0	13.69790194	
7.763751407	0	7.153884449	-5.313170154	0.042571272		
1	RNA5SP217	6	127317883	127317973		
-	91	rRNA_pseudogene	"RNA, 5S ribosomal pseudogene			
217 [Source:HGNC Symbol;Acc:HGNC:43117]"	-	0	0			
0	0	12	9	0	0	0
	8.105638183	4.59866883				
ENSG00000138356	1475.190071	1110.668917	984.6304275			
2076.080864	1283.036815	1435.431371	1190.163138			
1598.183017	-0.42476191	0.042581943	0.191808504	A0X1		
2	200585868	200677064	+	5556		
protein_coding	aldehyde oxidase 1 [Source:HGNC Symbol;Acc:HGNC:553]					
-	1626	1255	847	2004	1124	1664
14.33134621	10.70305925	9.484796555	20.0422984			
12.43516163	13.92586251					
ENSG00000173599	951.7062633	974.3796636	888.1436205			
792.5158986	793.3368206	590.907746	938.0765158			
725.5868217	0.372008677	0.042605889	0.191867507	PC		
11	66848233	66958376	-	5927		
protein_coding	pyruvate carboxylase [Source:HGNC Symbol;Acc:HGNC:8636]	-	1049	1101	764	765
685	8.667008939	8.80194869	8.019832133	695		
7.171971442	7.207708887	5.37386389				
ENSG00000203950	1705.631816	1842.559909	1911.136272			
2117.519604	2292.115591	2196.279009	1819.775999			
2201.971401	-0.27520427	0.042640268	0.191933387	RTL8A		
X	135050932	135052196	-	1265		
protein_coding	retrotransposon Gag like 8A [Source:HGNC Symbol;Acc:HGNC:24514]	-	1880	2082	1644	2044
2546	72.77731137	77.98599912	80.85709503	2008		
89.78471524	97.57095217	93.58341559				
ENSG00000158636	614.208904	569.9368786	642.8578824			
514.876342	444.0403212	433.0448007	609.0012217			
463.9871546	0.392173536	0.042642219	0.191933387	EMSY		
11	76444923	76553025	+	11783		
protein_coding	"EMSY, BRCA2 interacting transcriptional repressor [Source:HGNC Symbol;Acc:HGNC:18071]"	-	677	644	553	
497	389	502	2.813594294	2.589741585		
2.919954608	2.343756852	2.029275835	1.980974374			
ENSG00000253508	17.23776835	22.12487883	15.11239145			
7.251779464	0	0	18.15834621	2.417259821		
2.919374778	0.042714971	0.192211934	AC004080.2	7		
	27186573	27193448	-	556	lincRNA novel	
transcript	-	19	25	13	7	0

	1.673429778	2.130549643	1.454706594	0.699576628	
	0	0			
ENSG00000149091	3550.980281	3515.200748	3701.373413		
2450.06549	3006.689475	3318.572407	3589.184814		
2925.109124	0.294871867	0.042759228	0.192310241		DGKZ
11	46332905	46380554	+	10787	
protein_coding	diacylglycerol kinase zeta [Source:HGNC				
Symbol;Acc:HGNC:2857]	-	3914	3972	3184	2365
3847	17.76842061	17.44757211	18.36450501		2634
12.18267083	15.0093696	16.58259621			
ENSG00000115687	498.9880313	426.5676638	374.3223113		
291.1071471	349.2964994	304.511583	433.2926688		
314.9717432	0.461835564	0.042766296	0.192310241		PASK
2	241106099	241150264	-	10686	
protein_coding	PAS domain containing serine/threonine kinase				
[Source:HGNC Symbol;Acc:HGNC:17270]	-		550	482	322
281	306	353	2.520439071	2.137264682	
1.874768071	1.461178232	1.760165956	1.535997659		
ENSG00000236618	29.03203091	17.69990306	24.41232465		
2.07193699	0	11.21430759	23.71475287	4.428748193	
2.384528589	0.042784097	0.192310241		PITPNA-AS1	
17	1516931	1518096	+	542	antisense
antisense RNA 1	[Source:HGNC Symbol;Acc:HGNC:44116]				
20	21	2	0	13	2.891208256
1.748465832	2.41060945	0.205041964	0	1.115257324	
ENSG00000270231	662.2932052	526.5721161	441.746827		
771.7965287	675.7631623	728.0673542	543.5373827		
725.2090151	-0.414831654	0.042792668	0.192310241		NBPF8
1	120436353	120467739	+	5330	
unprocessed_pseudogene	NBPF member 8 [Source:HGNC				
Symbol;Acc:HGNC:31990]	-	730	595	380	745
844	6.706938664	5.289519196	4.435710912		592
7.766781856	6.827187933	7.362855134			
ENSG00000179071	99.79760626	92.03949592	89.51185704		
26.93518087	51.36713227	64.6979284	93.78298641		
47.66674718	0.973485647	0.042797626	0.192310241		CCDC89
11	85684866	85686277	-	1412	
protein_coding	coiled-coil domain containing 89 [Source:HGNC				
Symbol;Acc:HGNC:26762]	-	110	104	77	26
75	3.814930865	3.489997239	3.392836058		45
1.023176825	1.958958236	2.469776107			
ENSG00000114841	171.4704326	217.7088077	109.2742151		
174.0427071	207.7515127	483.0778654	166.1511518		
288.2906951	-0.794839816	0.042802047	0.192310241		DNAH1
3	52316319	52400491	+	13872	
protein_coding	dynein axonemal heavy chain 1 [Source:HGNC				
Symbol;Acc:HGNC:2940]	-	189	246	94	168
560	0.667192887	0.840276984	0.421595164		182
0.672949144	0.806454126	1.877067823			
ENSG00000226367	0.907250966	0	0	0	13.69790194

	12.93958568	0.302416989	8.879162539	-4.664874055	
	0.042871427	0.192573051	ST7-AS2 7	117072072	
	117146480	-	2866 antisense	ST7 antisense	
RNA 2 [Source:HGNC Symbol;Acc:HGNC:16044]			-	1	0
	0	0	12	15	0.017086476
	0	0.257366739	0.24335826		
ENSG00000261366	0	0	0	9.323716454	3.424475485
	5.175834272	0	5.974675403	-5.055150744	
0.042925967	1	MANEA-DT	6	95575183	
95577450	-	2268 antisense		MANEA divergent	
transcript [Source:HGNC Symbol;Acc:HGNC:43732]			-	0	0
	0	9	3	6	0
0.220501477	0.081306556	0.12300966			
ENSG00000100503	1756.43787	1296.517899	1245.028557		
1311.536115	1073.002318	879.8918262	1432.661442		
1088.14342	0.397710352	0.043024697	0.193212454	NIN	
	14	50719763	50831121	-	13683
protein_coding	ninein [Source:HGNC Symbol;Acc:HGNC:14906]				-
	1936	1465	1071	1266	940
	5.073208817	4.86984334	5.141199094	1020	6.928715188
	3.466170031			4.222735573	
ENSG00000100372	709.4702554	823.9304876	732.3697394		
910.616307	1090.124696	893.6940509	755.2568275		
964.8116846	-0.352391944	0.04312854	0.193603137		
SLC25A17	22	40769630	40819399	-	3989
	protein_coding	solute carrier family 25 member 17			
[Source:HGNC Symbol;Acc:HGNC:10987]			-	782	931
	879	955	1036	9.600003697	11.05890393
9.826149326	12.24438234	14.71589551	12.07610102		
ENSG00000133619	175.0994364	215.0538222	172.0487642		
191.6541716	309.3442854	358.8578428	187.4006743		
286.6187666	-0.613002304	0.043133584	0.193603137	KRBA1	
	7	149714781	149734575	+	5337
protein_coding	KRAB-A domain containing 1 [Source:HGNC				
Symbol;Acc:HGNC:22228]		-	193	243	148
	416	1.7708786	2.15742403	1.725326763	185
1.926134318	3.121184549	3.624325093			271
ENSG00000197442	421.8716992	238.9486913	441.746827		
291.1071471	198.6195781	241.5389327	367.5224058		
243.7552193	0.590559641	0.04317165	0.193724841	MAP3K5	
	6	136557047	136792518	-	5303
protein_coding	mitogen-activated protein kinase kinase kinase 5				
[Source:HGNC Symbol;Acc:HGNC:6857]			-	465	270
	281	174	280	4.293979921	2.412506976
4.458295146	2.944399508	2.016856418	2.455090028		
ENSG00000173085	457.2544869	446.0375572	355.7224449		
351.1933198	220.3079228	312.2753344	419.6714963		
294.5921923	0.510260832	0.043208692	0.193841886	COQ2	
	4	83261536	83284914	-	2774
protein_coding	"coenzyme Q2, polyprenyltransferase [Source:HGNC				

Symbol;Acc:HGNC:25223]" -	504	504	306	339	193
362	8.897187915	8.608956642	6.863123538		
6.790555219	4.276595873	6.067826187			
ENSG00000106992	88.0033437	89.38451047	166.2363059		
33.15099184	97.02680539	7.763751407	114.5413867		
45.98051621	1.323835167	0.043234231	0.19390728		AK1
9	127866480	127877743	-	2667	
protein_coding	adenylate kinase 1 [Source:HGNC	Symbol;Acc:HGNC:361]			
-	97	101	143	32	85
1.781055292	1.794422883	3.335952578	0.666713127	9	
1.95903985	0.15690996				
ENSG00000136014	0	0	2.3249833	7.251779464	
12.55641011	10.35166854	0.774994433			
10.05328604	-3.8085224	0.043256634	0.19395858		USP44
12	95516560	95551490	-	5386	
protein_coding	ubiquitin specific peptidase 44 [Source:HGNC				
Symbol;Acc:HGNC:20064]	-	0	0	2	7
12	0	0	0.023103113	0.072217714	11
0.125537564	0.103596698				
ENSG00000182944	4105.310621	4707.289219	4537.20491		
3570.983402	3589.9918	3989.705584	4449.934917		
3716.893595	0.25947543	0.043333005	0.194251781		EWSR1
22	29268009	29300525	+	10326	
protein_coding	EWS RNA binding protein 1 [Source:HGNC				
Symbol;Acc:HGNC:3508]	-	4525	5319	3903	3447
4625	21.45928	24.4075569	23.51653204		3145
18.54903012	18.72129511	20.82622876			
ENSG00000104888	17.23776835	2.654985459	13.9498998		
21.75533839	53.65011592	36.2308399	11.28088454		
37.21209807	-1.726494174	0.043366462	0.194352508		
SLC17A7	19	49442360	-	6013	
protein_coding	solute carrier family 17 member 7 [Source:HGNC				
Symbol;Acc:HGNC:16704]	-	19	3	12	21
42	0.154735898	0.023640491	0.124164341		47
0.194061835	0.480456435	0.324779871			
ENSG00000222019	23.58852512	27.43484975	9.299933199		
6.215810969	4.565967313	0	20.10776935	3.593926094	
	2.510488334	0.043380419	0.194365815	URAHP	16
	90039761	90047773	-	2340	
transcribed_unprocessed_pseudogene		"urate (hydroxyiso-)			
hydrolase, pseudogene [Source:HGNC	Symbol;Acc:HGNC:43695]"				-
26	31	8	6	4	0
0.627729122	0.212706605	0.142477877	0.105073088		
0					
ENSG00000143797	492.6372745	374.3529498	544.0460921		
346.0134773	400.6636317	233.7751813	470.3454388		
326.8174301	0.526484848	0.043395299	0.194383245		MBOAT2
2	8852690	9003813	-	8798	protein_coding
membrane bound	0-acyltransferase domain containing 2 [Source:HGNC				
Symbol;Acc:HGNC:25193]	-	543	423	468	334
					351

271	3.022348605	2.278152805	3.30954844	
2.109475826	2.452282613	1.432241823		
ENSG00000128709	197.7807106	273.4635023	291.7854041	
252.7763128	385.8242379	514.132871	254.3432057	
384.2444739	-0.597478305	0.043409725	0.194398637	HOXD9
2	176122720	176124937	+ 1870	
protein_coding	homeobox D9 [Source:HGNC Symbol;Acc:HGNC:5140]			
Homeobox	218 309	251 244	338 596	
5.708783467	7.829667397	8.351009189	7.25037156	
11.11021476	14.81957235			
ENSG00000171960	585.1768731	780.5657251	710.2823981	
457.8980747	488.5585025	607.2978879	692.0083321	
517.918155	0.41689745	0.043437392	0.194473303	PPIH
1	42658425	42676758	+ 1444	
protein_coding	peptidylprolyl isomerase H [Source:HGNC			
Symbol;Acc:HGNC:14651]	-	645 882	611 442	428
704	21.87364729	28.94195292	26.32575672	
17.00854329	18.21897484	22.66921514		
ENSG00000108883	5887.151518	5635.649135	5944.982298	
6204.415316	7690.230446	6995.140018	5822.594317	
6963.261927	-0.258083946	0.043458805	0.194519941	EFTUD2
17	44849943	44899662	- 10375	
protein_coding	elongation factor Tu GTP binding domain containing 2			
[Source:HGNC Symbol;Acc:HGNC:30858]	-	6489	6368	5114
5989	6737 8109	30.62797982	29.08314645	
30.66757704	32.07585572	39.91405047	36.34211624	
ENSG00000258860	0 0	0 13.46759043	7.990442797	
0	0 7.152677744	-5.311187532	0.043460607	
1	AL133163.2	14 35362232	35363628	
-	624 lincRNA novel transcript	-	0	
0	0 13 7 0 0	0 0 0	0	
1.157632754	0.689542137	0		
ENSG00000175224	1554.120905	1563.786436	1742.574983	
1906.182031	2106.052423	1908.157568	1620.160774	
1973.464007	-0.284787287	0.043474491	0.194540925	ATG13
11	46617527	46674818	+ 7001	
protein_coding	autophagy related 13 [Source:HGNC			
Symbol;Acc:HGNC:29091]	-	1713 1767	1499 1840	1845
2212	11.98190767	11.95922158	13.321355	
14.60393156	16.1988302	14.69115914		
ENSG00000153790	136.9948959	115.0493699	126.7115898	
79.76957411	67.34801786	77.63751407	126.2519519	
74.91836868	0.751748908	0.043600791	0.195056752	
C7orf31 7	25134697	25180356	- 3837	
protein_coding	chromosome 7 open reading frame 31 [Source:HGNC			
Symbol;Acc:HGNC:21722]	-	151 130	109 77	59
90	1.927142511	1.605380539	1.767427245	
1.115092692	0.945164873	1.09064077		
ENSG00000269944	0 0	0 0	9.131934625	
12.07694663	0 7.069627086	-5.298993348	0.043693859	

1	AP001267.4	11	118415977	118416521	
+	545	sense_intronic	novel transcript	-	
0	0	0	8	14	0
0	0	0.90227899	1.194435084		
ENSG00000146463	2023.169654	1777.955263	1818.13694		
1563.276459	1542.15546	1515.656803	1873.087286		
1540.362907	0.282327413	0.043703467	0.195466657	ZMYM4	
1	35268967	35422058	+ 7647		
protein_coding	zinc finger MYM-type containing 4			[Source:HGNC	
Symbol;Acc:HGNC:13055]	-	2230 2009	1564 1509	1351	
1757	14.28046853	12.44845023	12.72484512		
10.96503932	10.85954474	10.68345412			
ENSG00000268912	150.6036604	147.7941906	109.2742151		
198.905951	220.3079228	204.4454537	135.8906887		
207.8864425	-0.61032217	0.043730219	0.19549529		
AC012313.5	19	58428632	58431148	-	2517
lincRNA	novel transcript	-	166 167	94	
192	193 237	3.229635841	3.143834651		
2.323547123	4.238674399	4.713260608	4.378205564		
ENSG00000196912	80.74533597	55.75469465	60.44956579		
24.86324388	39.95221399	27.60444945	65.64986547		
30.80663577	1.09560998	0.043731973	0.19549529		
ANKRD36B	2	97492663	97589965	-	6771
protein_coding	ankyrin repeat domain 36B			[Source:HGNC	
Symbol;Acc:HGNC:29333]	-	89 63	52 24	35	
32	0.643673866	0.440873684	0.477812356		
0.19695657	0.317733196	0.219749645			
ENSG00000166797	951.7062633	964.6447169	1074.142285		
825.6668904	850.411412	665.957343	996.8310882		
780.6785485	0.353140595	0.043765147	0.195594158	CIA02A	
15	64072559	64094018	- 2427		
protein_coding	cytosolic iron-sulfur assembly component 2A				
[Source:HGNC Symbol;Acc:HGNC:26235]	-		1049 1090	924	
797	745 772	21.16578574	21.2805654		
23.68694445	18.24738304	18.86834709	14.79035309		
ENSG00000230091	9.979760626	2.654985459	3.48747495		
7.251779464	42.23519764	23.29125422	5.374073678		
24.25941044	-2.164751671	0.04379746	0.195687639		
TMEM254-AS1	10	80046860	80078912	-	3138
antisense	TMEM254 antisense RNA 1			[Source:HGNC	
Symbol;Acc:HGNC:27340]	-	11 3	3 7	37	
27	0.171659732	0.045299641	0.059480576		
0.123953029	0.724763219	0.400075395			
ENSG00000178567	651.4061936	650.4714375	501.0339011		
803.911552	808.1762143	734.9684666	600.9705107		
782.3520777	-0.378809752	0.043808498	0.195687639		
EPM2AIP1	3	36985043	36993168	-	8126
protein_coding	EPM2A interacting protein 1			[Source:HGNC	
Symbol;Acc:HGNC:19735]	-	718 735	431 776	708	
852	4.326894536	4.285849948	3.299949538		

5.306362888	5.355546567	4.875215245				
ENSG00000137822	688.6034832	592.9467526	659.1327655			
612.2573805	412.07855	401.9897951	646.8943338			
475.4419085	0.444491268	0.043819251	0.195687639			
TUBGCP4 15	43369221	43409771	+	11171		
protein_coding	tubulin gamma complex associated protein 4					
[Source:HGNC Symbol;Acc:HGNC:16691]	-	759	670	567		
591	361	466	3.327196172	2.841902615		
3.157896222	2.939730192	1.986380807	1.939656754			
ENSG00000184675	320.259591	356.6530467	299.9228457			
421.6391774	470.2946332	428.7316055	325.6118278			
440.2218054	-0.433723333	0.043841375	0.195696763	AMER1		
X	64185117	64205744	-	8443		
protein_coding	APC membrane recruitment protein 1 [Source:HGNC					
Symbol;Acc:HGNC:26837]	-	353	403	258	407	412
497	2.047418389	2.261698436	1.90120857			
2.678611096	2.999492546	2.737099703				
ENSG00000216867	3.629003864	6.194966072	8.137441549	0		
0	0	5.987137162	0	5.012891858		
0.043842777	1	RPL22P12	2	110633947		
110634333	+	387	processed_pseudogene	ribosomal		
protein L22 pseudogene 12 [Source:HGNC Symbol;Acc:HGNC:36345]	-					
4	7	7	0	0	0	0.506148215
0.857064518	1.125366341	0	0	0		
ENSG00000089050	801.102603	818.6205166	805.6067134			
1026.644778	962.2776112	1035.166854	808.4432777			
1008.029748	-0.318533166	0.043855421	0.195696763	RBBP9		
20	18486540	18497243	-	3861		
protein_coding	"RB binding protein 9, serine hydrolase [Source:HGNC					
Symbol;Acc:HGNC:9892]"	-	883	925	693	991	843
1200	11.19926666	11.35189517	11.16709677			
14.26217945	13.42069891	14.45148454				
ENSG00000154518	1395.351986	1820.43503	1971.585838			
1344.687106	1265.914437	1481.151241	1729.124285			
1363.917595	0.341436824	0.043857652	0.195696763			
ATP5MC3 2	175176258	175184607	-	6780		
protein_coding	ATP synthase membrane subunit c locus 3 [Source:HGNC					
Symbol;Acc:HGNC:843]	-	1538	2057	1696	1298	1109
1717	11.10849759	14.37576745	15.563347			
10.63792789	10.05423918	11.77529021				
ENSG00000100867	29.93928188	42.47976735	34.8747495			
5.179842475	20.54685291	0	35.76459957	8.575565127		
2.082968838	0.043865547	0.195696763	DHRS2	14		
23630115	23645639	+	7556	protein_coding		
dehydrogenase/reductase 2 [Source:HGNC Symbol;Acc:HGNC:18349]						
-	33	48	30	5	18	0
0.213870396	0.3010064	0.247022295	0.036769701			
0.146429276	0					
ENSG00000280417	9.07250966	3.539980612	17.43737475			
39.36680281	30.82027936	27.60444945	10.01662167			



32.59717721	-1.719260212	0.043886616	0.195741389		
AC096887.2	3	53046166	53048122	+	1957
TEC	TEC	-	10	4	15
32	0.250229125	0.096849104	0.476877992	38	27
1.078958684	0.848047735	0.760309069			
ENSG00000219410	0	0	1.16249165	0	9.131934625
17.25278091	0.387497217	8.794905177	-4.653761492		
0.043932295	0.195895733	AC125494.1	12		
6663260	6672069	+	2399	bidirectional_promoter_lncRNA	novel
transcript	-	0	0	1	0
0	0	0.025934424	0	0.204977928	8
0.387641947					20
ENSG00000203837	0	0	0	12.55641011	
8.626390453	0	7.060933521	-5.294937245	0.043989088	
1	PNLIPRP3	10	116427867	116477957	
+	2354	protein_coding	pancreatic lipase related		
protein 3	[Source:HGNC Symbol;Acc:HGNC:23492]	-	0	0	
0	0	11	10	0	0
0.287232506	0.197526132				
ENSG00000151090	58.06406182	62.83465587	62.77454909		
11.39565344	49.08414861	6.038473317	61.22442226		
22.17275846	1.479030819	0.043992925	0.196116646	THR8	
3	24117153	24495756	-	10968	
protein_coding	thyroid hormone receptor beta	[Source:HGNC			
Symbol;Acc:HGNC:11799]	THR-like	64	71	54	11
43	7	0.285746695	0.306730772	0.306318456	
0.055728491	0.240984092	0.029675744			
ENSG00000250697	7.258007728	2.654985459	8.137441549	0	
0	0	6.016811579	0	5.019786411	
0.044162201	1	AC010343.3	5	32925639	
33297910	-	979	lincRNA novel transcript	-	
8	3	7	0	0	0.400162123
0.145199461	0.444858809	0	0	0	
ENSG00000092470	1204.829283	1028.364368	1021.83016		
903.3645276	851.5529038	839.3477911	1085.007937		
864.7550741	0.327761846	0.044198247	0.19698231	WDR76	
15	43826963	43868419	+	4078	
protein_coding	WD repeat domain 76	[Source:HGNC			
Symbol;Acc:HGNC:25773]	-	1328	1162	879	872
973	15.94701994	13.50160342	13.410609		746
11.88177454	11.24446938	11.09421651			
ENSG00000159733	95.26135143	145.1392051	91.83684034		
171.9707702	157.5258723	207.8960099	110.745799		
179.1308841	-0.692566541	0.044223768	0.197030697		
ZFYVE28	4	2269582	2418663	-	9624
finger FYVE-type	containing 28	[Source:HGNC	Symbol;Acc:HGNC:29334]		
-	105	164	79	166	138
0.534271943	0.807448207	0.510714659	0.958439088	241	
0.881395507	1.164373858				
ENSG00000079335	221.3692357	178.7690209	187.1611556		

146.0715578	140.4034949	74.18695789	195.7664708	
120.2206702	0.707447905	0.044240391	0.197030697	CDC14A
1	100345001	100520278	+ 6511	
protein_coding	cell division cycle 14A [Source:HGNC			
Symbol;Acc:HGNC:1718]	-	244 202	161 141	123
86	1.835146816	1.470043259	1.538455814	
1.203326445	1.161193982	0.614160348		
ENSG00000103415	596.9711356	774.370759	785.8443553	
767.6526547	942.8722501	1152.485764	719.0620833	
954.3368898	-0.409504217	0.04424252	0.197030697	HMOX2
16	4474690 4510347	+ 3793	protein_coding	heme
oxygenase 2 [Source:HGNC	Symbol;Acc:HGNC:5014]	-	658	875
676	741 826	1336	8.495163356	10.93079253
11.08844636	10.85543944	13.38580718	16.37776494	
ENSG00000126882	228.6272434	315.9432697	241.7982632	
137.7838098	152.959905	223.4235127	262.1229254	
171.3890758	0.610981302	0.04426034	0.197060446	FAM78A
9	131258076	131276547	- 5499	
protein_coding	family with sequence similarity 78 member A			
[Source:HGNC	Symbol;Acc:HGNC:25465]	-	252 357	208
133	134 259	2.244117046	3.076174284	
2.353349674	1.343940262	1.497850397	2.190014864	
ENSG00000130811	4470.025509	6093.191629	5361.411489	
5176.734569	7057.843974	7986.312281	5308.209543	
6740.296941	-0.344675217	0.044358076	0.197445901	EIF3G
19	10115017	10119918	- 3486	
protein_coding	eukaryotic translation initiation factor 3 subunit G			
[Source:HGNC	Symbol;Acc:HGNC:3274]	-	4927 6885	4612
4997	6183 9258	69.21239267	93.58430138	
82.31306294	79.65150944	109.023275	123.4868783	
ENSG00000202523	3.629003864	0 0	23.82727538	
23.97132839	0	1.209667955	15.93286792	-3.684982471
0.044403931	0.197600284	RF00019 9	83992932	
83993033	+ 102	misc_RNA	-	
4	0 0	23 21	0 1.920385876	
0	0	12.52967216	12.65512628	0
ENSG00000080293	0 0	0	14.50355893	6.848950969
0	0	7.117503299	-5.304355082	0.044418698
1	SCTR 2	119439843	119525301	-
3426	protein_coding	secretin receptor [Source:HGNC		
Symbol;Acc:HGNC:10608]	-	0 0	0 14	6
0	0 0	0	0.22706632	0.10764931
0				
ENSG00000127054	2263.59116	2559.405983	2344.745658	
2406.554814	3022.670361	3537.682725	2389.2476	
2988.9693	-0.323289036	0.044429576	0.197664679	INTS11
1	1311585 1324691	- 8220	protein_coding	
integrator complex subunit 11 [Source:HGNC	Symbol;Acc:HGNC:26052]			
-	2495 2892	2017 2323	2648 4101	
14.86371659	16.67066452	15.2665508	15.70324606	

19.80129178	23.19791591					
ENSG00000173261	0.907250966	1.769990306	0	18.64743291		
0	18.11541995	0.892413757				
12.25428429	-3.736772088	0.044491118	0.197888708			
PLAC8L1 5	146084386	146104369	-	656		
protein_coding	PLAC8 like 1	[Source:HGNC Symbol;Acc:HGNC:31746]				
-	1 2	0 18	0 21			
0.074649146	0.144461659	0	1.524687042	0		
1.488491893						
ENSG00000068724	545.2578306	494.7122906	441.746827			
364.6609102	408.6540745	327.8028372	493.9056494			
367.039274	0.430296542	0.044572574	0.198201171	TTC7A		
2	46916157	47076137	+	6949		
protein_coding	tetratricopeptide repeat domain 7A	[Source:HGNC Symbol;Acc:HGNC:19750]				
Symbol;Acc:HGNC:19750]	-	601 559	380 352	358		
380	4.235267483	3.811675644	3.402264953			
2.81470183	3.166708408	2.54268349				
ENSG00000069493	53.52780699	36.28480128	34.8747495			
79.76957411	67.34801786	98.34085116	41.56245259			
81.81948104	-0.976612941	0.044626972	0.19839319	CLEC2D		
12	9664969 9699555	+	6957	protein_coding	C-type	
lectin domain family 2 member D	[Source:HGNC Symbol;Acc:HGNC:14351]					
-	59 41	30 77	59 114			
0.415296902	0.279246857	0.268290996	0.615008001			
0.521287569	0.761927881					
ENSG00000251000	0 3.539980612	0	11.39565344			
13.69790194	12.07694663	1.179993537				
12.39016734	-3.343771726	0.044682663	0.198590859			
AC008592.3	5 95834424	95835046	-	418		
processed_pseudogene	gamma-glutamyl cyclotransferase (GGCT)					
pseudogene	-	0 4	0 11	12 14		
0	0.453429895	0	1.462272953	1.76462458		
1.55733761						
ENSG00000272138	8.165258694	6.194966072	3.48747495	0		
0	0 5.949233238	0	5.008180542			
0.044722934	1 LINC01607	8	79768142			
79802842	+ 789	lincRNA long intergenic non-protein				
coding RNA 1607	[Source:HGNC Symbol;Acc:HGNC:51660]					
7	3 0	0 0	0.558591329	9		
0.420385258	0.236565331	0 0	0			
ENSG00000070808	7.258007728	3.539980612	11.6249165			
1.035968495	0 0	7.474301613	0.345322832			
4.369257652	0.044763181	0.198898748	CAMK2A 5			
150219491	150290291	-	6150	protein_coding		
calcium/calmodulin dependent protein kinase II alpha	[Source:HGNC Symbol;Acc:HGNC:1460]					
Symbol;Acc:HGNC:1460]	-	8 4	10 1	0		
0	0.063700605	0.030818487	0.101165337			
0.009035182	0 0					
ENSG00000166037	1990.508619	1331.03271	1634.46326			
1490.758664	1294.451733	988.5843459	1652.00153			

1257.931581	0.393697195	0.044884242	0.199386581	CEP57
11	95789965	95832693	+ 7101	
protein_coding	centrosomal protein 57 [Source:HGNC			
Symbol;Acc:HGNC:30794]	-	2194 1504	1406 1439	1134
1146	15.1302392	10.03586393	12.31892056	
11.26038721	9.816143579	7.504056981		
ENSG00000055208	1729.220341	1329.26272	1663.525551	
1390.26972	1267.055929	1062.771304	1574.002871	
1240.032318	0.344295148	0.044917357	0.199483585	TAB2
6	149218641	149411613	+ 6010	
protein_coding	TGF-beta activated kinase 1 (MAP3K7) binding protein 2			
[Source:HGNC Symbol;Acc:HGNC:17075]	-		1906 1502	1431
1342	1110 1232	15.53020212	11.84191397	
14.81398868	12.40766581	11.35261388	9.531631722	
ENSG00000136147	547.9795835	462.8524651	535.9086506	
583.2502626	783.0633941	672.8584553	515.580233	
679.7240374	-0.398709777	0.044963352	0.19962731	PHF11
13	49495610	49528987	+ 4841	
protein_coding	PHD finger protein 11 [Source:HGNC			
Symbol;Acc:HGNC:17024]	-	604 523	461 563	686
780	6.109849878	5.119093324	5.924786285	
6.462273817	8.710365785	7.491875267		
ENSG00000028528	2040.407422	1948.759327	2390.082832	
1635.794253	1719.086693	1844.322279	2126.416527	
1733.067742	0.294393584	0.044972289	0.19962731	SNX1
15	64094123	64146090	+ 9780	
protein_coding	sorting nexin 1 [Source:HGNC Symbol;Acc:HGNC:11172]			
-	2249 2202	2056 1579	1506 2138	
11.2610603	10.66853781	13.07949879	8.971298743	
9.465280252	10.16482402			
ENSG00000177699	16.33051739	1.769990306	1.16249165	0
0	0	6.420999781	0	5.119666008
0.044988858	1	AC011944.1	15	78978889
78985926	+ 1900	antisense	uncharacterized	
LOC100129540 [Source:NCBI gene;Acc:100129540]	-		18	2
1	0	0	0.463924798	0.049877288
0.032745622	0	0	0	
ENSG00000253688	16.33051739	1.769990306	1.16249165	0
0	0	6.420999781	0	5.119666008
0.044988858	1	AC026904.2	8	48551527
48556441	-	1579	lincRNA novel transcript	-
18	2	1	0	0.558237566
0.060017003	0.039402585	0	0	0
ENSG00000196313	2410.565817	2389.486913	2270.346192	
2815.762369	2611.733303	3090.835699	2356.799641	
2839.44379	-0.268939775	0.044993076	0.199631472	POM121
7	72879365	72951440	+ 9822	
protein_coding	POM121 transmembrane nucleoporin [Source:HGNC			
Symbol;Acc:HGNC:19702]	-	2657 2700	1953 2718	2288
3583	13.24708455	13.02537619	12.371124	

15.37664423	14.3186954	16.96203271				
ENSG00000148908	166.0269268	136.2892536	297.5978624			
124.3162194	125.5641011	112.1430759	199.9713476			
120.6744655	0.725950545	0.044995799	0.199631472	RGS10		
10	119499828	119542708	-	1252		
protein_coding	regulator of G protein signaling 10 [Source:HGNC					
Symbol;Acc:HGNC:9992]	-	183	154	256	120	110
130	7.15773218	5.828312544	12.72162188			
5.325850371	5.400521713	4.828030907				
ENSG00000230648	6.350756762	7.964956378	3.48747495	0		
0	0	5.93439603	0	5.00472332		
0.045025119	1	AL138831.1	6	4018843	4021215	-
209	antisense	novel transcript	-			7
9	3	0	0	1.640138176		
2.040434529	0.893062421	0	0	0		
ENSG00000180694	870.0536764	923.0499447	812.5816633			
1269.061406	1299.0177	847.9741815	868.5617615			
1138.684429	-0.389382801	0.045025197	0.199711813	TMEM64		
8	90621995	90791632	-	5870		
protein_coding	transmembrane protein 64 [Source:HGNC					
Symbol;Acc:HGNC:25441]	-	959	1043	699	1225	1138
983	8.000353731	8.419235313	7.408766733			
11.59604871	11.91657693	7.786574348				
ENSG00000134313	1972.3636	1537.236581	1592.61356			
1668.945245	1175.736583	1063.633943	1700.737914			
1302.771924	0.385025895	0.04504902	0.199767388			
KIDINS220	2	8721081	8837630	-	15362	protein_coding
	kinase D interacting substrate 220 [Source:HGNC					
Symbol;Acc:HGNC:29508]	-	2174	1737	1370	1611	1030
1233	6.930115336	5.357701314	5.548551904			
5.827198647	4.121324626	3.732040379				
ENSG00000285943	26.31027801	22.12487883	8.137441549			
6.215810969	3.424475485	0	18.8575328	3.213428818		
2.577878278	0.045063449	0.199781289	AC112128.1			
3	113361901	113515151	-	6837		
protein_coding	novel protein	-	29	25	7	6
3	0	0.207711768	0.173261021	0.063699982		
0.048763819	0.026971372	0				
ENSG00000143947	7315.164539	9225.189476	10017.19055			
7457.937195	7313.538143	7106.420455	8852.514854			
7292.631931	0.279543475	0.045146964	0.200101392	RPS27A		
2	55231903	55235853	+	3130		
protein_coding	ribosomal protein S27a [Source:HGNC					
Symbol;Acc:HGNC:10417]	-	8063	10424	8617	7199	6407
8238	126.1481848	157.8034544	171.2847121			
127.8026561	125.8223368	122.3794419				
ENSG00000115641	315.7233362	335.413163	305.7353039			
462.0419487	348.1550076	510.6823148	318.9572677			
440.2930904	-0.466061561	0.045186568	0.200226752	FHL2		
2	105357712	105438513	-	6626		

protein_coding	four and a half LIM domains 2	[Source:HGNC					
Symbol;Acc:HGNC:3703]	-	348	379	263	446	305	
592	2.571914317	2.710280368	2.469512129				
3.740205554	2.829409243	4.154332884					
ENSG00000268061	8.165258694	4.424975766	4.6499666				
4.14387398	52.5086241	20.70333709	5.746733686				
25.78527839	-2.158343582	0.045204776	0.200257271			NAPA-	
AS1	19	47484282	47501597	+	1894		
antisense	NAPA antisense RNA 1	[Source:HGNC					
Symbol;Acc:HGNC:44118]	-	9	5	4	4	46	
24	0.232697233	0.125088237	0.131397428				
0.117352423	1.492881091	0.589199385					
ENSG00000285035	9.979760626	4.424975766	3.48747495			0	
0	0	5.964070447	0	5.011608839			
0.045209096	1	AC091057.7	15	30644633			
30723495	+	675	transcribed_unprocessed_pseudogene				
	"Serine/threonine-protein kinase ULK4 (ULK4), pseudogene"						
-	11	5	3	0	0		
0.798027019	0.350988326	0.276518587	0	0	0		
ENSG00000181634	58.06406182	26.54985459	33.71225785			0	
18.26386925	12.93958568	39.44205809	10.40115164				
1.925872374	0.045238865	0.200337437	TNFSF15	9			
114784635	114806126	-	7889	protein_coding			
	TNF superfamily member 15	[Source:HGNC	Symbol;Acc:HGNC:11931]				
-	64	30	29	0	16	15	
0.397270852	0.180187948	0.228708807	0	0.124665243			
0.088409782							
ENSG00000130881	1383.557723	1503.606765	1576.338677				
1113.666132	1418.874342	965.2930917	1487.834389				
1165.944522	0.35246834	0.045245523	0.200337437			LRP3	
19	33177603	33208867	+	5095			
protein_coding	LDL receptor related protein 3	[Source:HGNC					
Symbol;Acc:HGNC:6695]	-	1525	1699	1356	1075	1243	
1119	14.65731222	15.80067468	16.55855168				
11.72401376	14.99596094	10.21214368					
ENSG00000106077	272.1752898	213.2838319	195.2985972				
308.7186115	269.3920714	419.242576	226.9192396				
332.4510863	-0.551413745	0.045281558	0.200432109			ABHD11	
7	73736094	73738867	-	2289			
protein_coding	abhydrolase domain containing 11	[Source:HGNC					
Symbol;Acc:HGNC:16407]	-	300	241	168	298	236	
486	6.418065509	4.988818347	4.566361982				
7.234066805	6.337435766	9.872371616					
ENSG00000131446	2353.409006	2943.493879	2605.143787				
2991.877013	3334.29763	3268.539343	2634.015557				
3198.237995	-0.27993651	0.045289566	0.200432109			MGAT1	
5	180784782	180815652	-	11576			
protein_coding	"mannosyl (alpha-1,3-)-glycoprotein beta-1,2-N-						
acetylglucosaminyltransferase	[Source:HGNC	Symbol;Acc:HGNC:7044]"					
-	2594	3326	2241	2888	2921	3789	

10.97337289	13.6141386	12.04453908	13.86279224	
15.51030718	15.21938507			
ENSG00000118096	765.7198153	891.1901192	991.6053774	
913.7242125	1196.283436	1340.541076	882.8384373	
1150.182908	-0.382674316	0.045380954	0.200786318	IFT46
11	118544528	118572970	- 3814	
protein_coding	intraflagellar transport 46	[Source:HGNC		
Symbol;Acc:HGNC:26146]	-	844 1007	853 882	1048
1554	10.83653509	12.510516	13.91474299	
12.84990568	16.88993406	18.94529377		
ENSG00000163888	155.1399152	241.6036768	184.8361723	
136.7478413	134.6960357	94.02765594	193.8599214	
121.8238443	0.673182795	0.045401497	0.200826978	
CAMK2N2 3	184259213	184261463	- 1362	
protein_coding	calcium/calmodulin dependent protein kinase II			
inhibitor 2 [Source:HGNC	Symbol;Acc:HGNC:24197]	-	171 273	
159	132 118	109	6.14819575	9.497558566
7.263180939	5.385287174	5.325400319	3.72117769	
ENSG00000138795	739.4095373	629.2315539	591.7082498	
628.8328764	433.7668947	342.467701	653.4497803	
468.355824	0.481837907	0.045418607	0.200852435	LEF1
4	108047545	108168956	- 5361	
protein_coding	lymphoid enhancer binding factor 1	[Source:HGNC		
Symbol;Acc:HGNC:6551]	HMG	815 711	509 607	380
397	7.444584865	6.284203414	5.90716119	
6.291510525	4.356975819	3.44330678		
ENSG00000122674	930.8394911	745.1659189	854.4313627	
1101.23451	1022.776678	1062.771304	843.4789242	
1062.260831	-0.332972998	0.045443049	0.2008912	CCZ1
7	5898725 5926550 +	6431	protein_coding	"CCZ1
homolog, vacuolar protein trafficking and biogenesis associated	[Source:HGNC Symbol;Acc:HGNC:21691]"			
1063	896 1232	7.812634997	6.203831916	735
7.110754358	9.184738556	8.564003977	8.907651477	
ENSG00000163126	0 0.884995153	3.48747495	5.179842475	
0	43.13195226	1.457490034		
16.10393158	-3.520265874	0.045461179	0.2008912	
ANKRD23 2	96824526	96857934	- 4116	
protein_coding	ankyrin repeat domain 23	[Source:HGNC		
Symbol;Acc:HGNC:24470]	-	0 1 3 5 0		
50	0 0.011512008	0.045347436	0.067500452	
0	0.564840276			
ENSG00000198420	558.866595	467.2774408	597.520708	
427.8549884	349.2964994	431.3195226	541.2215813	
402.8236702	0.42429873	0.045461443	0.2008912	TCAF1
7	143851375	143902198	- 6310	
protein_coding	TRPM8 channel associated factor 1	[Source:HGNC		
Symbol;Acc:HGNC:22201]	-	616 528	514 413	306
500	4.780573904	3.964888732	5.06804668	
3.636911524	2.98084523	3.684441482		

ENSG00000168282	29.93928188	73.45459771	72.07448229		
10.35968495	36.5277385	22.42861518	58.48945396		
23.10534621	1.342573045	0.045482271	0.200933039	MGAT2	
14	49620795	49623481	+	2687	
protein_coding	"mannosyl (alpha-1,6-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase [Source:HGNC Symbol;Acc:HGNC:7045]"				
-	33	83	62	10	32 26
0.601415971	1.463648752	1.435591472	0.206797068		
0.732031336	0.449921451				
ENSG00000182372	800.195352	864.6402646	933.4807949		
959.3068263	1215.688797	1113.667007	866.1054705		
1096.220877	-0.340265304	0.045518027	0.201040795	CLN8	
8	1755778	1801711	+	9459	protein_coding "CLN8,
transmembrane ER and ERGIC protein [Source:HGNC Symbol;Acc:HGNC:2079]"	-	882	977	803	926 1065
1291	4.566169651	4.894133133	5.281741796		
5.439735771	6.920727389	6.346174869			
ENSG00000200397	0	0	0	0	11.41491828
9.489029498	0	6.967982593	-5.27647657	0.045556747	
1	RF00019	7	87218611	87218712	-
102	misc_RNA		-	0	0 0
0	10	11	0	0	0 0
6.02625061	5.014452613				
ENSG00000088451	402.8194289	374.3529498	341.7725451		
218.5893524	329.8911383	242.4015717	372.9816412		
263.6273542	0.502808858	0.045574679	0.201240761	TGDS	
13	94574051	94596257	-	2589	
protein_coding	"TDP-glucose 4,6-dehydratase [Source:HGNC Symbol;Acc:HGNC:20324]"				
281	8.398072184	7.741671833	7.065162035		289
4.528584216	6.861406546	5.046674419			
ENSG00000137198	33.56828574	28.3198449	27.8997996		
70.44585765	63.92354238	54.34625985	29.92931008		
62.90521996	-1.069455683	0.045752553	0.201975772	GMPR	
6	16238580	16295549	+	2232	
protein_coding	guanosine monophosphate reductase [Source:HGNC Symbol;Acc:HGNC:4376]				
63	0.811776019	0.679332245	0.668996581		56
1.692882307	1.542201769	1.312433712			
ENSG00000184831	248.5867647	287.6234248	290.6229125		
211.337573	190.6291353	173.3904481	275.611034		
191.7857188	0.523486425	0.045780836	0.202050202	AP00	
X	23833353	23907934	-	2353	
protein_coding	apolipoprotein 0 [Source:HGNC Symbol;Acc:HGNC:28727]				
-	274	325	250	204	167 201
5.702395289	6.544671831	6.610357204	4.817484033		
4.362564934	3.97196258				
ENSG00000162302	1363.598202	1533.6966	1646.088176		
738.6455369	1165.463157	1460.447904	1514.460993		
1121.518866	0.432532264	0.045795232	0.202063321		



RPS6KA4 11	64359148	64372215	+	3807	
protein_coding	ribosomal protein S6 kinase A4	[Source:HGNC			
Symbol;Acc:HGNC:10433]	-	1503 1733	1416 713	1021	
1693	19.33324646	21.56960176	23.14127179		
10.40683567	16.48504836	20.67783661			
ENSG00000115998	205.9459693	178.7690209	195.2985972		
289.0352101	218.0249392	345.0556181	193.3378625		
284.0385891	-0.55703873	0.045823042	0.202135607		
C2orf42 2	70149880	70248615	-	3630	
protein_coding	chromosome 2 open reading frame 42	[Source:HGNC			
Symbol;Acc:HGNC:26056]	-	227 202	168 279	191	
400	3.062301279	2.636763542	2.879449746		
4.270803814	3.23425384	5.123708154			
ENSG00000099331	4104.40337	4312.581381	4251.231964		
4970.576839	4869.604139	5063.691196	4222.738905		
4967.957391	-0.234541003	0.045841182	0.202165212	MY09B	
19	17075781	17214537	+	9948	
protein_coding	myosin IXB	[Source:HGNC Symbol;Acc:HGNC:7609]	-		
4524	4873 3657	4798 4266	5870 22.26975828		
23.21063786	22.87157279	26.80010593	26.35921271		
27.43679275					
ENSG00000198498	737.5950353	704.4561419	661.4577488		
577.0344517	555.9065203	504.6438415	701.169642		
545.8616045	0.362207655	0.045875833	0.202168552	TMA16	
4	163494442	163520539	+	3513	
protein_coding	translation machinery associated 16 homolog	[Source:HGNC Symbol;Acc:HGNC:25638]	-	813 796	569
557	487 585	11.33290059	10.73646614		
10.07722518	8.810267383	8.52114924	7.742990643		
ENSG00000100413	1124.991198	1611.576174	1081.117234		
1486.61479	1522.750099	1972.855497	1272.561535		
1660.740129	-0.383917098	0.045876845	0.202168552	POLR3H	
22	41525804	41544606	-	6594	
protein_coding	RNA polymerase III subunit H	[Source:HGNC			
Symbol;Acc:HGNC:30349]	-	1240 1821	930 1435	1334	
2287	9.208765755	13.08541329	8.774873258		
12.09246953	12.43524216	16.12680148			
ENSG00000167106	352.9206258	538.9620483	545.2085838		
561.4949242	667.7727195	734.1058275	479.0304193		
654.4578237	-0.45143921	0.04589964	0.202168552		
FAM102A 9	127940579	127980513	-	6100	
protein_coding	family with sequence similarity 102 member A	[Source:HGNC Symbol;Acc:HGNC:31419]	-	389 609	469
542	585 851	3.12283077	4.730574631		
4.783544895	4.937208809	5.894858588	6.486803513		
ENSG00000163026	532.556317	448.6925426	464.99666		
723.1060094	657.499293	536.5614862	482.0818399		
639.0555962	-0.405625797	0.045911572	0.202168552	WDCP	
2	24029340	24049575	-	3847	
protein_coding	WD repeat and coiled coil containing	[Source:HGNC			

Symbol;Acc:HGNC:26157]	-	587	507	400	698	576
622	7.472133086	6.244709123	6.469111724			
10.08196719	9.203386426	7.517946252				
ENSG00000154945	1732.849345	1664.675883	1580.988644			
1386.125846	1319.564553	1390.574141	1659.504624			
1365.421514	0.281487403	0.045921535	0.202168552			
ANKRD40 17	50693190	50707924	-	4849		
protein_coding	ankyrin repeat domain 40 [Source:HGNC					
Symbol;Acc:HGNC:28233]	-	1910	1881	1360	1338	1156
1612	19.28900682	18.38074255	17.44992525			
15.3326059	14.6538928	15.45766431				
ENSG00000197535	1893.432766	1311.562817	1644.925685			
1521.837719	1256.782503	782.4136141	1616.640423			
1187.011279	0.446326875	0.045926151	0.202168552			MY05A
15	52307283	52529050	-	12988		
protein_coding	myosin VA [Source:HGNC					
Symbol;Acc:HGNC:7602]	-					
2087	1482	1415	1469	1101	907	7.868806262
5.406701143	6.778303437	6.284801414	5.210655959			
3.247102703						
ENSG00000274762	32.66103478	11.50493699	6.974949899			
6.215810969	0	0	17.04697389	2.07193699		
3.052738746	0.04593036	0.202168552	AL049777.1	14		
28818741	28819258	+	518	antisense		
novel transcript	-	36	13	6	6	
0	0	3.403309332	1.189159291	0.720656548		
0.643625933	0	0				
ENSG00000188785	391.0251663	298.2433666	296.4353707			
391.5960911	410.9370581	584.0066337	328.5679679			
462.1799276	-0.492888207	0.045936403	0.202168552			ZNF548
19	57389850	57402992	+	6161		
protein_coding	zinc finger protein 548 [Source:HGNC					
Symbol;Acc:HGNC:26561]	zf-C2H2	431	337	255	378	360
677	3.425742731	2.591821767	2.575110195			
3.409201216	3.591688401	5.109383228				
ENSG00000133313	1437.992781	1444.31209	1973.910822			
1107.450321	1437.138212	1243.925503	1618.738564			
1262.838012	0.357729027	0.045944801	0.202168552			CNDP2
18	74495816	74523454	+	11848		
protein_coding	carnosine dipeptidase 2 [Source:HGNC					
Symbol;Acc:HGNC:24437]	-	1585	1632	1698	1069	1259
1442	6.551080025	6.526818709	8.916604156			
5.013542529	6.531727303	5.65915036				
ENSG00000100104	544.3505796	496.4822809	562.6459585			
594.6459161	722.5643272	774.6498627	534.4929397			
697.286702	-0.384484971	0.045967744	0.202219205			SRRD
22	26483877	26494658	+	4319		
protein_coding	SRR1 domain containing [Source:HGNC					
Symbol;Acc:HGNC:33910]	-	600	561	484	574	633
898	6.802941398	6.154688793	6.972186638			
7.384833907	9.008819099	9.667721937				

ENSG00000138686	434.5732127	367.2729885	424.3094522	
361.5530047	227.1568738	280.3576897	408.7185512	
289.6891894	0.495659437	0.046042259	0.202496647	BBS7
4	121824440	121870497	- 4829	
protein_coding	Bardet-Biedl syndrome 7 [Source:HGNC			
Symbol;Acc:HGNC:18758]	-	479 415	365 349	199
325	4.857434931	4.072089663	4.70264836	
4.01587573	2.533046902	3.129371865		
ENSG00000164188	150.6036604	50.44472373	77.88694054	
71.48182615	29.67878753	6.901112362	92.97844154	
36.02057535	1.373270336	0.046110461	0.202717056	
RANBP3L 5	36248434	36302114	- 3363	
protein_coding	RAN binding protein 3 like [Source:HGNC			
Symbol;Acc:HGNC:26353]	-	166 57	67 69	26
8	2.417185076	0.803108882	1.239523549	
1.140077217	0.475219049	0.110609935		
ENSG00000171227	18.14501932	15.0449176	12.78740815	0
5.707459141	0	15.32578169	1.90248638	
3.063277897	0.046115294	0.202717056	TMEM37 2	
119429901	119438520	+ 2292	protein_coding	
transmembrane protein 37 [Source:HGNC	Symbol;Acc:HGNC:18216]			-
20	17 11	0 5	0 0.427310993	
0.351447735	0.298596641	0	0.134091964	0
ENSG00000143195	731.2442786	487.6323294	480.1090514	
542.8474913	317.3347282	309.6874173	566.3285531	
389.9565456	0.539284232	0.046137911	0.20276609	ILDR2
1	166895711	166975482	- 13884	
protein_coding	immunoglobulin like domain containing receptor 2			
[Source:HGNC	Symbol;Acc:HGNC:18131]			-
524	278 359	2.842818417	1.88045712	413
1.850726712	2.097146286	1.23077184	1.202294504	
ENSG00000152465	416.4281934	417.7177123	487.0840013	
339.7976663	332.174122	309.6874173	440.409969	
327.2197352	0.428132584	0.046172147	0.202866148	NMT2
10	15102584	15168693	- 4700	
protein_coding	N-myristoyltransferase 2 [Source:HGNC			
Symbol;Acc:HGNC:7858]	-	459 472	419 328	291
359	4.78237372	4.758505565	5.546551013	
3.877823422	3.805769587	3.551629125		
ENSG00000123179	877.3116841	1061.994184	739.3446893	
1126.097754	1285.319799	1048.10644	892.8835191	
1153.174664	-0.367542497	0.046233346	0.203035982	EBPL
13	49660723	49691475	- 1500	
protein_coding	EBP like [Source:HGNC			
Symbol;Acc:HGNC:18061]	-	1087 1126	1215 31.56922341	-
967	1200 636	1087 1126	1215 31.56922341	
37.90673924	26.37987317	40.26709772	46.14179567	
37.66309771				
ENSG00000156239	357.4568806	449.5775378	305.7353039	
469.2937282	488.5585025	564.1659356	370.9232408	
507.3393888	-0.450721723	0.04624293	0.203035982	N6AMT1

21	28872191	28885371	-	4865	
protein_coding	N-6 adenine-specific DNA methyltransferase 1				
[Source:HGNC Symbol;Acc:HGNC:16021]			-	394 508	263
453	428 654	3.965902753		4.947744999	
3.363409531	5.174011636	5.407646385		6.250660654	
ENSG00000133243	3081.02428	3317.846829		3098.040247	
3438.379435	3593.416275	4601.316668		3165.637119	
3877.704126	-0.292963554	0.046245236		0.203035982	BTBD2
19	1985438 2034881	-	5944	protein_coding	BTB
domain containing 2	[Source:HGNC Symbol;Acc:HGNC:15504]				3396
3749	2665 3319	3148 5334		27.97805789	
29.88567577	27.89492893	31.0270507		32.55391934	
41.72585348					
ENSG00000111731	847.3724022	577.0168398		640.5328991	
503.4806885	535.3596674	515.8581491		688.3073804	
518.232835	0.409904204	0.046291375		0.203104429	C2CD5
12	22448583	22544546		- 6759	
protein_coding	C2 calcium dependent domain containing 5 [Source:HGNC				
Symbol;Acc:HGNC:29062]		-	934 652	551 486	469
598	6.766952271	4.570793384		5.071962093	
3.99545153	4.265183854	4.113862346			
ENSG00000174238	2367.925021	2510.731249		2405.195224	
2806.438653	3126.546117	2788.912033		2427.950498	
2907.298934	-0.259686346	0.04629164		0.203104429	PITPNA
17	1517718 1562816	-	4784	protein_coding	
phosphatidylinositol transfer protein alpha	[Source:HGNC				
Symbol;Acc:HGNC:9001]		-	2610 2837	2069 2709	2739
3233	26.71640509	28.09924207		26.90767455	
31.46515516	35.19234621	31.42284852			
ENSG00000156531	2541.209956	2145.228251		2268.021209	
2202.46902	1755.614432	1622.624044		2318.153139	
1860.235832	0.317763226	0.046295272		0.203104429	PHF6
X	134373253	134428791		+ 8016	
protein_coding	PHD finger protein 6 [Source:HGNC				
Symbol;Acc:HGNC:18145]		-	2801 2424	1951 2126	1538
1881	17.11134249	14.32852045		15.14280771	
14.73728884	11.79358896	10.91093843			
ENSG00000204592	3520.133748	4091.332593		4937.102037	
4258.866483	6003.105524	5522.615168		4182.856126	
5261.529058	-0.33123313	0.046344776		0.203228487	HLA-E
6	30489467	30494205		+ 2975	
protein_coding	"major histocompatibility complex, class I, E				
[Source:HGNC Symbol;Acc:HGNC:4962]"		-	3880	4623	4247
4111	5259 6402	63.86654741		73.6314519	
88.81823478	76.78432139	108.6584639		100.0598201	
ENSG00000141391	150.6036604	179.6540161		179.0237141	
62.15810969	115.2906746	127.6705787		169.7604635	
101.7064543	0.737272939	0.046346527		0.203228487	
PRELID3A	18	12407896	12432238	+	2643
protein_coding	PRELI domain containing 3A [Source:HGNC				

Symbol;Acc:HGNC:24639]	-	166	203	154	60	101	
148	3.075669093	3.639362498	3.62518692				
1.261438643	2.348938092	2.603727742					
ENSG00000273137	12.70151352	17.69990306	11.6249165				
17.61146441	46.80116496	55.2088989	14.0087777				
39.87384276	-1.506791158	0.046366068	0.203263788				
AL022328.2	22	50208461	50209542	-		640	
antisense		uncharacterized	LOC105373095			[Source:NCBI	
gene;Acc:105373095]	-	14	20	10	17	41	
64	1.071215246	1.480732002	0.972135656				
1.475981762	3.937778133	4.64976515					
ENSG00000166479	2976.690419	2415.151773	2690.005678				
2474.928734	2177.966408	1879.69048	2693.94929				
2177.528541	0.30731637	0.046398161	0.203354081			TMX3	
18	68673688	68715298	-	7637			
protein_coding	thioredoxin related	transmembrane	protein 3				
[Source:HGNC	Symbol;Acc:HGNC:24718]	-	3281	2729		2314	
2389	1908	2179	21.03837168	16.93195813			
18.85156503	17.38222642	15.35687821	13.26677787				
ENSG00000101138	1320.050155	1283.242972	1479.85187				
1530.125467	1586.673641	1976.306053	1361.048333				
1697.70172	-0.319850844	0.046445982	0.203513246			CSTF1	
20	56392371	56406369	+	4800			
protein_coding	cleavage stimulation	factor subunit 1					
[Source:HGNC	Symbol;Acc:HGNC:2483]	-	1455	1450	1273	1477	1390
2291	14.8439827	14.31374268	16.50038254				
17.09823578	17.80003774	22.19294158					
ENSG00000134504	380.1381547	305.3233278	421.9844689				
199.9419195	272.8165469	299.3357487	369.1486505				
257.3647384	0.518459105	0.046471339	0.203516152			KCTD1	
18	26454910	26657401	-	8882			
protein_coding	potassium channel	tetramerization	domain containing 1				
[Source:HGNC	Symbol;Acc:HGNC:18249]	-	419	345		363	
193	239	347	2.310106157	1.84049553			
2.542744378	1.207420607	1.653996142	1.816559904				
ENSG00000241015	63.50756762	84.9595347	36.03724115				
121.2083139	114.1491828	105.2419635	61.50144782				
113.5331534	-0.877887261	0.046480331	0.203516152			TPM3P9	
19	53431984	53444670	+	2920			
transcribed_processed_pseudogene		tropomyosin 3	pseudogene 9				
[Source:HGNC	Symbol;Acc:HGNC:44142]	-	70	96		31	
117	100	122	1.173934517	1.557811202			
0.660519569	2.226460804	2.105060145	1.942710097				
ENSG00000162636	2216.41411	1500.95178	1943.686039				
1783.937748	1353.809308	1209.419941	1887.017309				
1449.055666	0.381149834	0.046481161	0.203516152				
FAM102B 1	108560089	108644900	+	9355			
protein_coding	family with	sequence similarity	102 member B				
[Source:HGNC	Symbol;Acc:HGNC:27637]	-	2443	1696		1672	
1722	1186	1402	12.78816876	8.590303281			

11.11986022	10.22825152	7.792705385	6.968434784	
ENSG00000181744	744.8530431	791.1856669	617.2830661	
891.9688741	970.2680539	886.7929385	717.7739254	
916.3432889	-0.350958808	0.046591609	0.203949262	
C3orf58 3	143971798	144048719	+ 5487	
protein_coding	chromosome 3 open reading frame 58 [Source:HGNC			
Symbol;Acc:HGNC:28490]	-	821 894	531 861	850
1028	7.327180336	7.720207965	6.020969226	
8.719272183	9.522069034	8.711424411		
ENSG00000145354	1408.96075	1368.202507	1298.503173	
1156.14084	1108.388565	1059.320748	1358.555477	
1107.950051	0.294647462	0.046619198	0.203990158	CISD2
4	102868974	102892807	+ 6352	
protein_coding	CDGSH iron sulfur domain 2 [Source:HGNC			
Symbol;Acc:HGNC:24212]	-	1553 1546	1117 1116	971
1228	11.97263244	11.53255252	10.94081137	
9.762605696	9.396283263	8.989155548		
ENSG00000173226	706.7485025	661.0913794	517.3087842	
742.7894108	897.2125769	820.3697321	628.3828887	
820.1239066	-0.382670075	0.046624015	0.203990158	IQCB1
3	121769763	121835079	- 3049	
protein_coding	IQ motif containing B1 [Source:HGNC			
Symbol;Acc:HGNC:28949]	-	779 747	445 717	786
951	12.51148089	11.60886119	9.08049311	
13.06693633	15.8457384	14.50287523		
ENSG00000141452	605.1363943	631.0015442	538.2336339	
878.5012837	636.9524401	804.8422292	591.4571908	
773.4319843	-0.386866962	0.046668933	0.204136191	RMC1
18	23503470	23531807	+ 3090	
protein_coding	regulator of MON1-CCZ1 [Source:HGNC			
Symbol;Acc:HGNC:24326]	-	667 713	463 848	558
933	10.57051235	10.93345675	9.322434876	
15.24928273	11.10000258	14.03958215		
ENSG00000234918	1.814501932	2.654985459	13.9498998	0
0	0	6.13979573	0	5.044135503
0.046708264	1	AL157387.1	10	37240887
37242049	+	335	lincRNA novel transcript	-
2	3	12	0	0
0.424329171	2.228657266	0	0	0.292357253
ENSG00000197483	430.0369579	438.0726008	490.5714763	
469.2937282	633.5279646	734.9684666	452.8936783	
612.5967198	-0.43713578	0.046769194	0.20452417	ZNF628
19	55476332	55484487	+ 3851	
protein_coding	zinc finger protein 628 [Source:HGNC			
Symbol;Acc:HGNC:28054]	zf-C2H2	474 495	422 453	555
852	6.027448476	6.090572555	6.817823891	
6.53637149	8.858635342	10.28719789		
ENSG00000181826	104.3338611	138.944239	113.9241817	
72.51779464	57.07459141	77.63751407	119.0674273	
69.07663338	0.783653527	0.046806072	0.204634852	RELL1

4	37590800	37686376	-	1947	
protein_coding	REL1 like 1 [Source:HGNC Symbol;Acc:HGNC:27379]				-
115	157	98	70	50	90
	3.820851349	3.131604949	1.997763767	1.578524813	
	2.149352149				
ENSG00000267583	0	10.61994184	10.46242485	0	0
0	7.027455562	0	5.244181981	0.046815284	
1	AC007998.3	18	35443869	35467088	
-	916	lincRNA novel transcript		-	0
12	9	0	0	0	0.620743547
	0.611299277	0	0	0	
ENSG00000272953	6.350756762	5.309970919	5.812458249	0	
0	0	5.82439531	0	4.975155751	
0.046817765	1	AC092171.4	7	5425770	5426401 +
	632	lincRNA novel transcript		-	7 6
	5	0	0	0.542387466	0.449842633
	0.492220585	0	0	0	
ENSG00000167723	109.7773669	89.38451047	39.5247161		
185.4383606	168.9407906	92.30237784	79.56219781		
148.893843	-0.89709127	0.046831258	0.204694373		TRPV3
	17	3510502	3557995 -	9780	protein_coding
transient receptor potential cation channel subfamily V member 3					
[Source:HGNC Symbol;Acc:HGNC:18084]					
	179	148	107	0.605864072	0.489338019
0.216295214	1.017012334	0.930186904	0.508716637		34
ENSG00000189299	227.7199925	192.0439482	131.3615564		
408.171587	208.8930046	251.8906012	183.708499		
289.6517309	-0.654623134	0.046870719	0.204783207		FOXR2
	X	55623400	55625325	+	1926
protein_coding	forkhead box R2 [Source:HGNC Symbol;Acc:HGNC:30469]				
Fork	251	217	113	394	183 292
6.381843093	5.338630852	3.650303773	11.36716025		
5.840394283	7.049488182				
ENSG00000101158	3100.076551	3146.157769	3424.700401		
2338.180893	2918.794605	2724.214105	3223.644907		
2660.396534	0.276953636	0.046874736	0.204783207		NELFCD
	20	58981208	58995133	+	6298
protein_coding	negative elongation factor complex member C/D				
[Source:HGNC Symbol;Acc:HGNC:15934]					
	2257	2557	3158	26.56874289	26.74628017
29.10294462	19.91319499	24.95602614	23.31527206		
ENSG00000175536	19.95952125	32.74482067	60.44956579		
70.44585765	66.20652603	103.5166854	37.71796924		
80.05635637	-1.096533809	0.046888013	0.204790632		LIPT2
	11	74491712	74493733	-	1187
protein_coding	lipoyl(octanoyl) transferase 2 [Source:HGNC				
Symbol;Acc:HGNC:37216]					
	120	0.90761287	1.476989629	2.725583373	58
3.183246259	3.003479242	4.700689284			
ENSG00000040633	1352.71119	1614.231159	1614.700902		

1493.86657	2118.608833	2241.998879	1527.214417	
1951.491427	-0.354039493	0.046917314	0.204868025	PHF23
17	7235028	7239722	-	2783
finger protein 23 [Source:HGNC Symbol;Acc:HGNC:28428]			protein_coding	PHD
1824	1389	1442	1856	2599
31.05546729	31.05245106	28.79148714	40.99322873	1491
43.42342661				
ENSG00000125817	3411.263632	4187.797065	3780.422845	
3760.565636	4490.628852	6293.814474	3793.161181	
4848.336321	-0.354329475	0.046940512	0.204885499	CENPB
20	3783851	3786690	-	2840
centromere protein B [Source:HGNC Symbol;Acc:HGNC:1852]			protein_coding	3760
4732	3252	3630	3934	7296
78.95012769	71.24248235	71.02321517	85.14582851	
119.4531216				
ENSG00000176974	1116.825939	1062.879179	1177.604041	
1121.95388	765.9410167	614.1990002	1119.103053	
834.031299	0.424630821	0.046944481	0.204885499	SHMT1
17	18327860	18363563	-	7281
protein_coding serine hydroxymethyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:10850]			1231	1201
712	8.279339766	7.815889616	1013	1083
8.26512582	5.664725233	4.546947929	8.656159713	671
ENSG00000170027	8630.678439	9156.159854	9460.357047	
9458.392358	11096.44206	12015.69926	9082.398447	
10856.84456	-0.257564464	0.047043002	0.205264842	YWHAG
7	76326794	76359031	-	3750
protein_coding tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein gamma [Source:HGNC Symbol;Acc:HGNC:12852]				
9513	10346	8138	9130	9721
130.7277081	135.0184955	135.2855942	13929	124.2266897
172.7108767			159.3408155	
ENSG00000100024	3.629003864	10.61994184	3.48747495	0
0	0	5.912140217	0	4.999471804
0.047077133	1	UPB1	22	24494107
+	6793	protein_coding	beta-ureidopropionase 1	24528390
[Source:HGNC Symbol;Acc:HGNC:16297]			-	4
0	0	0	0.028835472	0.083703973
0.027476821	0	0	0	
ENSG00000197872	80.74533597	85.84452985	115.0866733	
73.55376314	30.82027936	37.95611799	93.89217972	
47.44338683	0.982958982	0.047084222	0.205394033	FAM49A
2	16549459	16666331	-	5448
protein_coding family with sequence similarity 49 member A [Source:HGNC Symbol;Acc:HGNC:25373]			89	97
71	27	44	0.799984535	0.843647602
1.130589486	0.724157934	0.30463095	0.375531693	
ENSG00000184900	4539.883834	4697.554273	4860.377588	
4182.204814	3981.523497	3754.205125	4699.271898	
3972.644479	0.24236416	0.047099678	0.2054108	SUM03



21	44805617	44818779	-	2732	
protein_coding	small ubiquitin-like modifier 3	[Source:HGNC			
Symbol;Acc:HGNC:11124]	-	5004	5308	4181	4037
4352	89.69439184	92.06120603		95.21520771	3488
82.1088743	78.47713532	74.06946535			
ENSG00000144290	3.629003864	1.769990306		12.78740815	0
0	0	6.062134106	0	5.026481773	
0.047126718	1	SLC4A10	2	161424332	161985282
+	7550	protein_coding	solute carrier family 4 member		
10 [Source:HGNC	Symbol;Acc:HGNC:13811]	-	4	2	11
0	0	0	0.025944286	0.0125519	
0.090646821	0	0	0		
ENSG00000168280	359.2713825	236.2937059		238.3107882	
244.4885648	140.4034949	154.4123891		277.9586255	
179.7681496	0.629594181	0.04713919		0.205450453	KIF5C
2	148875250	149026759	+	9215	
protein_coding	kinesin family member 5C	[Source:HGNC			
Symbol;Acc:HGNC:6325]	-	396	267	205	236
179	2.104401147	1.37291093		1.384093306	123
1.423078008	0.82045947	0.903209942			
ENSG00000118503	310.2798304	418.6027074		415.009519	
416.459335	517.0957982	656.4683135		381.2973523	
530.0078155	-0.476677375	0.047141825		0.205450453	
TNFAIP3	6	137867188	137883312	+	5051
protein_coding	TNF alpha induced protein 3	[Source:HGNC			
Symbol;Acc:HGNC:11896]	-	342	473	357	402
761	3.315716734	4.43721235		4.397417437	453
4.422427564	5.512748677	7.005486595			
ENSG00000214826	351.1061238	303.5533375		99.97428189	
116.0284714	154.1013968	163.9014186		251.5445811	
144.6770956	0.800123069	0.047148129		0.205450453	DDX12P
12	9418673	9448229	-	2947	unprocessed_pseudogene
"DEAD/H-box helicase 12,	pseudogene	[Source:HGNC			
Symbol;Acc:HGNC:2737]"	-	387	343	86	112
190	6.430718702	5.514935341		1.815620853	135
2.111786117	2.815794737	2.997812618			
ENSG00000203705	199.5952125	175.2290403		194.1361055	
250.7043758	269.3920714	293.2972754		189.6534528	
271.1312409	-0.516571874	0.047172932		0.205450453	TATDN3
1	212791828	212816626	+	3788	
protein_coding	TatD DNase domain containing 3	[Source:HGNC			
Symbol;Acc:HGNC:27010]	-	220	198	167	242
340	2.844077287	2.476747086		2.742921303	236
3.54991079	3.829564537	4.173495647			
ENSG00000196943	556.1448421	661.9763745		664.9452237	
682.7032381	723.7058191	1155.073682		627.6888135	
853.8275796	-0.445392747	0.047174634		0.205450453	NOP9
14	24299862	24309124	+	6033	
protein_coding	NOP9 nucleolar protein	[Source:HGNC			
Symbol;Acc:HGNC:19826]	-	613	748	572	659
					634

1339	4.975718849	5.874822011	5.898879845	
6.069656768	6.459565298	10.31996608		
ENSG00000172409	501.7097842	708.8811176	634.7204408	
798.7317096	690.602556	960.1172574	615.1037809	
816.483841	-0.40961561	0.047185786	0.205450453	CLP1
11	57648992	57661868	+ 2793	
protein_coding	cleavage and polyadenylation factor I subunit 1			
[Source:HGNC Symbol;Acc:HGNC:16999]		-	553 801	546
771	605 1113	9.695782824	13.58901635	
12.16265964	15.33894485	13.31471268	18.52913932	
ENSG00000186395	637.7974291	868.1802452	768.4069806	
519.0202159	638.0939319	579.6934384	758.1282183	
578.9358621	0.389344483	0.047190072	0.205450453	KRT10
17	40818117	40822595	- 2144	
protein_coding	keratin 10 [Source:HGNC Symbol;Acc:HGNC:6413]			-
703	981 661	501 559	672 16.05680849	
21.68056856	19.18154235	12.98449276	16.02634129	
14.57389077				
ENSG00000251495	12.70151352	20.35488852	18.5998664	
4.14387398	2.282983656	4.313195226	17.21875615	
3.580017621	2.256028851	0.047223275	0.205544418	
PPIAP11 5	82009602	82010094	- 493	
processed_pseudogene	peptidylprolyl isomerase A pseudogene 11			
[Source:HGNC Symbol;Acc:HGNC:9263]		-	14 23	16
4	2 5	1.390624255	2.210585706	
2.019202661	0.450842776	0.249362094	0.471578616	
ENSG00000107816	1142.228966	1103.588956	1351.977789	
949.9831098	741.9696883	1089.513114	1199.265237	
927.1553041	0.369657462	0.047315654	0.205895842	LZTS2
10	100996618	101007836	+ 6547	
protein_coding	leucine zipper tumor suppressor 2 [Source:HGNC Symbol;Acc:HGNC:29381]			-
1263	9.416989209	9.025069467	1163 917	650
7.782856776	6.102648777	8.969991423		
ENSG00000167977	1032.451599	1128.36882	1003.230294	
1040.112369	1296.734717	1850.360752	1054.683571	
1395.735946	-0.404742012	0.047363507	0.20605339	KCTD5
16	2682475 2709030	+ 3420	protein_coding	
potassium channel tetramerization domain containing 5 [Source:HGNC Symbol;Acc:HGNC:21423]		-	1138 1275	863 1004 1136
2145	16.29464261	17.664873	15.6997066	
16.31246716	20.41735996	29.16300072		
ENSG00000138449	9.07250966	15.0449176	8.137441549	0
0	2.587917136	10.75162294	0.862639045	
3.557707015	0.047391874	0.206126102	SLC40A1 2	
189560579	189583758	- 4330	protein_coding	solute
carrier family 40 member 1 [Source:HGNC Symbol;Acc:HGNC:10909]		-		
10	17 7	0 0	3 0.113094318	
0.186031919	0.100581241	0	0 0.032215463	
ENSG00000258458	8.165258694	3.539980612	5.812458249	0

0	0	5.839232519	0	4.978685301		
0.047395402	1	AL160314.2	14	22701476		
22766562	-	2513	processed_transcript	"novel		
transcript, antisense to OXA1L"	-	9	4	5	0	
0	0	0.17537945	0.075421288	0.123789658		
0	0	0				
ENSG00000237276	4.53625483	7.079961225	5.812458249	0		
0	0	5.809558101	0	4.971618688		
0.047439019	1	AN07L1	1	16215909	16228027	
-	1990	transcribed_unprocessed_pseudogene				
anoctamin 7 like 1	[Source:HGNC	Symbol;Acc:HGNC:32248]	-	5		
8	5	0	0	0.123039799		
0.190486127	0.156323322	0	0	0		
ENSG00000108523	1711.982573	1886.809666	1712.3502			
1860.599417	2285.26664	2388.647516	1770.380813			
2178.171191	-0.299052873	0.047458985	0.206258222	RNF167		
17	4940008	4945222	+	2744	protein_coding ring	
finger protein 167	[Source:HGNC	Symbol;Acc:HGNC:24544]	-	1887		
2132	1473	1796	2002	2769	33.67568796	
36.81540091	33.39838651	36.36924361	44.84637316			
46.92128171						
ENSG00000149257	7356.898083	7846.367028	9628.918336			
6445.795975	7089.805745	7038.27197	8277.394482			
6857.957897	0.27120781	0.047460282	0.206258222			
SERPINH1	11	75562056	75572783	+	6281	
protein_coding	serpin family H member 1	[Source:HGNC	Symbol;Acc:HGNC:1546]	-	8109	8866
8159	63.22184862	66.88448299	8283	6222	6211	
55.04441456	60.78271515	60.40030864				
ENSG00000260528	1.814501932	0	0	1.035968495	0	
36.2308399	0.604833977	12.42226947	-4.326109898			
0.047469484	0.206258222	FAM157C	16	90102271		
90178344	+	4524	lincRNA family with sequence			
similarity 157 member C	[Source:HGNC	Symbol;Acc:HGNC:34081]	-			
2	0	0	1	0	42	
0	0	0.012282576	0	0.43167581	0.021648912	
ENSG00000196358	282.1550504	153.9891566	168.5612892			
158.5031797	86.75337894	119.9068273	201.5684988			
121.7211287	0.727505288	0.04747233	0.206258222	NTNG2		
9	132161676	132244534	+	7845		
protein_coding	netrin G2	[Source:HGNC	Symbol;Acc:HGNC:14288]	-		
311	174	145	153	76	139	
1.050951662	1.149957794	1.083703626	0.595481131			
0.823858962						
ENSG00000172986	368.3438922	266.3835411	353.3974616			
290.0711786	215.7419555	156.1376672	329.3749649			
220.6502671	0.579130386	0.047480552	0.206258222	GXYLT2		
3	72888073	72998138	+	3667		
protein_coding	glucoside xylosyltransferase 2	[Source:HGNC	Symbol;Acc:HGNC:33383]	-	406	301
			304	280	189	

181	5.421803919	3.889394775	5.157859648		
4.242864526	3.168095426	2.295084516			
ENSG00000163138	441.8312204	447.8075475	412.6845357		
626.7609394	697.451507	444.2591083	434.1077679		
589.4905182	-0.439563041	0.047544072	0.206483451	PACRGL	
4	20696282	20752907	+ 4032		
protein_coding	parkin coregulated like [Source:HGNC				
Symbol;Acc:HGNC:28442]	-	487	506	355	605 611
515	5.91475992	5.94643169	5.47790727		
8.337712099	9.314682304	5.939060149			
ENSG00000248664	2.721752898	0	1.16249165	5.179842475	
6.848950969	24.15389327	1.294748183	12.06089557		
-3.224876303	0.047565292	0.2065249	AC010273.1		
5	69113112	69136394	-	946	
antisense	novel transcript				
5	6	28	0.155295475	0	0.065768163
0.293691185	0.389858919	1.376251841			
ENSG00000243746	0	0	5.179842475	0	
15.52750281	0	6.90244843	-5.268269941	0.047574522	
1	EEF1A1P10	7	144647186	144648575	
-	1390	processed_pseudogene eukaryotic translation			
elongation factor 1 alpha 1	pseudogene 10 [Source:HGNC				
Symbol;Acc:HGNC:3205]	-	0	0	0	5 0
18	0	0	0.199879037	0	
0.602127861					
ENSG00000198093	149.6964094	143.3692148	185.998664		
256.9201867	238.5717921	212.2092051	159.6880961		
235.9003947	-0.564487062	0.047584717	0.206558542	ZNF649	
19	51889224	51905040	-	4365	
protein_coding	zinc finger protein 649 [Source:HGNC				
Symbol;Acc:HGNC:25741]	zf-C2H2	165	162	160	248 209
246	1.851093602	1.758560068	2.280565663		
3.15703558	2.943129679	2.620486201			
ENSG00000184500	917.2307266	850.4803421	704.4699398		
814.271237	526.2277328	463.2371673	824.0603362		
601.245379	0.455934355	0.047696271	0.206980341	PROS1	
3	93873033	93980003	-	5444	
protein_coding	protein S [Source:HGNC Symbol;Acc:HGNC:9456]				
1011	961	606	786	461	537 9.09414182
8.364340653	6.925662986	8.022624642	5.205113082		
4.586561142					
ENSG00000267871	12.70151352	30.08983521	29.06229125	0	
9.131934625	6.038473317	23.95121333	5.056802647		
2.247198869	0.047707292	0.206980341	ZNF460-AS1		
19	57267220	57280334	-	738	
antisense	ZNF460 antisense RNA 1 [Source:HGNC				
Symbol;Acc:HGNC:53774]	-	14	34	25	0 8
7	0.928967151	2.182976176	2.107611179	0	
0.666317141	0.441034635				
ENSG00000135047	738.5022863	848.7103518	1059.029893		

708.6024505	635.8109483	690.9738753	882.0808437	
678.4624247	0.377289765	0.04771699	0.206980341	CTSL
9	87725519	87731393	+	2366
protein_coding	cathepsin L [Source:HGNC Symbol;Acc:HGNC:2537]			-
814	959	911	684	557
19.20570738	23.95578922	16.06398926	14.47064253	
15.74159715				
ENSG00000267731	9.07250966	1.769990306	6.974949899	0
0	0	5.939149955	0	5.002015236
0.047772605	1	AC005332.2	17	68189884
68192802	+	2919	lincRNA novel transcript	-
10	2	6	0	0
0.032465518	0.127886294	0	0	0.167762384
ENSG00000001630	116.1281236	107.0844135	217.3859385	
106.704755	83.32890346	15.52750281	146.8661586	
68.52038708	1.102863394	0.047823929	0.207393351	
CYP51A1 7	92112151	92134803	-	3584
protein_coding	cytochrome P450 family 51 subfamily A member 1			
[Source:HGNC Symbol;Acc:HGNC:2649]	-		128	121
103	73	18	1.748922851	1.599719395
3.24623871	1.59691304	1.251993919	0.233526152	
ENSG00000175643	269.4535369	390.2828625	351.0724783	
297.322958	189.4876435	201.8575366	336.9362926	
229.556046	0.553553798	0.047836141	0.207395465	RMI2
16	11249619	11381662	+	3632
protein_coding	RecQ mediated genome instability 2 [Source:HGNC			
Symbol;Acc:HGNC:28349]	-	297	441	302
234	4.004416969	5.753328747	5.173303405	287
4.39084494	2.809374321	2.995718736		166
ENSG00000076321	655.9424484	675.2513018	577.75835	
865.0336932	1018.210711	648.704562	636.3173667	
843.9829887	-0.405680858	0.047859054	0.207411153	KLHL20
1	173714941	173786702	+	4254
protein_coding	kelch like family member 20 [Source:HGNC			
Symbol;Acc:HGNC:25056]	-	723	763	497
752	8.322800705	8.498719453	7.268850718	835
10.90689252	12.88886661	8.219613053		892
ENSG00000205268	558.866595	515.0671791	519.6337675	
457.8980747	413.2200418	307.0995001	531.1891806	
392.7392056	0.437282402	0.047869377	0.207411153	PDE7A
8	65717510	65842322	-	7425
protein_coding	phosphodiesterase 7A [Source:HGNC			
Symbol;Acc:HGNC:8791]	-	616	582	447
356	4.062683008	3.714094653	3.745569947	442
3.307789429	2.996811818	2.229382348		362
ENSG00000204227	958.964271	1236.338229	1163.654142	
1205.867328	1518.184131	1530.321666	1119.652214	
1418.124375	-0.341187384	0.047874969	0.207411153	RING1
6	33208495	33212722	+	1818
protein_coding	ring finger protein 1 [Source:HGNC			

Symbol;Acc:HGNC:10018]	-	1057	1397	1001	1164	1330
1774	28.47146353	36.41069494	34.25681996			
35.5771492	44.96816049	45.3722958				
ENSG00000166337	219.5547338	322.1382357	231.3358383			
103.5968495	219.166431	167.3519748	257.6762693			
163.3717518	0.659285365	0.047895094	0.207411153			TAF10
11	6606296	6612667	-	6103	protein_coding	TATA-
box binding protein associated factor 10 [Source:HGNC						
Symbol;Acc:HGNC:11543]	-	242	364	199	100	192
194	1.941782933	2.826080019	2.028694039			
0.910476359	1.933771783	1.478050859				
ENSG00000087301	118.8498765	72.56960256	156.9363727			
95.30910153	28.5372957	48.30778654	116.1186173			
57.38472792	1.013600131	0.047905957	0.207411153			
TXNDC16	14	52430590	52552522	-	4739	
protein_coding thioredoxin domain containing 16 [Source:HGNC						
Symbol;Acc:HGNC:19965]	-	131	82	135	92	25
56	1.353671453	0.819886215	1.772368025			
1.078731007	0.324265437	0.549455261				
ENSG00000140451	308.4653284	287.6234248	261.5606212			
68.37392066	35.38624667	0	285.8831248	34.58672245		
	3.048562085	0.047918039	0.207411153	PIF1	15	
	64815632	64825668	-	4656	protein_coding	
PIF1 5'-to-3' DNA helicase [Source:HGNC Symbol;Acc:HGNC:26220]						
-	340	325	225	66	31	0
3.575976276	3.30747698	3.006605123	0.787667647			
0.409256968	0					
ENSG00000135116	8.165258694	0	0	5.179842475		
7.990442797	50.89570367	2.721752898				
21.35532965	-2.954473179	0.047921837	0.207411153			HRK
12	116856144	116881441	-	6853		
protein_coding "harakiri, BCL2 interacting protein [Source:HGNC						
Symbol;Acc:HGNC:5185]"	-	9	0	0	5	7
59	0.06431177	0	0	0.04054164		
0.062786268	0.4003154					
ENSG00000244754	1499.685847	1587.681305	1272.928357			
1805.693087	1834.377368	1716.6517	1453.431836			
1785.574052	-0.296078052	0.04796485	0.207546535			
N4BP2L2	13	32432417	32538885	-	16960	
protein_coding NEDD4 binding protein 2 like 2 [Source:HGNC						
Symbol;Acc:HGNC:26916]	-	1653	1794	1095	1743	1607
1990	4.77282696	5.012138134	4.016937901			
5.710624219	5.824214873	5.455797552				
ENSG00000229334	4.53625483	15.92991276	19.76235805			
4.14387398	0	0	13.40950854	1.381291327		
3.288721285	0.048021789	0.207742094	AC046143.1			3
	194632923	194645401	+	972	antisense	
novel transcript						
0	0	0.251902468	0.877470816	18	17	4
0.228668198	0	0	1.088151846			

ENSG00000172572	103.4266101	46.01974796	161.5863393		
87.02135357	19.40536108	4.313195226	103.6775658		
36.91330329	1.491364086	0.04810551	0.208053392	PDE3A	
12	20369245	20684381	+	8398	
protein_coding	phosphodiesterase 3A [Source:HGNC				
Symbol;Acc:HGNC:8778]	-	114	52	139	84 17
5	0.664748957	0.293395815	1.029783139		
0.555796054	0.124428656	0.027683765			
ENSG00000225362	0	0	0	13.69790194	
6.901112362	0	6.8663381	-5.253599313	0.048107003	
1	CT62	15	71110244	71115500	-
2855	protein_coding	cancer/testis antigen 62 [Source:HGNC			
Symbol;Acc:HGNC:27286]	-	0	0	0	0 12
8	0	0	0	0	0.258358345
0.130291143					
ENSG00000155093	727.6152747	682.3312631	631.2329659		
632.9767504	465.7286659	438.220635	680.3931679		
512.3086838	0.410250243	0.048123502	0.208080329	PTPRN2	
7	157539056	158587788	-	4833	
protein_coding	"protein tyrosine phosphatase, receptor type N2				
[Source:HGNC Symbol;Acc:HGNC:9677]"	-		802	771	543
611	408	508	8.126176608	7.558994402	
6.990204496	7.024840351	5.189084324	4.887400571		
ENSG0000046651	444.5529733	380.5479158	326.6601536		
544.9194283	431.483911	592.6330241	383.9203476		
523.0121212	-0.445815363	0.048147904	0.208134962	OFD1	
X	13734745	13769353	+	5172	
protein_coding	"OFD1, centriole and centriolar satellite protein				
[Source:HGNC Symbol;Acc:HGNC:2567]"	-		490	430	281
526	378	687	4.639447316	3.939457143	
3.380295368	5.651181705	4.492423018	6.176312177		
ENSG00000170889	11984.78526	16443.20994	17790.77221		
16432.53227	20058.2944	20979.38158	15406.25581		
19156.73608	-0.31441649	0.048181923	0.208231134	RPS9	
19	54200742	54249003	+	4371	
protein_coding	ribosomal protein S9 [Source:HGNC				
Symbol;Acc:HGNC:10442]	-	13210	18580	15304	15862 17572
24320	147.9962444	201.4147836	217.8366739		
201.6458009	247.1085363	258.7103373			
ENSG00000233509	3.629003864	7.964956378	5.812458249	0	
0	0	5.802139497	0	4.969845596	
0.048204494	1	ZNF197-AS1	3	44617128	
44624797	-	623	antisense	ZNF197 antisense RNA 1	
[Source:HGNC Symbol;Acc:HGNC:40620]	-		4	9	5
0	0	0	0.314413097	0.684511744	
0.499331316	0	0	0		
ENSG00000210107	19.95952125	14.15992245	0	41.4387398	
29.67878753	51.75834272	11.3731479	40.95862335		
-1.833591983	0.0482079	0.208292513	MT-TQ	MT	
4329	4400	-	72	Mt_tRNA mitochondrially	





319	248	243	3.281009932	2.952192044	
3.175115581	5.549678376		4.772699919	3.537548314	
ENSG00000272068	79.83808501		114.1643748	76.72444889	
202.0138565	86.75337894		185.4673947	90.24230288	
158.0782101	-0.80884971		0.048430286	0.208896205	
AL365181.2	1	156637783	156641004	-	3222
	lincRNA novel transcript		-	88	129
195	76	215	1.337475452	1.897101708	66
1.274457173	3.362955487		1.449891208	3.102729694	
ENSG00000135966	1197.571275		1215.098345	938.1307615	
1137.493407	1551.287394		1633.838352	1116.933461	
1440.873051	-0.366870497		0.048449584	0.208928498	
TGFBRAP1	2	105264391	105330034	-	6005
	protein_coding transforming growth factor beta receptor associated protein 1 [Source:HGNC Symbol;Acc:HGNC:16836]				-
	1320	1373	807	1098	1359
				1894	10.76439443
	10.83387864	8.361176083	10.1601793	13.91085441	
	14.66553738				
ENSG00000174807	427.315205		348.6880903	520.7962592	
356.3731622	291.0804162		282.9456069	432.2665182	
310.1330618	0.477855103		0.048473878	0.20895783	CD248
11	66314487		66317044	-	2558
protein_coding	CD248 molecule [Source:HGNC Symbol;Acc:HGNC:18219]				
	-	471	394	448	344
				255	328
9.016729695	7.298306911		10.89643219	7.472569209	
6.12755193	5.962169543				
ENSG00000227848	7.258007728		7.964956378	2.3249833	0
0	0	5.849315802	0	4.984931973	
0.048481549	1	SUCLA2-AS1	13	48001389	
48002552	+	552	antisense	SUCLA2 antisense RNA 1	
[Source:HGNC Symbol;Acc:HGNC:39965]			-	8	9
	0	0	0.709707824	0.772555827	2
0.225422761	0	0	0		
ENSG00000198753	272.1752898		247.7986429	325.497662	
260.0280922	138.1205112		154.4123891	281.8238649	
184.1869975	0.612654861		0.04848854	0.20895783	PLXNB3
X	153764196		153779346	+	7007
protein_coding	plexin B3 [Source:HGNC Symbol;Acc:HGNC:9105]				-
	300	280	280	251	121
				179	2.096610811
	1.893443519	2.486181099	1.990460885	1.061452619	
	1.187823551				
ENSG00000088832	4366.598899		4523.210228	4403.51837	
4114.866862	3605.972685		3424.67701	4431.109166	
3715.172186	0.25437055		0.048491825	0.20895783	FKBP1A
20	1368978	1393172	-	2577	protein_coding
binding protein	1A [Source:HGNC Symbol;Acc:HGNC:3711]				FK506
	5111	3788	3972	3159	3970
				91.45977459	4813
93.97620502	91.45393536		85.64595669	75.34988044	
71.63200483					
ENSG00000213463	1073.277893		1017.744426	873.0312291	

1552.916774	975.9755131	1334.502603	988.0178493	
1287.798297	-0.382195423	0.048574739	0.209253625	
SYNJ2BP 14	70366496	70417061	- 7031	
protein_coding	synaptojanin 2 binding protein	[Source:HGNC		
Symbol;Acc:HGNC:18955]	-	1183 1150	751 1499	855
1547	8.239414098	7.750097805	6.645530961	
11.84667785	7.474744925	10.23067371		
ENSG00000100883	1507.851105	1324.837744	1406.614896	
1362.298571	1066.153368	857.463211	1413.101249	
1095.30505	0.368138723	0.048584128	0.209253625	SRP54
14	34981957	35029567	+ 3903	
protein_coding	signal recognition particle 54	[Source:HGNC		
Symbol;Acc:HGNC:11301]	-	1662 1497	1210 1315	934
994	20.85264509	18.17396511	19.28828727	
18.72143978	14.70942462	11.84183079		
ENSG00000102879	97.07585336	105.3144232	96.48680694	
71.48182615	54.79160775	36.2308399	99.62569451	
54.16809127	0.882953491	0.048613079	0.209327351	COR01A
16	30182827	30189076	+ 4871	
protein_coding	coronin 1A	[Source:HGNC		
Symbol;Acc:HGNC:2252]	-			
107	119 83	69 48	42 1.075707835	
1.157591349	1.060148759	0.787123729	0.605717984	
0.400924115				
ENSG00000198380	1499.685847	1085.004058	1400.802438	
1795.333402	1658.587626	1551.887642	1328.497448	
1668.60289	-0.329001578	0.048776781	0.209981133	GFPT1
2	69319769	69387254	- 8866	
protein_coding	glutamine--fructose-6-phosphate	transaminase 1		
[Source:HGNC	Symbol;Acc:HGNC:4241]	-	1653 1226	1205
1733	1453 1799	9.130063754	6.552230757	
8.456023214	10.86132676	10.07361265	9.434838151	
ENSG00000213923	929.9322401	1362.007541	1322.915498	
1377.838098	1426.864785	1901.256456	1204.951759	
1568.653113	-0.381403019	0.048805035	0.210047615	CSNK1E
22	38290691	38318084	- 6246	
protein_coding	casein kinase 1 epsilon	[Source:HGNC		
Symbol;Acc:HGNC:2453]	-	1025 1539	1138 1330	1250
2204	8.036196898	11.67516645	11.33566829	
11.83209655	12.30142416	16.40743258		
ENSG00000237976	6.350756762	8.849951531	2.3249833	0
0	0 5.841897198	0	4.983168835	
0.048808748	1 AL391069.3	1	151346967	
151348027	+ 618	antisense	novel transcript	
-	7 10	2 0	0 0	
0.554674561	0.766722072	0.201348485	0 0	0
ENSG00000143633	534.370819	485.8623391	540.5586172	
348.0854143	472.5776169	336.4292277	520.2639251	
385.6974196	0.433095583	0.048815973	0.210047615	
C1orf131	1 231223763	231241187	-	5413
protein_coding	chromosome 1 open reading frame	131		

[Source:HGNC Symbol;Acc:HGNC:25332]	-	589	549	465
336	414	390	5.328512038	4.805745392
5.344680793	3.449159627	4.701210248	3.350098667	
ENSG00000108651	2938.585879	2707.200173	2590.031396	
3263.300759	3336.580614	3205.566692	2745.272483	
3268.482688	-0.251392583	0.048846411	0.210089317	UTP6
17	31860899	31901765	-	6450
protein_coding	"UTP6, small subunit processome component [Source:HGNC Symbol;Acc:HGNC:18279]"	-	3239	3059
3716	24.59121104	22.47223166	2228	3150
27.13706549	27.85585293	26.78841441	21.49128178	2923
ENSG00000128274	217.7402318	180.5390112	254.5856713	
105.6687865	122.1396256	186.3300338	217.6216381	
138.0461486	0.65216614	0.04885697	0.210089317	A4GALT
22	42692112	42721298	-	3407
protein_coding	"alpha 1,4-galactosyltransferase (P blood group) [Source:HGNC Symbol;Acc:HGNC:18149]"	-	240	204
102	107	216	3.449592474	2.837164223
3.999252527	1.663566177	1.930451986	2.947899244	
ENSG00000139350	989.8108039	720.3860546	811.4191716	
628.8328764	730.55477	572.7923261	840.5386767	
644.0599908	0.38513428	0.048903177	0.210089317	NEDD1
12	96907223	96953777	+	4463
protein_coding	"neural precursor cell expressed, developmentally down-regulated 1 [Source:HGNC Symbol;Acc:HGNC:7723]"	-		1091
814	698	607	640	664
8.64219296	9.73050505	7.557425034	11.97089295	8.814556124
6.917867039				
ENSG00000033011	470.8632513	572.5918641	354.5599532	
641.2644983	683.7536051	571.067048	466.0050229	
632.0283838	-0.43720114	0.048925193	0.210089317	ALG1
16	5033923	5087379	+	4553
chitobiosyldiphosphodolichol beta-mannosyltransferase	[Source:HGNC Symbol;Acc:HGNC:18294]"	-	519	647
662	5.582110009	6.733379171	305	619
7.554488116	8.086796832	6.76069521	4.16782078	599
ENSG00000163885	0	0	0	25.01653231
0	8.338844104	-5.541089696	0.048938569	
0.210089317	CFAP100	3	126394939	126436556
3352	protein_coding	cilia and flagella associated protein		+
100	[Source:HGNC Symbol;Acc:HGNC:26842]"	-	0	0
0	0	29	0	0
0.402276818			0	0
ENSG00000232282	0	0	0	25.01653231
0	8.338844104	-5.541089696	0.048938569	
0.210089317	MTND1P32	X	102785667	102786604
+	938	processed_pseudogene	MT-ND1	pseudogene
[Source:HGNC Symbol;Acc:HGNC:42081]"	-		0	0
0	0	29	0	0
1.437560654			0	0

ENSG00000188050	0	0	0	0	0	25.01653231	
	0	8.338844104	-5.541089696	0.048938569			
0.210089317	RNF133	7	122697712	122699156	-		
	1445	protein_coding	ring finger protein 133	[Source:HGNC			
Symbol;Acc:HGNC:21154]	-	0	0	0	0	0	
	29	0	0	0	0	0.933170861	
ENSG00000269014	0	0	0	0	0	25.01653231	
	0	8.338844104	-5.541089696	0.048938569			
0.210089317	AC008622.1	19	46826895	46828440			
	-	284	processed_pseudogene	heterogeneous nuclear			
ribonucleoprotein A1-like 2 (HNRNPA1L2)		pseudogene		-	0		
	0	0	0	29	0	0	0
	0	0	4.747999625				
ENSG00000270617	0	0	0	0	0	25.01653231	
	0	8.338844104	-5.541089696	0.048938569			
0.210089317	URGCP-MRPS24	7	43866558	43906589			
	-	795	protein_coding	URGCP-MRPS24 readthrough			
[Source:HGNC Symbol;Acc:HGNC:49188]	-	0	0	0	0	0	
	0	0	29	0	0	0	0
	1.696140747						
ENSG00000148356	291.2275601		315.9432697	299.9228457			
396.7759335	348.1550076		504.6438415	302.3645585			
416.5249275	-0.463571377		0.048944433	0.210089317		LRSAM1	
	9	127451486	127503501	+	4365		
protein_coding		leucine rich repeat and sterile		alpha motif containing			
1 [Source:HGNC Symbol;Acc:HGNC:25135]	-			321	357	258	
	383	305	585	3.601218462	3.875345335		
3.677412132	4.875583174		4.294997857	6.231644015			
ENSG00000101844	433.6659617		419.4877026	462.6716767			
535.5957119	537.6426511		651.2924792	438.608447			
574.843614	-0.391689844		0.048976049	0.210130969		ATG4A	
	X	108091668	108154671	+	2927		
protein_coding		autophagy related 4A cysteine		peptidase [Source:HGNC			
Symbol;Acc:HGNC:16489]	-	478	474	398	517	471	
	755	7.99712451	7.673297917	8.459938312			
9.814764069	9.891121688		11.99375705				
ENSG00000215251	431.8514598		415.947722	317.3602204			
582.2142941	445.181813		553.8142671	388.3864674			
527.0701247	-0.439509209		0.048977895	0.210130969			
FASTKD5	20	3146519	3159897	-	2874	protein_coding	FAST
kinase domains 5 [Source:HGNC Symbol;Acc:HGNC:25790]	-						476
	470	273	562	390	642	8.110523229	
7.748855013	5.909935347		10.86579721	8.341136021			
10.38674052							
ENSG00000103148	1698.373808		1494.756814	1444.977121			
1764.254347	1754.47294		2245.449435	1546.035914			
1921.392241	-0.313836466		0.048989803	0.210131094		NPRL3	
	16	84271	138860	-	6609	protein_coding	"NPR3
like, GATOR1 complex subunit [Source:HGNC Symbol;Acc:HGNC:14124]"							
	-	1872	1689	1243	1703	1537	2603

13.87071269	12.10933624	11.70151849	14.31828293	
14.29504332	18.3134191			
ENSG00000159228	1173.98275	1459.357007	1376.390113	
1390.26972	1824.103941	1834.833249	1336.576624	
1683.06897	-0.332743825	0.049003007	0.210136773	CBR1
21	36069941	36073166	+ 2450	
protein_coding	carbonyl reductase 1 [Source:HGNC			
Symbol;Acc:HGNC:1548]	-	1294 1649	1184 1342	1598
2127	25.86407051	31.89194542	30.06716387	
30.43676388	40.09203038	40.36755296		
ENSG00000179943	567.0318537	731.0059965	764.9195056	
717.926167	932.5988236	1083.474641	687.6524519	
911.3332105	-0.407433516	0.049030011	0.210179267	FIZ1
19	55591371	55601970	- 6790	
protein_coding	FLT3 interacting zinc finger 1 [Source:HGNC			
Symbol;Acc:HGNC:25917]	zf-C2H2	625 826	658 693	817
1256	4.507533121	5.764169112	6.029245473	
5.67120706	7.396046662	8.601038333		
ENSG00000173950	710.3775064	591.1767623	730.0447561	
366.7328472	599.2832098	531.3856519	677.1996749	
499.133903	0.439960994	0.04903668	0.210179267	XXYLT1
3	195068279	195271167	- 5409	
protein_coding	xyloside xylosyltransferase 1 [Source:HGNC			
Symbol;Acc:HGNC:26639]	-	783 668	628 354	525
616	7.088812089	5.85175213	7.223530468	
3.636623361	5.966088374	5.295350957		
ENSG00000174004	198.6879615	200.0089046	159.261356	
323.2221704	247.7037267	243.2642108	185.9860741	
271.3967026	-0.543150919	0.049064912	0.21024644	NRR0S
3	196639686	196662004	+ 2910	
protein_coding	negative regulator of reactive oxygen species			
[Source:HGNC Symbol;Acc:HGNC:24613]	-		219 226	137
312	217 282	3.68535908	3.679949772	
2.929101524	5.957631659	4.583678041	4.50595798	
ENSG00000213024	3093.725794	3378.911495	3102.690214	
3665.256535	4047.730023	3673.117055	3191.775834	
3795.367871	-0.249633504	0.049076124	0.21024644	NUP62
19	49906825	49929763	- 6020	
protein_coding	nucleoporin 62 [Source:HGNC Symbol;Acc:HGNC:8066]			
-	3410 3818	2669 3538	3546 4258	
27.73872987	30.05148057	27.58410702	32.65678154	
36.20675474	32.88820599			
ENSG00000069849	3496.545223	3843.53395	3738.573146	
3395.904726	3076.320477	2730.252578	3692.884106	
3067.492594	0.267893395	0.049170528	0.210599872	ATP1B3
3	141876124	141926514	+ 2584	
protein_coding	ATPase Na+/K+ transporting subunit beta 3 [Source:HGNC			
Symbol;Acc:HGNC:806]	-	3854 4343	3216 3278	2695
3165	73.03783387	79.63862642	77.43376522	
70.49015793	64.1082055	56.95242531		

ENSG00000197238	4.53625483		3.539980612		9.299933199	0
0	0		5.792056214	0	4.963470946	
0.049256895	1	HIST1H4J		6	27824108	
27824480	+	373	protein_coding	histone cluster 1 H4		
family member j	[Source:HGNC Symbol;Acc:HGNC:4785]				-	5
4	8	0	0	0	0.656432169	
0.508133234	1.334406048		0	0	0	
ENSG00000227308	1.814501932		0	0	0	12.55641011
	20.70333709	0.604833977		11.0865824		-4.156087721
	0.049284529	0.211037046		AC009502.1		2
219685381	219737937	+	2951	lincRNA		
uncharacterized	LOC105373886	[Source:NCBI gene;Acc:105373886]				-
2	0	0	0	11	24	0.033188641
0	0	0	0.229124134		0.378157789	
ENSG00000108448	454.532734		672.5963164		487.0840013	
579.1063887	748.8186393		867.8148795		538.0710172	
731.9133025	-0.443697094		0.049311218		0.211100226	
TRIM16L 17	18697998		18736118	+	4329	
protein_coding	tripartite motif containing 16 like	[Source:HGNC				
Symbol;Acc:HGNC:32670]	-	501	760	419	559	656
1006	5.667334201		8.318642246		6.021896456	
7.175237251	9.314587221		10.80541405			
ENSG00000129473	398.2831741		369.0429789		349.9099866	
278.6755251	310.4857773		211.3465661		372.4120465	
266.8359562	0.483585231		0.049339055		0.211168291	BCL2L2
14	23298790		23311759	+	4189	
protein_coding	BCL2 like 2	[Source:HGNC Symbol;Acc:HGNC:995]				-
439	417	301	269	272	245	5.131955046
4.716850759	4.470570848		3.568239227		3.991222175	
2.719485466						
ENSG00000196187	627.8176685		613.3016411		435.9343687	
520.0561844	287.6559407		375.2479847		559.0178928	
394.3200366	0.504083501		0.049400407		0.211378644	
TMEM63A 1	225845536		225882369	-	10339	
protein_coding	transmembrane protein 63A	[Source:HGNC				
Symbol;Acc:HGNC:29118]	-	692	693	375	502	252
435	3.277602202		3.176004727		2.256625955	
2.697970679	1.498198527		1.956328311			
ENSG00000169410	1262.893345		989.4245812		1597.263527	
862.9617563	1083.275745		998.0733754		1283.193818	
981.4369589	0.385996839		0.049412103		0.211378644	PTPN9
15	75463251		75579289	-	8632	
protein_coding	"protein tyrosine phosphatase, non-receptor type 9	[Source:HGNC Symbol;Acc:HGNC:9661]"				
833	949	1157	7.896897248		6.137009742	1374
9.903350449	5.362232165		6.757750307		6.232365939	
ENSG00000214425	378.3236528		163.7241033		229.010855	
202.0138565	134.6960357		141.4728034		257.0195371	
159.3942319	0.689812232		0.049427581		0.211393732	
LRRC37A4P	17	45506741		45550335	-	6924

transcribed_unprocessed_pseudogene					"leucine rich repeat
containing 37 member A4, pseudogene [Source:HGNC					
Symbol;Acc:HGNC:25479]" -	417	185	197	195	118
164	2.949223456	1.266021584	1.770174228		
1.564910829	1.047544083	1.101330856			
ENSG00000078070	482.6575139	533.6520773	503.3588844		
446.5024213	270.5335633	385.5996532	506.5561585		
367.5452126	0.461692538	0.049449724	0.211437315		MCCC1
3	183015218	183116075	-	4321	
protein_coding methylcrotonoyl-CoA carboxylase 1 [Source:HGNC					
Symbol;Acc:HGNC:6936] -	532	603	433	431	237
447	6.029149454	6.612405625	6.23462701		
5.54249165	3.371408985	4.810101879			
ENSG00000148344	39.01179154	77.87957347	132.5240481		
7.251779464	11.41491828	69.87376267	83.13847103		
29.5134868	1.480297181	0.049476826	0.211499265		PTGES
9	129738331	129753047	-	1896	
protein_coding prostaglandin E synthase [Source:HGNC					
Symbol;Acc:HGNC:9599] -	43	88	114	7	10
81	1.110602908	2.199230652	3.74087645		
0.205150108	0.324197026	1.986450301			
ENSG00000081154	3443.924667	3477.145957	3852.497328		
3245.689295	2865.144489	2903.643026	3591.189317		
3004.825603	0.256983451	0.049488126	0.211499265		PCNP
3	101574095	101594437	+	3102	
protein_coding PEST proteolytic signal containing nuclear protein					
[Source:HGNC Symbol;Acc:HGNC:30023] -			3796	3929	3314
3133	2510	3366	59.92569697	60.01594878	
66.46875698	56.12167766	49.73696586	50.45489844		
ENSG00000244462	2336.171237	2272.667553	2180.834335		
2582.669458	2681.364304	2837.21982	2263.224375		
2700.417861	-0.25478038	0.049545326	0.21169258		RBM12
20	35648925	35664956	-	6702	
protein_coding RNA binding motif protein 12 [Source:HGNC					
Symbol;Acc:HGNC:9898] -	2575	2568	1876	2493	2349
3289	18.81488176	18.15586884	17.41547231		
20.66949655	21.54398081	22.81867738			
ENSG00000185651	3130.923084	3546.175579	3639.761356		
3898.349446	3839.97851	4756.591696	3438.953339		
4164.973217	-0.276741608	0.049598044	0.211866445		UBE2L3
22	21549447	21624034	+	3838	
protein_coding ubiquitin conjugating enzyme E2 L3 [Source:HGNC					
Symbol;Acc:HGNC:12488] -	3451	4007	3131	3763	3364
5514	44.03202638	49.46987498	50.75571427		
54.48052595	53.87637622	66.80251443			
ENSG00000183813	0	2.654985459	0	12.43162194	0
26.7418104	0.884995153	13.05781078	-3.841063957		
0.049609973	0.211866445	CCR4	3	32951574	
32956349	+	3095	protein_coding	C-C motif	
chemokine receptor 4 [Source:HGNC Symbol;Acc:HGNC:1605] -					0

	3	0	12	0	31	0	0.045929006	
	0	0.215443123		0	0.465727689			
ENSG00000272716	11.79426256		3.539980612		2.3249833		0	
	0	0	5.886408823		0	4.993613762		
0.04961539	1	AL121658.1		2	32165046			
32165757	-	712	lincRNA novel transcript				-	
	13	4	2	0	0	0	0.894112244	
	0.266199012		0.174765961		0	0		
ENSG0000047849	7549.235288		7326.874873		8952.348196			
7066.341104	6885.478708		5829.714668		7942.819452			
6593.844826	0.26851153		0.049625945		0.2118835		MAP4	
	3	47850690		48089272	-	14943		
protein_coding	microtubule associated protein 4		[Source:HGNC					
Symbol;Acc:HGNC:6862]	-	8321	8279	7701	6821	6032		
	6758	27.26882401		26.25224973		32.06388731		
25.36426586	24.81252128		21.0286508					
ENSG00000246308	15.42326642		7.964956378		12.78740815		0	
	0	3.450556181		12.05854365		1.150185394		
3.316065466	0.049659193		0.211974293		AC116535.1		11	
	10809297	10822931		+	2335	antisense		
	uncharacterized LOC101928053		[Source:NCBI gene;Acc:101928053]					
	-	17	9	11	0	0	4	
0.3565256	0.182634183		0.29309786		0	0		
0.079653364								
ENSG00000111203	343.8481161		370.8129692		380.1347695			
529.3799009	409.7955663		526.2098176		364.9319516			
488.4617616	-0.421921877		0.049694392		0.212025433		ITFG2	
	12	2812622	2859791	+	6250	protein_coding		
integrin alpha FG-GAP repeat containing 2			[Source:HGNC					
Symbol;Acc:HGNC:30879]	-	379	419	327	511	359		
	610	2.969531087		3.176584749		3.255176802		
4.543106591	3.530707917		4.538170786					
ENSG00000163961	901.8074602		993.849557		804.4442217			
804.9475205	632.3864728		667.682621		900.0337463			
701.6722048	0.359780309		0.049700153		0.212025433		RNF168	
	3	196468783		196503768	-	5347		
protein_coding	ring finger protein 168		[Source:HGNC					
Symbol;Acc:HGNC:26661]	-	994	1123	692	777	554		
	774	9.103426369		9.951671071		8.051981288		
8.074634599	6.368643528		6.730724193					
ENSG00000198912	758.4618076		841.6303906		746.3196392			
732.4297259	527.3692246		533.973569		782.1372791			
597.9241732	0.387932203		0.049707133		0.212025433			
C1orf174	1	3889125	3900293	-	4388	protein_coding		
	chromosome 1 open reading frame 174		[Source:HGNC					
Symbol;Acc:HGNC:27915]	-	836	951	642	707	462		
	619	9.329714243		10.26928812		9.102805343		
8.952922777	6.47176467		6.559263053					
ENSG00000125388	84.37433984		147.7941906		127.8740815			
154.3593057	301.3538426		149.2365548		120.014204			



201.6499011	-0.74682031	0.049789335	0.212206361	GRK4
4	2963608 3040747	+ 4686	protein_coding	G
protein-coupled	receptor kinase 4	[Source:HGNC	Symbol;Acc:HGNC:4543]	
-	93 167	110 149	264 173	
0.971872622	1.688653824	1.460485493	1.766835138	
3.462972181	1.716622644			
ENSG00000105953	3775.97852	3462.986034	3701.373413	
3156.596004	2938.199966	3136.555569	3646.779323	
3077.117179	0.244872801	0.049795054	0.212206361	OGDH
7	44606572	44709066	+ 5210	
protein_coding	oxoglutarate dehydrogenase	[Source:HGNC		
Symbol;Acc:HGNC:8124]	-	4162 3913	3184 3047	2574
3636	39.11947666	35.58758893	38.02263253	
32.49726221	30.36813906	32.45018442		
ENSG00000172123	17.23776835	39.82478189	86.02438209	
14.50355893	19.40536108	18.11541995	47.69564411	
17.34144665	1.454344453	0.049797346	0.212206361	SLFN12
17	35411060	35433283	- 3560	
protein_coding	schlafen family member 12	[Source:HGNC		
Symbol;Acc:HGNC:25500]	-	19 45	74 14	17
21	0.261355887	0.598947776	1.293268109	
0.218519441	0.293525802	0.274283899		
ENSG00000128683	33.56828574	43.3647625	32.5497662	
118.1004084	65.06503421	46.58250844	36.49427148	
76.58265036	-1.065849263	0.049797535	0.212206361	GAD1
2	170813213	170861151	+ 8242	
protein_coding	glutamate decarboxylase 1	[Source:HGNC		
Symbol;Acc:HGNC:4092]	-	37 49	28 114	57
54	0.219835486	0.281701987	0.211364608	
0.768571516	0.425098532	0.304643676		
ENSG00000156273	1691.115801	1608.921188	1679.800434	
2069.865053	2056.968274	1871.926728	1659.945808	
1999.586685	-0.268392982	0.049894783	0.21255814	BACH1
21	29194071	29630751	+ 7717	
protein_coding	BTB domain and CNC homolog 1	[Source:HGNC		
Symbol;Acc:HGNC:935]	TF_bZIP	1864 1818	1445 1998	1802
2170	11.82840242	11.16276596	11.65000719	
14.38662844	14.35336228	13.07501668		
ENSG00000198015	1795.449662	1539.891566	1722.812625	
1479.363011	1353.809308	1302.584958	1686.051284	
1378.585759	0.290493269	0.049904119	0.21255814	MRPL42
12	93467488	93516213	+ 16393	
protein_coding	mitochondrial ribosomal protein L42	[Source:HGNC		
Symbol;Acc:HGNC:14493]	-	1979 1740	1482 1428	1186
1510	5.911749712	5.029412423	5.624664353	
4.840406241	4.447066362	4.283014321		
ENSG00000071282	388.3034134	384.9728916	378.9722779	
246.5605018	297.9293672	301.9236658	384.082861	
282.1378449	0.444840844	0.049959803	0.212744091	LMCD1
3	8501707 8574673	+ 9130	protein_coding	LIM

and cysteine rich domains 1 [Source:HGNC Symbol;Acc:HGNC:6633] -

428	435	326	238	261	350	2.295628855
2.257589207		2.221537605		1.448499078		1.757183392
1.782494855						
ENSG00000204792	9.07250966		3.539980612		4.6499666	0
0	0	5.754152291	0		4.958589462	
0.049987213	1	LINC01291	2		74918148	
74938418	+	4176	lincRNA long intergenic non-protein			
coding RNA 1291	[Source:HGNC Symbol;Acc:HGNC:50358]				-	10
4	4	0	0	0	0.117264942	
0.045386422	0.059594523	0	0	0	0	