

Supplemental Table S3. RNA sequencing data of BT-549 shNC vs BT-549 shMYC-3 (FPKM value of each gene)

GeneID			GeneID	(Continued)	
	BT-549 shMYC-3	BT549 shNC		BT-549 shMYC-3	BT549shNC
BBX	5.683682955	5.069179712	PTPN18	2.223927922	1.778286068
WDR83OS	111.3034883	115.0014416	AHNAK2	14.44850195	12.06037263
DHDH	0.196117071	0.134314677	PTPN11	22.64832601	26.4904063
BCR	8.874793426	8.062902426	PTPN12	24.68221664	24.85244825
VOPP1	30.11668551	26.90003106	PTPN13	3.970000698	4.268661249
COL13A1	8.297603476	7.017464843	PTPN14	2.975232468	2.597226838
TARSL2	0.545867722	0.495202717	CLEC2D	0.187134084	0.231343488
GTF2IRD2B	1.766498425	1.683098305	FOLR1	0.1	0.1
DHFR	5.285843579	7.486635082	FAM65A	8.768778432	7.823932971
STRN	2.559493481	2.61588356	KIFAP3	9.070641835	9.016693135
BBC3	3.003408317	2.958042104	CDON	1.770685472	1.274618126
BGN	0.631416499	0.631217601	MRPS18B	24.8225764	29.22641666
TMEFF1	2.524114292	2.78582056	MRPS18A	35.83924424	37.82924139
TMEFF2	9.31303434	6.586910833	MRPS18C	12.93720225	16.41349146
STX6	8.956494794	9.837766918	CEP57L1	4.682883152	4.842224552
STX5	28.57329603	24.591661	CRYZL1	5.352817602	6.018589927
STX4	32.48521162	25.5635278	FAM64A	56.37344123	63.933639
STX3	1.544205383	1.314511696	AURKAIP1	164.9797094	186.3576768
BID	11.17496456	14.95828252	CDS1	0.466337784	0.377920152
STX2	7.626563071	8.567961167	TWF2	88.04951567	89.67385112
SPDEF	0.1	0.1	TWF1	18.26404182	21.96773988
MBD3	68.05867324	72.2102278	CYP4X1	0.1	0.1
MBD4	12.88166338	14.00680758	CDR2	12.21299204	11.49458102
MBD5	1.627057433	1.358092763	CDR1	0.979852266	0.756786622
GATSL3	2.726390081	1.838074371	CDT1	18.35577583	20.0268474
MBD6	13.28707449	13.55978461	CDSN	0.110068077	0.114377584
BIK	0.1	0.177847148	GADD45B	13.62622339	14.47904769
MBD1	14.87264839	15.27902383	GADD45A	29.91551548	29.90973209
MBD2	9.82334039	11.23968984	CDS2	7.619410241	6.844032569
PRKRIR	9.936542725	11.35616077	FAM69B	0.700978782	1.387329674
FBXO27	1.508317749	1.440752994	FAM69A	1.238765708	1.880407825
FBXO28	8.286781677	9.763128961	VLDLR	6.908873086	6.144226532
FBXO25	9.864797761	9.031764828	PP2D1	1.715311767	2.559375444
FBXO24	0.307436332	0.165828156	CDV3	47.39707632	48.16244357
FBXO21	4.26052041	5.585695258	PTCHD1	0.640034064	0.780048029
FBXO22	6.275087186	5.92558395	CTNNA1	119.7813794	101.2897076
FADS3	5.952848828	5.644471018	EBLN2	0.378476172	0.365116137
FADS2	262.269845	269.082414	CILP2	0.755731765	0.59470667
FNTA	48.27913585	51.31797797	GDF11	4.01031117	4.40858624
FNTB	2.495766586	2.731725163	DMRT2	0.117700605	0.1
FADS1	55.01320498	55.03629226	GDF15	158.6379802	97.68856884
FBXO18	17.61550855	17.11882514	CTNNB1	102.3873441	101.8280912
STX8	18.07900598	19.18356896	SERHL2	0.173864375	0.240641388
FBXO16	0.909930821	0.871073981	SLX1B	0.588430809	0.480452986

FBXO17	10.1017929	9.520993644	APLP2	272.0946448	235.4319294
STX7	10.62408772	9.951237574	APLP1	25.37588659	20.25197354
FBXO15	0.783178599	0.672637214	CDYL	18.45781905	16.44458348
FBXO10	9.547751354	10.05664176	PHOSPHO1	0.165347518	0.123329664
FBXO11	6.960867055	6.301987572	PHOSPHO2	1.755817593	1.34139839
MINPP1	9.012593944	9.319123109	SLX1A	0.322014004	0.226817662
LOC642441	0.130487839	0.143537754	ZFP36L2	32.41304717	24.24686582
BLM	2.333871897	3.085762158	ZFP36L1	53.2188722	41.70756123
IREB2	3.910467465	4.265592715	EP400	2.00646888	1.804578879
FBXO48	1.15087173	0.768486261	GNB2L1	1655.982542	2091.689179
FBXO45	5.01149348	5.547983241	B4GALT2	61.0083937	54.89973007
FBXO46	9.969005124	10.12410912	B4GALT3	17.69674723	20.68227026
FBXO43	1.201385687	1.639590653	B4GALT1	67.4176704	57.17678201
FBXO44	6.359189997	5.742335518	PKD2	6.175813846	5.803985781
FBXO41	1.624099522	1.40797483	PKD1	8.394833701	6.963306666
FBXO42	6.555784908	6.112981275	CKS1B	80.7256831	103.3936034
MBIP	5.742766128	7.640379653	CYP4V2	0.899250415	0.763222098
BMF	2.435455207	1.425648565	KLF10	22.49471688	23.45896065
HTR1F	0.908533231	0.927186981	KLF11	7.931980263	6.998245631
FBXO38	8.540758122	8.715798851	LOC10192862 1	1.888339999	1.05768071
HTR1D	0.356549516	0.427109049	KLF12	1.958579522	1.895040753
STYX	2.716251358	2.87539085	KLF13	4.207846416	4.232477654
FBXO36	0.982711963	1.006016802	KLF14	3.188994847	2.581298954
HTR1B	12.63385455	9.871608992	KLF16	28.15404946	35.48529049
FBXO34	9.168240788	9.207655919	KLF17	0.44844357	0.633132379
FBXO32	40.35784219	23.30774418	B4GALT6	0.887794603	0.978424376
FBXO33	2.975531936	3.111334523	B4GALT7	14.11859855	10.36929997
FBXO30	5.70998363	6.259920517	B4GALT4	5.531846291	4.32553561
FAM90A1	0.1	0.1	FAM60A	5.465127373	9.699270862
FBXO31	6.052206608	5.555389933	B4GALT5	19.48283684	16.08940581
PPWD1	12.57391273	14.52736229	ZNF197	3.45584436	3.715074039
HTR2A	0.453215224	0.399916081	TM2D2	26.85326678	22.34019905
BOC	3.025259954	2.0611358	ZNF195	1.79058685	1.774729285
SPDL1	27.73075788	34.87230495	TM2D1	10.24088927	13.33519849
BOK	10.14875475	9.88153683	TM2D3	11.08771225	10.59326049
SLC36A1	5.85936554	4.713478488	IWS1	14.37771989	13.7370282
VPS13C	1.537949842	1.337658189	RMND5B	24.27485823	20.28514456
VPS13D	2.40314889	2.289625632	RMND5A	3.418899305	4.19157712
DHPS	47.9781739	51.24166106	FAM63B	0.773615201	0.965752532
VPS13A	1.716317494	1.70619435	FAM63A	2.174474399	2.028130497
VPS13B	3.32989007	2.773952375	LEKR1	0.329712419	0.402140055
RABGGTB	28.76591819	41.8173712	ZNF189	3.8254638	3.988631823
RABGGTA	7.916480836	8.366515009	ZNF185	1.624943685	1.377133066
C1D	3.660523656	5.184558603	ZNF184	2.785788891	2.341036189
C1S	21.57541225	13.74474131	ZNF182	2.723510657	2.549614747
C1R	55.26839561	30.88089618	ZNF181	2.069077476	1.746703639
SLC36A4	5.191413714	5.650966626	ZNF180	2.196946642	1.97568638
GPKOW	27.80139683	26.44408136	LOC10192864 1	2.104748614	1.750971411

BRE	19.36372376	16.72256378	PIK3IP1	0.331081297	0.369993931
IL2RB	0.1	0.11834075	LURAP1L	20.03075013	17.90244183
LGALS1	0.642997408	0.671872434	FAM19A4	0.167939769	0.116170081
PEX26	10.26570677	10.40829189	FAM19A3	2.939663353	1.607681596
LGALS3	203.7086346	146.1061275	GSTK1	35.65230129	38.4649288
LGALS2	0.1	0.521524616	ORAI3	6.866962495	4.931735539
LGALS1	3439.032469	3308.593829	AGTR1	4.920665303	3.311549598
MCIDAS	0.89013349	0.999145663	ORAI2	6.385475005	5.109479476
BSG	496.2745045	505.898853	ORAI1	25.26227739	25.85091349
LGALS9	1.719796051	0.604682533	SHMT2	74.15867231	77.65623713
LGALS8	0.645897832	0.389382924	SHMT1	13.78919133	15.74177593
BTC	0.374874481	0.492530859	RDH11	26.58139469	26.30281053
BTD	5.82355526	5.570490063	RDH10	5.225649583	4.911103057
CFDP1	13.74787261	17.06644817	RDH14	4.38598035	5.362734826
CRISPLD1	4.660287653	3.69031084	RDH13	1.594268688	2.252991294
CRISPLD2	13.27014206	10.08571278	GSTM4	1.958004997	2.050955444
SUB1	41.08921682	52.52049831	GSTM3	8.685115313	8.000598999
DHX8	10.16060347	9.809323053	GSTM2	3.474372523	2.98621726
DHX9	60.61162007	70.70830476	NEBL	1.003687568	1.040988891
RACGAP1	51.61392407	58.86402934	PKIB	0.204110776	0.304426767
SLC10A4	0.51698381	0.607899348	PKIA	2.313586903	3.252253588
BBS2	4.586197692	4.30506006	PKIG	62.71783477	59.79017958
BBS1	2.58194528	1.740068475	GTF2H2C	5.823027663	7.198266367
XBP1	82.50842672	56.98451527	KCNC3	0.1	0.1
SLC10A7	1.808572316	1.767903155	KCNC4	0.334172986	0.409327056
SPDYC	0.1	0.1	KCND1	0.529258433	0.406498407
SLC10A3	69.02379042	59.9209945	GSTO2	0.21633596	0.224599019
SUCO	6.4402336	5.35437986	GSTO1	64.9285093	68.35747702
MC1R	11.60002453	11.01638579	PKN3	8.227258919	8.886539638
C8G	0.305178819	0.217201157	GSTP1	164.3593089	179.6853264
SUFU	4.614763359	4.358182374	PTAFR	0.244375943	0.254630614
BBS9	4.818142845	3.26578726	ADAM22	0.582706406	0.699240569
BBS7	4.726259197	4.910814717	KIAA2022	0.104433838	0.1
BBS5	1.515207418	1.239732062	KCNA7	0.1	0.108484484
BBS4	4.202875663	4.11160673	SDAD1	13.49394761	14.90689275
ZHX2	0.561579795	0.429576454	KIAA2018	0.513093755	0.587084178
PCYT1A	27.99550564	28.8286467	PKLR	0.213963942	0.320867802
ZHX3	4.602918353	4.407452089	KCNB1	1.516144936	0.868476661
CACYBP	29.72580991	43.08559257	ADAM32	0.423862013	0.426461308
ZHX1	15.58249939	17.23135688	KIAA2013	81.95592631	78.23032663
RNF144A	5.557599306	5.541339359	PKN2	8.313136022	8.972457833
RNF144B	0.1	0.128677361	MITD1	9.441239225	9.837218621
TAX1BP1	30.95816538	28.1810278	PKN1	57.83676009	52.39313946
TAX1BP3	99.41972258	79.30395713	KCNG1	0.300584081	0.271864863
LOC102724905	1.010095363	1.453801685	KCNG2	0.137081568	0.179430763
PEX16	11.83532514	12.15365987	KCNG3	0.629837814	0.720822865
PEX19	17.31797569	16.94352163	RASL11B	0.179639157	0.270591464
PEX10	34.24155763	30.82699011	RASL11A	1.446760259	2.263626024
PEX12	1.532871598	1.994111355	GOLIM4	11.2024423	9.773761315

PEX13	3.747520443	4.363980564	PTAR1	1.820342081	2.018851743
PEX14	21.47469037	23.22753681	POFUT2	9.977528714	7.521909674
INPPL1	35.23813909	31.1301394	LOC10272368 7	0.853645217	0.781614272
IGF1R	2.307139395	1.782289726	POFUT1	27.74297685	29.66019106
PPIP5K1	1.184649693	1.341594294	NEK1	1.243495267	1.230003653
PPIP5K2	11.36373563	13.09038293	NEK2	21.72414329	26.44499343
ENPP2	2.237090115	2.822507609	NEK3	6.962301182	6.121082046
ENPP1	4.742246599	4.521193953	KCNH1	1.439479014	1.028955802
LOC10192784 8	0.601598536	0.432568386	PIAS4	17.47690957	17.88896973
ENPP4	3.374706561	2.929619086	KCNH2	0.112109855	0.1
ENPP5	0.1	0.119194911	PIAS3	29.94244615	29.89548634
DHDDS	35.05211765	29.62594571	KCNH3	0.335666075	0.45523647
HTRA1	91.72538897	87.46376024	DGAT2	4.947939049	4.453349575
HTRA2	9.9605561	10.31180575	DGAT1	16.30946858	16.18975657
DAPP1	0.117682531	0.1	PIAS2	3.170186497	3.534398981
CHCHD10	4.914355912	9.693857637	PIAS1	7.732827247	6.829998132
IGF2R	43.10795408	31.21242075	LENG1	12.53328314	11.77007475
BSPRY	0.122125757	0.1	DMTF1	6.654646704	7.215792519
ZIC2	12.65561954	13.79055276	PKP2	0.275550609	0.283841328
CA2	0.411832395	0.322654059	PKP1	0.109537594	0.120430053
ZIC1	1.281839411	1.837348636	PKP4	8.666133015	10.34513237
CA4	4.549334488	4.093825396	PKP3	3.318057029	3.493805876
CA7	0.1	0.426724893	KCNE2	0.488178906	0.561944784
CA6	0.251904319	0.316924948	ZC4H2	3.436942147	4.405680847
CA8	0.1	0.116283655	NPAS1	0.532291585	0.354193992
TMEM189- UBE2V1	38.92992977	42.58413412	NPAS2	1.02681869	0.823530358
SUN2	59.49114981	57.06473698	LOC10050571 0	0.1	0.1
SUN1	49.49758426	49.1536919	NEK8	0.572614836	0.619162578
ATP6AP1	309.3337915	265.023002	KCNF1	2.097253112	1.866388865
CAD	15.82132763	15.33845881	NEK9	9.351981329	8.774656598
ATP6AP2	58.42723144	55.13120775	SDF2L1	40.93584357	38.08544477
HUNK	0.142208214	0.110045813	NEK4	5.21704741	5.237034285
CAT	21.01603586	18.5180599	RASL10A	0.204599887	0.373849549
SHANK3	0.924272988	0.930270329	RASL10B	4.930785617	5.488758017
SHANK2	0.1	0.103485966	NEK6	19.58172887	19.72016432
CBL	3.20847281	3.065947932	NEK7	39.64781535	33.94595907
CBS	4.071564804	3.952637336	C6orf15	0.115243919	0.110884438
TBX20	0.925979733	1.299866121	DRAP1	229.2025468	221.4469797
ZIC4	0.622184411	0.611583872	MNAT1	17.41709233	20.26978522
ZIC5	2.642753387	3.343823102	BCAR3	85.58903492	79.65328624
SUOX	8.814816162	7.060806163	KCNK5	0.1	0.109805489
TBX19	1.517522441	1.493331543	KCNK6	1.174180539	0.908820165
TBX18	12.14605252	10.37608658	KCNK7	0.332667267	0.289861375
TBX15	4.591834719	1.978533613	PIWIL4	0.327357886	0.227551056
CCS	8.683961975	7.594357771	ALAS1	53.97932192	53.35100528
CD6	0.1	0.1	NENF	38.20125266	40.12573884

CD7	0.990824703	0.475856711	BCAS2	40.73673506	44.02131332
CD9	105.1365518	90.35572356	BCAS4	4.020851092	3.168748145
CDA	0.262347741	0.138639756	BCAS3	2.564534972	2.04969337
CLEC11A	4.7892766	5.6100787	PIANP	0.17586897	0.235429595
HUS1	4.74926907	4.968839843	LOC10272365 1	0.571748259	0.478941539
CEL	0.339507144	0.286559092	NEMF	7.597872296	8.832115718
NUP93	11.17479355	11.48046558	BCAT1	2.275379154	2.650415685
BCAM	0.433118069	0.337852421	BCAT2	9.366309499	12.54794615
HECW2	0.932600598	0.673068984	LENG9	3.960785903	3.620802213
HECW1	1.295848159	1.148407377	LENG8	11.63527724	12.74191608
SRFBP1	5.394047618	5.685052523	U2AF1	2.391968102	4.391285891
NUP98	21.88146153	21.15861195	DRAM1	19.44059676	18.30681766
CFB	11.10528574	6.207052482	LOC10272366 5	0.248009336	0.117613564
CFD	5.81331179	4.875122841	U2AF2	165.6438807	197.7144017
CFH	14.08542978	9.267930579	DRAM2	15.18019651	19.28416238
RRP7A	7.156992894	7.59363357	KCNJ4	0.452212047	0.261669489
NUP85	23.52415864	28.41419694	COL26A1	0.1	0.11223019
NUP88	28.77210757	34.41396214	GSTZ1	5.823754726	4.551299941
C3orf18	0.542220344	0.511852326	KCNK1	0.124040387	0.1
C3orf17	6.485610944	7.439405743	KCNK2	7.307030084	5.905953727
MCAM	9.961510573	6.022681891	KCNK3	36.22298444	34.6484881
CGN	0.751682032	0.812510444	BCAR1	191.1151721	143.5552418
C3orf14	3.666584121	4.50920727	SLC23A3	0.207426131	0.268749308
MCAT	9.561743014	11.61198261	SLC23A2	5.972688161	6.307225451
ZNF559- ZNF177	1.013991502	0.817867396	CERK	8.094302239	13.10173474
MOCS2	7.903253274	9.211626085	CCP110	3.680274652	4.101003925
MOCS3	6.112721565	5.366155395	ATXN7L1	1.202586403	0.991464044
TMEM110- MUSTN1	4.728969162	4.142475957	ATXN7L2	2.228473162	3.257578187
STON1	0.920817264	0.870462887	ATXN7L3	20.2062724	20.19107501
CHM	7.488880628	7.202558095	LIMCH1	0.106627284	0.128392014
STON2	0.730223341	0.601582374	GOLPH3L	9.569516901	10.19532179
MCEE	2.428850347	2.87140322	SOAT1	19.16055807	16.95660072
RRP12	20.94624218	23.16442506	LOC10272361 0	0.735489627	0.553751268
CIC	31.20148533	29.52665697	NINJ2	0.332340237	0.630864632
RRP15	2.346252614	3.312504676	KCNQ1	0.1	0.1
ZIK1	2.899073944	2.770315562	NINJ1	21.1887307	19.73297788
CIT	5.326150509	5.331010113	KCNQ4	0.302786151	0.253842602
PLIN3	113.2161351	103.4246902	KCNQ5	3.589498423	3.75913838
PLIN2	112.0255348	107.3866541	CES3	0.1	0.1
PLIN1	0.1	0.112506462	CES2	9.207937341	8.64381297
RCCD1	5.094231903	5.060188466	GRB7	0.926810774	0.739554589
MOCS1	1.360408113	1.240536457	RRAD	0.135197342	0.150263098
TRBV12-4	0.797332577	0.597908271	ZBTB1	7.743232301	7.556656857
RASSF10	0.119355915	0.113820479	ZBTB5	7.930612186	7.552678277
MINOS1	11.88627408	13.48082979	ZBTB4	27.29092417	22.38022199

RRP36	58.59561385	66.12697568	ZBTB3	0.624054576	0.648804073
CKB	83.19353766	68.36038947	ZBTB2	9.079783239	8.707310273
PAIP2	75.40363316	86.21233164	NEU3	2.217373734	2.759225159
PAIP1	35.75611606	35.50927379	RRAS	111.5600642	83.00527272
HIPK4	0.142374614	0.1	NEU1	50.71340408	39.00320084
MOCOS	0.442912719	0.2496281	FAM192A	17.41165866	18.90896534
RRP1B	13.72355091	17.1631706	KCNN4	17.26607117	17.95216654
HIPK1	7.031029931	6.894609373	NTNG1	2.214152395	1.538921725
HIPK3	5.354032443	4.446103922	NTNG2	2.076060842	1.021664865
HIPK2	3.229019441	3.147934442	YES1	11.52151874	10.67797353
FOSB	0.801672438	0.610830678	NET1	36.71947333	34.3157703
CLU	129.5358694	100.1613584	ZBTB9	8.183863895	9.195730275
OIP5	6.278671291	8.233106014	ZBTB6	2.327930007	2.305403642
DIO2	0.475040606	0.210607212	GRB2	23.34674156	24.73960054
DIO3	8.132428647	4.123534675	TFB1M	2.489738316	3.279291616
FAM91A1	23.13960124	23.92635045	FAM194A	0.3783556	0.33488756
CNP	39.73140272	24.66693634	EIF5AL1	2.846382611	2.428045325
LOC10050692 2	2.942065032	2.129286645	FCER1G	0.53952011	0.47659052
MCL1	58.30832184	51.48699789	AGTRAP	47.54612718	29.22471641
TCEANC	0.619339657	0.446096852	TFB2M	9.815412379	12.04241072
BCL9	2.791862105	3.060177342	PITPNM1	24.2562374	19.27029317
UBOX5	4.129362564	3.660015488	PITPNM3	3.478177009	2.911500219
BCL6	12.40523949	10.5026929	PITPNM2	1.685799812	1.575793967
CPD	5.632354277	5.276693322	FAM193B	3.389909537	3.245482319
BCL3	30.04504756	28.76933666	FAM32A	65.89060956	61.82121094
BCL2	0.87622826	0.779945437	FAM193A	5.981276639	5.093029176
CPE	4.700298414	4.331912698	SSNA1	98.70252994	103.2225704
OSCP1	3.383293344	2.395491521	FAM35A	8.76743584	9.297372825
CPM	7.110968553	6.557688848	NEXN	1.382633659	1.490207649
MCM7	121.6845121	141.1299757	FAM196B	1.549598766	1.040945591
CPQ	10.67597992	9.401168778	KLHL2	4.438933557	4.167705822
MCM8	5.884405546	6.899791088	KCNRG	0.579550249	0.510889225
MCM9	1.242023094	1.276982046	KLHL9	13.48816907	12.57682289
CEP170B	8.584213018	7.336266869	ETAA1	2.110618043	2.982279658
GGPS1	16.54447802	16.63309891	TFAP4	2.916050528	3.96542012
DIS3	10.03569889	10.79778887	FAM195B	64.94813095	59.33519766
SAPCD2	9.899314702	15.69058224	KLHL5	8.103377601	7.491918577
MCM3	60.13222685	72.05666961	KCNS1	0.695167747	0.377858923
ST20-MTHFS	0.987861438	1.189092521	KCNS2	0.88714056	0.978176283
MCM4	86.75879474	103.7976055	FAM195A	15.74247241	17.62801259
MCM5	55.76499748	56.83396822	KCNS3	1.41987834	0.717978612
MCM6	21.14390253	23.13815127	KLHL7	6.163200558	6.762800699
CRK	43.49743881	48.10962779	KLHL8	2.107231823	2.113830302
MCM2	52.36236247	61.01397291	PLAT	11.83938405	6.42459625
STOX2	0.1	0.104028909	TXN2	87.04560913	99.68208562
CSK	10.66089828	10.64611513	PLAU	90.26853255	83.53749733
BCO2	0.207042466	0.240122194	FAM198B	4.931178888	3.158601427
STOX1	0.528640899	0.416259393	CARD10	15.56946206	15.49327029
SLC35A2	31.33226973	26.79188058	ADAM11	1.469002301	1.372425964

SLC35A1	9.312765802	9.227578141	ADAM10	19.15086557	16.43646532
SLC35A4	116.7704064	114.6633149	ADAM19	18.40110845	16.172813
SLC35A3	2.585664708	2.658000562	ADAM17	13.74230062	10.51585909
KBTBD11	0.161435361	0.187731953	BRMS1	47.49605018	47.82937596
CPPED1	0.133827952	0.220768895	ADAM15	41.87062327	37.72866425
ASXL1	28.70625366	26.43965136	ADAM12	31.41814569	23.05250571
CTH	0.804012632	1.070688461	PLAA	21.71315742	20.48157455
ASXL2	1.587067187	1.692689936	CARD14	0.187083079	0.135530811
BCOR	5.809685467	5.820611687	PLD6	9.595169366	9.211605428
SLC35B3	10.17695787	9.031313638	PLD1	1.522732067	1.263617827
SLC35B2	110.6816451	97.68508772	PLD3	173.460477	150.6953541
IL1RN	0.1	0.1	PLD2	13.91999073	12.91743499
SLC35B4	4.543602476	5.046977267	NME1-NME2	109.0572728	137.5346018
SLC35B1	25.87827829	24.88003036	GRK5	3.126090801	3.058252502
ARFIP2	13.7699668	12.93732064	GRK4	0.706173068	0.789303866
ARFIP1	6.402971394	6.230697845	GRK6	25.53007968	30.15733248
SLC35A5	4.879326309	5.252915448	PIBF1	4.087268849	4.912473711
TANGO6	3.356389715	3.156534656	FAM199X	6.544363876	6.809349972
IL1R1	22.66962475	18.68123978	ZMYND19	19.83797107	24.60640516
IL1R2	0.348062032	0.631362544	PITPNC1	0.809872954	1.026334604
TANGO2	14.54724275	12.78458552	MYBL2	111.1301868	136.668511
SLC35C2	21.48244531	20.11483786	MYBL1	59.03951967	48.3674523
SLC35C1	9.900441585	9.256558795	ELF1	12.49862823	7.901115322
IL23A	0.847859074	0.562787102	ELF2	6.146513327	6.494420906
SLC35D1	2.265304845	2.275946765	ELF3	0.563850687	0.465459765
SH2D2A	0.162068431	0.277272001	GFOD1	1.827521302	1.288628058
SLC35D2	4.353429541	4.768268321	ELF4	36.86877119	32.2577477
LOC101927903	0.868023102	1.013971007	GFOD2	2.8177533	3.371572352
SLC35E2	2.716548268	2.333665234	ZMYND10	2.828700422	2.388829223
SLC35E1	14.53374375	12.79490117	ZMYND11	11.86936504	12.57642559
SLC35E4	2.940766129	2.974724916	ZMYND12	0.129268325	0.120898122
LOC101927910	0.277156955	0.305551645	PLEC	64.54955207	52.68107174
SLC35E3	4.814794204	4.240891154	RRN3	9.405741284	12.34919476
LOC100506870	1.684213493	1.465190133	RRM1	30.18648068	38.57749609
SLC35F6	16.35469402	14.08616951	RRM2	55.65186053	61.10985747
SLC35F3	0.1	0.125661824	HS3ST6	0.1	0.1
SLC35F2	2.689369641	4.780651883	HS3ST1	7.608479726	6.046393051
CAB39L	1.896262413	1.903606135	VPS29	44.42713566	44.75246808
SLC35F5	4.017710056	3.555043036	RRP1	38.59626999	42.96254509
SIPA1L2	11.56258591	9.601481116	GRPR	2.134645312	2.037032176
SIPA1L3	12.70068232	11.02316191	ELK1	40.28301307	40.70273021
SIPA1L1	3.012053173	2.090591683	RRP8	6.656957288	8.806854539
SLC35G2	2.949754514	2.710997134	RRP9	26.07563849	29.3157592
SLC35G1	2.478127535	3.54236332	ELK3	12.61081426	12.68028555
GLTSCR2	53.99688985	70.97374194	ELK4	1.893994227	1.693695004
GLTSCR1	3.355949146	2.399119025	ALCAM	71.81603978	58.0228049
AMER1	1.373707726	1.475159779	VPS35	41.45543053	38.15398478

RGPD5	0.3242602	0.260125903	VPS36	6.629148984	7.50756086
RGPD8	0.370468355	0.22705222	VPS39	10.26809533	8.038944693
BEGAIN	1.592418502	1.165614228	VPS18	22.80117418	18.15662107
TCEAL8	0.27145636	0.467268972	TARS2	10.92240657	13.58636949
TCEAL4	46.14498331	49.17876627	VPS25	32.67561923	37.26148771
TCEAL3	33.02556487	31.55585292	VPS28	87.00210455	82.98885556
TCEAL1	19.0615726	20.40836678	RRS1	58.68983406	82.78998474
SVIL	18.00237812	14.93854319	VPS11	22.5375357	20.40223678
SVIP	1.035048182	1.515400149	ST3GAL4	39.77832552	36.47143522
SPCS3	8.735938992	9.567244761	ST3GAL5	1.903300956	1.54673035
SPCS2	11.16938213	10.90771681	ST3GAL6	0.114548103	0.151938065
SPCS1	50.99788703	63.5190583	ST3GAL1	2.694067801	3.240273287
QPCT	11.78369881	12.36307431	ST3GAL2	5.306802142	5.693300113
NUPL2	10.33981265	11.43095968	ST3GAL3	10.91091351	8.269727287
NUPL1	21.08424129	23.69137627	VPS16	15.51950093	13.14217962
SIPA1	18.71945216	16.61354615	LRRC37A3	0.521846203	0.283342745
C3orf67	2.08849071	1.743412425	PLK4	6.999988725	9.119537563
C3orf62	0.678844312	0.668295025	PLK3	1.662890663	1.766836104
FPGT	3.433595282	3.053707429	NFE2	1.046132528	0.734613218
FPGS	20.14823667	19.96219641	LRRC37A2	0.371050141	0.365214328
GATSL2	1.516853008	1.224065642	ARL14EP	4.532001595	4.710574327
C3orf72	0.45696583	0.391291612	APOOL	1.313026569	1.447940166
SPECC1L	11.68730355	9.380381447	GTF2IRD2	0.389987591	0.224233881
TIMELESS	17.26879492	16.8782877	PLK2	149.713822	129.0998953
NUPR1	58.94393543	38.29234873	PLK1	64.6498808	78.97427128
LOC101927989	0.1	0.1	ELL2	31.33435194	29.82564259
CLEC16A	4.050438127	3.938070016	ELL3	0.763835532	0.942650249
CAMSAP1	8.997472232	9.970633155	GTF2IRD1	8.277815902	7.659218726
CAMSAP2	11.22889914	11.1554177	RPS6KL1	2.27005334	2.534862496
C3orf80	0.281365979	0.30144233	EXOC8	3.351414039	2.916449345
PNPT1	14.76303113	9.371531238	EXOC7	22.31393852	19.84415178
DAK	4.240422452	4.035952553	PLLP	0.134703592	0.223895011
CAMSAP3	0.149654745	0.1177272	EXOC4	17.2601523	15.08629084
DAP	63.36432192	54.34744626	EXOC3	31.03769967	30.02763769
SKIV2L	8.210379211	8.16820353	EXOC6	1.667671701	1.822820103
DBI	162.4477405	172.8094529	EXOC5	6.545840499	6.716019769
DBP	4.400288295	4.209031189	EXOC2	6.117652229	5.636920404
DBT	1.243264348	1.197562013	EXOC1	11.20662552	10.72190469
STPG1	0.912867686	0.770687288	NFIX	36.0118979	38.43646164
C3orf38	11.99813826	11.30114844	C1orf198	3.39201598	3.256743652
C3orf33	0.449749664	0.464986617	PRUNE2	1.222988012	0.689161235
C3orf36	0.380312646	0.411341922	C1orf192	2.223168408	2.279223045
DCK	8.569233876	9.803959084	METTL21A	2.046145652	2.415972914
DCN	0.554119554	0.50531213	METTL21B	3.996345773	4.13594977
C1QTNF9B	2.843301754	3.956324206	APOL6	13.07885241	6.103701222
DNASE2	66.28095941	52.28676267	APOL1	4.026049437	1.378685211
DNASE1	1.978161079	1.584724534	APOL3	1.630081651	0.784092798
DDN	1.112938894	2.557092204	APOL2	24.8249596	10.67870665
DDT	35.33206207	40.48735972	ELP2	9.624400779	9.702390535

C3orf55	0.404203964	0.727487521	ELP3	28.83454171	27.67870616
C3orf52	1.354310902	1.272423163	ELP4	3.186959936	3.406219159
DEK	51.38175512	63.24148035	ELP5	40.55888207	48.4939303
C3orf58	0.946966858	0.892137188	ELP6	14.45649078	14.84202008
MDC1	3.094296366	3.387525857	NFIA	0.105478937	0.1
LOC101927681	0.523976689	0.604545242	NFIB	2.012610289	1.764372389
IL4I1	10.67587275	4.091437075	NFIC	12.29580052	12.15514424
AR	7.178946525	6.745341894	PLP2	391.1955522	401.4525129
CGGBP1	17.9206958	17.19649606	FAM49B	16.83448435	22.11221457
GRID2IP	0.189725867	0.180082397	C1orf174	17.82961757	17.02385313
C2	0.253328422	0.286758823	C1orf172	0.1	0.1
DYNC2LI1	1.314816656	2.064409075	LCLAT1	2.184211309	2.108656429
C3	0.558303757	0.303614321	THG1L	13.18606296	18.4506692
C5	0.527778127	0.310415215	PODNL1	0.255963005	0.289312766
CP	1.15055374	1.328063841	CFL2	17.7828344	22.49047925
CS	97.57847131	119.9455671	CFL1	1153.706967	1095.967652
LRSAM1	6.584373778	6.287808043	PLS3	81.26177411	74.48574675
RPLP1	835.7849945	1054.675552	IL13RA2	6.267558738	6.88123504
RPLP0	710.6076939	940.8655736	PLS1	0.838707403	1.241211421
QPRT	31.27076619	25.94189327	IL13RA1	22.17216011	19.72120273
ECSIT	19.6505689	23.431313	KCMF1	7.920548381	8.439188953
RPLP2	506.4405393	661.0232367	COL27A1	0.219764727	0.180763425
ACTL6A	38.17761487	43.79171199	FKBPL	4.236001962	4.433172686
SIRT4	0.237710476	0.493311238	C1orf185	0.764824385	0.755533711
SIRT5	2.343818926	2.012744576	LEMD3	3.250859025	3.555834156
SIRT6	10.84854006	10.71436213	LEMD2	24.11421272	22.78547986
SIRT7	11.63841272	10.95633419	LEMD1	0.532476811	0.215798646
F3	0.186838741	0.146503342	TOM1L1	2.297938641	2.683909866
SIRT1	12.65002758	12.05095388	TOM1L2	21.40879881	17.42875396
BIVM-ERCC5	6.312334307	7.052902235	OBSCN	0.208362527	0.16651349
SIRT2	51.3743057	44.83857204	FKBP8	191.7822978	164.6305758
SIRT3	3.125418955	3.231657723	FKBP7	1.334379515	1.73500457
F8	0.881913863	0.69114209	FKBP9	54.03064645	39.15026384
BDH2	0.740495196	0.824098449	FKBP4	46.4300461	62.40591043
BDH1	1.858080439	2.48507329	FKBP3	33.03718674	38.48846893
CDC42EP5	0.1	0.1	FKBP5	0.121106965	0.1
CDC42EP4	31.15518372	30.83082268	FKBP2	98.67239557	93.92642032
CDC42EP3	29.33452437	28.38633004	PLTP	46.41440237	45.1616908
CDC42EP2	4.465653527	5.600864979	C1orf162	0.597405843	0.613004426
CDC42EP1	154.0607724	172.8239887	C1orf159	8.712847533	8.89849207
DLD	23.96362094	28.08386384	SLC48A1	4.911571796	4.452512577
MDFI	0.1	0.1	C1orf131	6.589403092	7.179039346
FH	49.99214763	55.55250016	ZC3H4	6.837544026	6.989652912
CCNDBP1	0.128466453	0.130488356	ZC3H3	19.24923599	15.63013573
HLA-DMA	0.257008304	0.291241034	ZC3H8	1.55748595	2.435729915
HLA-DMB	0.1	0.131863278	ZC3H6	0.433165309	0.363603573
DMD	0.690229661	0.632061462	VPS72	44.9760711	50.71313978
MDH1	63.19718731	68.93777989	EVI5L	6.593909622	4.495272294

GK	1.495502745	1.242231367	LOC10028956 1	2.096206608	2.131092672
MDH2	186.8898151	232.2631331	HDAC4	1.357719396	1.395794441
TTLL7	2.221913451	2.652257596	CEBPA	1.798141323	1.425295181
TTLL5	9.10983887	9.0284886	HDAC5	4.613799475	3.272260659
TTLL4	5.78688183	6.083169489	C1orf112	9.924862372	11.09699188
TTLL3	2.36038008	1.5534493	HDAC2	15.5439239	20.03450702
TTLL1	3.310627666	2.392447137	CEBPB	70.11592879	63.2199118
TTLL9	0.121343992	0.313360036	HDAC3	40.85971654	45.81450711
HR	0.250583412	0.24111911	C1orf110	0.646855547	1.019481878
PABPC4L	0.635905163	0.617697708	CEBPD	222.0660875	193.428508
HLA-DOB	0.794198307	0.595670345	HDAC1	135.8789233	136.7683196
IK	88.35005035	98.07844099	VPS4B	9.936928185	10.54782432
VPS33A	13.79134691	12.22721299	CEBPG	16.7602371	15.08525599
VPS33B	2.75789098	2.896732825	VPS4A	45.79611403	45.6324071
NSMAF	21.47715011	23.10461734	TULP4	1.473626984	1.178245678
MDN1	1.36557827	1.807789662	TULP3	17.66240851	18.02606034
DR1	26.05135462	29.21816908	HDAC8	5.353743848	5.897416694
BDNF	11.97114527	10.16696837	HDAC9	2.717816296	2.590439976
ZC3HC1	15.57210974	17.65447408	HDAC6	9.120323857	7.332845772
MDM2	3.066663982	3.138801605	HDAC7	10.76878205	10.25117741
HLA-DRA	0.140586935	0.1	NFS1	16.49148787	20.01573501
MDM4	0.971267819	0.946646643	HECTD1	14.08238824	12.71368508
MDM1	2.357229616	2.28641936	HECTD2	1.403512413	1.593674437
SH2D4A	1.185184073	1.2349789	VPS51	47.42083707	44.50548009
MB	0.366416805	0.512157402	HECTD3	19.68912539	18.19720897
DSE	3.908145194	2.975851997	HECTD4	4.35025334	4.03270189
MDP1	4.091135235	3.804667044	VPS53	4.24627161	3.901118966
SPG11	4.802831313	3.548404765	VPS52	5.466428961	5.70417407
DSP	6.41637828	4.015283521	VPS54	4.249986389	3.78836254
DST	9.039495683	8.078705185	C1orf109	6.210951218	7.820640074
SH2D3A	0.425373342	0.363298883	C1orf106	0.98953435	1.052715802
SH2D3C	0.1	0.111760991	MGME1	13.63701846	16.09641757
VPS37C	7.94313892	6.855515056	C1orf123	20.01864629	17.36502665
VPS37D	1.168157097	1.324916391	C1orf122	74.43999118	65.76061433
VPS37A	18.63060783	19.73286445	EVI2A	2.412781101	2.577052293
VPS37B	12.4188064	14.67080196	APOC1	0.516944438	0.397705989
LOC10272474 7	0.1	0.1	VPS41	9.675000374	8.263142004
BDP1	2.358649198	2.092869424	CEBPZ	11.22350165	13.4561277
DTL	10.04499102	11.31620426	VPS45	13.28663599	15.43155106
RNFT2	0.655724495	0.791195643	EVI2B	1.277515412	0.928218866
COL15A1	44.52974388	30.10645755	C1orf116	0.1	0.133709711
HSD17B14	0.519977987	0.429859198	C1orf115	1.655741471	1.210827991
HSD17B12	5.28492116	5.988425593	C6orf89	17.45465652	15.49018984
HSD17B11	2.263480835	3.268748846	NFU1	15.50263991	16.81412178
HSD17B10	95.47887611	115.4655532	RPS6KA4	19.27742389	18.4046762
RNFT1	3.578880155	3.209580399	RPS6KA3	5.830707873	5.410775595
SLITRK2	8.422141201	6.145632184	RPS6KA5	0.875991261	0.950213956

SLITRK4	4.129165613	3.524272718	LOC10272372 6	0.1	0.180815177
SLITRK6	0.435490189	0.339546158	NIPAL1	0.147357591	0.1
SLITRK5	1.28071084	1.621601052	RPS6KA2	4.629483124	3.395619604
LINGO2	2.556287199	2.277964021	NIPAL2	0.88638645	0.867612559
DUT	13.05150661	16.36542888	NIPAL3	0.904258619	0.728946422
LINGO3	0.124390271	0.1	RPS6KA1	5.280511833	5.816606416
PC	22.22142877	17.84184236	LOC10272372 8	2.001877192	1.172085728
PABPC1L	2.245058625	2.652685443	C1orf101	0.900699645	1.142537762
MDGA1	8.224860091	4.339571255	TWSG1	12.27175818	11.25985298
SPG21	54.25715591	56.13500878	GSAP	0.259800913	0.145640315
SPG20	31.03250509	26.92022862	OBSL1	15.82354303	11.99389855
TXNDC11	14.45607982	12.57834602	SLC22A4	0.502906801	0.319992774
TXNDC12	36.66796284	43.91952002	SPRR2E	0.1	0.1
TXNDC15	21.56211605	19.73808797	SLC22A5	1.245870193	1.095074502
TXNDC16	1.588799793	1.618614862	CRHR1	0.196277385	0.223738879
TXNDC17	27.46517867	35.62101599	LOC10272374 3	0.460772757	0.57226369
SLC34A3	0.412380481	0.271573387	GSE1	2.465538609	3.090053801
SLC34A2	0.1	0.108889088	FAM43A	23.32527677	18.15760522
LOC10272470 5	2.816406639	2.342621158	FAM43B	0.1	0.1
DXO	7.827344028	8.218723163	SPRR2A	0.1	0.1
LOC10272470 8	3.568796444	1.943188381	ARGLU1	25.66525684	32.22367814
LOC10272470 9	0.544028008	0.705266115	SPRR2D	0.1	0.1
EPHA10	0.1	0.1	ZHX1- C8ORF76	9.898276208	9.258153666
MST1R	2.081377286	1.506966487	C6orf99	0.196295231	0.1
OSGEP	13.65528704	14.38981417	MPHOSPH10	8.106977498	11.45962192
SWI5	16.46385789	17.94754988	TECPR2	3.862071519	3.200433415
DYM	9.615975176	9.431932475	SPRR1B	0.1	0.1
TF	0.193069289	0.113290636	TECPR1	3.834704507	3.425238569
PCSK9	0.142009119	0.169988993	FAM45A	6.877022848	5.684339731
PCSK7	15.80773811	13.33048872	RSF1	4.000794047	3.937439866
SLC7A11	1.456936339	1.253425565	C6orf47	5.703308807	5.576840128
PCSK6	0.122815668	0.1	C6orf48	44.46493396	54.55677822
PCSK4	1.236548755	0.68900405	GSG2	8.959763717	11.27997214
CLYBL	1.250066437	1.657388656	TYK2	15.08124159	13.71341927
HYAL1	0.201985232	0.143691597	MTSS1	4.717458332	4.182931848
HYAL2	40.72663061	43.15874822	NFX1	24.11155933	22.09577394
HYAL3	3.812713367	3.74266619	MEGF6	52.70773887	37.41855621
SSSCA1	61.66305758	67.70893896	TYMS	47.58799607	53.36281726
L3HYPDH	5.537126991	6.248700261	TYMP	27.80922695	13.68576352
G2E3	4.754298242	4.925365462	C6orf62	46.1716148	38.39863557
IGHMBP2	6.078207138	5.850815343	EMC1	20.13757093	22.15854553
ALS2CL	0.16779201	0.110756609	EMC2	29.13900135	33.14916421
PLK1S1	2.601969723	3.015625056	SUSD4	2.312118891	1.248722565

PLEKHG4B	2.054111651	1.69586035	EMC3	64.16981248	64.34268859
XK	0.1	0.107294821	SUSD3	0.1	0.1
THEMIS2	13.85068675	5.696807011	EMC4	59.94072591	63.48248642
GLB1L	1.536361089	1.33564844	FAM47E	0.291584304	0.213995594
DKC1	59.90835746	76.36011195	SUSD5	10.87431079	9.008529019
EBP	48.41423857	48.86424093	EMC6	58.13837555	60.90517031
HCAR1	0.187254412	0.199682005	EMC7	63.24002448	57.28977233
ECD	18.89230695	20.3938118	EMC8	23.58917207	29.26160518
STT3A	127.8225878	112.7926615	EMC9	15.91125821	16.05195763
STT3B	67.40131622	65.5184923	FAM46B	0.800269951	0.693756662
ACTL10	1.432084025	1.50840769	NFYA	9.606440456	10.50235179
MEA1	130.2055503	126.4393209	FAM46C	0.317977386	0.411279716
EED	6.012896406	6.342566614	NFYB	5.829262021	5.799419559
DARS2	16.39570886	19.07250024	NFYC	29.89787959	28.58898799
SGK223	11.04082599	7.962350439	SUSD2	2.172828205	1.906344881
ACVR1B	3.613666482	3.431906115	SUSD1	2.122762244	1.953504734
ACVR1C	0.129265028	0.125074921	FAM46A	38.24882616	27.33896272
EFS	0.1	0.111889156	C6orf57	6.43310805	9.355877655
APOPT1	15.36988951	18.51192216	RSG1	3.963043673	2.810727528
MDH1B	0.669329063	0.491993145	SLURP1	0.196743533	0.238153319
EGF	0.424695481	0.358334372	GSTA4	8.157598908	7.665948908
SWT1	1.326983183	1.004970574	C6orf52	1.235960867	1.830340113
ACVR2B	0.341231617	0.288493222	MEGF8	5.277914505	4.458157609
ACVR2A	0.690795655	0.736216124	MEGF9	0.760893862	0.936261395
RPL30	1158.594722	1648.580814	SPPL2B	13.44528216	10.52331485
EHF	0.357278885	0.215664128	SPPL2A	18.70865171	15.24344762
TMEM200B	9.326319681	7.064205281	PMCH	1.747068226	2.746083188
RPL32	384.9210127	558.0214079	ROGDI	9.051971908	7.599796952
RPL31	150.2939487	215.6010061	PAIP2B	0.132984938	0.129439814
TMEM200A	0.65850467	0.653864715	EME1	4.293178685	5.378906401
RPL34	110.0495143	163.6447246	EME2	1.639562309	1.838389593
TMEM200C	0.1	0.1	POSTN	0.899250415	0.703603296
ABCA13	0.103023235	0.1	PPAPDC2	1.651044499	1.443901358
GPR173	0.1	0.1	TRPC4AP	42.98848323	38.11859492
GPR176	11.65238387	7.282690002	MYADM	74.88079776	59.89994305
RPL36	482.4632533	645.3450768	PMEL	0.137673152	0.19414763
RPL35	803.9895424	1206.628075	ISYNA1	53.38386348	50.30515588
ADNP2	7.54364993	7.115396313	GSTCD	4.208713317	4.428552627
RPL38	338.5784729	465.2911248	PMF1	29.02322867	31.63661823
RPL37	265.9780322	371.3724377	EMG1	61.01674921	72.21216633
ANKS1A	4.366880024	4.756171486	TASP1	1.793197294	1.90634935
RPL39	30.60122705	39.40742191	DIAPH1	28.00947432	29.49980893
CSRP2BP	8.101112124	8.859177096	DIAPH2	3.446650594	3.494529355
ANKS1B	0.921447315	0.994831902	DIAPH3	14.06690932	16.31421383
MED1	9.944473693	9.988135608	PXMP2	19.534229	20.99211658
MECR	7.660801	11.0918947	PXMP4	2.369011049	2.685704456
RPL21	14.61714067	23.7646438	COLGALT2	1.503546657	1.388488983
RPL23	320.5412387	523.5327574	CGB7	0.1	0.1
RPL22	81.02937536	125.686436	NTMT1	35.03169394	40.51242393
MED8	30.31968966	27.00787448	COLGALT1	127.8021092	119.455874

MED9	8.750752692	9.365194522	OXSR1	25.24022987	25.58235601
AARSD1	3.070820824	4.424026702	RPS6KC1	9.833316886	7.86890835
MED4	13.45695272	16.25469589	TYW1	4.007156086	4.587908928
DKK1	55.79292019	46.68862865	PDSS2	2.966680824	3.400044063
MED6	7.546277755	9.269517604	PDSS1	7.744817342	11.09676677
MED7	5.693020426	6.612920795	ATP13A1	31.28378656	28.4458929
DKK3	17.0406338	10.22025621	RPS6KB1	3.0935455	4.564286958
GPR162	3.032067301	2.046116826	RPS6KB2	38.3272498	38.36451687
ABCA10	0.518498677	0.785518471	ATP13A2	13.58185041	12.99384305
GPR161	3.282996668	2.798572572	ATP13A3	10.37257101	10.10246621
GPR160	0.219154305	0.270156726	SCAMP5	3.902378937	5.176262786
RPL24	319.9423814	448.5301868	SCAMP4	48.06135309	40.05773007
RPL27	743.4755451	1100.485325	LACTB	12.16042597	10.22667041
RPL26	741.6298362	1083.505474	CYP2D6	0.253975332	0.341870675
RPL29	506.531513	690.6919657	TYW5	0.728832962	0.928919915
RPL28	165.3694837	184.9558243	TYW3	8.886311316	11.25772308
OSER1	26.60306262	23.43292094	FIBCD1	4.039811303	1.626133948
VPS26A	30.45938799	32.14211097	NGDN	12.36809123	14.23222326
VPS26B	24.07206648	25.73935825	SCAMP1	12.78626059	11.26685867
RPL41	301.3996149	402.2922264	HSPG2	1.376254628	1.028793659
PRRC2C	27.24719824	25.88129413	EML1	6.458148445	6.772426233
PRRC2B	19.32695064	16.84636285	SCAMP3	175.947802	155.7208816
SLC16A14	0.560686631	0.454241696	EML2	5.17268361	3.534645016
PRRC2A	32.70501306	33.19444275	SCAMP2	32.131926	26.62046118
SLC16A13	6.965414749	3.580230694	EML3	15.15070789	15.81516287
GPR180	8.540984946	7.113409672	EML4	10.42687745	12.50465119
SPEF2	0.369832959	0.401040141	EML5	0.833743694	0.905704658
ELL	8.962807867	8.169155592	EML6	0.417542505	0.482608871
SPEF1	0.263677621	0.146747531	PRKAR1B	5.897225504	6.345298142
GPR137	25.19799463	21.98611923	PRKAR1A	25.89657583	25.13464406
EMB	6.803390577	7.890721835	RBCK1	36.7969375	22.31352312
EMD	124.2166057	137.1738867	LOC391722	0.1	0.1
GPR135	0.670893154	0.60953525	NGEF	3.787496418	3.630003879
ZC3H10	5.611097275	5.923836556	SHOX2	4.260827388	3.267718082
EN1	10.53585746	8.928962577	AAAS	23.8273388	29.66225328
GCFC2	1.762628202	2.432493208	HSPH1	124.6861407	115.1749618
AFTPH	4.030358491	3.724866384	PRKAR2B	1.675141148	1.883275948
GPR126	0.14477915	0.158617415	PRKAR2A	10.19102124	11.31127483
GPR125	5.890059115	7.426239958	RSU1	45.17516921	44.31664122
ENG	0.197378214	0.20429475	EXPH5	0.125498811	0.118206619
PCYOX1	8.921185769	8.640557509	NGFR	0.175952159	0.251847464
GPR124	0.539097634	0.530326754	GLYATL2	0.739979499	1.175193222
RPL10	548.2778618	738.9588207	PMM1	22.80044929	19.42659817
RPL12	598.5629679	845.1725494	PMM2	19.646025	19.08620903
RPL11	876.7163424	1217.537555	GRIN2D	6.587534293	6.451092265
GPR153	3.752625304	3.862122684	GRIN3B	0.898267931	0.487585018
RPL14	254.6104905	404.5109908	LAD1	1.271145377	0.923153388
RPL13	149.7601534	173.439006	AACS	1.586110001	1.808945325
RPL15	215.4992537	291.927475	NIPBL	6.115726846	5.827119313

GPR156	0.804901994	0.854969461	LOC10272348 9	0.833368165	0.801301352
RPL18	509.6559297	657.4654995	APPL2	2.782482679	2.94467941
GPR155	0.271933006	0.394631979	APPL1	7.214264955	8.821198944
RPL17	121.9670142	179.7929234	NIPA1	2.252436761	1.919393984
GPR158	1.877711414	1.486229533	EMP1	115.6008062	97.50525875
GPR157	1.794613222	1.833709811	EMP2	0.651499756	0.59401611
RPL19	441.2074816	567.3401636	EMP3	437.4558046	379.3643577
F10	0.438224459	0.244899087	NIPA2	19.94136289	23.98502407
F12	0.505275686	0.841521606	FAHD2A	5.513142268	4.724431361
NMNAT2	6.649972151	6.471390053	FAHD2B	1.643107237	1.752710374
GPR143	0.130631649	0.12187156	PICK1	5.631739959	5.243096896
NMNAT1	3.39762139	3.200173634	PMS2	8.489874772	9.360461795
MSRB2	3.857933343	3.192887406	PMS1	4.718219169	5.694150025
MSRB3	2.209351128	1.711381591	AADAT	0.234010173	0.243528588
GPR146	0.790382418	0.538173982	EMR2	0.1	0.1
MSRB1	7.510752751	7.752198143	HDDC2	12.2916619	17.96951163
COL16A1	1.402503363	1.362158233	FAM13B	7.90240985	8.294684849
MEN1	14.93854254	16.51872929	UBE2D4	6.55381386	6.760276317
RNF43	0.1	0.1	UBE2D2	47.24936264	51.77565389
RNF44	8.844026633	11.0773008	FAM13A	1.265856607	1.884707417
F2R	8.335845484	8.842929455	UBE2D3	48.36608761	49.8384999
RNF40	18.15649966	19.80261659	UBE2D1	7.300779633	7.309261675
RNF41	11.33447532	11.19557658	HDDC3	7.383790922	8.813857049
MELK	39.30540284	43.16334234	PMPCB	11.2087446	13.96653571
GAPDHS	0.622298361	1.44255025	PMPCA	33.17117075	44.5687519
ERF	69.97014626	70.20180314	LAG3	0.360799583	0.491052957
ERH	171.1954665	214.3292294	UBE2E3	32.79545894	38.24997736
ABHD4	2.796924215	2.011174838	UBE2E1	51.43180375	58.16393058
ABHD3	2.261173122	2.726266965	UBE2E2	23.89132343	24.69596132
ABHD2	5.219473259	4.770786281	FBLIM1	4.657643763	3.218211994
ABHD1	0.1	0.189491354	TNFRSF11B	10.95086348	10.69381557
ABHD8	19.53822899	17.74191444	NTPCR	19.2203084	20.37858815
ABHD6	4.834219138	5.088577145	TNFRSF11A	0.439329046	0.293829738
ABHD5	3.089163704	3.294547096	SOCS2	6.210854578	4.759294988
GPR110	0.105232804	0.103736318	SOCS3	19.63155426	18.24727384
OARD1	4.87916347	5.250212169	SOCS1	3.560570259	2.021819465
ESD	88.39973754	97.84561741	LOC10272346 7	0.335339873	0.394064738
GPR115	0.1	0.1	PMVK	29.45507105	30.82619153
GPR114	0.1	0.1	SOCS6	4.107873061	3.970585249
STRA6	22.42478138	22.11679588	SOCS7	2.567978688	2.38758207
GPR108	24.97983015	21.18997176	SOCS4	3.544651903	4.151637144
PALB2	4.888018134	5.228099365	SOCS5	9.637839764	7.568182458
GPR107	19.41107795	15.47641757	BRPF1	14.77062639	13.95639638
RNF10	19.61957024	20.19306493	BRPF3	7.635375596	6.330254711
RNF11	30.92600169	27.90252403	GFPT2	31.76077491	41.90023442
CALCOCO1	12.14123491	10.21991205	GFPT1	4.923237021	3.897644727
SFT2D3	2.095993566	2.316940561	TNFRSF10C	0.239093111	0.224143796
RNF13	10.29751879	9.257817754	BCDIN3D	1.730972684	1.903902202

RNF14	25.05745029	23.45715158	TNFRSF10B	7.416200537	8.627907727
CALCOCO2	17.73077434	14.6353006	TNFRSF10A	0.812474656	0.714703325
ADRA1D	1.113303227	0.475672351	TNFRSF10D	0.481778745	0.896822111
ADRA1B	1.828636102	1.433020169	TFCP2	8.238800323	10.33459497
RPL7A	590.3015298	788.7469802	AAK1	0.722975576	0.632034831
PDCD6IP	36.66282425	36.56576785	MYD88	60.76405203	29.11450437
RANGAP1	53.93607646	61.1286339	ST6GALNAC2	0.248079649	0.276219317
ADRA2B	0.1	0.122652926	ATRAID	60.72358871	58.86683083
COASY	25.4965961	27.85171681	MRPL4	39.25795086	54.01306847
EVC	4.333196409	3.03111266	MRPL3	63.86106273	89.34469458
LOC102724867	0.523844917	0.575566233	NGRN	39.53574207	42.25246156
EVL	4.803407792	5.452321817	MRPL2	23.04086092	27.51662876
SFT2D2	8.47532269	7.90017513	MRPL1	8.204246298	10.9361913
SSX2IP	6.480737753	7.746631434	DGCR8	8.869651401	9.381748218
SFT2D1	46.1118401	51.90299618	MRPL9	60.05306035	65.67513587
RNF31	21.98498676	18.67837738	DGCR6	0.228380421	0.191665979
RNF32	1.187403918	1.320098588	EID2B	1.158524678	1.034812767
SMARCD1	23.05350121	22.61544309	DGCR2	14.60557511	13.86554249
SMARCD2	11.80310355	13.87974621	RAD23A	76.38649897	75.10314105
SMARCD3	10.84854006	11.50358352	LOC102723410	0.506777336	0.722385338
RNF34	26.17671101	28.9850973	RAD23B	70.89952979	72.93361989
RNF38	5.80100548	6.004872021	ST6GALNAC3	1.161632976	1.561516691
LOC102724873	1.989137345	1.152125441	ST6GALNAC4	26.64399959	34.69343587
PUF60	161.8441187	170.073881	ST6GALNAC5	2.274925489	1.897066551
RNF39	0.45911021	0.399146501	ST6GALNAC6	24.16003093	27.84463691
GCN1L1	19.75853582	19.59283882	C1orf233	38.00030929	35.73810029
MEST	20.00947142	17.81042824	SLC47A1	1.953705217	1.695083083
RNF20	12.64632564	12.14478252	CECR5	23.6670146	34.47543773
SMARCE1	1.214006764	1.568470084	CECR6	0.1	0.122145771
RNF24	3.189960637	2.914143701	C1orf228	0.128942216	0.161995821
RNF25	21.29984845	21.22537715	C1orf227	0.408011524	0.1
RNF26	33.48538545	35.78419254	AAMP	32.92810754	39.01473875
PNRC1	33.29718261	23.59471097	C1orf226	2.6560129	2.419509179
PNRC2	29.05257347	31.71521817	BAIAP2	2.316298511	2.125129001
TRMT61A	13.6768996	16.03183564	BAIAP3	0.155491644	0.163395285
TRMT61B	4.52318356	5.752635952	VIPAS39	9.041428944	8.195998545
BET1	2.968563851	2.796634722	C1orf210	0.1	0.1
AFG3L2	16.41875575	17.08078221	RTCA	26.71933521	27.43626505
COX7A2L	53.16750853	57.75037823	RTCB	50.36650662	48.82873524
AKAP9	1.072592525	1.200525	UBE2L6	97.68502212	29.56925424
ANKRA2	2.676291715	3.10398616	UBE2L3	43.57588754	50.78067039
LOC102724829	1.062060685	0.224896182	ENTPD1	0.789149593	1.209331029
EZR	55.23533428	50.88213731	ENTPD2	1.50943493	0.947463102
BEX4	0.1	0.1	ENTPD3	0.1	0.1
C17orf103	4.885985616	4.121698819	ENTPD4	13.69349167	11.74971948
BEX2	0.1	0.1	ENTPD5	4.644241919	4.491285703

C17orf104	0.155479792	0.147536309	ENTPD6	65.67421991	58.5804909
BEX1	4.981732523	3.628679381	ENTPD7	2.917696378	2.528139457
C17orf107	0.285419872	0.232393195	VWA5B2	0.124732815	0.179468578
C17orf100	1.69850083	1.407807141	ASRGL1	0.422145165	0.575369637
GNG10	20.21818375	21.76535761	LPPR2	60.66878737	53.54372757
HIST1H3A	0.875392194	0.416368155	LPPR3	60.51757222	53.32476713
LOC102724833	2.244259803	2.786036653	LAP3	91.83111192	55.38797149
HIATL1	27.66662665	25.93544563	C1orf216	13.37997878	11.45329285
HIST1H3G	0.767468227	0.417723051	RTF1	11.14003436	11.57326032
HIST1H3H	2.95567273	1.433194133	UBE2J2	28.68591153	34.12276363
HIST1H3B	0.760397589	0.650125346	AARD	6.732077912	7.867759322
HIST1H3C	1.11865249	1.877933891	UBE2J1	15.58248558	15.46050456
HIST1H3D	1.284556804	0.94579532	SPATA5L1	4.737795991	5.003251851
GPM6B	0.26154004	0.203808301	LARS	49.97279734	58.46842399
HIST1H3E	0.1	0.180290403	AAR2	27.81448143	29.22267698
HIST1H4K	0.24675502	0.519143121	AARS	110.2634285	90.30626774
TREX1	39.17342045	17.00698355	AATK	0.19636668	0.16880758
SLC33A1	8.483635618	6.806344921	TNFRSF13C	0.1	0.1
TREX2	0.224186319	0.366013941	WASL	6.758922392	6.781454263
IGFL2	0.388618205	0.223647221	IER3IP1	24.86666595	26.4161405
IGFL1	0.1	0.148236887	AATF	34.45918178	34.97648599
GNG12	56.98835682	59.04346297	IMMP2L	1.293890147	1.73185104
GNG11	40.83328635	46.09832137	ENC1	13.37939659	12.84722628
GNG13	0.311184053	0.175394647	WARS	271.3133872	122.6072107
HIST1H4B	0.1	0.307810455	TNFRSF12A	101.2365131	102.1179343
CDAN1	1.901270491	1.927260194	MRPS2	54.26390429	74.3965417
IGFL4	0.825323239	0.617894118	MRPS7	33.14321504	41.10019498
HIST1H4H	4.128307573	1.587733937	MRPS6	49.63737926	44.91275025
HIST1H4E	0.375603591	0.788751096	MRPS5	23.21378307	31.99070999
ITM2B	113.2913108	102.6371967	ENAH	19.14985331	18.63018626
ITM2C	24.2519663	22.770512	LAT2	0.266310611	0.471090098
OLA1	12.62269073	16.4500457	IMMP1L	1.022460124	2.255593192
QRFP	0.352804268	0.461013783	MRPS9	7.867749232	10.78556227
ANKRD9	20.56565457	21.29071895	CXorf40A	11.99886098	11.05377831
EPM2AIP1	0.407280036	0.389213824	GREB1L	0.112066259	0.134462122
GLIPR1	27.95716029	31.01338753	NEDD9	2.751853768	1.620741539
GLIPR2	0.916975727	0.578634402	CXorf40B	23.88922953	28.20045092
ANKRD1	0.1	0.1	NEDD8	127.4429701	140.9391301
TNFAIP8L1	10.34163016	11.36813682	CRIP2	109.9697535	94.35842528
GPNPAT1	11.59976759	13.80992926	CRIP1	1.074086443	1.027354154
TNFAIP8L3	0.375969599	0.395571045	ARVCF	1.212470172	1.187375765
ANKRD2	0.1	0.176693659	FAM172A	2.774610234	3.47934141
DLAT	14.5521615	19.31283204	SCAND1	55.61321719	53.50910578
ANKRD6	0.199592898	0.164646508	SCAND3	0.1	0.1
RSPRY1	8.365893771	7.876413691	NPDC1	27.67361625	27.48365147
STRBP	5.532813278	5.88983017	YIPF1	13.47683958	12.06837521
MSANTD3-TMEFF1	8.658940866	8.863001459	YIPF2	61.32258179	50.63937471
IGFN1	8.299591895	9.503889376	YIPF3	100.0507871	81.28506747

MSS51	0.292968012	0.344947032	YIPF4	7.185466783	7.537710673
PALD1	1.714594294	1.999766882	YIPF5	28.79130761	21.39181505
RPUSD4	9.923589396	11.824828	CRIP1	0.932395578	0.933249413
MDFIC	10.10492401	10.08581657	HUWE1	22.69057631	18.68860359
RPUSD1	33.07005431	40.4331202	KLK14	0.230203702	0.1
RPUSD2	5.32442353	5.834953323	UBE2G1	22.12497104	28.0969277
RPUSD3	43.83730164	47.6240662	UBE2G2	10.73382342	15.20065541
FRG1	14.34550836	18.7004304	KLK10	0.15017831	0.12388549
STRAP	64.25587692	75.06639561	KLK11	0.1	0.1
RPS10-NUDT3	72.86054687	97.58035919	NEDD1	7.564716313	7.912256209
AKAP8	14.55779258	16.12911894	NEDD4	6.95986475	6.924506816
AKAP7	0.737438981	0.580428873	YIPF6	5.318283313	5.048250757
AKAP6	0.115004701	0.110713632	FAM171B	0.945895289	1.111165525
AKAP5	0.180085212	0.254392244	RTKN	2.498361127	1.968153352
AKAP3	0.298020562	0.216439087	BCCIP	13.71786665	22.37228446
AKAP2	11.68017183	10.86859058	OGDHL	4.781414911	5.020252238
AKAP1	9.746189987	12.40415309	C11orf1	3.901312949	6.357755676
NCR3LG1	1.23963942	1.221775944	FAM174B	0.119753337	0.1
PDZK1IP1	0.1	0.1	FAM174A	15.05681808	16.45712138
FAH	2.644080342	3.918820669	SH3GL1	86.47411129	90.65941907
FAP	3.071314043	3.542552113	FAM173B	5.35837273	6.938228895
DLC1	2.00328251	1.334984273	FAM173A	4.798084025	4.353918139
FAS	2.421684654	2.27960204	UBE2V2	20.34690719	28.18864606
FAU	259.2239345	319.8839682	UBE2V1	43.93702045	49.88314627
SIRPG	0.705492739	0.986282525	RTN2	6.185202023	4.655708346
FBL	151.1377469	216.7745071	RTN3	38.58320075	35.24851156
NUSAP1	33.57877247	43.97011435	RTN1	0.806499687	0.436302504
SIRPA	8.070005898	5.8168349	RTN4	80.94408048	69.85449209
TBCCD1	3.3554325	3.501912759	ENHO	3.184305869	3.575427443
ANGEL2	5.017109321	5.253481219	CHAD	0.1	0.1
ANGEL1	2.955993334	4.115301374	CRIM1	33.70028233	21.65838102
PAM16	12.28720025	15.78879973	FAM175B	6.246641728	6.038537967
GLTPD1	39.95754674	42.62053197	FAM175A	6.545840499	7.565903731
GLTPD2	0.26722514	0.219401822	RTP4	4.91599609	1.490116681
TBL1XR1	5.047740664	6.483595204	RTP3	0.799466397	0.190805792
RGS9BP	0.656492601	0.638339661	CHD9	1.623904125	1.532712311
ELMO2	13.7792571	12.18896207	CHD8	11.77799057	10.16906042
RELL1	1.392320323	1.094509154	CHD7	2.499959691	2.844987515
ELMO3	0.513624817	0.690671436	CHD6	4.407662733	3.669516268
RELL2	3.941538483	3.144507638	CHD5	0.159139403	0.188292023
ZC3H18	14.22626194	16.07421844	CHD4	33.11861869	35.67350104
ZC3H13	10.35253478	11.29926961	CHD3	39.87891499	37.03423444
ZC3H14	22.76829682	21.92842206	CHD2	6.446888174	5.039814739
ZC3H15	20.96328227	28.64199665	CHD1	7.212951743	8.804962249
TGFB2	1.949793537	1.856895341	FAM178B	0.152458375	0.112485414
TGFB1	95.93733441	71.0571332	FAM178A	4.03591887	3.729994576
TGFB3	5.028789389	3.630175508	UBE2Q1	35.77116846	36.07777334
BFAR	24.22328438	24.68722746	UBE2Q2	7.562336428	7.008758516

LOC10192775 1	0.57661722	0.372250761	LOC10192898 7	0.1	0.1
NFKBIA	50.0289235	46.16588856	UBE2R2	33.33156622	33.82348246
FER	1.165379668	1.311115517	CHDH	0.113089261	0.118691946
DLG1	9.223533096	8.599435852	PNKP	20.47600927	20.42527525
DLG3	0.229403712	0.186236853	TGFBRAP1	6.051131675	6.672906095
DLG4	7.022029965	6.595554891	LEPREL1	54.45291752	38.27720752
DLG5	11.15848816	8.849045211	LRWD1	23.59388959	24.36815785
TGFB1	49.79172054	36.67841841	CHFR	10.69293029	9.449855357
CLASRP	13.16906566	17.7189002	PNKD	7.140282236	7.711808666
NFKB1E	3.461434814	3.20435486	FAM179B	3.146400135	2.629015864
GRSF1	15.95724394	19.00789951	LEPREL2	37.11917341	32.01597606
NFKB1D	1.998803983	2.829638934	LEPREL4	21.6211385	17.84235428
NFKB1B	16.25543931	18.6388436	ACIN1	31.4815184	33.01006168
DHTKD1	9.68962617	10.21788355	ABAT	0.127900793	0.113281119
ZC3H7A	10.50327577	10.89356565	ENO1	2431.256778	2332.319328
ZC3H7B	18.81052232	16.18790507	ENO2	17.98170243	14.36816462
NFKB1Z	14.08688226	10.38923764	ENO3	0.969932424	0.5658608
HIST1H1E	0.1	0.572537149	ENO4	0.317596972	0.307157647
HIST1H1C	16.06863022	11.90729606	RNF115	23.31680977	19.77951145
PALLD	7.862282604	7.54511684	RNF114	34.25685904	31.63079306
CHMP3	9.962930403	10.04755835	CYP1B1	57.91771919	49.01910118
CHMP6	8.685697817	7.055156158	RTTN	2.517330528	2.51642577
CHMP7	31.1184164	33.51738372	RNF111	5.059341463	4.461096073
CHMP5	54.03395856	41.97877601	CHGB	0.844399896	1.568660425
RGS17	0.89728786	1.511809885	RNF123	10.4065942	10.28824336
RGS19	14.46641458	11.7256018	RNF126	44.62067009	48.72707966
RGS14	3.578602843	3.840463947	RNF128	0.1	0.113061326
PALM2	0.242497437	0.397410764	ALG10B	0.326906511	0.368798306
LOC10192778 9	1.284556804	2.033246446	RNF122	3.346954811	3.805453566
PALM3	3.337574421	3.774205482	RNF121	7.107470841	7.516091611
DLL1	0.633638495	0.324133935	PNPO	4.697332182	5.51676454
STRN4	45.27502346	44.8719544	CHKB	3.257259927	2.855306389
DLL3	2.040270101	3.477857348	CHKA	7.998207879	8.365307039
STRN3	7.24914541	7.199025644	PNO1	13.75756523	16.88426629
IGFBPL1	0.20218009	0.277184834	GPR137B	2.567812863	1.989222959
PALMD	1.208347647	1.553262523	GPR137C	1.357969923	1.670159714
RGS20	5.97382609	4.188288148	CPEB1	0.364832338	0.226063436
CLASP1	6.35315667	5.522936058	RNF103	3.856408424	3.45003044
CLASP2	3.820296049	3.904785923	CYP1A1	0.274138359	0.251968651
DYX1C1	0.673471196	0.974774616	CPEB3	0.433021006	0.369070369
DLK2	3.61435109	3.445748322	CPEB2	3.370558728	2.483777472
RGS10	9.81213032	12.61517775	CPEB4	2.580875757	2.129221344
RGS12	3.321978235	2.816672106	VSIG10L	1.217079717	0.968290226
RGS11	0.68082173	0.72975603	ZCWPW2	0.360625135	0.451505477
NOC2L	76.61680937	100.1747612	RNF157	2.99550736	2.362204803
FRS2	3.511880975	4.011632633	ZCWPW1	0.848337857	0.705570575
LDOC1	70.53462246	67.65175704	ENSA	47.8438297	56.50502756
FRS3	1.721242237	1.972582964	RNF152	0.123109999	0.112375723

RABL3	3.29761916	4.102692667	RNF168	3.005074213	2.854139512
RABL5	9.77882071	9.137272969	RNF167	85.8620264	96.93323399
RABL6	45.2360919	45.24524597	RNF169	1.335195899	1.598371023
CDCA2	29.43284788	33.68882117	RNF166	6.453980158	5.931495623
CDCA3	30.7839946	39.44919357	RNF165	0.1	0.1
CDCA4	21.89285121	29.73904024	CCDC90B	6.111881291	5.854811857
MF12	0.768562989	0.914330673	RNF135	4.898889144	4.79964224
CDCA5	36.42152556	45.47411398	RNF139	16.39751714	16.57509615
CDCA7	9.917127428	11.96749302	RNF138	3.286927075	4.225037527
CDCA8	52.59461294	60.30714421	CHN2	0.115115297	0.1
FUCA1	2.841677675	1.940486369	CHN1	2.282653729	2.540599122
FUCA2	72.1548716	67.70804855	CHML	4.768043141	5.863321701
FN1	159.8615397	108.8283496	RNF130	34.48931194	36.86633439
MAGOHB	5.408139704	6.653221183	AAED1	15.56168958	16.68442879
PANX1	5.707523522	5.900889492	TIMMDC1	26.92196255	31.24422473
PANX2	0.81492583	0.622624229	RNF146	10.6195459	9.037847732
SPHK2	9.493802755	8.316225643	RNF145	28.66817526	27.57450129
SPHK1	1.217999092	1.153039516	ABI2	5.757126349	5.325186887
FOS	1.857387961	1.922048941	RNF149	6.086299436	5.424162665
SLC7A5	113.6655143	96.04022728	ABI1	14.6045176	13.6331468
SLC7A6	5.592646024	7.0040904	RNF141	2.529650809	2.525108317
SLC7A7	0.2432292	0.319146315	CHPF	47.88266899	31.31565238
SLC7A8	0.11226423	0.117513771	HJURP	26.36072703	29.66831935
NUP62CL	0.1	0.1	LOC10272356 3	0.58676665	0.510753118
CACUL1	5.657399214	5.102759207	RNF19B	16.51926012	9.505267986
ELOF1	49.24723357	59.6909225	LOC10272356 5	2.344808264	0.634278114
DLST	49.89425703	53.79648123	RNF19A	17.32278549	15.28445105
NOC4L	13.02415346	15.8968416	CHP1	23.13226893	20.92096696
SLC7A1	60.5482787	57.5775191	FAM24B	1.311299204	1.973928084
LOC10272459 4	1.686689248	1.598385038	LOC10272357 2	2.127707984	2.196843848
MFN1	9.681238635	11.8744199	NHP2	149.3915644	213.6409192
MFN2	48.06267404	52.69608802	ENY2	32.08075921	34.15284341
P4HTM	8.451344131	4.925653681	TBXA2R	7.709933306	5.448063174
TRAPPC10	5.041706834	4.352258074	ABL1	41.57445084	38.20335961
NOC3L	7.251616417	9.341154321	ABL2	15.29830848	11.19154098
RABIF	11.56244475	11.93978654	RNF170	6.002694252	5.422323916
FRK	0.133047886	0.111798399	TVP23A	0.779554878	1.189257416
FRYL	4.378236033	3.820190594	TVP23B	12.23842022	9.617172875
PLOD3	108.592136	102.8472268	TVP23C	0.800549512	0.617756282
PLOD2	20.70136846	17.64206873	RNF182	17.67962261	16.46132844
PLOD1	136.7056343	131.4042919	RNF181	36.98733793	33.43648577
FRY	0.1	0.103461245	FAM26F	0.375360125	0.42768698
ADORA1	0.116613776	0.1	RNF185	16.27423598	15.32628248
SYBU	0.934300927	0.982103396	RNF187	61.96728835	62.12883389
BNIP3L	36.70338543	34.04646122	PTBP1	154.3713414	170.5458613
FST	14.80180809	5.754438881	DNMT3B	0.878789899	1.220695519

LOC102724549	0.380060792	0.299968551	IQCB1	7.36997438	7.493093258
MFNG	0.27081209	0.396195784	CHUK	8.889008	11.12137002
IL6ST	22.52216426	20.03345553	DNMT3A	1.929723157	1.815506054
FTL	2796.999288	2089.681244	KCNAB2	0.767286369	0.715059738
COL17A1	0.618586722	0.536401955	KCNAB3	0.415982722	0.829938869
CHODL	0.385783056	0.26032842	PTBP2	2.752704332	3.462523382
FTO	10.4733095	9.65874832	PTBP3	7.0324678	6.951936398
DLX1	4.765368558	4.629753402	WBP1	12.58869618	11.17062196
DLX2	2.422474622	2.901382341	WBP2	37.16606027	33.77860252
DLX3	0.1	0.142768062	WBP4	5.975442039	5.919620459
DLX4	0.306771252	0.450641372	LOC102723542	0.222767886	0.143829263
DLX5	0.1	0.126049274	MROH1	9.451038823	6.64723286
DLX6	0.1	0.1	RBBP4	19.13942683	18.91561067
CORO1A	2.088822812	2.230084038	LOC102723545	0.152055388	0.397348025
CORO1B	94.42975136	77.26431359	RBBP5	7.633382246	7.921059133
CORO1C	97.90535719	97.29705849	ANKAR	0.34705091	0.267998941
FUK	1.631057785	1.73513327	RBBP8	9.216711386	10.74585935
SLC14A1	1.625875047	1.249085001	WBP5	0.624760373	0.542813738
FUS	67.96446359	74.36079605	RBBP9	3.732956432	4.452151587
FUZ	12.21285037	12.39964457	MROH8	0.340654439	0.26109221
CORO2A	1.333647194	0.816509678	RBBP6	6.607839072	6.735893305
LOC102724560	0.716564606	0.377187176	MROH6	2.289272515	1.275238116
NDC80	22.39216857	28.91116866	RBBP7	90.63557521	97.26799393
CDC73	11.92062041	11.29317401	FDXACB1	1.319990849	1.890585973
COMMD10	5.353499919	4.762820046	SLC46A3	1.839474745	1.297659177
SYF2	22.8158932	25.00339913	SLC46A1	1.516416516	1.505601491
FXN	0.758802425	1.376791952	GOLGA2	22.61341184	18.4215737
SLC5A10	4.171856844	3.709162114	GOLGA3	5.917673089	4.23839677
RCHY1	1.52985166	2.025676114	GOLGA4	7.491495405	7.400297477
FYB	2.609619903	1.509026956	GOLGA5	22.95226262	21.26453941
EHBP1	10.90241497	10.96133611	GOLGA1	6.899849649	5.50988249
CDC42	95.12509075	101.5510892	GOLGA7	40.67171754	41.53127391
LOC102724516	10.13650957	10.4675698	MCCC2	18.32678172	21.5952313
CDC45	13.05177534	16.45094374	ABT1	15.26775357	17.12333863
FYN	10.62485903	8.432895654	MCCC1	5.94067611	6.757927262
FSD1	9.832074626	13.97767668	MTUS1	0.10809336	0.105778808
GADD45GIP1	102.7769668	130.7803652	OVOL1	0.1	0.1
CDC5L	12.58704512	12.81074973	OVOL3	0.249500078	0.206745802
FSBP	0.282690036	0.326560704	MTURN	1.342041194	2.033184099
STUB1	24.12989778	26.19558382	OVOL2	0.1	0.123854769
CDC20	215.1627788	255.3521548	LACE1	0.931590027	0.949421769
CDC23	21.62149572	23.21477994	GUF1	4.444315726	6.080435408
HYKK	1.025447849	1.001072863	TSHZ1	2.920271647	2.663599225
CDC26	7.010949689	7.799591832	GMCL1	4.307477675	4.226844574
CDC27	12.39353097	14.28461878	PINLYP	0.327109408	0.262160289

ATP6V1E1	91.69830414	84.97335177	STK11IP	6.64436175	5.894676902
ATP6V1E2	1.362704649	1.049894012	MEIG1	0.183122043	0.278051998
ATP6V1G1	42.57041079	44.86167538	KNOP1	6.651755043	8.917038092
ATP6V1G2	1.590803956	1.326444671	C21orf91	5.32094556	3.807368348
CDC40	4.320282817	5.115847541	CCDC88B	0.532927308	0.499591627
PYURF	19.29438773	24.41911042	CCDC88A	3.620595046	3.846083632
CDC34	77.75985955	73.57644979	LACC1	2.179510385	1.862667541
CDC37	130.4600864	142.416397	GOLGB1	5.366107516	4.284967287
TRIB3	23.68147279	15.15248587	CCDC88C	1.016017478	1.309752735
TRIB1	13.34864753	9.345478557	CX3CL1	0.115872679	0.111333384
TRIB2	5.792483389	5.519383624	C21orf59	18.15734645	25.10671889
ZNF324B	2.285596293	2.490375316	C21orf58	1.444698457	1.938315685
OMA1	5.515560041	4.685763864	GUK1	134.4743536	126.1584816
CDKN2AIP	5.544761151	5.882367183	FAM21C	20.54498048	18.17192638
ATP6V1C1	46.99641044	42.92997518	FAM21A	26.48055448	22.4768993
ATP6V1C2	0.212240413	0.225936984	B3GNT9	24.5487895	15.11593788
CDC16	41.5160202	43.92385354	POC5	7.525043749	8.421309248
SLC2A4RG	63.47189556	60.1440452	B3GNT7	0.14299416	0.151164367
SYNM	4.613509991	4.447406015	B3GNT5	6.110793571	6.338795178
DFNB31	8.752137172	7.614016884	B3GNT4	0.134542072	0.1
ZNF587B	1.748753102	2.132404913	FAM20B	7.500392129	8.160151816
GAA	4.256102158	3.293537485	B3GNT3	0.1	0.113637561
SYN3	0.1	0.1	B3GNT2	9.62471575	7.764418475
SYN1	1.896446026	1.602255951	FAM20C	44.28938658	39.66711059
GAK	18.23880383	16.85827812	FAM181B	0.1	0.119932384
GAL	4.106525217	3.961989023	ALDOC	9.876905304	9.158313032
GAN	0.477287003	0.753066306	B3GNT1	16.28771674	18.41412456
DMC1	0.984277055	0.81031382	ALDOA	547.6751541	501.5231074
SYNC	27.65960957	21.54091655	MYCBP	3.340625464	4.669885579
GBA	160.0568354	116.6098607	SLC20A2	20.33876022	19.66903074
DFNB59	0.411424549	0.302148045	SLC20A1	79.86419797	82.53270015
NFIL3	22.78787814	19.49618653	C21orf33	3.496934127	3.259791
ZNF585B	2.810501407	3.331552963	FAM184A	0.433926626	0.567689116
ZNF585A	1.691588521	1.617043735	SHOC2	8.168440027	7.665443063
GCA	1.452730089	0.74391609	LBX2	1.136865403	0.994578644
HYPK	10.94401192	14.59720188	FAM183A	1.208716277	0.495821895
SRP19	17.61077612	20.01430579	POGK	26.07563849	28.76805106
SYS1	10.05820624	9.24186854	OVOS2	0.133807772	0.116092914
GDA	0.1	0.1	CIB2	1.080829647	1.453972082
RPP30	4.02796406	4.893066416	CIB1	71.04167084	73.84874788
SRP14	111.799701	122.9624955	POGZ	7.666990252	6.494293092
RPP38	9.118666527	10.20642743	MEIOB	0.541199804	0.434713814
GEM	20.79024337	19.19832241	MRP63	27.97152783	33.74711612
SPOCD1	0.139337161	0.193624852	KIAA2026	4.879572341	4.20797326
RPP21	7.952405658	9.096401222	ILVBL	26.77424979	24.84455991
RPP25	19.02781201	19.86341558	FAM185A	0.836244846	1.167812578
SYCE3	0.1	0.1	RPL7L1	32.15417037	43.34560726
SYCE2	1.330526176	1.033531939	EOGT	4.607772341	4.810007972
PRR5-ARHGAP8	0.1	0.119975318	H6PD	6.860519737	4.915390437

SYT5	3.885059687	2.421953963	NID1	4.259281226	3.473343346
SYT1	4.246194369	3.675619252	NID2	5.000675355	4.466614092
RPP40	8.911988753	12.84035918	FAM188B	1.297559623	1.796586451
GGH	60.36765688	68.69811976	FAM188A	6.990379894	6.956563769
SYT8	0.136508276	0.1	SDCBP	224.2886251	193.0000256
SYT7	0.10735333	0.110500826	FOPNL	7.465536602	9.497188764
MANBAL	48.49567627	57.30682053	HSPA9	224.0417139	249.9407416
GGN	2.185074488	0.836555053	HSPA8	1003.372079	1155.372171
DMKN	0.327634612	0.22641634	HSPA5	331.7114131	232.4757967
GHR	2.366258447	2.06489663	HSPA4	91.06461407	98.79130297
SGOL2	7.065726041	9.475628086	PTCH1	0.874332783	0.897079959
SGOL1	4.483703014	5.436322262	PTCH2	0.293397029	0.169044516
TGIF1	16.82498926	13.4914552	HSPA2	5.295127698	4.827162693
TGIF2	5.612950818	6.456234331	HSPB6	1.452156524	0.684360152
SPIDR	24.73843106	25.37451618	HSPB2	0.1	0.1
ATP6V1B2	59.90199557	58.10533213	HSPB1	936.7288197	787.4309139
ATP6V1B1	0.184336489	0.200363004	POLB	13.4408501	18.46134692
CASC10	2.215662863	2.822849805	ALDH2	7.262214884	6.672510026
GK5	0.861190871	0.674076381	POLI	1.421124471	1.331848151
SPOCK2	0.300326261	0.392884529	POLL	7.872238288	7.455106679
SPOCK1	72.60792479	61.0859753	POLK	4.511040873	4.183703508
RPP14	7.120844003	8.462084889	GUSB	19.63819765	20.56630299
ATF7IP	8.08346675	7.226426067	POLE	12.04782023	11.3927524
FAHD1	11.66501772	11.39992174	POLH	2.922364905	3.442531855
GLA	53.22366122	56.68299114	POLG	11.31250582	10.74956165
ANKLE2	12.04483152	11.90722786	RNF208	1.209451597	1.374358541
ANKLE1	0.826478392	1.563940057	CTPS2	3.825398071	4.115745956
GLS	13.84991442	14.19425033	CTPS1	54.73085206	57.10372645
CSPP1	9.965798979	11.78688769	FAM189B	46.67700694	53.38071141
AP1S2	33.54898442	30.67487039	RNF207	1.055034807	1.043467838
AP1S1	50.28885894	53.81075102	PON3	0.1	0.1
AP1S3	0.333663914	0.507831912	PON2	64.991982	69.08528123
ADPRH	0.160426027	0.110786323	POMP	68.85904306	81.51941125
ADPRM	1.505026189	1.895877828	LCAT	1.558012205	1.688967236
GNE	7.275806793	7.024616644	HSPD1	100.4226818	151.402315
SEH1L	9.660220727	12.37652861	NRIP1	2.221821998	2.23436764
GNS	64.72503819	52.02315226	NRIP3	1.122931419	1.171241344
DMPK	27.18899456	20.79175042	PTCD3	5.700924723	7.602562271
GRTP1	0.882202414	0.549908331	POLQ	3.224177021	3.484103315
SNAI3	0.1	0.18836152	PTCD1	6.007629316	6.622643571
SNAI1	0.464783689	0.468988195	PTCD2	4.417146266	4.90273051
SNAI2	34.70958651	33.08430117	NIFK	18.30387093	26.60802899
GPI	69.46599914	80.51861866	POLM	3.863515804	4.802633993
YJEFN3	0.921364063	0.598498676	LCA5	0.573385232	0.461587549
GPT	0.37545746	0.336018024	HSPE1	54.99500096	94.21720232
TIMP2	139.5511569	104.3797695	MEIS3	10.82124691	6.436491913
TIMP3	0.365154166	0.275801735	MEIS2	4.105054392	4.440589379
TIMP1	259.7329852	264.5170848	MEIS1	1.152665715	1.190382168
TEAD1	7.487718763	6.907425568	PMP22	128.1497085	115.3889077
TEAD2	33.99141721	34.22420843	POMK	3.364960106	3.162611379

TEAD3	1.802181593	1.154163867	POP5	17.56918724	21.78868436
TEAD4	19.89647546	24.0097216	POP7	59.79937515	76.39776455
NUTF2	48.77928138	56.45643241	POP1	11.26760854	16.3291863
GCHFR	2.650202937	2.753299404	POP4	14.59989381	15.48678597
TMSB15A	0.256009841	0.54557557	ATP5C1	114.0036273	138.0722035
CACTIN	13.04124224	12.20548926	F11R	2.337239257	2.357905767
MGLL	0.111191572	0.115981976	ACCS	0.554244944	0.407268749
GRN	157.4530522	107.7211756	HDGFRP3	5.265246108	6.759881109
SGMS1	13.74880338	13.14670913	HDGFRP2	35.27393818	36.47155255
TIMM9	23.37687085	30.27772146	CCDC169- SOHLH2	0.492085109	0.561927352
SGMS2	1.417332974	1.439461947	ACHE	2.26097635	1.341908167
APOLD1	1.97498277	2.010294754	MTMR10	2.173443427	1.77488273
SCAF8	7.950771231	8.007892789	MTMR12	13.14499051	13.95795452
GPNMB	1.329836542	0.698722194	MTMR11	9.258252394	6.405619014
GSN	38.75835898	28.89590493	MTMR14	25.79787919	22.66500564
DMTN	0.437224301	0.568191784	PCMTD2	3.765274142	3.997163164
MGMT	11.51696047	12.09329167	CHAF1B	8.921914958	10.02867107
GSS	48.07438659	42.81939583	CHAF1A	25.16652999	29.44910844
GSR	25.63203176	29.90906902	NINL	2.591691578	2.1463322
SCAF1	36.65454062	29.92696815	PCMTD1	4.192306682	4.743391577
SLC8B1	6.345431669	4.851274473	EPS15L1	8.756113303	9.417837752
SCAF4	7.425994083	8.30259847	SETSIP	0.400585981	0.672330433
RAB3B	2.126439564	1.795287725	CINP	19.41589869	27.49436378
ANKRD13C	8.002241177	8.164233762	POT1	5.19374729	5.520232754
ANKRD13B	2.834277736	3.735766051	CIPC	2.979544101	3.828185515
RAB3A	1.865166639	1.805194847	NIP7	12.88628412	16.68045273
ANKRD13D	10.7566722	10.54577059	ATP5A1	190.8564382	224.1435068
RAB3D	3.941938573	3.581104759	LOC10065275 8	0.851635497	1.331210622
SYAP1	18.83193561	19.88355529	GOLM1	40.56075814	48.31761108
SLC8A1	6.459231627	4.623255567	TTC30B	1.415968075	1.095722419
RAB43	2.405160487	1.681062821	TTC30A	0.878879715	0.648189648
BZRAP1	0.106748672	0.1	YPEL1	1.082042809	1.026272061
RAB41	0.43955083	0.792701516	YPEL5	18.74052315	14.89797841
SLC39A9	11.04013614	9.55309564	CRLF3	3.208950951	3.694640381
SLC39A6	25.70250777	28.63791514	CRLF1	0.215191301	0.202810882
SLC39A8	10.98684848	12.07377864	YPEL3	4.352938291	4.374705548
SLC39A7	17.57375062	15.66020157	YPEL2	0.169506678	0.142539181
SLC39A1	117.7377608	120.4582543	SLC27A1	1.553545596	1.017392568
ANKRD13A	8.809439738	8.508516585	CIR1	6.966956298	6.84439385
SLC39A4	10.09580221	13.79827707	CISH	0.133100527	0.182720345
SLC39A3	28.7201777	25.97647292	ATXN2L	36.40612589	32.91825394
RAB2A	79.81222955	76.90594271	ACLY	74.48264203	79.03860522
RAB2B	3.826013717	3.647256328	SLC27A3	2.748158752	1.821735023
RAB32	77.91895354	67.41219016	SLC27A5	7.063448119	10.1852215
RAB30	1.056317039	1.236816237	SLC27A4	19.6223666	20.36483546
RAB31	22.44659335	24.30315399	HSP90B1	337.8559087	360.7377267
RAB36	3.049614627	3.535723398	IGSF23	0.178773733	0.1
DMWD	24.30100297	20.0151267	ACN9	2.474049604	3.526296341

RAB34	37.96030208	39.50467483	DMXL1	2.772690586	2.925138511
RAB35	29.47143503	28.56615129	DMXL2	1.854287563	1.422182079
RAB38	0.761416721	0.765462472	LCN2	0.289603201	0.190253446
RAB5B	27.78789031	25.41989433	ACO1	10.9148158	15.38009275
RAB5C	94.47543889	88.93994657	ACO2	37.91203851	36.76110769
RAB6A	42.18846119	38.79417862	NIT1	15.78063931	13.75525722
RAB6B	3.210910849	3.295127782	NIT2	28.26241529	35.26795456
AP1M2	1.939508379	2.811623798	MCFD2	24.99432144	23.58839662
AP1M1	72.54063464	69.37036887	ACP6	1.680376235	1.577201308
RAB4A	6.037777704	7.78518792	ACP2	33.39786795	24.1278598
RAB4B	4.163472463	3.656547472	ACP1	20.65113164	26.28281538
P4HA1	22.40516783	19.89447522	EIF5A	675.8116645	818.5807235
P4HA2	30.37532656	21.98471307	EIF5B	18.92100328	24.48203175
P4HA3	5.807693603	3.960903454	ACPT	0.215704403	0.292768495
CSPG5	1.871321054	2.293310646	LCOR	0.945509034	0.800159531
CSPG4	3.408838871	2.726571236	LCP1	0.195952227	0.168511653
RAB5A	21.84371001	19.42993827	MGRN1	6.747451296	6.388409874
ADPGK	14.30601297	12.22385085	ACRC	0.541373341	0.718625175
AP1G2	0.745500668	0.816040039	ATXN1L	5.357052882	4.82731892
AP1G1	10.84670941	10.03690437	EIF4H	120.28579	128.7931539
LOC102724614	1.147080001	0.560082681	EIF4E	5.121313016	6.267039193
CHPF2	31.27337157	20.82362142	EIF4B	78.48240948	104.5481902
LOC102724620	1.894113169	1.826605332	NTRK2	0.193102647	0.11661925
RAB1A	39.78582225	39.21518771	CIZ1	55.74799972	56.77359797
RAB1B	188.7190097	172.5546682	NTRK3	5.186843407	2.698209894
RAB21	11.25360495	11.76341121	TTC39C	0.69486195	0.701718344
FBXL20	0.56541458	0.471620584	TTC39A	0.189263363	0.125494272
RAB20	1.098400949	1.304515668	TTC39B	2.218834664	1.294384375
MSTO1	10.85340995	11.40831862	EIF3M	68.35885271	82.38362123
RAB25	0.1	0.1	MCM3AP	8.497878081	8.835805411
RAB26	0.419897026	0.853760766	EIF3K	200.9900915	246.7192345
RAB23	6.40461021	5.575549855	EIF3L	148.9973921	185.0424239
RAB24	11.08914994	12.28318454	EIF3I	289.3952111	335.7538644
RAB28	7.472434115	7.514736695	EIF3J	15.65695002	22.85244204
RNGTT	5.546504844	7.601673805	EIF3G	175.4989431	198.9997748
FBXL19	12.45827268	13.27253319	EIF3H	332.1807116	426.9302054
FBXL17	2.759432593	2.348331082	EIF3E	311.6354096	433.7918062
LOC102724641	33.23219195	32.03694154	ATXN10	31.2551652	29.93128439
FBXL18	3.951048603	4.152455388	EIF3F	68.80308205	73.84532877
FBXL15	3.201240497	3.460775428	EIF3C	22.1872607	25.09873714
LOC102724642	0.768057268	0.520886908	EIF3D	149.3966148	173.7136397
FBXL16	3.179245883	2.748835462	EIF3A	51.64976852	54.10854657
FBXL14	5.095788359	4.457817722	EIF3B	127.8051332	152.7345554
FBXL12	11.81540271	10.49487887	PPAN	17.6576075	24.59331227
RAB10	34.97666969	35.54771441	LCTL	1.336069571	1.294073929
TNRC6C	0.647639088	0.517598841	ACTB	6551.024432	5423.753241

RAB14	24.93849731	24.77276421	PPAT	6.258955061	7.803325355
VAPA	19.1007673	20.76326443	EPC1	6.617319534	5.457749068
PSAT1	72.77652045	75.60372831	PIEZO1	11.20131128	9.595141248
RAB15	4.642104581	3.681656316	EIF2D	0.14954819	0.117689159
VAPB	6.519473827	6.739477281	EPC2	4.92694965	4.715889368
RAB12	11.52053329	11.13456019	EIF2A	20.52425816	28.59719392
RAB13	76.62542129	69.32599378	CIRBP	11.77032976	11.50222148
RAB18	12.99085714	13.22506744	ISLR2	4.586554125	2.987754269
RAB17	0.151977266	0.1	CSNK1D	31.35843818	28.4944526
TNRC6A	5.398113499	5.255863821	CSNK1E	51.62331158	56.4985442
TNRC6B	1.472673237	1.325649692	PPA2	31.33908227	39.94352458
PANK4	14.33645894	15.64248371	PPA1	64.62013431	82.74990482
PANK2	10.62816426	11.82026746	CSNK2B	87.85522548	94.7761036
PANK3	12.15600936	12.23473166	EIF1B	28.28305441	31.80598196
TRAF3IP3	0.512311722	0.508886311	PPCS	9.340428339	8.772720542
CALML5	0.1	0.1	XRRA1	3.80857946	3.400720645
VAR5	10.3111965	11.88017651	IFFO2	7.204904717	7.13740222
TRAF3IP2	5.309051262	5.807694496	RAB27A	1.196398734	1.268911279
PANK1	1.075575872	1.08371857	RAB27B	25.20397277	25.67871319
TRAF3IP1	2.637849737	2.835872409	NT5C1B- RDH14	1.267248678	1.493208119
CALML4	0.346586428	0.676220057	IGSF9B	0.1	0.1
KAT5	23.26866555	20.858099	ACY1	5.115558325	4.653872605
FTH1	4552.198548	4046.986001	RAB22A	6.171291298	5.434081924
LONP1	68.80086159	68.41856261	ERMARD	7.044336977	6.182966157
KAT8	5.144089975	5.00383656	EPG5	6.30240478	3.92393003
LONP2	7.224050138	6.579019428	PBRM1	6.988809531	7.014875331
KAT7	12.80996683	12.41046107	FAM177A1	10.48706428	10.88875165
ATP6V0E1	396.9794833	322.9706505	LOC10192698 0	0.524835209	0.815016054
ESCO1	2.52595806	2.263227681	EPGN	0.137550616	0.153623659
TINF2	19.46212273	16.29604439	SLX4IP	0.949239069	1.391836633
AP1B1	50.409925	48.59409661	SCNN1G	0.1	0.110601362
AP1AR	7.549684491	7.205038019	SCNN1D	0.780435848	0.597989788
ESCO2	6.812371005	8.713709323	SCNN1B	0.1	0.114283468
KARS	62.87742088	82.39052368	SCNN1A	0.144772718	0.131968543
DNA2	2.643149612	3.551761439	HHIPL2	1.331168569	1.613165287
ATP6V0D1	81.853267	69.49052403	PPIF	42.51577059	48.39952464
TWIST2	39.4895916	29.44196169	ANKS6	2.549640456	3.432091043
TWIST1	38.82500328	39.61565397	PPIE	7.935430257	8.551298829
SPHAR	0.886439634	1.090939435	PPIH	16.5137025	22.44916698
MYL12A	272.7068228	239.5369571	PPIG	5.554394899	6.765539904
MYL12B	245.8675532	237.0683904	PPIB	364.1126927	384.7895969
DND1	11.08657698	10.5594904	PPIA	403.429993	483.3020381
ATP6V0A2	2.672946154	2.407753842	PPID	10.38261371	13.16588405
TNRC18	18.49326804	17.43306668	PPIC	26.45392449	22.93872205
ATP6V0A4	0.11491567	0.142600248	HIGD1A	29.80665259	37.10578661
ATP6V0A1	13.65523302	11.51565577	NCKIPSD	19.54709468	17.47243449
VASP	66.04252005	61.38390178	HIGD2A	206.0345218	245.9778609
VAT1	190.6884773	165.3425401	CUEDC2	36.89704252	40.12024666

VASN	1.91440668	1.19722587	LDB1	20.41522079	22.66256581
LOC81691	3.679745193	3.349592812	C12orf5	1.299506942	1.393720463
FUBP3	15.57110786	17.10933847	C12orf4	6.888082538	7.685897822
FUBP1	46.95342282	49.95332458	NGLY1	17.45722464	17.89488389
COL18A1	10.8546096	9.09233471	ADAR	125.3714846	78.7053575
DNER	6.371624207	4.58939175	ADAL	1.00269539	0.868491302
RALGPS1	0.252963624	0.283947516	EPN1	125.2978178	117.2103231
RAB8A	51.14445634	52.6316097	EPN2	13.8426439	13.56437676
GABPA	3.991331171	4.525520212	EPN3	0.152917012	0.1
RALGPS2	10.22882228	8.607567292	CUEDC1	8.780600534	8.149982063
RAB8B	3.498084346	3.248858888	AGPAT5	21.93609451	26.55360855
VAV3	2.213346138	3.242386902	AGPAT6	46.55152214	45.88278386
VAV1	0.1	0.125259902	AGPAT9	2.067996149	1.846249824
VAV2	8.856312543	8.888065647	ANKS3	3.840024439	3.744046321
CDCP1	126.2612126	97.10649081	PPOX	1.921820799	2.135143732
RAB7B	4.872969725	4.160057989	ADD3	0.12306383	0.1
RAB7A	182.7673932	174.4525526	AGPAT1	15.66581792	13.81925353
ZNF2	1.198667489	1.491498177	AGPAT2	19.76631028	14.98079922
ZNF3	9.777198652	10.60875972	ADD1	27.87214575	27.89918066
ZNF8	3.414538486	3.104459613	AGPAT3	10.38722464	9.041080481
ZNF7	11.49249463	12.5093923	ADD2	0.137837784	0.1
PSMC3IP	12.33262653	13.53248735	AGPAT4	3.370444648	3.287301752
DUOX1	0.1	0.1	C10orf12	1.071586038	0.777407215
UBTD2	12.21334916	12.36629641	C10orf10	15.96279282	11.35429799
UBTD1	34.13359185	28.0457013	C10orf11	0.602430145	0.315246612
ATP6V0E2	37.82039912	43.81861023	SSRP1	91.02853685	109.9502406
GABRE	1.978948469	2.630217553	EPOR	7.339587092	7.006048775
GABRD	0.1	0.1	ACKR3	4.225469926	2.481223221
HDX	1.264495869	0.919760578	ARPC5L	14.29490416	17.23404245
GABRP	0.11569525	0.144826787	EPRS	48.94352362	52.74930704
FAM189A2	0.1	0.1	EPS8	49.76043184	42.19215525
PLAC8L1	0.200778423	0.351851759	C10orf35	0.596593089	0.672777566
VAX2	0.734104514	0.585102435	C10orf32	0.974744294	0.907388422
CAPZA1	102.1254823	104.5458	C10orf25	0.342611817	0.296326533
CAPZA2	34.91793987	35.16311888	ANAPC13	30.7292545	32.07911829
RAB9A	20.50670571	18.67431816	ANAPC15	28.5878809	27.92062463
RAB9B	0.1	0.118196795	ANAPC16	11.90512346	11.79261332
HFE	1.891423344	1.326900641	ADH5	50.66042454	53.55923949
FAIM3	0.217841523	0.160100723	ANAPC10	3.110318917	3.313055015
TRAPPC12	16.87507557	15.67837407	ANAPC11	38.55971432	36.81884577
TRAPPC11	6.956108358	6.771085221	LDHB	309.849784	437.4447987
TRAPPC13	9.191054914	9.221124328	LDHA	586.5521592	632.7124392
NANOS1	1.144190352	1.174263728	LDHD	0.225365051	0.171610359
SZT2	4.689729384	3.403686736	C10orf54	0.927041695	0.56620234
TRAPPC2L	14.0358777	14.05391831	C10orf55	2.808164458	3.376921962
NANOS3	0.411832395	0.500777306	EPT1	2.586043393	2.965682908
KAZN	0.498950061	0.401949133	RMDN3	9.354758804	9.196392594
HGS	53.99158375	48.57703278	RMDN2	0.567561493	0.526582911
SEPSECS	1.011102997	0.888538519	RMDN1	14.46120483	15.34202194
HAPLN3	0.362463035	0.474806857	FOSL2	37.52772382	31.74961778

HK2	12.258342	11.96092893	FOSL1	192.6124958	179.6775731
HK1	95.60175462	92.62954469	ADI1	20.54991175	21.21838324
AXIN1	10.15874193	10.75180174	TOLLIP	19.06363553	14.94780149
AXIN2	3.302475978	2.684501422	PPT1	80.72406642	86.93945771
DNM1	0.443610583	0.458580085	PPT2	4.570690456	4.529306145
DNM2	51.83871038	49.97374388	GMEB1	4.786028324	4.836597314
DNM3	0.445889703	0.380869666	GMEB2	11.2059737	10.88462218
TRAPPC6A	2.02174884	2.752850355	ARPC1B	190.1778156	170.9658935
TRAPPC6B	4.487410141	4.561041172	ARPC1A	104.6491162	115.5374145
DNLZ	15.61611472	17.16331644	C10orf76	5.99059834	5.282871792
HLF	0.434032143	0.550509609	SHPRH	1.33238203	1.500829452
RNF113A	12.71731091	12.0547891	TP53TG5	0.296042555	0.519933957
HLX	8.329228165	7.196558338	LDLR	49.36719321	42.62771739
LEPROTL1	26.70778898	32.72152888	ORAOV1	2.997598914	3.533558103
FLJ22184	0.1689924	0.132841227	C10orf90	1.218646876	1.133656309
HN1	38.2368572	46.73451406	C10orf91	0.170394684	0.200526196
MAPKBP1	3.331727713	2.96520456	C10orf95	0.170730125	0.302010435
LOC102724378	1.968317385	1.649176314	ADM5	0.19839257	0.293198782
HPD	0.127357176	0.158600578	ADM2	5.498166856	3.589785818
GIGYF2	9.172205647	9.105385326	C10orf88	2.994596579	2.983900188
FIGNL1	7.564564457	8.043416058	RPL10A	387.8198223	551.250177
GPR17	0.139977897	0.171362382	TTC21A	0.771520619	0.623066973
EXOC6B	2.653821916	2.62384189	AAGAB	11.50318101	10.97089798
LOC100129361	1.704859161	2.112029883	ADNP	13.92029151	14.46095429
GPR19	1.858534332	2.057925007	BRSK1	2.005548769	1.949934285
GPR27	0.1	0.132884899	SLC26A2	2.1523167	2.089074174
HRK	0.1	0.120170835	BRSK2	1.625634695	2.229886377
LOC102724336	0.403365121	0.803976876	SLC26A1	0.827122531	0.433204334
SH3BGRL2	0.469003904	0.738728647	HSPBP1	28.82567988	30.83683266
SH3BGRL3	468.9660988	356.5366784	TTC21B	1.361551915	1.657724707
GPR39	2.862386227	1.940901547	SRGAP3	1.207196374	1.093372002
GPR37	2.387762656	1.714058083	SRGAP2	11.63809427	9.65996755
GPR35	0.1	0.148979973	SRGAP1	3.77380377	2.769929668
MANEAL	1.372424559	1.50173896	SLC7A6OS	7.498831343	8.41146142
LOC102724342	0.470673217	0.486821711	SLC26A6	10.08697196	8.561979321
HTT	4.842120273	4.276018559	WDR1	264.9969662	223.8806188
SRPX2	3.373642111	2.708448215	WDR3	16.72923258	23.46444514
MICALL1	120.1600368	96.27250558	WDR4	9.642071281	12.2796718
AP2S1	112.2496789	116.7503368	WDR5	20.12119793	23.89494607
MICALL2	1.18965247	1.332881289	WDR6	42.35386791	40.14671896
SRSF10	31.67188439	38.17579884	WDR7	2.853802927	2.692822107
SRSF11	33.82852726	39.13413423	ADSL	59.61989752	72.08401449
SRSF12	0.376263105	0.287394086	RPL13A	660.9501558	918.7538292
GPR56	0.570595596	0.356431661	TFDP1	103.5910199	125.6828523
FAM92A1	9.661295762	11.98829351	LOC100287387	0.961350821	0.883849415

LOC102724369	0.471611423	0.365337383	TFDP2	2.210946221	2.796601514
SH2D6	1.262220961	0.846862406	ARPC4-TTLL3	10.09413831	9.645677074
SH2D5	3.97534304	3.679770862	ADSS	10.87494134	12.56694658
AP2M1	229.515768	247.5027918	CISD1	7.957716201	9.405308616
SLC38A1	22.35276533	22.39527409	CISD2	4.226476175	4.078871864
GPR75	0.244375943	0.340536511	PPP2R2A	34.97592071	39.36897642
SLC9B1	1.0388785	1.251672444	CISD3	5.480386424	5.883650341
SLC9B2	4.350699544	5.132710436	RPL18A	328.6860201	468.5036811
SLC9A2	0.1	0.1	PPP2R1B	8.534551659	7.637958122
SLC9A3	1.465661944	1.128538277	PPP2R1A	176.5562704	172.2944015
SLC9A5	0.684191066	0.556849168	SEPHS1	28.17918713	35.41910792
SLC9A6	11.44201774	10.77232198	SEPHS2	25.15859128	25.23441375
SLC9A7	1.058701869	1.13234637	ATP5SL	33.40510759	38.19897429
SLC9A8	5.813817151	4.150377257	ICOSLG	0.288742151	0.268456704
SNRNP200	39.88205556	43.3756708	GPR37L1	0.184507974	0.1
GPR87	0.1	0.1	MAPK8IP2	8.254064876	4.367372863
SLC9A1	10.89122898	8.610850442	MAPK8IP3	5.542724026	4.660929626
LOC102724315	0.516165103	0.397149529	MAPK8IP1	23.66853564	21.89354599
SLC38A7	9.538048701	7.038908713	ZFAND2A	11.17063838	10.68068891
HYI	11.27442561	9.238562772	ZFAND2B	15.25736426	14.09092133
SLC38A6	8.839215847	7.357554252	NKAP	10.55580906	11.80162971
SLC38A9	3.555102934	3.680277263	GFRA1	1.598437919	1.104011813
SLC38A2	170.5265683	142.567725	CNEP1R1	4.267598983	3.144150106
SLC38A4	0.765205907	0.62153485	NKD2	0.1	0.117919887
NFKB1	11.39320293	11.36899883	SPTSSB	0.1	0.1
NFKB2	28.58499466	22.55630435	SPTSSA	18.51051568	20.60865304
GNL3L	2.736422687	3.502077151	KANSL1L	1.713274405	2.088411865
UBLCP1	12.02359994	13.21942499	SH3BGR	1.370202371	1.006947828
NFE2L3	3.949798213	2.498975985	MYEF2	2.901294347	3.305668682
NFE2L1	45.87979783	33.92920982	RAB11A	14.58185323	16.00180019
NFE2L2	44.09936523	41.1699332	RAB11B	58.9717356	55.20612777
VBP1	43.85323794	52.97707265	ALG1L	0.448147053	0.790509422
GIGYF1	8.070404478	7.320731984	ITPRIP	7.210969326	7.225740837
L3MBTL4	0.1	0.1	HRASLS2	0.1	0.1
GTF3C1	15.9697372	16.68720418	ALG14	6.489466421	9.470049545
GTF3C2	14.50802058	17.05580487	ALG13	4.444527743	4.439416198
GTF3C3	5.989165222	6.735838419	ALG12	11.86833137	11.39224511
GTF3C4	8.861570768	9.963632392	ALG11	3.279863737	2.818792686
GTF3C5	33.22275154	35.43745615	ALG10	0.880597832	1.179146139
GTF3C6	35.75498167	45.78439413	ATP5J2	247.6564764	303.0961832
MICALCL	0.171008067	0.131688165	FBLN1	1.21059737	1.018857866
SH2B3	4.918989049	4.867279986	FBLN2	363.1011842	345.008537
SH2B2	1.885028258	2.102853238	SCUBE3	0.293748332	0.200177146
SH2B1	6.036068639	5.878334969	UAP1L1	16.4495995	14.29830194
SLC12A2	6.063220502	4.240021723	RPRD1B	10.87398642	11.39494368
SLC12A4	12.80162386	8.009270269	RPRD1A	7.791730291	8.833921849
SLC12A5	0.520137411	0.540795505	RHBDD3	16.18643602	13.6572587
AHCYL2	2.519199165	2.654432517	RHBDD2	67.0723331	53.3315111

AHCYL1	22.84825271	23.78042041	RHBDD1	4.731315389	3.960381247
SLC12A6	1.54718543	1.310320356	CRLS1	9.321187468	10.37944529
SLC12A7	5.878893932	3.135231546	SOWAHB	0.135570885	0.112699133
SLC12A8	8.432925623	8.660192194	SOWAHC	2.611610941	2.793989722
SLC12A9	23.06397026	19.82307567	SOWAHD	1.995078028	0.963197578
PAQR8	1.569284743	1.376139529	ATP5G3	35.67550245	47.16329374
PAQR9	1.851443811	1.262495236	ATP5G2	110.0724626	139.426198
PAQR6	0.401541409	0.315306105	ATP5G1	84.49071422	118.7783987
PAQR7	6.183609676	4.57878619	PPP2R5E	10.32344516	11.60451517
PAQR4	15.91044949	15.37328718	MCF2L	0.144772718	0.115984272
PAQR5	8.761708524	9.475150837	RHBDF1	8.13249247	5.236667943
PAQR3	5.79835944	6.062191477	MYEOV	5.937987837	5.533557354
HNF1A	0.229457456	0.303357004	RHBDF2	0.717844253	0.810329729
PPP1R3F	3.021502464	3.158755544	PPP2R5B	13.70510316	10.95019151
STX1B	0.591616397	0.491839784	PPP2R5A	6.444433441	7.025509286
PPP1R3C	2.442148515	1.815587165	PPP2R5D	29.99233071	32.5816083
PPP1R3B	0.1	0.1	PPP2R5C	19.19467465	22.40563105
PPP1R3E	1.105508587	1.13153966	ATP5F1	103.8306924	138.0461218
PPP1R3D	3.322597966	2.454505643	SKIV2L2	19.47668941	24.1441491
PPP1R42	0.339627661	0.339537973	STOML2	121.3922546	145.8844798
STX1A	7.848348588	9.181905016	STOML1	10.9740801	7.009194622
PPP1R37	9.321703637	7.626898895	ETFDH	10.29077637	11.92802294
L3MBTL1	0.346946058	0.57387081	PPP2R3C	10.64469794	9.245204475
L3MBTL3	1.714815847	2.079043892	PPP2R3B	0.892331924	1.399671939
L3MBTL2	14.55261089	14.6378452	PPP2R3A	4.339053419	3.878008706
PPP1R32	0.572591214	0.34102772	WEE1	11.25119699	10.39227832
PPP1R35	29.30173492	32.94462037	PPP2R2C	0.220816923	0.151759302
PPP1R26	0.324941565	0.399323128	PPP2R2D	3.613021449	3.993676979
PPP1R21	2.136037605	2.165273949	CKLF	25.84162373	30.59407805
ICK	7.170637088	7.176315766	PGAP1	1.265704874	1.247711514
ID2	63.40133602	54.97978544	PGAP2	7.167873869	6.777293217
PPP1R1B	0.1	0.140232284	PGAP3	3.425500424	2.874814812
ID1	268.8309364	255.126153	CCBE1	3.626780067	3.442625195
ID4	13.17092533	10.87601193	HDHD2	4.958477302	5.166986617
ID3	433.4046782	415.5007713	HDHD3	5.292109029	4.022799677
ANKRD18B	0.112655609	0.136145351	HDHD1	10.63606704	11.95535596
ANKRD18A	0.819003582	0.632050194	ETHE1	9.120323857	8.297225208
PPP1R11	19.8002739	19.70596103	UQCRC1	111.8418314	118.654515
PPP1R10	7.997998189	8.096105132	UQCRC2	57.07881991	74.04458335
KIF14	5.968345427	7.108998006	NYAP1	0.628228541	0.477164882
HNF4G	0.986756739	0.65175424	NCAPG	16.64072434	20.9607274
MIA3	8.753216515	8.981959031	NCAPH	8.682807106	10.52603812
AP2A1	59.3265344	49.01468498	RHBDL2	0.43936599	0.30192796
IDE	7.589583689	7.379163885	RHBDL1	0.228353989	0.214558883
KIF11	16.77597114	20.09344876	LRRC39	1.007981695	1.449197353
KIF17	0.721184132	0.679313479	LRRC32	2.666238867	2.878621446
PPP1R18	13.71946574	12.54806765	HSPB11	40.26091624	44.25345785
AP2A2	21.83562877	19.02153021	LETM2	2.563207098	1.721727708
KIF15	3.622848635	5.253458687	NKRF	4.696597883	6.862422168
KIF1C	65.32618329	62.45774379	LRRC47	44.04669956	49.89975859

IDS	10.64649984	9.196057495	LRRC48	0.93831014	0.64726294
KIF1B	6.576111363	6.880088591	LRRC45	3.638043873	4.638647497
KIF1A	0.195622749	0.236552799	LRRC46	0.775745018	0.485995486
NDEL1	31.23233121	29.57103297	PGAM1	107.8988997	119.4051903
KIF24	4.68025551	4.770278831	LRRC49	1.385188584	1.535295995
KIF23	21.77078516	25.22798471	PGAM2	1.676118088	1.22537727
MMEL1	1.550052872	1.838389593	LRRC40	8.408676216	11.10859125
KIF22	23.30404431	28.01595703	PTGR1	17.74940327	16.89387623
KIF27	0.561741403	0.521698871	PTGR2	3.785055884	4.647395853
KIF2A	13.83958478	16.56108174	LRRC41	48.21208284	42.5645342
KIF2C	53.08719476	62.26878698	LRRC42	29.02392236	26.45900673
STX12	14.03691289	9.617502851	VAMP8	0.300842566	0.147801761
STX17	2.52158529	1.560569369	VAMP7	1.623956226	1.578744496
STX16	9.513358018	9.502366663	CKS2	256.2969173	298.0635795
STX18	8.477685073	9.450892678	VAMP1	1.01026449	1.931664784
XIAP	1.45800431	1.482715373	PGAM4	1.648011829	1.448476839
FUOM	7.270358541	6.185761638	PGAM5	19.48371619	25.801609
COL19A1	0.356005605	0.495342362	VAMP4	2.448137252	2.460210767
STX11	0.486991707	0.497630052	VAMP5	0.1	0.1
STX10	30.15938926	37.24742413	LYPLAL1	3.418578814	2.980934781
MICA	6.872261029	5.861643575	VAMP2	10.55297323	9.862408321
MICB	4.122791138	3.987275483	VAMP3	88.40539052	84.85302004
ERCC6L2	1.206773493	1.105781136	KANK2	37.34770895	26.6385682
MIB2	10.51936655	8.466323727	LRRC14	18.21653874	18.27525449
DOHH	12.57648778	13.80950728	KANK1	15.58687696	10.96219936
AP2B1	49.98178929	49.30199754	PTGS2	0.79376288	0.240351842
MIB1	2.478452944	2.77146237	EXTL2	5.699820616	7.144755593
MIDN	20.63116588	19.57988252	LEO1	11.23580846	13.9170683
ERCC6L	5.533458966	6.818743671	ANO10	20.73245819	15.57736126
KIF5C	4.318521341	4.114358599	PRAME	6.069030374	5.504804205
KIF5B	43.9088031	44.36230357	YKT6	73.48164828	70.18463934
KIF5A	0.366621899	0.318928874	EXTL3	20.34788729	18.65878472
G6PD	86.78664664	77.40015514	NKTR	2.599643914	2.958616751
MID1	11.49115156	10.23566895	LRRC26	0.1	0.161978557
MID2	0.1	0.105050261	LRRC23	3.130491157	2.18139488
DOK1	1.068465882	0.69271637	LRRC24	5.787668021	5.082173561
DOK3	1.066944242	1.496523177	LRRC29	0.91339644	0.605026088
DOK4	0.488801431	0.53624643	SMAGP	13.76887324	12.62397331
DOK5	0.1	0.1	LRRC27	0.555879579	0.561134058
DOK6	1.378782697	1.263231692	LRRC28	2.431037172	2.523175487
DOK7	0.120246016	0.1	LRRC20	4.98040969	5.223923452
TMED10	65.75367701	65.22962188	LETM1	13.57765644	15.99167866
SEL1L	8.94095782	7.119206416	LRRC73	1.178674101	1.057537398
PSEN2	9.640225798	9.284760902	LEPR	4.146837544	3.451838969
PSEN1	13.48449156	10.41205638	SH3GLB1	21.6882678	19.93733983
FUT2	0.217347189	0.219697213	SH3GLB2	23.4713971	22.09585518
FUT1	0.112235345	0.152417569	ANAPC7	21.5458966	23.27014912
FUT4	0.563850687	0.529330627	AKR1E2	0.481103066	0.557647265
FUT3	0.1	0.114322072	MRT04	23.3443681	33.73443752
FUT8	7.451216312	5.930519345	ANAPC4	3.516388534	3.345289805

KIF3B	16.29867318	15.97237294	ANAPC5	56.88027186	56.58205036
KIF3A	2.507842468	2.186806216	ANAPC1	4.411692277	6.120740931
KIF3C	6.078557928	5.406972402	ANAPC2	12.20272341	11.24198843
PHF10	15.52400517	16.63061408	KANK3	0.295305553	0.264806617
PHF12	8.017490703	8.364331548	LRRC58	5.52300197	7.36143771
PHF11	9.27149321	6.150509728	LRRC59	110.9887977	116.3199038
DOLK	18.83923103	14.54046941	LRRC56	0.334099121	0.253778987
IL6	8.85666	4.986342003	LRRC57	3.649466129	3.310219764
IL8	40.68598295	42.2198274	LRRC69	0.374874481	0.548606696
IL7	2.30217359	1.08274525	LRRC61	0.1	0.117149406
KIF4A	22.06473674	25.31018759	SLC25A1	98.50146692	82.38682074
PHF14	4.295825954	4.531800021	SLC25A3	225.1316297	267.3060412
PHF13	18.94118519	18.61676088	ERC1	8.898687659	8.493570448
PHF19	36.69240097	40.04822886	VEZF1	9.587517052	9.307050525
SNED1	12.04036793	9.021225257	SLC25A5	310.2695041	360.8002672
ILK	60.7762995	46.89489581	SLC25A4	3.778902646	3.817808963
PPP1R9A	0.569186359	0.473798043	PRCC	48.75018186	54.79676058
LOC102724296	1.367104316	1.877159529	PRCP	21.13014068	21.38794849
PPP1R9B	29.1983578	28.81570109	IFI16	2.314475714	2.050502204
CNPPD1	25.78070018	22.34747436	SH3BP1	9.074502428	8.538346808
VCAN	7.376358784	8.14264621	SH3BP2	0.833217458	0.9054319
LMBRD1	8.518447829	8.618157744	LRRC8C	2.154407373	2.148491486
LMBRD2	2.844414076	2.68983057	SH3BP5	2.070457826	2.310910567
INA	11.11412093	6.873617469	BEND3	0.841046744	0.941023888
PDLIM1	50.30860756	39.49494357	LRRC8D	14.0304559	14.13880557
PDLIM3	3.341264389	2.674358536	SH3BP4	16.17753198	15.07937291
PDLIM2	10.05507326	9.373541544	LRRC8A	14.46974119	14.16273212
PDLIM5	50.06937595	42.49658031	D2HGDH	2.636141668	3.000192245
PDLIM4	0.122636722	0.148489106	LRRC8B	0.62183904	1.186383664
TAS1R3	0.140602796	0.288442423	LRRC8E	0.789008978	0.660840178
PDLIM7	50.80661096	41.50249902	BEND6	1.67428112	2.181190841
MBTPS1	27.75476304	24.92331019	CYB5B	14.20902622	15.81698688
MIIP	27.47465955	26.46342738	CYB5A	18.48183234	17.87249493
MAPK14	12.46423684	14.04972433	ERAP2	0.720749751	0.445456125
MAPK15	0.691577688	1.059993949	MBOAT7	89.93033425	77.65663678
U2SURP	7.930276875	10.40724821	ERAP1	14.59500171	10.84827379
MAPK12	16.30145297	16.13043213	MBOAT1	1.699425888	1.087460442
MAPK13	0.116367762	0.135060649	MBOAT2	10.95732524	9.305282037
MAPK10	0.46092941	0.508041197	RPL23A	123.0692082	160.5227084
MAPK11	6.822338604	4.511534001	USH1G	0.1	0.1
CHPT1	16.61115294	19.47619335	PRC1	47.00699126	53.46556907
MBTPS2	10.38692689	9.863348489	SMAP2	25.29548279	29.99055506
SERPINE2	314.7801919	237.3001299	SMAP1	14.72513175	14.48856872
SERPINE1	44.7878696	20.03084665	PREP	21.45951245	21.76662306
IPP	2.448080315	2.541508678	IFI35	126.9857989	45.0581294
DUS4L	1.846261411	2.687240162	IFI30	23.54882541	15.25520408
EARS2	6.865991651	7.093776409	CCAR2	72.28780896	79.30608028
ISY1-RAB43	3.298263302	2.991119897	CCAR1	19.97111751	22.31903873
TRIQQ	4.390800712	5.306368854	TM4SF1	275.9241069	238.919744

SERPINF1	0.506663616	0.366168185	IFI27	89.46474805	51.18716439
SERPINF2	0.185586947	0.115277663	PREB	22.80018846	22.15089694
BIN3	17.69595049	15.21243807	PRH1	0.485967882	0.706293949
BIN1	24.02211293	22.19806078	PGBD1	3.298276382	3.365706496
YME1L1	50.9763415	48.24313336	PGBD2	1.124968824	0.873666375
DUS3L	10.35069198	14.20574823	PGBD3	6.10672311	4.536239644
MAPKAP1	24.58366514	29.95015081	PGBD4	0.615478589	0.692098425
FAM160B1	5.858454797	4.773481866	PGBD5	0.161957397	0.12211936
FAM160B2	21.58476189	18.32824816	TSPAN9	13.71673693	11.17550933
RAD21	130.6570225	143.3428321	ERI1	13.88988392	16.30408213
SERPINH1	142.322747	127.1628292	TSPAN6	7.202071919	7.751630483
DNAJC25- GNG10	6.165025664	6.06377188	ERI2	2.680508762	3.223830723
SIVA1	44.97620034	53.64838775	ERI3	49.27934998	55.2836907
TRIP4	8.713683229	7.805382611	TSPAN7	0.1	0.1
MINA	8.833104965	10.31443625	TSPAN4	69.6209687	64.44865888
FAM160A1	1.476557419	1.184452306	TSPAN5	30.16659127	26.17620513
FAM160A2	5.113625527	4.2853097	TSPAN2	0.116169087	0.1
TRIP6	222.2569447	212.015245	TSPAN3	27.03270664	28.83017282
RAD17	9.984535	11.12039071	TSPAN1	1.662684206	2.354341591
SERPINI1	8.53188265	6.02341397	HMGCLL1	0.1	0.114388738
DUS1L	22.68043417	27.77948747	PRG2	0.281859779	0.186567482
RAD18	13.06292536	15.65770308	IFI44	95.42427241	41.96525823
SERPINA3	0.492085109	0.449944964	ERAL1	23.30015931	25.83217226
SERPINA1	0.261796163	0.226027745	RPL27A	65.95748065	89.18986252
SPIN4	2.045646073	2.616846392	AKR1B1	126.5418704	122.1202835
SPIN3	1.361177993	1.876223993	LYNX1	0.183944701	0.174922574
SRP54	38.88938839	37.88376805	AKR1A1	53.33361862	46.81986752
TRIM8	55.64848639	46.46770772	PDZRN3	6.317672659	5.680617165
TRIM9	1.702393283	2.102241924	TMPRSS5	0.210959583	0.179227181
TRIM6	0.524092057	0.359551017	TMPRSS3	0.1	0.1
TRIM7	1.533019604	1.862866654	TMPRSS2	0.14508355	0.1
CSRP2	17.87024988	15.90835493	PRKX	1.807800032	2.544898198
CSRP1	108.9041124	81.45637758	HIST2H4A	0.362380187	0.1
TRIM4	11.80330965	11.74958487	RXRβ	2.123891598	2.147429927
TRIM5	2.669877325	1.580117043	RXRA	6.732678426	6.663020709
TRIM2	2.229995485	2.22919827	HIST2H4B	0.362380187	1.130393505
TRIM3	6.154728603	5.214756991	TSNAX	9.745293688	11.18625646
SPIN1	27.18110667	27.1006268	AKR1C1	7.973688824	5.856455084
AP3S2	4.185380446	3.623731299	RFTN1	6.606888788	6.50065892
AP3S1	63.6586996	59.12260266	AKR1C3	4.174609959	4.373102476
MIOX	0.172305187	0.125813616	AKR1C2	0.517800064	0.326309389
SERPINB1	1.531728106	0.710712829	NLE1	7.78429842	10.60356419
MIOS	9.236057431	10.54773786	CLGN	0.541333664	0.448883238
ITPK1	19.80512552	22.56331178	BAALC	0.683517327	0.542682222
SERPINB7	0.192604772	0.1	DIMT1	20.11975991	30.9284207
NUDT16L1	8.587814266	8.694352586	SSU72	45.07150915	53.12671976
SERPINB8	2.781850581	2.518233252	PRLR	2.829419882	2.576082666
SERPINB5	0.1	0.1	ERN1	0.624308272	0.478931174
SERPINB6	22.8442857	20.78928934	PLA2G15	18.03397002	12.07420935

ITPKB	0.226463673	0.18427756	PLA2G16	0.844821175	0.844542404
ITPKC	6.192956266	4.877860104	DEAF1	7.713163904	8.918773662
C14orf169	9.254224201	10.52190946	NPHP1	1.085828027	1.135927305
C14orf166	77.45846667	101.5001327	ISOC1	4.674494523	6.212323983
C14orf164	0.163979405	0.237047412	CAMTA1	6.215534026	6.272110786
IVD	4.164783729	4.115552823	NPHP3	0.831437023	0.690977823
ITPKA	0.465260465	0.581481876	NPHP4	2.469018925	2.242941758
NAPRT1	15.93247959	14.54124027	CAMTA2	22.43519451	21.86568242
LOC10272447 4	1.19475871	0.526369726	ISOC2	102.6704699	99.74697802
SRP72	34.38569827	38.69669045	PRPH	0.12665535	0.157097229
CHRNE	3.816839328	3.492759101	PRNP	272.6166803	233.3464923
MISP	3.33843262	2.728720438	CLK4	6.908485041	8.081583634
C14orf182	0.216049018	0.182861131	CLK3	11.06707016	13.36339981
GTF2H1	13.50535084	13.20695715	CLK2	8.932170018	9.640347883
GTF2H2	3.96106364	4.62506999	CLK1	5.835994578	7.745872236
LOC10272448 8	0.218803966	0.366602958	PRR5	0.445528837	0.564402706
SRP68	21.44559486	22.99425905	PRR4	2.40280483	2.27040334
GTF2H3	5.877432031	6.461481234	PRR7	33.20138796	49.12445205
GTF2H4	7.623247278	9.070908486	PRR3	5.0219409	6.458532892
GTF2H5	3.20208667	2.864967236	AFF3	1.560940869	1.100001308
SEMA5B	0.458066778	0.340627066	AFF4	13.2388404	11.21823689
CHRM4	0.524669839	0.201074022	AFF1	1.621495538	1.263151439
LOC10272441 3	0.206566722	0.290226493	NCBP1	15.5666318	17.64407228
SEMA6B	0.693051107	0.476399454	NCBP2	19.5299433	22.07844136
TPD52	8.091604093	10.36773203	PLA2G4B	0.460904666	0.466194693
SEMA6C	1.227078551	0.929903379	PLA2G4C	0.889287028	0.461259897
ANKRD36C	0.194298604	0.338247926	PLA2G4A	6.36325163	5.446222037
BIVM	4.079704447	5.850363752	SSTR2	1.677959347	1.11526089
MITF	2.462892971	2.596056042	CRMP1	2.307126045	1.48641815
GTF2F1	57.73312969	55.19596066	CLN8	3.397228487	3.954812917
GTF2F2	29.57716885	32.37243481	CLN6	24.75484331	28.21016429
LOC10272442 8	0.739739716	0.753676389	PTHLH	1.913212205	1.90468709
LOC10272442 6	1.360953325	0.910309455	CLN5	15.46273476	12.48680192
TTPAL	6.246845561	6.024523915	CLN3	34.12767906	29.43793697
ANKRD36B	0.212824357	0.292101429	CLMP	64.70985525	50.27466669
SEMA7A	0.115252871	0.132672489	CLMN	0.12444766	0.114546732
RHOBTB3	3.805471965	4.965027184	UQCRHL	8.404479219	10.30434311
ITPR1	4.002586855	3.632258052	S100P	0.201865249	0.1
ITPR2	1.079666824	1.245173176	CLPB	12.19992749	12.77942052
ITPR3	0.396603689	0.372871007	BACH1	5.862588725	4.729703721
VTCN1	0.1	0.1	BACH2	0.240942151	0.252965634
GTF2E1	5.444147186	6.728762963	HENMT1	11.28568165	13.13521735
RHOBTB1	0.792986638	0.91115605	CLP1	9.668490884	10.24764568
GTF2E2	56.14379294	63.63824948	DIP2A	2.893539173	2.751037116
RHOBTB2	18.64381239	17.26175315	DIP2B	12.09380026	11.47724684

ANKRD34B	0.126404715	0.1	DIP2C	2.598336846	2.227789975
ANKRD34A	3.248126635	3.753990913	ACOT9	23.09848794	24.54601209
SLC37A2	0.90477431	0.86027128	ACOT8	31.68158353	29.83033253
SLC37A1	0.1	0.107355575	ACOT7	45.71926538	50.51107459
LOC10272444 1	0.1	0.128811003	CLPX	7.016524753	9.251261753
NSFL1C	38.82361552	38.90668364	NISCH	9.359111626	9.020697891
RAD9B	0.519243661	0.386874856	DYNC1L11	25.43247172	26.29108858
RAD9A	7.31793042	6.224036868	DYNC1L12	17.1495081	17.64615656
LMBR1L	3.642491946	2.900411936	CLPP	81.34439492	93.49608477
ANKRD33B	1.680859602	1.181068595	ACOT2	14.58444822	12.81919132
SYCP2	1.089548133	1.099842754	ACOT1	5.739128006	4.057019598
OPA1	12.35771698	15.73062354	ACOT4	3.633450824	2.35019758
OPA3	6.236756965	6.168498162	SYCP2L	0.348967781	0.585898023
SLC37A4	6.935169928	8.452234578	HSPA4L	3.010925807	4.722573678
SLC37A3	11.66885153	10.4310021	S100A16	0.577015064	0.254817054
PAPD4	19.49108244	15.14685188	S100A13	44.86960658	43.1077289
NIPSNAP1	25.99435576	28.80362166	S100A14	0.147057316	0.234399153
PTP4A1	24.09007681	25.67740796	S100A11	1444.677848	1278.849564
PTP4A2	71.10492679	77.3472557	S100A10	214.4051729	196.5408592
PTP4A3	3.814614057	2.46042248	NPLOC4	41.14162739	38.19327862
PAPD7	11.74863077	12.16796873	CLTC	49.08073115	40.39946154
PAPD5	1.361326296	1.558348411	LPCAT1	24.58793086	23.79852836
GTF2A1	4.465108076	4.891015997	CLTB	75.28226248	79.65864946
GTF2A2	17.27479005	24.08693552	CLTA	249.3904723	250.8157478
SEMA3C	15.08092486	11.82187122	LFNG	0.121883436	0.256251753
SEMA3D	3.858813044	2.795710846	C17orf58	7.099820844	6.471858685
SEMA3A	1.076194135	0.752664694	C17orf59	15.43566954	14.6934729
SEMA3B	0.31291507	0.378712997	C17orf53	2.235245145	2.985858066
SEMA3G	0.1	0.107892376	TNKS1BP1	24.01295813	20.30279107
SEMA3F	27.32689983	18.47620972	C17orf51	2.903740555	3.002084032
DPCD	15.61020607	16.59885228	CLUH	44.71114875	55.12034259
AP3M2	5.438013929	7.039515779	BACE1	17.07057278	14.39968369
AP3M1	15.16221109	17.32304803	BACE2	0.140723285	0.133231056
SEMA4A	0.115728513	0.122460894	C17orf49	32.6630374	30.78587169
SEMA4D	0.144431282	0.13965594	PHLPP2	1.57941129	1.44122827
SEMA4B	89.33457221	78.71428787	PHLPP1	2.952417641	2.715280473
CDC42BPG	0.121032906	0.145053643	HSPA14	9.104455622	11.77779305
SEMA4C	8.407524021	8.548530528	HSPA13	11.61866788	10.91099099
ADRM1	144.0849368	140.735891	C17orf75	1.81168292	2.026338981
SEMA4F	1.869422894	1.679250566	C17orf70	10.83038846	10.18066974
SEMA4G	0.965484751	0.923962683	HSPA1L	0.311600261	0.246212716
CFLAR	3.317134969	2.436027258	BLCAP	27.79478773	27.47502381
CDC42BPB	13.30295847	11.87979191	RYBP	9.733581368	10.38031173
CDC42BPA	7.085400928	6.862079664	LPCAT4	18.1260828	17.41314204
TRIT1	8.397938519	10.79534311	LPCAT3	22.377757	18.36447625
TPCN2	4.255275238	3.362161052	C17orf67	1.442677139	1.132442001
TPCN1	21.51169453	20.29725347	LPCAT2	2.365877893	2.13095379
RAD52	1.481448384	1.81042407	C17orf62	21.52786746	17.5560782
RAD50	11.11710421	11.5313233	HSPA1B	9.311950661	8.346420428

RAD51	7.616354967	9.681344199	HSPA1A	12.06298103	10.82050418
DPH3P1	0.994609936	0.852833631	TUSC3	16.95340087	15.27575439
DPF1	15.7738108	15.85318206	TUSC2	21.04112116	24.05021669
DPF2	25.60335415	24.57042029	TUSC1	16.10604121	16.73981219
DPF3	6.885059566	5.812356974	C17orf97	4.704708073	5.364588022
TIPIN	7.36506139	8.735985563	C17orf99	0.1	0.1
SLC11A2	7.662527661	7.268967468	C17orf96	3.475547081	4.828588015
BOLA1	6.369186929	5.794135535	GYG2	2.441250479	1.749843621
PAPPA	6.621140237	4.191516962	GYG1	52.69360236	49.02687497
BOLA3	26.07563849	33.0428335	WHSC1L1	12.6762123	12.53098408
GRWD1	31.72343611	38.08527196	IGFBP1	2.020622967	1.179103016
BOLA2	5.028184377	4.865060872	IGFBP5	0.10832686	0.105945531
WDPCP	0.490493663	0.490347509	IGFBP4	4.584166573	2.555248924
PTDSS2	13.69735589	13.07291461	IGFBP3	64.4516578	41.25464503
SGPL1	9.128364752	7.219924685	IGFBP2	0.136329564	0.125939976
PTDSS1	94.47953633	114.6119427	C2orf27A	0.172862941	0.334114653
DPH1	32.26482251	35.808416	C17orf89	24.31300588	35.27321828
DPH2	22.40347173	27.43410723	C17orf85	6.115611405	7.408280205
DPH3	9.033319214	9.964401878	C17orf80	5.071079064	5.689120995
DPH5	11.04769719	14.87201308	RASAL1	0.1	0.1
DPH6	1.977231017	2.017051445	RASAL2	7.065347648	6.058518882
DPH7	6.583046608	6.652599445	RASAL3	0.115124098	0.121597768
SRPK2	7.035738973	7.071280398	PSAP	321.4051602	282.6891494
SRPK3	0.177849066	0.118528555	IGFBP7	73.90854585	58.91183122
SRPK1	22.62010936	29.92742747	IGFBP6	9.6190228	5.936763208
SESTD1	1.964637143	1.608903199	ATP8B3	1.587438738	1.254103662
DAZAP2	91.60236457	97.88748331	ATP8B2	21.14005089	18.61310841
DAZAP1	81.95781235	94.67152004	ATP8B1	3.918207674	2.675481131
HILPDA	5.508525294	8.112550059	WFS1	39.37744897	26.73850285
AP3B1	38.20701225	36.88268145	GON4L	8.887976328	8.464788974
AP3B2	0.456676314	0.26651725	SCCPDH	19.69197309	21.10603347
CEACAM1	0.144289239	0.1	ESAM	0.127796296	0.258776527
PAPLN	0.114995317	0.12676733	RNPEPL1	12.34296738	11.03018608
HRSP12	16.64630187	22.33448536	PSCA	5.09191692	3.09655254
ANKMY2	9.493929535	8.709330936	PSD4	0.574252578	0.578491923
ANKMY1	0.623702389	0.612822574	PSD3	0.340041838	0.328525709
RP11-290F20.3	0.125846406	0.118454809	SH3D19	7.722647863	6.70800891
C1GALT1	12.18496701	11.25427255	RTN4RL2	1.106263473	0.985581445
AP3D1	63.18807631	60.48024805	RTN4RL1	31.9702366	27.87372935
RAB3GAP2	7.174276766	5.910356497	RPL37A	564.2661292	752.4933372
ZNF354A	12.32024167	13.96494274	SLC24A1	1.123247224	0.958893639
ZNF354C	2.915637753	3.371855252	SLC24A3	0.1	0.1
RAB3GAP1	9.461538066	8.797113673	UNC93B1	32.51346944	17.47788009
ZNF354B	2.677464356	2.83520934	RPL36A	3.752652257	5.536078567
SYDE2	0.331580729	0.438579738	LAGE3	103.9478108	109.5453797
SYDE1	42.50399252	36.4303957	RPL35A	386.9632162	643.9822805
C14orf132	6.336294454	5.766367991	SH3D21	2.327930007	2.317455028
IPCEF1	0.107575281	0.11081778	CROCC	0.747829926	0.902518018
DPM1	21.32789437	27.61096331	ESF1	6.141597509	7.343512549

DPM2	47.78361063	49.31095396	CMAS	22.02598438	24.47144548
DPM3	55.46780196	70.55739107	SOGA2	10.59102944	8.509013351
TIPRL	24.42718451	26.94571385	SOGA3	0.535198546	0.451543968
ADRB1	1.134669038	0.657319757	SOGA1	7.657372173	8.621133743
ADRB2	4.67944655	2.407031883	PTGDS	0.1	0.145682471
DPP3	17.72602521	14.64649591	SLC6A17	0.1	0.1
DPP7	38.16944524	41.25542448	CMC4	12.51313698	15.09085772
DPP8	2.903830695	2.870829371	SLC6A16	0.630289623	0.368709798
DPP9	38.15120325	36.17895742	SLC6A15	6.314370466	7.623237345
CASKIN2	4.356773293	3.790189179	CMC2	27.0476998	32.56703526
CASKIN1	3.320158169	3.552134868	CMC1	16.28525623	17.59648579
C14orf159	7.752201902	6.673649702	SLC6A14	0.1	0.1
OPN3	24.23997407	18.56252192	PSG1	1.76627558	1.143069699
C14orf142	9.907128817	13.1902032	CMBL	4.387552881	6.09446125
JMY	1.830001994	1.672509838	PSG9	1.58288599	1.194699631
SRPRB	30.84442391	29.38693983	PSG5	18.34630216	9.57710709
C10orf118	1.335422404	1.098049314	PSG4	1.849281928	0.989712473
RADIL	1.147518936	1.080418016	LLGL1	12.17482935	9.625957467
IQCJ-SCHIP1	3.8093001	3.726650729	PTGES	10.972847	12.82452371
BDKRB2	16.87245182	12.72103152	LLGL2	0.333685812	0.287712958
BDKRB1	141.9377677	113.77751	PTGFR	3.59147783	2.736411
TAS2R5	0.1	0.261278983	LMAN2L	11.03039557	8.785167029
S1PR1	9.161665361	5.086428896	GYPC	40.91706522	36.63784341
REPS2	0.106532287	0.104664173	MGST3	23.35666119	23.61657803
S1PR3	12.44567826	7.841685171	MGST1	3.649295895	3.964994893
C14orf119	21.72725486	23.37674672	MGST2	0.140650451	0.129025169
S1PR2	1.288617386	0.96939452	NMD3	12.44175648	14.33601855
S1PR5	0.224683065	0.203863665	SLC6A20	0.1	0.1
REPS1	9.743108391	10.25267051	NTSR1	3.167790799	3.331824739
RWDD1	25.58379208	32.03610165	TVP23C- CDRT4	1.082234525	0.648315279
RWDD3	4.163440524	5.062158194	RPL39L	36.01510755	42.68178109
RWDD4	5.249046735	6.337198786	MEMO1	8.348052794	9.8540889
SGPP2	0.110976395	0.123512043	GKAP1	0.627001742	0.634726368
SGPP1	6.960896959	7.38655425	RYR1	0.103375432	0.102410121
XPNPEP1	16.46905143	17.20802229	GYS1	25.57306947	24.2552945
XPNPEP3	1.338942927	1.507994321	ZMYM1	3.831564088	4.63197913
ITSN2	1.833975868	1.684027711	ZMYM2	4.368856759	5.682043939
JRK	4.290721159	4.551787808	ZMYM3	17.24443089	15.33661974
ITSN1	5.691277364	6.454226633	ZMYM4	13.61405615	12.70825907
LOC10272413 8	3.072336742	3.191180515	ZMYM5	4.398933162	4.499308118
ANKFY1	28.16043731	20.49474619	ZMYM6	4.583258888	4.202348018
HEMK1	3.379080942	3.004507382	NME2	275.8084829	348.9597228
CXADR	2.751406402	3.233717226	NME3	36.78354469	33.35305429
LOC10272414 7	8.656680914	8.962316625	NME4	155.404082	192.5522726
LOC10272414 1	4.85304354	1.231253469	NME1	79.11028351	127.9687358
MTHFD1	65.97325491	78.02141694	RAD51B	2.431442014	2.520375177

MTHFD2	35.2341532	38.45984639	RAD51D	3.663216643	3.637795881
EWSR1	112.0144574	124.0565695	RAD51C	8.666852028	12.7827255
JTB	79.80923373	80.95774088	NME6	7.586742917	9.060854
OPTN	51.09804254	32.35759016	NRN1L	0.510357638	0.158600578
LOC102724159	2.321756158	3.036480853	NME7	14.42928414	13.96677456
NPBWR1	0.1	0.1	DNASE1L2	0.395513521	0.332102291
LTA4H	13.09955169	19.25024026	DNASE1L1	8.783308449	6.936547944
HEXIM1	13.19367608	12.36394376	UQCR11	100.2667318	124.6363691
HEXIM2	3.300789577	2.087911931	UQCR10	74.53685532	93.80557055
JUN	119.5582327	107.4531737	RAD54B	5.353065925	8.366896885
JUP	5.327708316	6.433924042	RAD54L	10.32181832	11.67866217
EIF2AK1	44.2905823	45.44377581	LCMT2	2.307974891	2.119527839
EIF2AK3	2.525436124	1.791902588	LY6G6C	0.1	0.1
EIF2AK2	13.70913166	8.400971409	LCMT1	14.32024005	11.95930276
EIF2AK4	13.20092072	11.35880624	SUZ12	8.246034496	10.10887933
LOC102724164	3.170029415	3.459256799	LY6G5B	4.798435902	4.077798182
HLA-DRB1	0.1	0.1	LY6G5C	0.386232931	0.329922518
KDM8	0.944903751	1.100556644	CCBL2	9.008002418	7.046537625
TFCP2L1	0.1	0.1	CCBL1	1.875576415	1.8450814
NHSL1	2.132001622	1.481560855	ESPN	0.1	0.1
DUSP4	21.27280912	17.46555666	CMIP	2.341643349	2.892491739
DUSP5	10.72452935	8.375755428	KNTC1	5.79860382	6.256619684
CHST9	0.137015516	0.1	PSPH	10.79585114	12.0762582
DUSP2	0.223326474	0.738415916	MYH15	3.235877194	3.387820496
DUSP3	17.94643576	15.55140304	KCTD1	15.24173039	13.39811262
CHST7	0.960954873	0.609782397	KCTD2	6.941609488	6.399387874
DUSP1	15.75725245	13.03897298	KCTD3	7.923541473	9.228160607
DUSP8	4.002443341	3.583020298	KCTD5	14.73832165	14.7539276
DUSP9	0.185131138	0.130392598	KCTD6	1.949897103	2.317158724
DUSP6	26.66515652	23.63243379	KCTD7	2.547912081	2.626310268
DUSP7	29.50426218	29.01854315	KCTD9	30.2521137	29.88962869
DPYD	17.00051659	14.21880021	AGER	0.402764465	0.548987965
CHST2	3.766853487	3.309985857	PDZD4	2.139209003	1.764037361
CHST3	27.68863884	21.12871632	PDZD2	0.956748026	0.352808369
ABRACL	30.77891978	30.65330137	MYH14	0.122548297	0.121466531
ATAD1	6.717512587	7.640126994	MYH11	0.436762815	0.441980212
ATAD5	0.881972784	1.400820239	PDZD9	1.293963073	1.666242185
ATAD2	32.0549364	39.42714833	PDZD8	3.550180363	4.344650167
LOC102724121	0.99881102	1.255181646	MYH10	11.80385865	14.08344
EFEMP2	25.84954492	17.28385454	PDZD7	0.439140348	0.395964092
EFEMP1	8.81451608	7.197526301	SMAD2	4.833601547	4.771977839
PCYT2	15.71681676	11.32210748	SMAD1	12.03383391	10.79370432
SRSF2	68.26961353	82.11278522	SMAD4	5.495304757	5.288616267
SRSF3	47.4478166	57.29714345	SMAD3	14.689685	13.5276717
SRSF4	29.59403185	31.91462612	PSPN	0.430899853	0.178756191
PTPRCAP	0.443668866	0.304488237	IFT122	9.982036381	9.390341438
SRSF5	40.9435842	48.4055465	SMAD9	1.029028558	1.141449229

SRSF6	22.5108622	27.17920325	SMAD6	5.793763335	5.187974304
SRSF7	37.25278144	44.303012	SMAD5	7.684769299	8.955343503
SRSF8	0.1	0.108531317	SMAD7	12.13277066	11.34721074
SRSF9	87.8319931	89.24720074	PRAC2	0.1	0.1
KMT2E	7.003622993	6.726467686	PSTK	0.770339058	1.057268805
KMT2D	3.063820351	2.548214968	RASA4B	0.224031016	0.1
KMT2A	1.727977825	1.550772198	PTGIS	7.526909309	6.091472495
KMT2C	1.08882372	0.819072855	TRNAU1AP	19.97813129	18.82196873
KMT2B	6.516464248	5.864071636	UACA	5.676690749	5.4859891
AP4S1	0.721697179	0.713393522	NCALD	4.941875381	3.625357877
KDSR	6.136662427	5.516404795	ERBB3	0.469984776	0.357732612
INADL	0.203440116	0.160824353	ERBB2	19.23653766	13.58668708
BFSP1	1.865448923	1.192487903	BPNT1	7.870661321	10.81069023
CLPTM1L	88.18773304	89.52970504	NCAM1	16.98630469	14.74211238
AP4M1	13.69966512	11.75646442	ROMO1	109.9752604	110.6583174
NKX3-2	2.719586925	2.450455866	NCAM2	2.19693255	1.914846502
NKX3-1	5.531053948	2.926437532	NEGR1	1.951147989	1.519903697
VPS9D1	2.878042094	1.813699201	LG14	0.531728064	0.318352086
SRSF1	40.15670851	51.52435973	PRAF2	106.0281771	83.22156044
MTHFSD	4.09496628	4.539842283	LG12	0.485188518	0.603249454
E2F1	34.17618945	34.92730046	NAP1L1	66.18202431	89.97283149
E2F2	4.291716744	5.693054519	NAP1L4	29.72749553	33.89428801
E2F3	8.179465914	9.319851644	FMNL3	4.254431102	4.242933141
E2F4	31.79027895	33.37876623	FMNL1	0.662696451	0.585868172
E2F5	10.85577188	14.53977057	FMNL2	13.430078	13.76593327
E2F6	3.081551548	3.43309899	ALOX5AP	0.227020237	0.281389566
E2F7	3.954945827	4.189985575	IFT172	2.592231788	2.90019321
E2F8	3.227408235	4.316832113	FAM110A	10.08237347	10.0633091
STYK1	0.152038007	0.124770729	ZC3H12C	1.391287843	1.458308349
MAP1LC3B2	2.035684599	1.526698699	FAM110C	0.113109078	0.1
KCP	0.12195279	0.107837348	ZC3H12A	2.622842711	2.302932232
ICAM3	10.28595262	11.14489218	CKMT1B	0.1	0.141702267
ICAM5	2.574694406	2.633079302	SMCO2	0.426737591	0.449944964
IKZF2	0.562474276	0.562948661	STRA13	33.57722374	42.55043586
GAREML	1.399537469	1.078244444	SMCO4	4.730902763	2.8744612
IKZF4	1.014937184	1.018677753	ESX1	0.1	0.1
IKZF5	1.615614341	1.972086325	CH25H	2.211227511	1.095997205
ICAM1	3.07687539	2.271254336	ZC3H11A	24.36664485	26.26130884
KDR	0.134319588	0.161262042	MPPE1	3.985138642	3.33640376
TMEM63A	7.904941454	5.089760956	MEPCE	30.61923202	33.06851139
TMEM63B	12.70716804	11.80879747	LYPD1	2.365486174	2.989556739
BRI3BP	5.94043444	8.527841214	LYPD3	0.678589837	0.774044051
MON1A	11.16585496	12.97483615	LYPD5	0.262920508	0.216328236
MON1B	11.02972544	9.93017669	LYPD6	1.606751635	1.573641015
AP4E1	1.685655313	1.702564242	DEDD2	10.84942472	10.85272866
LOC100996693	1.311134064	0.691686086	JAG2	0.607493194	0.665789338
KHK	0.594774066	0.929434772	JAG1	9.870692813	7.293306653
UIMC1	14.38660117	15.33510396	LNPEP	3.784240448	2.158020853
PHGDH	49.73087254	41.42823973	FAM111B	5.62921482	8.027172271

KIN	1.261875603	1.561953374	FAM111A	3.860805784	3.471305988
KIT	0.1	0.12149971	AGO3	3.449508069	2.414149234
SGSM1	0.1336472	0.142043258	AGO4	3.440303037	3.257285635
SGSM3	10.5284932	9.904078715	AGO1	2.594773947	2.287851347
SGSM2	15.1826288	15.70134747	AGO2	16.9025273	16.25185979
FAM3A	53.43628227	48.32435508	NMT1	31.58817031	29.01438848
FAM3C	3.492569622	4.463161167	NMT2	10.13934549	11.06368341
MMGT1	14.93915313	19.03348065	LGMN	31.58127956	27.60937473
ACOT11	0.475630107	0.578107769	FAM115A	2.003973502	1.621313971
ACOT13	9.402765638	10.18589956	PPP2R4	72.3863868	70.52156706
KMO	3.345721634	2.424548963	JAK2	3.37957529	2.76428334
CCNB1IP1	23.17918532	31.38582699	JAK1	100.4041081	85.31454205
TSG101	33.40465741	31.854315	MAMDC4	0.511635801	0.424320579
AP4B1	7.266335233	7.569337653	IFT140	3.285862281	2.7431209
UVSSA	2.316142362	2.183316514	MAMDC2	0.1	0.1
AC005594.3	0.353750946	0.305340549	SDHAF2	27.54595765	29.09978701
LMNB2	51.36888509	63.65690789	AGPS	2.587425786	2.766521274
LTB4R	0.858676507	1.045841048	SDHAF1	4.509657462	5.610008769
LMNB1	33.8232944	46.05621645	TP53I13	16.45148487	14.04877401
MKL2	1.713357778	1.586409152	FAM117B	0.252983147	0.40842196
MKKS	9.897976993	12.7869298	FAM117A	0.298035363	0.304245727
MKL1	15.10576141	13.10595041	AGR2	0.1	0.1
SFSWAP	9.574814391	9.708532912	TP53I11	0.113820505	0.119736188
NT5C2	29.65456736	22.86555579	JAM2	6.307259116	5.037887616
TRDMT1	0.709597774	0.975364287	C10orf2	8.758546163	12.76581107
URGCP	16.14998801	14.770339	CKMT1A	0.1	0.120851133
YY1AP1	46.32210232	46.85988742	DCBLD1	10.31081842	10.90896344
WDR86	0.416240442	0.363435066	DCBLD2	49.62125663	39.44672509
LOC102724258	3.788383713	3.01374115	CCDC9	12.74422614	8.811165601
WDR83	5.28440135	6.584458505	CCDC7	0.366364268	0.495007883
LOC102724257	0.170778307	0.403222067	CCDC6	8.650072871	9.031373802
WDR89	2.93422133	3.226595021	CCDC3	3.009774823	2.413472065
WDR88	0.1862405	0.210839142	AGRN	22.25994815	9.309273217
WDR92	3.791274943	4.948272596	LGR6	0.115023504	0.1
WDR90	2.401046838	3.265760671	LGR4	7.020896247	6.420218136
WDR91	2.236986929	2.252248654	LINC00984	1.454257534	1.661123828
WDR74	16.61810913	22.38626433	GZF1	5.965638145	6.169816515
WDR75	12.88382208	16.19171008	C6orf1	62.94922808	44.25674541
WDR73	4.961185396	4.612268383	FAM118A	2.167237835	1.905317546
WDR78	1.66244442	1.410846474	ATP11C	11.94118322	11.80667711
HCFC2	2.736982662	2.500477176	ATP11B	3.293856381	3.142792118
KNSTRN	21.33537195	26.81217869	ATP11A	4.253826089	4.357906479
WDR76	6.872888108	7.524360054	FAM118B	10.96253973	10.96202378
WDR77	40.25005251	50.59612821	UQCRB	29.90410899	41.80461744
HCFC1	18.21330253	18.74571592	UAP1	340.2750212	284.4308773
WDR81	21.73817199	17.35372848	UQCRH	217.739506	298.5833728
WDR82	37.13888806	40.26229968	ARL17B	0.125693015	0.155035855
PARD3	9.470246962	8.950754458	ARL17A	0.149252253	0.219567847

LOC10272427 2	0.449134926	0.449004252	KHDC1	1.335205187	1.422938794
WDR61	13.54765549	12.41608035	SH3BP5L	17.35722808	15.32469548
WDR62	18.11050593	18.87770014	UQCRQ	58.11499069	66.19080459
WDR66	0.127545746	0.149170422	UFD1L	17.11586597	17.71954563
BLOC1S4	9.777857548	11.80889592	PTEN	5.652044868	5.109781691
BLOC1S5	1.46076183	1.95004991	ETFA	38.8621705	45.84490899
BLOC1S6	5.161986896	6.707486591	ETFB	36.63760064	32.46116726
WDR70	16.53505351	18.64708309	PTER	0.453040565	0.51689732
BLOC1S1	29.62759857	28.06397307	ETF1	68.03021041	77.04196566
BLOC1S2	5.22983884	5.734051092	SMCR8	16.19801904	12.54060663
BLOC1S3	11.38941211	9.544745388	ATP10D	1.741818982	1.045759657
WDR59	3.73324847	5.029985644	ATP10A	0.1	0.1
WDR52	0.444350018	0.4868872	ARL13B	2.614822286	2.518982494
WDR53	4.958752523	7.346397709	NNAT	0.299199682	0.384464465
LOC10272428 5	3.306868949	2.913137823	SEPT10	12.65701934	13.45207701
WDR54	14.21274847	13.50647423	SEPT1	25.09358156	24.80507358
WDR55	26.41323498	26.17473322	CNBP	82.41759667	97.02275925
XKR8	3.590702114	3.451882486	ACPL2	2.866725026	2.37611092
XKR9	0.257810683	0.291555536	GZMM	0.210417167	0.1
WDR60	3.263567303	3.478446694	OCIAD1	24.26688997	28.83542273
WDR5B	1.577934965	1.722814346	OCIAD2	0.164777153	0.1
MKS1	2.418092843	2.250162259	ANPEP	605.8136156	497.2241192
XKR5	0.1	0.107581068	C6orf106	51.1246229	36.68327339
FANK1	0.981179477	0.920667393	C6orf120	7.19223897	6.935490342
WDR47	9.633106812	9.687180517	ROPN1	0.1	0.1
WDR48	8.637447615	8.603448496	DECR2	5.465782556	5.571565257
PHF20	12.23872595	12.60329765	DECR1	52.13433257	46.4158174
PHF23	60.34001778	59.95690929	PTK6	0.1	0.1
WDR41	10.39683246	9.902836722	CNFN	1.088692122	0.549237307
WDR45	41.08530822	33.92518161	PTK2	56.38974953	51.003979
WDR46	10.15827728	11.55555132	MED13L	12.59845459	10.18561767
WDR43	12.43119428	16.70284444	NDUFAF6	7.801525083	10.84545516
WDR44	4.898007977	4.679747548	NDUFAF7	3.882974036	5.015690045
WDR38	0.453143121	0.632318095	PTK7	45.34004251	36.15243906
HELLS	4.448464122	5.516618789	NDUFAF4	4.84047322	8.300410855
WDR36	7.878505821	9.542356013	NDUFAF5	3.882226859	5.237309207
WDR37	3.739180755	3.486823674	NDUFAF2	33.26500157	50.55632061
WDR31	0.198247845	0.154561707	NDUFAF3	55.77282287	53.88922505
WDR34	71.91163864	75.49215842	NDUFAF1	6.252519804	5.371614604
WDR35	2.380204271	3.361553538	SPAG16	1.36843783	1.505377797
WDR33	7.943413939	8.491679123	SPATC1L	9.11744963	10.35054678
KIFC2	17.31241215	16.11647935	PTMS	624.5091742	577.2852257
KIFC1	24.28046347	28.31228206	SYNCRIP	32.86730379	40.83372751
KIFC3	7.260318031	6.52599478	PPP3CA	9.077038451	8.50092429
WDR27	2.674422968	2.609432734	PPP3CB	11.31487884	11.59330355
WDR25	7.815536184	5.906347558	PPP3CC	12.88868743	12.88074124
WDR26	18.02440013	17.43796009	CTTNBP2NL	10.93932576	9.700473178
AP5Z1	20.79955754	14.25479506	ARHGEF9	3.970131826	3.496328242

WDR20	8.192291657	7.651154874	ARHGEF3	5.327156845	5.561212628
LOC102724230	0.1	0.1	ARHGEF4	0.1	0.111018615
WDR24	6.665722209	6.510903285	ARHGEF1	16.06624166	15.84542352
LOC102724232	2.424441923	2.506556642	ARHGEF2	74.14886239	61.83305176
WDR17	0.32103987	0.386060582	ARHGEF7	10.63129959	10.59378855
WDR18	15.80931586	20.28534897	PTMA	945.2863952	1038.398875
WDR19	7.099630017	6.090871971	ARHGEF5	0.1	0.1
WDR12	12.07474658	16.50140827	ARHGEF6	0.701105443	0.726210317
WDR13	26.16011211	27.10636245	AHCY	157.4516025	179.7347635
WDR11	8.836312581	7.578376708	C6orf141	0.122373504	0.147925279
PHF5A	26.24637038	30.64608801	SPRYD3	22.54961389	17.76147885
LOC102724249	5.383180709	4.039945334	SPRYD4	6.905198123	9.395548049
LOC102724248	0.286959161	0.25017881	SPRYD7	8.388199355	9.06374793
N6AMT1	1.78490628	2.191022495	KAZALD1	2.048343196	1.32577103
N6AMT2	9.930230162	11.0751088	NDUFAB1	43.32782417	69.28312252
PARK7	215.3191535	241.6847377	NEK10	0.892512455	0.502064427
SLC26A11	3.785967443	4.656077305	C6orf136	3.775178765	4.57979066
AP5S1	17.88536064	16.16783014	C6orf132	0.169350563	0.122007811
IFNAR2	3.55057369	4.639845692	NEK11	2.193532665	2.059596994
ADTRP	0.575334612	0.678972454	PRDM8	11.37005496	11.31514687
IFNAR1	4.412936202	4.597553536	PRDM4	15.8113705	14.23741046
PARM1	0.675637418	0.452299164	PRDM5	0.766297006	0.63255407
FAM149B1	6.335885427	5.768738926	PRDM2	3.162102413	3.13951192
SLC38A10	29.11369128	23.89997131	PRDM1	1.084786528	0.895106799
ORC5	8.723169059	11.12594725	CELSR1	1.997596911	1.669882175
ORC4	3.196946466	3.533007033	CELSR2	0.676688748	0.56455692
ORC6	9.092159382	12.45739264	ETS1	34.42034952	30.81130889
ORC1	13.82143226	17.7867419	CELSR3	2.914280846	2.373033256
ORC3	15.64908173	17.89828781	ETS2	32.39796107	26.39388304
ORC2	3.314947589	4.78247826	GNPTAB	5.451996562	5.950731716
DRD2	0.234738399	0.127487341	PTRF	366.0748736	254.4308323
OSBPL9	19.96059565	19.65321963	SLFN12	2.420353478	1.83008364
FANCI	15.01042125	17.1356657	SLFN13	0.192014306	0.152559924
OSBPL8	6.783086951	7.699607963	SLFN11	5.746664076	5.150313478
UVRAG	4.94717683	5.15503155	NNMT	114.5376672	111.5470481
CHTOP	31.00132682	33.68314623	PLGRKT	12.06111417	10.5464796
OSBPL7	0.185259207	0.120292213	UBA7	2.577603912	0.805382574
OSBPL6	6.036882022	5.828298887	NDUFB10	99.15774333	125.1131942
OSBPL5	1.142500541	0.901623349	UBA6	6.498218384	6.607445625
FANCM	2.191753155	2.087930903	NDUFB11	86.39273498	103.1320167
FANCL	3.99934527	4.854564025	UBA5	6.040431883	6.540913978
OSBPL3	5.643691852	6.314268876	SLC41A2	1.981490645	1.190540037
OSBPL2	10.38661195	9.35966592	SLC41A3	9.123465733	9.06955572
FANCA	6.498830418	6.943140466	SLC41A1	9.839526586	9.499634197
LOC102724200	0.37545746	0.513031543	CNN3	207.7083228	177.3862279

FANCC	4.534865108	4.728692774	CNN2	100.4517751	89.39462215
FANCB	1.568038079	2.159416806	C6orf165	1.319623658	0.585657255
FANCE	3.345702611	4.448872548	LHFP	31.1311381	21.74112846
FANCG	14.06030134	17.06095854	AHI1	5.885003004	5.031191937
FANCF	1.198999513	1.26584868	UBA3	18.87993306	20.03877078
MAP3K15	1.995049818	2.357836145	UBA2	40.96655721	48.66434169
MAP3K10	9.171817865	8.056461138	UBA1	156.4456244	151.7247984
MAP3K13	1.31193527	1.30476779	RNF103- CHMP3	7.616223885	7.611211235
MAP3K14	11.29719779	9.08296504	PODXL2	13.19952978	21.07356883
MAP3K11	46.97091234	39.4725794	ACOXL	0.1	0.11563176
BCL2L2	9.049165881	9.247493406	ETV1	3.944852217	4.626468736
LAT	0.815336	0.610763045	ETV2	0.433234618	0.456903459
MAP3K12	13.53771636	12.69578569	ETV3	5.538530459	4.438062259
BCL2L1	39.24109496	31.22199092	ETV4	7.304765572	8.373678217
LBH	0.153047594	0.137876957	ETV5	21.89623298	18.24919345
PHACTR2	3.966818809	2.876382623	ETV6	4.636736994	3.456994167
LBR	11.44693075	15.32384168	ETV7	0.830884594	0.28787141
PHACTR4	8.338932188	7.332496416	ACOX1	3.253634677	2.667285376
CKAP2L	16.13140536	18.23341457	PTGES3L	0.177693834	0.192458041
PLRG1	18.60319454	20.6023146	ACOX3	6.010411764	5.79022228
TIRAP	2.334701437	2.216958376	BNIP1	6.547056017	7.540244009
DNAJC3	10.02379964	7.948756678	BNIP2	6.393656902	7.511829931
DNAJC2	15.27202754	18.99924289	PTK2B	0.716371083	0.516523476
DNAJC1	21.11902454	19.27685014	NIPSNAP3A	9.993966405	8.618256164
ACTBL2	0.155781615	0.1	BNIP3	24.24684517	28.39216064
DNAJC7	24.29934784	29.86784454	ERCC3	21.10499162	21.02589278
LCK	0.1	0.1	ERCC4	1.383221898	1.433217332
DNAJC6	3.790908418	2.511618042	ERCC1	38.96361051	36.07541841
DNAJC5	30.90957083	30.0668722	ERCC2	47.37808968	41.0653642
DNAJC4	32.11977538	27.00409562	ERCC8	5.513709391	5.762123213
DNAJC9	29.88564905	31.15028289	PTX3	1.413525579	0.387106549
DNAJC8	110.2720282	126.262198	ERCC5	7.781412801	7.954701038
NSRP1	14.72485252	16.89930627	ERCC6	5.697774646	4.418646946
DNAJB2	9.476166469	7.198339639	PI4K2B	8.409896012	6.538171024
DNAJB1	76.12625899	80.16088992	CNTF	0.401723362	0.530872046
DNAJB6	47.87587143	49.53891291	MRGPRF	1.965967898	1.237359453
DNAJB5	6.561416865	7.404819715	FAM122B	16.46337386	18.46887113
DNAJB4	14.85496219	12.55554373	FAM122A	4.816366615	3.844007996
DNAJB9	5.319690949	3.81233972	CNST	3.852643359	3.786024539
DNAJB7	0.180607102	0.186332427	FAM122C	3.903834048	4.336381095
LOC390937	0.173170813	0.256735913	LUC7L	4.138091009	5.160435106
RPRD2	8.285698073	8.326280106	PI4K2A	12.58816837	12.09245086
DNAJA1	243.6089439	233.2529938	BCL10	9.285588103	9.334715122
DNAJA4	0.116306113	0.158214322	FAM124A	1.212787451	1.333445346
DNAJA3	25.18252026	31.0722191	LHPP	2.414359349	2.665716066
DNAJA2	16.30920748	18.42802305	NDFIP2	4.385561839	4.116210473
DRG1	46.21123687	48.91080625	NDFIP1	16.89714627	17.94067486
DRG2	23.87040166	26.48336301	ARL2BP	28.27738308	24.97075523
IFITM3	2084.761646	1836.649937	FAM127C	19.59770011	18.14531744

VEZT	6.410763415	5.884638633	FAM127B	129.3184937	141.0578315
IFITM1	951.1634053	510.5716006	FAM127A	247.6620337	207.4874001
IFITM2	0.740495196	0.608139263	IFIH1	39.1644741	12.59867321
PARS2	5.848171468	5.152642082	UBL5	114.2126315	140.7576475
HS6ST1	8.486871131	7.815436385	UBL3	18.1502596	16.05236921
HS6ST2	0.111375362	0.1	UBL7	31.19597476	33.00412747
HS6ST3	2.223585002	2.025056035	FAM126B	1.825586185	1.479157362
RPS15	974.4554942	1215.824621	FAM126A	10.26768713	10.17241806
RPS14	634.5352915	920.4638712	AHRR	16.90317756	13.7883436
RPS17	503.9738286	760.9510621	LINC00843	2.154570276	2.240623795
RPS16	513.0829822	698.3823077	C1QTNF9B- AS1	4.558505114	6.143949961
RPS19	434.6182777	563.9400642	FAM129A	30.88759849	28.55536122
RPS18	312.3669995	410.5161168	FAM129B	235.9960264	199.4288619
RPS11	917.77186	1183.438354	PPP1R2	5.422569503	6.244892174
RPS10	228.6595125	319.5478758	RPS15A	366.246477	550.9791087
RPS13	247.3841501	346.4290865	PPP1R7	15.67782104	15.93386351
RPS12	513.3125155	740.1396771	UBN2	0.488447654	0.421017085
SRRM2	37.66297911	34.69377538	PPP1R8	28.76209978	31.8511554
SRRM3	1.148795138	1.228417666	UBN1	12.25793322	11.25118742
SRRM5	0.403301867	0.409375865	FDX1L	23.48424462	22.92040152
HLA-B	13.48439388	5.448607506	CPSF4L	2.508869102	2.67996519
HLA-C	55.89871007	32.47252289	POGLUT1	5.851950416	6.093997472
HLA-A	24.36650275	16.43662998	UBP1	27.115165	29.11894147
HLA-F	0.1	0.1	LOC10012810 8	1.034655658	1.156655408
SRRM1	22.84023868	24.44599315	PPP1CB	15.87501671	15.43314811
HLA-E	81.7154171	39.43068521	PPP1CC	48.30648162	66.00086631
WBSCR17	0.1	0.1	HMCES	21.26961565	21.6385481
WBSCR16	21.76424019	20.76062352	SSUH2	0.228184328	0.243826517
MTHFD2L	5.186139005	5.489750641	THOC1	7.01050005	8.376198396
CSTF3	9.246221983	11.09816404	TRAFD1	26.83554235	24.14878153
LHB	0.1	0.45462874	THOC3	17.39545948	20.60489511
CSTF2	11.71627462	13.47008369	THOC2	10.4871868	11.36738036
FXR1	15.23472282	16.76760648	THOC5	29.97294419	32.24553573
HELZ2	77.46075978	35.36578946	THOC7	26.69031179	32.61022452
WBSCR28	0.70832877	0.317178959	THOC6	15.46587065	19.92709305
SCFD1	19.22402583	17.65868054	MORF4L1	59.64375589	65.69243698
WBSCR27	18.51452353	14.60298226	MORF4L2	125.5595243	141.2912657
FXR2	36.93722954	36.28761307	C20orf96	3.813072331	4.065472865
AP5M1	6.025299119	6.296343752	UBR4	12.05940129	8.937112422
CHTF8	32.47182854	32.29733028	UBR3	2.833935951	2.840331526
SCFD2	13.69304508	13.54313138	UBR2	4.384370426	4.097499315
WBSCR22	50.8927816	55.2113326	UBR1	2.594304986	2.512940082
CSTF1	22.41914525	25.93657377	UBR7	16.34356386	18.91820991
MLEC	23.96043844	22.09124925	UBR5	17.16888703	16.56130307
LIF	34.77345243	25.49300819	COA4	85.49848835	104.617467
PARVA	2.942156109	2.388870444	COA3	27.55444959	30.72105054
PARVB	8.007432259	10.48399756	COA1	12.75108222	16.70533071
RPS26	10.61213522	18.81025391	LHX2	2.615852403	2.26484993

RPS25	423.4184337	718.9879562	LHX6	0.114459025	0.151620048
RPS28	11.93183533	18.16155735	LHX4	0.321186916	0.356638723
RPS27	451.9725032	610.3043176	LHX9	1.38913876	1.223406752
RPS29	64.02872839	103.4862156	LHX8	0.910028339	1.100432632
RPS20	808.8577867	1100.804384	NOB1	33.70003716	39.38846896
RPS21	465.8248315	664.2354499	UBTF	23.05545719	25.50991211
RPS24	128.1469296	209.4323127	COA7	16.29483989	19.33141255
RPS23	127.799186	195.8461612	COA6	25.96852245	29.96653998
AHCTF1	11.40262166	14.17722982	COA5	3.951509498	4.487482021
UBXN1	55.08464791	60.71729594	PLA2G12A	2.442025094	2.66505982
LOC10099657 3	0.530667632	0.464449898	COBL	0.109416581	0.113447224
LOC10099657 4	6.38565013	5.61545911	C1QL4	1.257268155	1.070016936
UBXN8	11.20682473	16.72841932	SMC1A	19.02847131	20.02177122
UBXN7	4.001825866	3.065968139	C1QL3	0.162516579	0.2041553
UBXN4	15.25569141	15.87472388	C1QL2	0.1	0.1
UBXN6	33.16976848	28.88429814	SMC1B	0.173291244	0.213384472
PARP6	18.55816617	14.50159129	C1QL1	11.94489115	9.249894323
PARP3	6.491482025	4.941549292	NOA1	13.27074628	17.50421705
PARP4	19.4214294	16.88699237	LCORL	4.055837866	4.623678802
PARP1	73.95294456	90.58742519	NOD1	2.10910234	1.787209931
PARP2	14.88422668	19.05006687	COCH	4.029694095	4.60484322
PARP9	25.89612739	14.50460122	MACC1	0.1	0.1
MLF1	5.190029914	7.236323124	BCKDK	30.13396652	29.56155296
PARP8	2.834277736	2.412912181	RSC1A1	4.947665004	4.381635146
MLF2	179.0677465	194.4317784	IFIT5	29.66869904	10.72066483
AMIGO3	3.665969214	2.346618409	IFIT1	117.2437117	30.35256769
AMIGO1	2.791122401	1.96146362	IFIT3	200.4659793	58.2803464
ICA1L	0.368079312	0.447215284	IFIT2	65.84549301	18.56748187
AMIGO2	16.35080215	15.88598186	HMCN1	1.047058201	0.692708234
DRP2	0.33355449	0.355354614	COG8	9.636547036	10.90860073
MTHFD1L	17.83545176	20.01797764	COG7	7.193748663	5.748542707
RPRML	0.1	0.1	COG6	5.84161916	5.166313737
MLH1	19.51830225	21.08565524	ARRDC1	5.461649931	4.594678818
MLH3	1.586953976	1.561029088	COG5	6.518265775	5.920104788
ATAT1	2.962230336	3.77692288	ARRDC2	2.031732609	2.535771988
DOCK10	4.307029355	3.672067414	COG4	22.08080252	19.02827757
DOCK11	5.850748006	6.928749285	ARRDC3	23.19777996	16.49417726
AP5B1	9.237753039	8.019421679	COG3	8.102938229	6.532561019
LOX	71.44896258	46.65221125	COG2	5.470638768	6.791988087
CERCAM	9.078520222	8.943232725	COG1	10.83260318	9.144376596
LPP	1.142088898	0.959294152	YOD1	1.743348294	2.346523178
CDH24	4.735112525	4.63106336	CRNKL1	5.279823673	5.765413098
MLKL	0.276905597	0.142104615	NEIL3	2.9981978	3.466581276
BLMH	6.325143161	7.264423108	NEIL2	9.48377035	10.60956347
GPSM1	8.522598992	10.05508176	NEIL1	0.494733215	0.616719073
GPSM2	16.55823403	18.34218537	MACF1	8.506492209	6.910751929
LOC10272417 0	1.128139358	1.136391139	APCDD1	1.397768043	0.737058279

ASNSD1	10.46502612	13.86582371	LIAS	2.473559199	3.807298161
MLNR	0.1	0.159877589	PUM1	24.52722995	25.25652644
MFSD8	1.851629727	1.659691239	TRERF1	3.915246287	4.242076678
RPS4X	753.0674621	1072.959513	PUM2	11.96874299	11.84648596
MFSD9	0.926912793	0.848336871	ATP5J2-PTCD1	5.850475404	6.469908276
MFSD6	2.710018293	2.095058343	COIL	5.247791682	5.49372272
MFSD7	0.167381682	0.196223518	C1QBP	188.8756634	278.0989272
MFSD4	0.125416476	0.127221746	LRRCC1	3.852930225	4.607572825
MFSD5	38.96154808	33.572068	GP1BB	1.238806698	1.610096535
MFSD3	14.47103098	15.9022174	STRADA	8.308751557	7.674061347
MFSD1	45.78997684	37.86633185	STRADB	6.028978638	5.691282584
TOPBP1	21.89699107	23.71231715	ZDHHC12	54.84726584	45.630513
GPSM3	0.336142168	0.268609846	ZDHHC13	4.134014523	4.473880728
HGSNAT	27.60246944	20.60105747	ZDHHC11	0.319287815	0.256575529
LSR	2.312148317	2.575115566	ZDHHC16	32.48921771	26.78724276
RPS3A	134.6278482	207.5786284	ZDHHC17	4.33580942	3.746439727
LSS	28.18209118	25.60963273	ZDHHC14	3.25605739	3.201188145
LOC102724187	0.241267918	0.276518806	AIDA	8.758546163	8.626969004
FCHSD1	9.335782573	7.647632423	WIBG	12.85475887	11.96045117
FCHSD2	4.531478637	3.817678124	FYTTD1	19.41870185	18.72468595
DDAH1	23.81295221	19.86570676	ZDHHC20	7.792695803	9.066360669
DDAH2	42.95687612	33.93344683	ZDHHC23	0.781947808	0.557590536
CDH10	1.92948327	1.611403744	NOL7	41.25673149	49.05852594
COL6A2	12.32649032	7.54897359	GDPD1	0.226517569	0.179043885
COL6A1	15.78455946	10.00518272	NOL8	7.039707055	8.07310554
CDH11	35.67264297	28.56919528	ZDHHC24	23.88634777	19.0548507
COL6A3	0.374952416	0.303332543	ZDHHC21	2.371558398	2.276061651
TERF2IP	14.46594797	17.01984704	NOL9	2.72388005	3.393820477
CDH13	0.1	0.1	GDPD3	0.415573436	0.381656539
AKNAD1	0.540983742	0.475422511	GDPD5	2.244176838	1.981588139
LTB	0.1	0.1	NOL3	5.891289892	6.059390631
CDH18	1.190218404	0.686647397	NOL6	27.50475357	27.21168502
LTF	0.759889199	0.25705767	PPP2CA	88.90660968	90.8354462
CDH19	0.108324191	0.105943625	PURB	3.785095529	3.857145832
CHSY1	21.05177874	18.15792925	PURA	3.760337422	4.121921304
LUM	1.106617371	1.221940754	PPP2CB	119.9571339	112.1356796
MLPH	27.82658408	25.57238879	ZDHHC18	17.87498295	14.16245866
PITHD1	16.69775068	21.06035657	WIF1	0.1	0.1
PAXBPI	5.357282765	6.498096459	KISS1R	0.131970017	0.1
USP6NL	6.56787369	6.127117104	PURG	0.815582327	0.853634919
ZDBF2	0.180646205	0.16837966	AIG1	4.005477285	3.319910044
NKX1-2	0.1	0.1	COLQ	0.265766678	0.27754068
STARD3	15.11344243	13.41149153	NDUFA13	143.6848947	164.4914892
GABARAPL2	27.00889496	26.86555104	NDUFA11	46.11229696	50.76107921
STARD4	10.58050734	8.791553812	TAMM41	3.217076619	4.479965006
GABARAPL1	6.628636411	5.197968292	NDUFA12	104.2698847	131.8701855
STARD5	1.521159553	1.001985804	NDUFA10	12.02289734	12.47730062
STARD7	20.52751836	25.32622468	ZSCAN9	1.596538843	1.499299821

STARD8	0.383599773	0.414992919	ARHGDIG	0.265449927	0.37564667
STARD9	0.710879024	0.711598599	COMT	47.85729368	45.50171381
DNTTIP1	41.94292773	44.1816719	CNDP2	11.99974056	12.0698699
DNTTIP2	34.91231786	41.59586187	ARHGDIA	192.890288	183.533868
CLNS1A	53.3755994	75.80127722	ARHGDIB	33.80851771	36.70608504
AKIP1	13.66179276	12.29952022	CPSF3L	23.77349936	26.73894475
CDIP1	9.014494535	8.470925748	PUS3	4.776741854	5.048570976
LXN	0.1	0.1332385	NOM1	4.220539	4.989324849
HS3ST3A1	1.374625711	1.024785306	LIG1	6.00139962	6.522096744
GUCD1	25.81745986	24.249101	PUS1	8.999300177	11.75869275
VTI1A	3.661223951	3.690303034	LIG4	4.939522855	5.606953501
PPARGC1B	0.99950456	1.150658137	LIFR	2.708199224	2.461326819
VTI1B	38.15596923	37.30564376	ATP1B3	211.6339367	193.157819
LYN	30.6860332	28.12135064	LIG3	5.943421451	5.785444248
HACE1	2.819962145	2.811175706	ATP1B1	6.948122874	7.350223389
INCA1	1.780963174	1.54934471	PUS7	5.507897433	7.907077067
APCDD1L	0.1	0.1	COPA	121.0292962	99.20545139
NROB1	0.689982956	0.778694523	NOP2	37.79341402	48.72486522
BBIP1	3.676038069	4.392145917	NOP9	12.40221369	12.65910376
PCDHGA10	3.306868949	2.558482748	UQCC2	23.04708871	25.05123285
FAM220A	14.08507727	14.30770231	NONO	205.8709684	238.1689291
PCDHGA11	3.171011447	2.437419749	UQCC1	28.66471357	28.96617098
PCDHGA12	3.212288482	2.454321816	COQ9	19.63171159	24.91729294
PQBP1	77.9100134	90.08089815	COQ7	2.741334535	2.557138259
FLVCR1	1.035980238	1.180533886	COQ6	4.887319039	4.80726465
FLVCR2	0.469658785	0.303033203	COQ5	8.142803106	9.437738496
NSUN4	5.878916168	6.492884106	COQ4	17.45014021	19.26059983
NSUN5	11.86175212	12.2423895	COQ3	4.790294475	7.590413983
NSUN2	52.99108359	60.74654155	COQ2	18.3219494	20.41824598
NSUN3	2.706614594	2.995154433	BRWD1	1.125315933	1.159774064
NSUN6	1.51179326	1.90285208	COPE	136.3461179	121.7845663
NSUN7	0.240484794	0.14012349	ZSCAN2	1.876812946	1.856629811
DYNLL1	308.7894789	320.6046002	BRWD3	0.814720921	0.906079746
DYNLL2	9.998732144	11.04302274	ZSCAN1	0.82517137	0.938812803
FAM222B	4.483015782	4.107875426	SLC40A1	0.1	0.1
FAM222A	1.721409281	2.108282882	MAPK1IP1L	15.29428289	16.35629326
STYXL1	15.21576703	14.01031232	CORT	0.311012498	0.7026672
ANKIB1	11.08657165	8.792515507	AIM1	3.044029654	2.83935682
FAM228B	0.520812995	0.700936418	AKT1S1	52.49711956	54.70285515
CXCL16	1.5282138	1.040101291	THOP1	46.22458473	53.61742641
OSBP	22.30934977	17.49769667	ATP1A3	0.243945604	0.230810662
PRPF4B	7.467054915	9.207455662	ATP1A1	132.7741351	119.681629
FAM227B	1.497387927	1.612733892	LIN9	3.365072914	5.481649953
MAK	0.480643515	0.484249826	FAM120C	3.050097257	2.65157199
RBM14-RBM4	3.286602491	4.512688913	FAM120B	6.197881335	5.966656333
FSCN1	69.94436701	70.16233604	FAM120A	30.31079694	34.18458515
FSCN2	0.194399655	0.122467696	NOS3	0.1	0.14177271
DSC2	0.367432694	0.404108512	KANSL1	4.489711133	3.895270125
DSC3	0.219120154	0.243528588	KANSL2	7.956896099	7.668017984
MAX	34.21653219	33.24392335	KANSL3	9.434240958	8.19841049

TROAP	21.87477605	24.79014945	LIPA	72.88443473	56.90253966
MAZ	85.53140468	89.25427836	TSEN54	3.975821105	5.553019651
GLIS3	3.264613735	2.64082916	LIPE	0.467868995	0.839353955
KRCC1	4.412044593	3.284320121	PREX1	0.1	0.1
GLIS1	1.57588855	1.65437202	SAMD14	1.455515582	0.426245965
GLIS2	5.854010009	5.535366692	SAMD15	0.638753983	0.557952669
CNTNAP3B	0.13257644	0.140705309	LIPJ	0.1	0.1
DSEL	4.561283024	4.228679416	MPRIP	12.03479928	12.79779783
HACL1	6.142430991	7.431247534	LIPH	0.1	0.1
MBP	0.74819552	0.464188991	LIPG	0.1	0.1
E4F1	12.18045105	13.13377209	SAMD12	0.211282329	0.20454951
KIRREL	40.87710206	36.9901957	SAMD13	0.1	0.265704635
FAM229B	2.99806824	3.058089628	SAMD10	2.233790924	2.587454563
FAM229A	0.843222847	0.630674766	SAMD11	5.673472941	6.708396871
MCC	0.63872738	0.681265883	LINS	1.008556785	1.47529962
CXCL10	2.193431391	0.862626772	CSNK2A1	31.20481957	37.02412945
CXCL11	0.358785938	0.123097239	CSNK2A3	7.878016044	9.137773538
CXCL12	0.1	0.12090401	CSNK2A2	10.40257391	11.32439507
MCU	10.69638569	13.28878134	ENTHD2	2.670076401	2.592570955
ARHGAP11A	8.316944537	11.09649462	PARPBP	5.563230685	6.842204822
ARHGAP11B	2.705226279	3.637988318	RETSAT	12.77793168	12.02032401
CDCA7L	0.363088844	0.42560713	COX3	5988.279844	8234.721007
FSD1L	0.593475447	0.749066775	COX2	10422.17935	10938.75745
MDK	228.7121244	215.0632164	COX1	11582.50581	13444.08909
ME1	3.525034458	4.031834039	UCK2	16.64627053	22.03230272
ME3	0.863659065	0.982048915	UCK1	15.75395783	17.13596435
ME2	9.602871421	11.73754273	NOX5	0.1	0.124444261
DSG2	10.08037976	7.836427016	C7orf55	6.19676143	6.200610801
DSG3	0.109358904	0.1	C7orf50	54.03469739	56.0142514
MET	31.72522313	28.62628058	DIS3L	1.768753668	1.864189676
MFF	26.42928135	29.53748717	NELFB	39.7821913	42.51398424
CTHRC1	9.686005759	7.843660961	NELFA	10.49434766	13.26338863
MMAA	1.19269891	0.824032185	C7orf57	0.1	0.186912292
MMAB	4.636209466	4.576579448	NELFE	41.15182585	39.96256487
MGA	2.12042216	1.764793969	C20orf196	2.035792816	2.317935413
DHODH	2.283366399	3.38605098	C7orf43	7.807965916	7.566049357
MGP	198.8409679	188.4920279	C20orf194	1.26550122	1.501299374
P4HB	392.5356741	342.3073523	C20orf195	0.239155206	0.298718747
SPON2	1199.090277	952.172155	ACRV1	0.409496969	0.352556025
MIA	0.1	0.1	C7orf49	21.85527794	21.09669783
NSMCE2	40.08881188	41.09881525	C7orf31	0.157579692	0.151391197
NSMCE1	16.68764446	18.75645931	RPS27L	20.18079802	22.89032719
MIF	1188.311827	1373.9727	PROCA1	0.508208043	0.352605637
GNPAT	14.36721636	14.67468544	UCP3	0.292808863	0.222372507
TMEM87A	11.80991806	10.76308185	UCP2	52.71408185	50.06219101
TMEM87B	2.631777504	2.569623113	RPS27A	131.534785	209.7098248
SEPT15	59.27928073	64.5712736	EVC2	1.300194518	1.285972722
DSN1	20.0750957	20.67131159	SAMD4A	15.15393362	11.38079574
TMEM86A	0.187020564	0.203557136	SAMD4B	21.95089799	23.02017048
TMEM86B	2.295542259	1.837133996	LYRM9	0.288570878	0.122440512

COL9A3	0.225435679	0.279126758	GATAD2B	3.233194158	3.220116411
COL9A2	0.535832861	0.48587891	GATAD2A	20.34744551	23.13708998
MKX	0.1	0.1	LYRM1	8.121427567	8.019984817
RCOR3	3.943511998	3.300346031	LYRM2	5.856661268	6.289088299
RCOR2	0.499011344	0.399146501	LYRM4	3.690063454	4.973853876
RCOR1	5.7951452	5.648658283	LYRM5	5.455329873	8.401249523
FKBP11	0.784955984	1.191004887	LYRM7	1.069957851	1.932916307
FKBP10	99.84318955	88.9978871	MPLKIP	26.7105372	34.43477018
FKBP15	10.89522614	9.690073866	C7orf26	10.42213975	11.39847522
DOC2A	3.617889004	4.36202084	C7orf25	9.186919892	8.914741475
FKBP14	5.623526452	6.740092379	MYLK2	0.318282676	0.292966851
BMI1	12.79246942	14.10494029	NRROS	2.502614838	0.97280391
REV3L	3.150160783	3.02504806	FOXQ1	0.1	0.1
MLX	19.54624302	22.13642503	SLC25A40	3.573413901	4.02530859
UTP14A	29.16024556	41.59909841	FBRSL1	7.788441492	9.024620666
UTP14C	4.159133958	3.414255397	SLC25A43	14.59660829	16.47791874
ANKDD1A	0.551023948	0.314692923	SLC25A42	2.369793036	2.072008834
MME	3.601827542	3.94375522	SLC25A45	0.587410881	0.472021725
MMD	1.570666015	1.793258116	SLC25A44	21.64077338	21.51863572
OSMR	49.15311041	40.93104011	SLC25A46	17.6965881	18.21053439
MN1	0.134377499	0.109818466	MYLIP	1.588187622	1.271267617
RABGAP1	11.99922227	11.06722897	TICAM2	3.396875281	2.575371246
MNT	7.35300769	6.290021947	TICAM1	18.40318686	16.18049819
PGRMC1	28.47151551	32.07173051	FOXP4	7.295806392	6.566069982
PGRMC2	16.6997352	17.51174713	FOXP2	0.61547591	0.552313802
MOK	28.24961341	31.12915799	FOXP1	2.06235396	2.230925934
FKBP1A	343.9391926	370.8826543	SLC25A51	2.569883434	2.461353044
FKBP1B	1.923765992	1.439408207	SLC25A53	0.37540436	0.457534132
LOC100130705	0.222945436	0.207293144	RNASEH2C	11.31102961	11.24822876
PLVAP	0.1	0.1	RNASEH2B	8.539406972	9.138837432
MPG	37.78381999	38.46037511	RNASEH2A	93.72147812	103.3919864
MPI	11.51842241	13.45002323	C7orf73	16.1761958	18.49858763
WBP1L	14.29985164	11.15269092	FOXO6	0.138987825	0.141757035
SNIP1	6.496606742	7.148294333	FOXO4	0.844821175	0.764770003
OSR2	13.58876053	12.81949536	FOXO3	2.78920927	2.611347308
OSR1	1.087458274	0.922573907	FOXO1	1.937941657	2.116971043
UTP11L	23.44006151	32.81524509	NPAT	4.413233336	4.916369505
WBP11	46.04793195	54.63147615	CLTCL1	2.211538026	1.614318691
MR1	2.208455134	1.591317622	EVI5	1.57686428	1.551788072
UTP23	8.399824916	12.25378854	CPA4	8.398926034	6.749823897
UTP20	3.317404279	4.66163553	C7orf60	2.656709217	2.668926272
MSC	13.4286075	10.15760191	C7orf61	0.462210098	0.284731903
OST4	157.1272684	153.4276314	FOXN3	3.636604709	3.671891745
ZFHX3	0.950546928	0.852782506	FOXN2	1.632838031	1.640128808
ZFHX2	0.306765976	0.311988295	SCGB3A2	0.1	0.1
SLC52A2	185.8737866	159.437458	CELF1	12.53053307	12.48001169
SLC52A3	0.1	0.127528138	CELF2	0.1	0.1
SLC52A1	0.13271491	0.13503857	SCHIP1	3.635847368	3.513227458
MSN	245.8545017	239.634	MCM10	6.893628528	10.13580628

DSTN	207.4290366	217.0137667	SQRDL	4.120193675	2.951972836
ZFHx4	0.606188112	0.482688059	FOXM1	109.8588279	116.8560754
BMP7	1.814095718	2.28092716	PVRIG	0.18723976	0.318017769
ANKHD1	11.8350105	10.35154428	FOXL2	2.130320732	2.376261826
BMP6	0.936574508	0.613703429	FOXL1	0.1	0.1
BMP5	0.1	0.151235036	SLC25A16	3.477064309	3.056302647
BMP4	132.9476012	109.4341953	SLC25A15	4.609076266	6.529901473
BMP2	3.118121805	2.584720337	SLC25A18	0.24935681	0.313287012
BMP1	22.32255556	18.7431322	SLC25A17	11.74943725	12.12589718
OSTC	28.60104779	34.65038221	NPC1	65.52681683	49.4793516
TAB3	3.196683823	3.021154351	SLC25A19	4.861725167	7.184945021
TAB2	23.10277247	22.04421662	NPC2	258.5243009	230.6048855
OSTN	0.1	0.1	SLC25A10	15.42061409	22.54738507
TAB1	13.28118628	13.46954749	SLC25A12	4.271175565	5.787524729
LSM14B	28.57907319	27.85627469	SLC25A11	75.89212774	85.3572479
LSM14A	20.98507374	23.05790952	SLC25A14	7.440289999	8.849431353
PSIP1	42.45175171	52.14387306	SLC25A13	13.42542933	15.00504704
MTR	2.668532542	3.08636496	FOXK2	20.50731462	20.86060802
LRRFIP2	25.8783896	22.14864028	FOXK1	4.626181311	4.568138326
LRRFIP1	13.22874054	14.20880891	SLC25A27	0.207179174	0.307718585
UTP15	5.473566824	7.096564022	SLC25A26	2.548881743	3.02812161
HS3ST3B1	0.602592167	0.518670047	SLC25A29	12.04607374	11.93905953
MMP7	0.332132605	0.166298778	SLC25A28	13.78868397	9.954627266
DYNLT1	96.19959535	88.70569601	SLC25A21	0.1	0.1
MMP1	41.9643867	29.82948501	SLC25A20	17.67337065	18.80392946
DYNLT3	0.1	0.133478489	SLC25A23	16.45014808	19.23674456
MMP2	38.93822068	34.86920567	SLC25A22	16.90208586	17.32453002
MMP3	0.611555244	0.404383202	SLC25A25	6.613045171	6.0819684
MUT	5.902072622	5.913264848	SLC25A24	28.34352547	30.78934362
UTP18	21.00722122	21.36129037	FOXJ3	14.31088742	14.37071901
MMP9	0.233436499	0.17939676	FOXJ2	6.259855898	6.636476564
CDHR3	0.723415324	0.910364861	FOXJ1	0.1	0.1
SPOPL	2.700281913	2.668256709	MERTK	0.859354021	0.662652824
MVD	19.25933619	17.72630591	SLC25A38	11.81594241	14.50804477
MVK	12.0540565	11.82053972	SLC25A37	37.07486838	34.67306592
MVP	106.524633	83.30506813	SLC25A39	68.86561501	78.77552987
TAF9	86.91051276	103.339509	SLC25A30	5.9194173	6.254724916
BMS1	9.092063721	10.21240067	SLC25A32	26.02735663	32.39077043
EPS8L1	2.524858126	2.317179845	PVRL4	0.1	0.121184561
EPS8L2	0.925631541	0.542137066	PVRL3	7.98069428	6.906009934
MX2	3.66586881	0.600696672	SLC25A33	17.06150521	16.67939118
MX1	390.3636926	106.186934	PVRL2	37.82652257	25.94642531
TAF8	2.034803514	2.082131017	SLC25A36	4.704515787	5.778281484
TAF7	42.74758424	42.75425034	PVRL1	0.858274431	0.817383984
TAF6	28.38918196	28.23623394	SLC25A35	10.91929646	10.88860847
TAF5	5.059852637	5.26457944	FOXI3	0.1	0.1
TAF4	4.006448658	5.237718349	ZDHHC5	37.5709978	36.26681202
TAF3	2.415596639	2.844383428	ZDHHC6	8.627977823	9.944897184
TAF2	28.69565966	30.18155147	ZDHHC7	27.96391031	21.728822
TAF1	4.395210698	4.362982337	ZDHHC8	15.61697159	17.18907217

TPGS1	12.971232	10.45573221	ZDHHC1	2.142882469	1.263231692
LOC10272401 1	0.913009029	0.738553721	ZDHHC2	6.261557566	6.07394257
TPGS2	35.13601301	35.81149052	ZDHHC3	6.361508947	6.290158426
MYC	59.69246226	88.50828532	ZDHHC4	27.13722269	24.49782322
MYB	0.989866898	1.128712602	CHORDC1	9.047590687	11.38714658
CDK20	22.476343	17.84203441	NPFF	1.106807693	0.723028631
NKX2-8	0.1	0.1	FOXH1	3.764909141	3.141619673
IAH1	14.13262092	14.31659999	SFRP1	60.66911809	56.28516417
LOC10272402 3	3.594620433	3.998786235	SFRP2	43.5145596	28.88059928
NKX2-1	0.1	0.1	CTXN1	132.0965541	137.1692585
FZD1	3.205133796	3.007841532	FOXG1	9.806430102	9.367756427
CDK17	5.016246453	4.853846036	EVPL	0.1	0.122525682
CDK18	0.179314927	0.137754877	RBM12	18.09923383	19.42748855
WNT10B	0.911396052	1.258703376	RIMKLB	1.746395986	1.328991389
WNT10A	0.1	0.1	RBM10	25.76541385	28.76612958
CDK19	5.499073906	4.994327187	RBM11	0.1	0.1
FZD3	0.197971509	0.191477598	FOXF2	0.123754585	0.11696121
FZD2	52.78585905	41.93413818	C20orf24	75.46115852	82.61559414
FZD5	0.471985073	0.602952588	C20orf27	65.01704559	79.30559648
DNAH17	0.145428501	0.167576634	PILRB	3.243088384	3.014910137
FZD4	2.418626102	1.283963108	PILRA	0.573719851	0.494618789
FZD7	19.40466823	12.69910916	MYLPF	0.1	0.156632315
DNAH14	0.278131388	0.341129304	CYSTM1	101.6048027	95.28118463
FZD6	6.807806513	6.482737948	SUV39H2	5.379474329	7.09279681
FZD9	2.18514946	2.063995135	FOXE1	7.905450456	6.959366181
FZD8	12.00346271	11.76615019	SUV39H1	14.13241597	18.67194513
LOC10272404 9	0.338856446	0.526369726	DIRC2	3.416038956	3.512618824
FHDC1	0.464924528	0.382738376	FOXD4	0.14750917	0.16784484
LOC10099672 4	0.439643325	0.317249952	SBSPON	7.158151374	7.620407571
CDK10	4.557404033	5.489466296	FOXD3	1.732897971	1.26591915
CDK12	6.540603749	6.928658066	FOXD2	0.366701743	0.520532793
CDK13	6.520358531	6.917881152	FOXD1	31.63204707	31.39820271
CDK14	0.271024731	0.38732894	FOXC2	0.1	0.122040503
CDK15	1.224605257	1.784317999	FOXC1	27.44515361	24.19186575
CDK16	45.21439897	39.91333449	IBA57	1.506575566	1.639332807
GCNT1	0.300013286	0.323533643	FOXB1	1.951587665	1.371218855
GRAMD3	9.680534451	8.984158711	NPM1	544.8175646	762.3095954
TANK	8.505548957	8.787120469	NPM2	0.131504716	0.1
GRAMD4	4.018663606	4.131434708	NPM3	32.73985589	48.48737298
GRAMD2	0.210467478	0.1	PPP1CA	160.6546783	159.8541834
GCNT2	6.705106704	6.157972772	ZDHHC9	24.39021767	23.40879379
DTD1	9.955010773	12.10750941	ENGASE	0.257462195	0.373046471
DTD2	2.619084672	3.047056097	FOXA1	0.176851001	0.143898422
SAAL1	7.836702254	10.73640689	SAMD9L	15.75894371	4.837527742
TCAIM	5.909969086	6.252154053	CPOX	4.127230773	5.987962885
TRMT1	16.92038303	22.63700318	ACRBP	0.265274476	0.237677181

TRMT5	3.896552084	5.047747132	IFI44L	21.14937678	5.903462498
TRMT6	16.13434475	21.43427778	NPPC	0.322330715	0.152916072
LAMTOR2	76.76818408	77.71995125	NPPA	0.829140729	0.707389855
LAMTOR1	95.45416741	92.44213547	ADPRHL1	0.789618721	0.90243034
LAMTOR4	50.60818595	57.98387042	ADPRHL2	34.01733281	29.0777608
LAMTOR3	5.307265846	5.872129596	RPGRIP1L	1.957203528	2.140119136
LAMTOR5	76.92677077	90.91524683	NPNT	1.45877628	0.960653508
GUCA1B	0.397518326	0.753641695	HOMEZ	5.946428123	5.593228565
MACROD1	7.167357488	8.953022953	C20orf144	1.193711094	0.750774845
NBN	19.76301308	18.07313094	C20orf141	8.603716589	10.20267524
MACROD2	0.311355887	0.258457585	RBM8A	21.89209986	26.15788533
LZTS2	24.68141891	19.35815337	NPR1	0.136593996	0.1
LZTS3	6.178752861	6.251733621	NPR2	6.485639401	5.3502917
TAP2	6.555030885	3.790854618	NPR3	0.574186152	0.408703128
TAP1	26.56400161	8.368279588	VARS2	1.941019782	1.763691838
NCL	219.3202394	297.2765606	BCL9L	24.56542695	21.91558714
ND1	2163.740264	2532.591671	HMGA1	182.795324	202.1258199
ND3	1255.188798	1811.496045	HMGA2	12.59842316	12.69768059
ND2	2872.227843	3556.049295	CPS1	0.307444335	0.280318863
ND5	738.3127371	846.7559187	RBM27	7.024211139	7.288225075
ND4	5639.942693	6816.758709	RBM28	12.32491779	13.23944298
ND6	552.2678581	634.3042583	CD164L2	0.1	0.148205544
TARS	87.53189466	91.72395649	RBM25	20.50382479	24.082331
KRBA2	0.404857338	0.420108441	NAA40	9.279005222	10.37980405
KRBA1	2.94310471	2.831311738	RBM26	5.577216079	6.685193603
NDP	5.414377136	3.968603159	LAMC3	0.1	0.112166011
WDTC1	19.5803813	15.16397244	ATP2A3	0.195713714	0.160747867
NF1	3.323756691	2.928888004	HMGB2	64.23107865	91.51149137
IARS	65.46908344	74.31982145	ATP2A2	31.13331242	30.42219453
PCNXL2	0.580113019	0.578845038	HMGB3	18.60144932	26.98568992
NF2	16.59233345	14.5441235	LAMC2	1.421186663	1.452357116
LZTR1	16.43786393	16.49364424	ATP2A1	0.158768413	0.16294259
PCNXL3	14.09998473	10.8821	LAMC1	108.3817654	90.23285225
NES	0.1	0.1	HMGB1	85.10429188	121.7814173
PCNXL4	11.05608301	10.20808229	SEC61A2	4.395022503	4.28189769
BNC2	3.331077281	3.186456828	SEC61A1	164.6552412	143.2328799
PGPEP1	1.478718248	1.089666489	CPT2	11.80330965	10.77026758
VSTM2L	1.659066806	0.949052634	BCL7A	1.526771742	2.177433108
NGF	9.206711078	5.373566758	BCL7C	16.33151733	18.23781947
PATL1	32.06324329	27.51196009	BCL7B	51.02073823	47.06285916
FZR1	30.56658567	30.46283201	NPTN	14.745561	12.48646906
UGGT2	8.992086345	9.52587512	UQCRRS1	100.3099387	118.504336
UGGT1	5.469027161	5.05651882	RBM34	27.49147199	32.91022038
ARMCX5- GPRASP2	1.06254904	1.088550114	SULT4A1	1.301307419	1.680076044
MND1	3.904749941	6.941961935	RBM33	3.783574771	3.942691188
NIN	3.501842095	3.48399126	RBM17	15.63139695	17.90085086
METAP1	10.51153684	11.60754895	RBM14	14.54849919	18.43129985
METAP2	37.15936786	48.50439539	NAA30	5.869784281	6.731359316
HABP4	25.89044632	18.25039125	RBM15	5.838715819	6.316597362

UBAP2L	108.8627086	110.4692776	RBM18	7.04744606	6.501154263
COL8A1	1.931992621	1.588086899	RBM19	8.775897958	9.400385463
NLK	3.305317113	3.178465763	GORASP2	35.10460374	33.23854418
NLN	8.617586111	9.35962213	GORASP1	12.31170947	12.45818334
C15orf38- AP3S2	3.994684927	3.521249022	NAA35	6.366849845	7.567007477
PATZ1	11.77949747	12.02034459	NAA38	64.13410693	84.10326709
NMB	16.99677455	15.83801031	RBM23	12.4169733	11.26795045
DTNA	2.422869275	2.52784291	RBM24	7.504364805	8.79170044
DTNB	5.531174915	5.588803037	C20orf112	0.445410952	0.50405302
KTI12	7.482227448	7.514458923	RBM22	34.15784179	38.37130303
NMI	19.17338972	10.23255114	LAMA5	24.1009355	21.16037429
NMU	1.882641857	1.554673183	RBM47	0.514316739	0.388614403
PRPF19	54.66992315	65.62087874	RBM48	1.874811805	1.575439016
RPTOR	7.957857967	7.615139559	NAA20	37.92300984	42.41201564
NNT	21.78893628	21.50170041	LAMA4	2.966617371	2.679895234
NOG	1.170877274	1.001866619	GOSR2	13.34248237	10.92276848
KREMEN1	0.235422032	0.287344274	LAMA3	5.178427704	4.273358502
AMPD2	30.91169676	27.72427561	GOSR1	7.568430565	7.439411583
AMPD3	1.45888652	1.484915214	RBM4B	5.072479368	5.946747145
KREMEN2	0.807163712	0.677060436	HMGCR	30.99638362	32.25583327
PRPF18	7.229969978	10.02078579	ATP2C2	0.159851702	0.164102822
NOV	26.50507042	21.63486771	ATP2C1	15.78574704	14.91254793
NPB	2.204995015	0.941682863	HMGCL	23.07099374	15.50976555
CXCR4	0.182244766	0.1	RAB40B	2.706874113	2.93002087
NPL	0.700692003	0.970064684	RAB40C	8.908215773	7.876268746
NPW	1.327195519	2.98429048	NAA25	7.331574901	9.827736309
PRPF39	6.095771506	7.368801043	RBM38	13.65157328	17.56600053
PRPF31	27.52779416	30.86811962	RBM39	36.34065619	41.91277405
NRM	8.09250415	7.596332917	LAMB3	0.919648917	1.020899253
NRL	0.755881456	0.363425167	NAA10	146.7996256	183.1155819
NSF	5.454255385	5.389853474	LAMB2	77.07876888	55.73486253
SPNS2	0.231401252	0.219410974	ATP2B4	57.89288357	46.90851283
WRNIP1	20.57099715	22.56351089	ATP2B2	2.878296321	2.345528419
TRNT1	8.819414677	10.69367663	LAMB1	82.7101729	74.71980743
SPNS1	39.02237561	35.80292542	ATP2B1	29.78644399	28.40201317
RAI14	30.6206453	27.2569879	RBM41	1.704788103	1.580350454
LTBP4	4.623648607	3.834650744	RBM42	71.79276223	75.12014092
DTX2	23.59694152	20.49587001	NAA16	1.761197953	1.712789834
LTBP2	29.44026409	23.2740968	NAA15	14.81360437	18.04598929
DTX3	15.70629286	13.18407471	RBM45	5.20388506	4.497552082
LTBP3	53.44342094	46.35331695	RBM43	0.750386452	0.403273714
NTS	0.477370051	0.638898298	DCAF8	19.38767228	19.26339783
DTX4	0.11792969	0.125604256	DCAF5	8.482542555	7.578564229
LTBP1	18.5016936	18.4153574	DCAF4	10.95032548	12.87655645
OTX1	17.74451634	16.32220362	DCAF7	12.12070619	12.53837928
TBCD	15.94795272	16.59652562	DCAF6	24.31616062	24.9696027
TBCC	16.61993968	16.0071288	SULT2B1	0.182923028	0.218417131
TBCB	64.8717955	66.1150415	PRDX3	61.20596904	77.60235212
TBCA	33.63238556	47.55072073	PRDX2	151.4994343	172.491385

TBCK	3.357041369	2.708429081	PRDX5	232.4743306	209.6717919
TBCE	13.70687056	14.7170971	PRDX4	123.448797	150.9766358
DOCK6	2.015654068	1.74362618	PRDX1	382.898883	409.9980452
DOCK5	9.698961679	7.843799549	F8A1	10.69171158	11.21517318
DOCK4	2.545717759	2.072904861	F8A2	0.286205294	0.498862002
DOCK3	0.135114077	0.166858923	F8A3	0.612064558	0.432385002
NVL	13.06561784	15.02643883	RAB3IP	3.116039302	3.430245481
DOCK9	4.339182268	3.487082395	PA2G4	97.31575592	149.5925973
DOCK7	11.4928239	11.17350213	PRDX6	91.9324369	114.2256442
CXCL1	226.3408379	203.4955286	FAM102B	3.008882362	2.95500043
CXCL3	6.958106451	5.732936365	FAM102A	2.971615887	2.738758276
CXCL2	8.50705312	5.948872675	CEMP1	8.796356408	6.687319175
CXCL5	31.9640067	34.19741079	FAM101B	9.523519871	11.49862147
SENP6	6.252528667	7.133211661	FAM101A	0.1	0.1
SENP7	2.719305117	2.731630761	JDP2	1.473657519	0.743158495
SENP5	4.184945051	4.116378487	HBEGF	4.219969803	3.623788475
SENP8	0.69486195	0.565194014	ASAH1	65.42605187	60.20445107
FLOT1	44.10139457	40.57418178	TRIM16L	10.44436542	10.72173768
FLOT2	27.1020315	26.68039415	FAM105B	4.652974122	5.11259819
LOC100996740	0.30116661	0.243636655	FAM105A	0.232641558	0.30520177
SENP2	11.58516348	11.5599863	HS1BP3	25.45948726	21.00116563
SENP3	32.53309473	39.54415746	FAM104B	5.048788027	7.402619505
SENP1	8.532729661	8.359191534	FAM104A	10.60538288	11.00476007
TRNP1	0.952971197	1.013555657	RFWD2	13.49296097	13.93217383
MNS1	1.15289291	2.025302743	RFWD3	15.94590572	17.73887784
DOCK2	0.415269353	0.465040179	ALMS1	1.462590553	1.11596401
DOCK1	5.390631942	4.97084178	FAM107B	4.170909612	3.40132304
GCOM1	1.846762634	1.900864882	BEST1	0.46476727	0.350433204
NXN	50.52228767	43.04532929	NUTM2A	0.303110987	0.156398602
PMF1-BGLAP	8.455799793	9.808962575	DISP1	2.241776853	1.968268321
LTC4S	0.177887971	0.155613443	DISP2	1.782841444	0.932996975
CDIPT	48.61693233	45.64058177	FAM109A	2.429510577	2.993709523
LOC100996760	0.126478734	0.1	CYP4F22	0.1	0.1
LOC100996761	0.578212591	1.372686873	GLB1L2	0.194313967	0.391814923
SLC4A1AP	9.143370436	9.954308792	KIAA0226L	0.282789112	0.249159753
C14orf79	5.449547629	5.232278476	DHCR24	74.64511279	69.00894799
SYNGAP1	6.600392726	5.099380133	BET1L	27.97372303	24.18109096
TBK1	11.72327621	12.31994525	SMDT1	6.250819553	7.419663599
MNX1	6.235789606	6.390325054	ACSS3	0.431068551	0.430944638
PHKA1	0.471020319	0.629830648	ACSS2	9.520862316	7.984338211
PHKA2	1.807318962	1.904204514	SAA2-SAA4	0.1	0.1
C14orf80	17.11328369	17.90953826	SCGB2B2	0.1	0.1
C14orf93	3.065722504	2.641096423	ACSS1	0.777257277	0.744765517
SDR42E1	0.187166572	0.162238534	RPH3AL	0.21318361	0.248161158
IL31RA	3.776446188	4.160241073	KCNIP1	0.481994684	0.372751222
NR2F1	8.885758313	6.651486055	KCNJ11	0.115226048	0.1
NR2F2	49.94679276	47.48761581	KCNJ12	1.719131577	2.18521699

AIF1L	0.144339639	0.142212422	KCNIP3	2.132410973	1.65301588
NR2F6	37.36438603	41.61503409	KCNJ14	0.263999121	0.451295155
TBL3	21.34915377	22.26497979	KCNIP4	0.402796785	0.455189768
TBL2	19.84876444	17.09348947	ACSM3	0.45004824	0.54107213
RAB3IL1	18.61279632	15.37926369	GORAB	5.441723879	6.294309929
OAF	8.948741091	10.19837581	ACSM4	0.1	0.1
L2HGDH	1.642769669	2.205755783	PWP2	0.609951185	0.566521722
ERGIC3	220.9880063	217.3697098	PWP1	49.27568258	59.41463269
ERGIC2	16.99805182	19.78474885	ACSL1	11.12572179	12.45568352
ERGIC1	61.8710148	62.15200723	ACSL5	0.699260515	0.440112142
OAT	39.56012386	39.32193861	ACSL4	23.40260652	22.64157202
NEURL1B	4.80370764	5.082884719	ACSL3	19.76786478	18.38765358
IL12RB1	0.703005893	0.265598956	RABGAP1L	2.245162302	2.187883863
DAB2IP	22.86294229	20.27239899	RAB39A	1.324440871	1.015905338
COL3A1	46.4776336	34.92392212	RAB39B	2.925368423	2.846151254
CDKN3	56.6194065	64.66303578	PARP16	0.824192416	0.984490389
EXOC3L1	0.49530407	0.263410424	PARP14	29.64364133	10.77731087
PSKH1	8.920225422	8.688881912	PARP12	31.06882237	14.40486095
CDKL3	0.664687793	1.226172211	PARP10	38.08143388	11.35056149
CDKL5	0.771629062	0.60884132	PARP11	0.1	0.1
POLRMT	18.53560761	22.80916785	NCEH1	25.11848286	21.11859474
TC2N	0.1	0.1	MYL6B	69.33581838	64.7358873
CDKL1	0.558124136	0.885061718	RAB33A	1.084636116	0.635655829
INO80C	2.429990721	3.234113577	RAB33B	1.630743235	2.027094185
KHDRBS1	77.19744129	85.84674984	ALOX12B	0.1	0.1
INO80B	8.792878225	8.42486045	AAMDC	14.79329046	13.5887877
INO80E	10.05963089	11.86457265	NQO1	215.6647158	176.8091058
TXNDC9	11.74659347	13.55572695	NQO2	18.28637833	15.70699066
INO80D	0.489561075	0.375529672	CDK5R1	0.962709322	1.26460667
KHDRBS3	1.214948203	1.29414025	SMEK1	15.28558315	15.17609421
AGAP11	0.330528646	0.276358952	SMEK2	5.712849679	6.50831646
TXNDC2	0.190161883	0.138626345	HDLBP	121.9825535	105.842234
TXNDC5	71.89277366	82.51999968	CHCHD4	18.49671155	27.6662382
BOD1	57.23565984	55.28092869	CHCHD5	27.72063474	28.78105632
TMPRSS13	0.1	0.110758169	CHCHD2	436.8094461	520.374127
MOB4	3.847080215	4.225929712	CHCHD3	61.0083937	68.54396931
IBTK	6.379824689	6.258321417	CHCHD6	5.447925571	7.191531769
MOB2	8.943426152	8.064465098	CHCHD7	29.49506434	32.41818519
CNTROB	25.31699686	27.69454988	CHCHD1	32.23100306	38.73243136
SP140L	8.706620848	4.354428354	PREPL	6.816277972	8.517770734
OGT	25.9471898	23.43695827	AKNA	1.703477887	1.29010659
C14orf28	0.582685643	0.814822197	CPLX1	1.265262287	1.313360576
SMIM10	4.293983297	5.195617879	KLRC2	0.270192554	0.616462592
SMIM12	8.146354827	8.153216912	ACSF3	4.401959056	4.322338053
SMIM11	0.330894564	0.553373142	ACSF2	2.316886388	1.89075285
SMIM14	10.6221752	6.536533067	RFXAP	2.61940706	3.40893093
SMIM13	3.63131416	4.281294248	TSEN15	12.63133836	15.24484974
SMIM15	20.6288437	23.65287022	CTDSPL2	4.884845818	4.840444211
SMIM19	39.00156887	35.88109835	EGFL7	0.564505535	0.536401955
C14orf37	0.791110433	0.653644271	EGFL8	0.267871452	0.297421907

MMS22L	1.516228018	1.644635768	TSEN34	64.57716386	69.47130663
SMIM20	11.954961	12.58455637	CD163L1	0.155598541	0.1
GTPBP10	1.477652532	1.890277975	PRELP	0.108926336	0.1
PHKG1	20.13422481	18.38540983	KLRG2	0.1	0.115651547
PHKG2	4.540844184	4.334524596	TBKBP1	3.794648145	3.563557848
TBX1	0.449159626	0.244335277	AKT2	34.37804068	32.35792677
TBX6	0.198672891	0.346589899	AKT3	6.780285194	7.275644132
TBX3	22.83343565	20.13224571	AKT1	64.30475649	60.91010848
TBX2	1.083692818	1.1206383	PKNOX1	2.84704996	2.553537897
SUCLA2	13.71200279	15.71588973	TSTD3	0.854479126	0.638711957
SMARCB1	63.76548153	71.10821006	TSTD1	6.893034731	8.367644764
HERC5	26.81358276	10.81726335	TSTD2	4.74604916	5.050915133
HERC4	27.20185498	26.6430808	SKAP2	0.898042784	0.781912398
HERC3	5.17189491	4.521339548	TSTA3	26.24872065	31.12905136
C1GALT1C1	30.68686003	29.22593405	EXD2	5.766338863	5.922962272
HERC2	3.07686913	2.588259256	EXD3	1.081594912	1.020554603
HERC1	2.02437456	1.676605786	CRABP2	0.782571522	0.803976876
PTGFRN	0.1	0.1	RNF219	7.023896846	8.255678302
HERC6	24.5868387	8.911962553	MEF2BNB- MEF2B	3.019652497	2.614858724
SMARCC1	22.64199929	27.07171784	SULT1A1	0.1	0.120460103
SMARCC2	19.33536007	19.87514693	RNF214	7.975887541	8.403284884
TALDO1	66.42878243	70.14023171	RNF213	4.8580483	2.541008181
MOGS	34.17788428	29.83939886	RNF216	15.19695228	12.75640268
OMP	0.416776079	0.55236788	RNF215	6.722301175	7.163717388
RANBP17	1.738410838	1.724799219	RNF217	0.600611188	0.594410716
SMARCA5	13.14353283	12.12775764	SULT1A3	0.248326273	0.152953842
SMARCA1	23.96369514	22.43054356	TIPARP	44.63687143	41.4437891
SMARCA2	2.803586863	2.585561475	RNF223	0.1	0.1
SMARCA4	39.33455073	43.27947789	RNF224	0.1	0.198720336
ECHDC1	15.13419048	16.78387594	RNF220	31.53651819	30.74954654
RANBP10	4.929959396	4.494285477	ARHGAP8	0.1	0.121503864
ECHDC2	8.702503793	5.882208212	ARHGAP1	35.39249547	31.66125805
GNRH1	1.066535386	1.135186033	ARHGAP5	2.161046103	2.343939615
ECHDC3	1.733292867	2.05114417	ARHGAP6	0.766042013	0.869298318
NOL10	7.421892381	11.23461249	ARHGAP4	0.300286655	0.177004497
NOL11	16.10454988	24.04342267	DLGAP3	0.398414646	0.293703218
NOL12	10.41708458	13.47479794	DLGAP5	28.93935998	37.7474514
PAK1IP1	23.88169352	31.9804149	DLGAP4	29.58871548	26.77581281
ICA1	0.395898242	0.356550376	METRNL	8.473099586	9.30560351
NUDCD3	24.0628831	21.45724719	SLC39A11	3.652074512	3.585777151
NUDCD2	21.80116633	25.61202146	SLC39A10	4.110874293	4.443261316
NUDCD1	23.5851839	21.8704188	SLC39A13	29.81739081	23.0905086
KIF7	1.63896181	1.134208946	WNT9A	0.518961911	0.1
DUS2	6.959803024	9.640779085	SLC39A14	138.1261609	110.7369203
KIF9	1.239092668	1.428100871	PXDN	55.18160608	48.44586385
DEPDC7	1.949819792	3.095065574	PPARG	33.58813425	33.77276575
DEPDC1	10.58961054	13.40833362	PPARA	0.95301629	0.642625378
DEPDC5	2.289983573	2.184918005	PPARD	8.560822775	6.923092549
EEF1E1	10.30980306	20.10508048	CENPA	20.39403482	24.41469453

DEPDC4	0.411218604	0.703157174	CENPB	103.6549926	104.6559156
HSD17B4	38.60251216	42.93769573	CENPC	3.155957469	3.456086101
HSD17B6	1.150079003	1.264125428	NRAS	40.45730093	43.84013488
HSD17B7	4.033111818	3.836278752	EXOSC10	37.25310523	45.04165052
HSD17B8	0.319291822	0.398244552	PRR14L	1.833229609	1.968179332
ARNTL2	5.80615834	5.390586108	CENPT	12.2102121	12.40269778
OS9	84.03247581	72.54974604	CENPU	8.330712117	9.482642032
HSD17B1	8.226847003	8.064188972	CENPV	8.892441206	14.85481008
HSD17B2	0.1	0.1	CENPW	6.155850237	8.569991655
PGGT1B	3.329536625	3.178499749	CRBN	11.84969059	14.04431411
TCEB3	17.50467624	18.70336596	WNT7B	0.591108137	0.355887196
CHRNA10	0.340391513	0.424216362	WNT7A	0.1	0.1
TCEB2	78.02691546	95.38329756	CENPE	5.619672368	7.448194089
TCEB1	48.19270338	56.82834899	CENPF	14.48549832	17.58066184
MON2	4.273192374	3.693419751	ERCC6-PGBD3	7.523678298	5.61762806
BOP1	70.79139206	96.01647857	CENPH	22.16713709	29.68987482
TCEA3	0.514504869	0.534080668	ETNK2	10.96796829	9.764380459
TCEA2	8.725307982	8.430167836	CENPI	11.78154915	12.93206261
TCAP	0.369736641	0.177038767	ETNK1	1.621738574	1.907432967
TCEA1	44.23312717	46.78728281	CENPJ	6.147080978	6.913358886
LOXL3	1.345934694	1.469415458	CENPK	10.39421606	12.67901533
NR3C1	26.43215288	21.58977154	CENPL	7.269043083	8.562019958
LOXL1	42.61159132	35.1359977	CENPM	9.837888306	11.42205072
LOXL2	773.6831487	612.2413659	CENPN	6.800864537	8.279247666
EEF1B2	115.6096861	148.2761557	CENPO	8.891754565	9.362566938
MORC3	5.722173654	5.583411164	CENPP	2.261465377	3.371416355
MORC4	5.6284614	5.469656293	CRAT	34.19031339	28.91521429
BORA	6.983458584	7.741349327	CENPQ	4.194538878	5.843479056
EEF1A1	1241.339081	1415.223428	CRB3	0.1	0.1
EEF1A2	0.643585858	1.171978893	CRCP	8.998321287	9.941050582
ODF3B	1.983095327	1.207288543	NRD1	83.05945347	76.19555848
TCF7	25.63823483	21.06340913	APOA1BP	97.56078098	108.7352788
ODF2L	9.051787543	11.10941271	UPK3BL	1.454914079	1.205638336
SHARPIN	63.58011212	58.21283192	BOD1L1	3.066570357	2.867808766
VILL	0.563691453	0.532956282	CREM	6.62740805	7.179874016
MORC2	9.903224371	10.10843902	NREP	12.6594016	14.44500958
QSER1	2.414248745	2.865914752	NRF1	4.367951933	5.207015513
AMOTL2	47.48686766	38.20892272	SLC9A3R2	0.694375819	0.726488233
TCF4	3.130283319	3.01161602	SLC9A3R1	11.49011132	11.87592577
TCF3	34.80466119	39.28610462	HNRNPDL	42.18726538	47.68014955
AMOTL1	8.984655547	8.846951953	G3BP1	30.97975892	34.1320783
GALK2	4.379223681	4.023833763	G3BP2	27.51808326	27.91647168
GALK1	16.5518739	15.49912115	YRDC	10.51289212	12.84859415
TCHH	0.107426916	0.105302954	TBXAS1	0.779818314	0.882907686
TCHP	2.963326637	3.366448589	SNAP25	0.542766565	0.837668077
RB1CC1	15.35001864	16.21476716	RMND1	7.362285349	7.13733557
CHI3L2	31.16686363	28.29156629	SNAP23	8.580281977	9.441729349
CHI3L1	0.184841498	0.241349572	NRGN	1.976729218	2.719128318
VIMP	22.39102075	19.86435812	ALAD	13.09563852	12.46099999

SGK494	0.285256719	0.355105065	EXO1	13.3204145	18.28278452
GALNS	10.83626771	8.598834648	PPP6R1	78.26870128	73.37380951
DHRS4L1	1.586393828	2.429710367	PPP6R2	13.12419969	11.35639963
DHRS4L2	4.684906349	4.292229574	PPP6R3	14.06096272	16.34530569
ATG10	2.817451411	2.395399685	EXO5	5.39589021	4.96892303
FNDC3B	15.25955295	13.09749971	SNAP29	18.25003553	18.15968907
TRIM39- RPP21	2.61965351	2.68025789	ACTR3	40.82644828	41.63739934
FNDC3A	10.15535065	7.953718229	ACTR2	52.28897982	57.57992806
ATG14	3.24358349	2.915496484	ACTR6	4.631247282	5.713032042
ATG13	13.84515187	12.03378	ACTR5	4.584700796	5.382065615
ATG12	10.49480953	12.17206591	NRG1	45.66223794	38.21943971
PRKRIP1	4.006469245	3.756692218	NRG2	0.36337783	0.466710388
RNPC3	3.458800101	3.815313941	ACTR8	8.088099353	8.461264241
FLRT2	4.967204627	3.731983467	IMPACT	3.416921116	3.672250108
FLRT3	0.1	0.108177726	LRTOMT	1.537816021	1.484978006
FLRT1	1.479348411	1.228135394	IMPAD1	27.43370091	27.86675344
STARD13	7.584717909	6.949893353	SNAP47	24.28686406	22.74515003
ICMT	43.48444127	45.57598399	BAHD1	10.94078137	10.16808513
STARD10	7.913597493	6.537367872	IGF2BP1	0.1	0.1
NR1D2	5.306984208	4.459869664	IGF2BP3	2.423380023	3.141382704
NR1D1	7.962895975	6.810368079	IGF2BP2	22.24757517	19.36956548
GNPTG	16.91635713	13.80547505	WHAMM	3.510397788	3.064453342
TCN2	6.14259544	3.77003092	HNRNPA1	133.769961	172.409628
TCN1	0.1	0.1	HNRNPA0	64.90339605	77.85147268
ATG2A	3.735692693	3.085926133	HNRNPA3	29.09002904	33.18968233
FARSA	68.78895229	87.52052007	MYO10	25.7983832	20.32167537
PAM	59.37973549	52.21806787	EXOG	2.048585723	2.257734396
FARSB	23.86198795	32.4600404	HNRNPAB	173.2327799	214.5353285
ATG2B	2.248449061	2.142034015	MYO19	15.35131785	16.73801046
VSIG10	1.387619098	1.330787844	MYO1D	0.1	0.107158272
FARS2	7.233206424	9.171733904	MYO1E	28.20045588	25.36903962
AIFM1	54.21678953	60.37239061	PINK1	7.834099881	6.486890266
AIFM2	7.389163785	5.761140438	MYO1B	13.94687618	24.62801685
PBK	59.48691086	84.01306651	MYO1C	130.9538525	110.6858593
HADHB	25.19491451	25.72780569	MYO1F	0.423683969	0.393339919
HADHA	55.2159086	64.45599657	CPNE8	0.1	0.11071776
ZNF664- FAM101A	0.401416443	0.299844244	CPNE7	12.61366852	11.29665836
HEATR5A	3.358960636	3.032345152	CRKL	19.09514296	19.0267323
HEATR5B	3.542001566	3.649942287	CCDC91	6.395296049	6.648563599
TCP1	147.2070403	180.7620478	OPHN1	0.382831278	0.361053088
NR1I3	2.808515068	2.569837698	CCDC96	1.01692918	0.66855898
PDF	9.521216032	10.25444791	CPNE1	58.38622417	59.84413981
ICT1	23.97749249	29.09168619	CCDC97	18.10208162	16.19993341
FARP2	1.256271466	1.29711865	CPNE3	19.11854559	22.2268798
FARP1	14.98468351	13.00746724	CPNE2	19.59913881	17.17193528
NR1H2	48.27300229	43.69008236	CCDC92	22.00716499	17.3621948
NR1H3	0.880210788	0.599455371	CCDC93	4.199841559	3.887408384
DHRS1	6.593909622	4.561325391	SCAPER	1.912005968	1.698230385

DHRS2	0.264454818	0.287878018	CCDC94	16.09072949	16.82822097
DHRS3	79.10869067	65.98727961	ALG8	28.15018329	34.75321148
DHRS4	7.378777836	7.181873142	ALG9	3.999373237	3.841121033
DHRS7	11.90271097	12.81010536	ALG6	4.368912406	5.172800536
MPC1	3.561721543	4.371008844	CCDC78	0.339284285	0.308820792
MPC2	24.12094997	26.40088036	KCNK12	0.1	0.152061988
MB21D2	8.599154873	6.664169549	ACTN1	181.6622444	149.5823468
MB21D1	4.626276629	4.731624522	KCNK13	0.1	0.1
PGD	181.4869314	188.1944245	ALG5	34.976681	39.63859228
PGF	109.3308901	127.8040917	ALG2	10.49373156	8.83679926
PGP	12.4583076	14.72002213	MYO7B	0.252126726	0.154310639
STAMBP	4.405397227	4.009014083	ALG3	84.65830511	91.81913691
TCTA	43.48548655	35.60466301	ACTN4	402.272957	352.9490033
PHB	73.06587442	92.92088587	MYO7A	0.113918627	0.109938156
DVL1	39.77251311	44.45494171	ALG1	9.066679478	8.388198289
DVL2	30.08911579	27.08428401	CCDC80	21.05912087	13.57733712
DVL3	17.94734703	16.68318808	C8orf44-SGK3	1.147450686	1.026744454
PI3	0.287549736	0.1	CCDC86	38.92810081	52.87864736
MPDZ	3.3535948	3.565725393	CCDC87	0.402974857	0.290879071
PIR	5.318394424	4.751603692	CCDC82	5.854845553	5.297311093
RSL24D1	16.81751886	24.80426138	CCDC84	1.479237442	2.574627832
TCIRG1	20.81854878	14.83120912	SLC45A4	3.41408028	3.171826401
ADAMTS4	9.394145812	6.684813894	SLC45A3	1.529596989	2.121696473
ADAMTS2	8.238059082	7.091541833	NRN1	2.095211901	2.624639409
ADAMTS3	1.099406221	1.316933311	SLC45A1	5.214051275	3.796057374
ADAMTS1	1.607938592	1.240500057	EPB41	1.871066261	1.615210105
RNPEP	41.09263629	35.44168588	EPAS1	103.4393965	78.01498203
NPIPA1	6.265302147	5.105477845	CEND1	9.410830321	12.02151513
NPIPA7	0.454750753	0.634741394	MYO5A	3.750400566	3.789693748
ADAMTS9	0.1	0.1	EXT1	65.33646823	58.3388336
ADAMTS6	4.567466718	4.055418105	EXT2	25.4375906	21.0464601
ADAMTS7	0.128388676	0.133783394	MYO5B	0.105457067	0.1
HMGCS1	13.22603824	12.59630993	MYO5C	0.219171388	0.19572688
TRPC3	0.495345118	0.340463873	NRP1	53.45608191	45.21861845
TRPC4	2.990363715	2.335753858	CSRNP1	8.818297736	5.731611176
TRPC1	2.204954641	2.723538485	NRP2	23.14353399	17.57802276
BPGM	21.11732573	18.75276447	CSRNP2	12.90762538	10.97884404
PKM	1780.740086	1543.520549	ZBED6CL	0.1	0.1
POLR1A	9.148617777	9.981344854	PYROXD1	2.039044269	2.221721575
POLR1B	7.622741234	8.288483267	OTUD7B	8.464972602	7.319741764
NOS1AP	0.950434647	0.867373468	CROT	1.586557624	1.239640045
POLR1C	22.80172783	30.89515682	THTPA	10.32570384	8.8280391
POLR1D	22.13226161	30.21963632	OTUD6B	10.08830543	13.41419461
POLR1E	41.00964471	62.39626786	SREBF1	57.47390577	55.52985479
NUFIP1	4.480176493	5.440198285	SREBF2	38.04436511	36.49536491
NUFIP2	5.552974109	5.926647977	PDIK1L	1.042640544	1.505018315
BPHL	8.326557959	7.019952909	UFC1	73.25776972	77.32992173
POLR2A	33.59084547	31.5364803	CAB39	13.43297769	13.91994751
POLR2B	37.28924123	44.21117893	C1orf35	10.75164547	14.47107318
POLR2C	31.66241661	30.49089668	RIBC1	0.571569836	0.156118254

POLR2D	7.786554529	9.257871563	BCL2L2- PABPN1	22.44148813	23.69746252
POLR2E	81.30785794	96.35586666	RIBC2	2.651343851	3.188980386
POLR2F	22.83795186	30.18827466	C1orf21	2.186518109	1.996451841
POLR2G	61.92015755	66.88722631	C1orf27	3.553639819	3.803703964
POLR2H	29.26902459	35.14105639	MYO9B	30.96545106	24.43529123
POLR2I	38.05064614	46.0423159	SRCRB4D	1.210861233	0.827077384
POLR2J	55.24173411	68.40338275	MYO9A	1.287810051	1.106590111
POLR2K	58.41811731	79.13998951	C1orf50	10.23433777	11.42925272
POLR2L	167.1624968	170.6230676	OTUD4	7.776603056	6.711980021
POLR2M	3.549748134	3.872288086	C1orf51	8.27144081	7.425139589
NPIPA8	1.321919261	1.338348491	OTUD5	31.98054827	28.93209013
PML	30.63065224	18.15028622	C1orf52	6.320058523	7.779181555
POLR3A	11.61775862	12.53367379	CRTC2	26.40542628	24.72786686
POLR3B	3.698777904	5.473575676	C1orf53	3.294661249	3.738812787
POLR3C	30.24180656	28.03042975	CRTC3	5.383180709	4.486874347
POLR3D	58.86500071	57.11617559	C1orf54	0.1	0.275801735
POLR3E	6.616536485	8.570712833	UBXN2B	8.167414163	8.787998273
POLR3F	6.944155853	7.873048084	UBXN2A	5.443090195	6.478005365
POLR3G	3.263846524	6.637041935	CRTC1	2.968019581	2.275144184
NPIPB3	0.443858425	0.355751284	C1orf56	4.306825606	3.822351429
POLR3H	30.27272739	30.6301439	BUB1B	21.1193034	27.35063143
POLR3K	11.00724626	16.57629226	PEBP1	67.06871519	85.93157163
NPIPB5	1.624375955	1.645185334	CAAP1	5.034408928	6.446863057
KLHDC7B	2.30588839	0.546469402	COX6A1	205.3620384	238.4235327
PNN	20.71627214	28.4915415	ACTG2	0.1	0.155738792
PNP	17.41709233	24.49236371	ACTG1	2224.805459	2073.017485
SEPP1	0.41065621	0.253563705	AMMECR1L	6.031058694	6.086445706
POR	53.40255069	53.35885083	NRTN	0.288229264	0.301598729
ZW10	14.10992714	13.76494724	FAM150B	0.951053683	0.443464502
SUCLG2	12.370565	12.8954388	C1orf43	163.2620453	162.3332315
SUCLG1	31.65585458	40.68208708	RPL36A- HNRNPH2	19.63790033	21.91845652
PPL	0.141640972	0.147571871	COX6B2	0.162478986	0.122305572
TRPM2	0.117673508	0.106309605	MUC3A	0.1	0.120862861
TRPM7	4.474213632	3.971997738	COX6B1	243.5665777	291.8236119
TRPM4	9.48572875	6.095199709	GPRIN2	0.1	0.113135328
KLHDC8B	11.14253539	9.488142897	PRR15L	0.1	0.123054174
RNPS1	54.39523252	62.66896891	GPRIN1	12.45818162	11.52443901
SPPL3	6.856559878	5.993381693	UBIAD1	8.232493276	9.266949112
XPO1	30.33174972	35.91862835	C1orf74	3.860726648	4.23477573
XPO4	6.180690689	7.293678964	DIABLO	16.66448108	17.77321565
XPO6	34.11651923	33.88247343	LLPH	26.99343015	30.61048508
PRX	1.251118015	0.868023056	C1orf61	0.266644032	0.308227076
XPO5	23.17977126	27.74773981	EEFSEC	10.22768576	12.08529918
NHP2L1	49.62032868	57.94505619	C1orf63	6.111295454	6.206753604
MPND	3.608481531	3.846189025	CRTAP	42.90454034	42.87736499
PTGER4	11.36929047	6.550215078	RARRES3	10.4902554	4.512508656
PTGER2	0.28853286	0.399146501	RARRES2	0.1	0.1
PTN	1.782108594	1.993973615	RARRES1	0.570707803	0.365337383

PTS	12.65720706	11.88285278	HOOK3	1.880878262	2.029204903
SEPN1	35.66959545	33.02406947	FAM151B	1.379738201	1.644683753
TWISTNB	9.070004658	12.86184186	UBXN11	5.931551868	6.165586806
MPP1	6.295373039	6.701647235	HOOK2	2.906563239	2.757704626
MPP2	1.1091709	0.94066099	HOOK1	0.1	0.1
MPP3	0.204775685	0.2371549	ALPP	0.118120431	0.138814963
SLC31A2	3.890779755	2.715321445	NABP2	62.06640735	72.79749052
SLC31A1	9.907461664	8.531198088	ALPL	0.140024096	0.14286691
PTGES2	33.5752544	48.01528715	NABP1	6.607055188	6.032063012
PTGES3	73.8287432	84.4106601	DEGS1	68.68877411	65.41017436
XPO7	50.19244041	59.30726256	PYROXD2	0.118088885	0.112915796
MPP5	5.482256049	6.019985508	DEGS2	0.210927994	0.152803084
MPP6	2.012844827	2.680381543	MUC20	0.140101333	0.114316544
MPP7	0.109977199	0.107123904	DNAL4	5.585104563	5.288693049
KBTBD3	0.329978176	0.417092552	DNAL1	1.100228787	1.121496291
KBTBD4	15.31619655	15.10078177	PINX1	13.73307396	20.46635111
KBTBD6	2.147047256	2.782018901	CABIN1	14.92350464	12.63554181
XPOT	46.28768546	50.14142073	UFL1	4.645427943	4.650782156
KBTBD2	18.4439819	17.46726864	C1orf85	97.85596851	79.97971171
KBTBD7	3.590042337	3.596174753	MYOCD	1.137939324	0.789402554
KBTBD8	0.477101498	0.81274017	C1orf86	21.73183764	21.81087522
PVR	17.32321685	17.77047184	DCAKD	4.24634605	4.41894517
C1RL	4.41143617	2.479790532	ACTA2	76.22428299	46.05625366
XPR1	6.624483584	6.229968139	ALS2	5.439311641	4.550442024
IDI1	23.52900726	25.82396558	CRY2	1.743558477	1.264707406
PXK	15.31095947	16.26007111	CRY1	3.694807633	3.229644369
IDI2	2.278971882	2.911404795	OTUB1	52.42502717	57.26830726
PXN	39.75156772	43.76469695	OTUB2	1.776713045	1.421713125
KLHDC10	8.016154506	7.371332357	DNAH1	0.448719479	0.408410687
BPTF	2.020725761	2.050774115	DNAH2	0.106943965	0.114874357
MPST	47.82071696	58.6773673	DNAH5	0.273471162	0.292938256
IDH1	31.52418705	33.13793418	ASAP3	7.561154577	7.978804489
IDH2	26.09062732	22.74606337	ASB13	7.666977309	9.36033137
SREK1IP1	2.759699273	3.557288825	ASB14	1.081756415	0.917824136
TRPV1	1.264668573	1.023994176	ASAP1	29.00183693	25.0729592
PYY	0.1	0.170454257	ASAP2	8.860019417	7.023119697
TRPV6	0.1	0.1	ASB12	0.461609817	0.444261403
TRPV4	0.11443492	0.15153399	CRYZ	13.69072452	17.15848857
SEPT8	9.033610474	8.169518194	FAM156A	0.491031117	0.525452802
SEPT9	93.79180263	89.45224771	CRYM	0.444961999	0.1
SEPT6	4.402543484	3.709119426	CDK11A	10.12256371	10.44627999
SEPT7	37.46909096	43.21450671	EYA1	4.243132352	4.876109699
TRPS1	9.798401512	8.813444445	EYA2	0.1	0.1
TRPT1	14.81707563	13.48052075	EYA3	3.789868328	4.482848708
SEPT1	0.68738881	0.705809247	EYA4	0.620151552	0.517008016
SEPT4	0.1	0.1	MUC5B	0.102899714	0.1
SEPT5	3.881191311	3.716149415	CDK11B	20.42350085	19.68840703
SEPT2	83.92348321	88.08640438	FAM155B	0.1	0.1
SEPT3	1.762530127	1.462350175	FAM155A	5.20223736	4.396732905
PFDN1	55.22956507	65.37900845	UFM1	17.71566288	17.27821186

PFDN2	104.1643959	135.1296984	OTUD1	1.218128994	0.71962629
PFDN4	6.584260425	8.643232923	OTUD3	0.809695111	0.862949849
PFDN5	117.3117603	132.4403221	NCKAP1	31.6851333	30.89222608
PFDN6	10.60512626	14.65191968	XYLT2	6.151062539	6.282361029
ATF6B	25.19191073	25.31155484	FGFRL1	61.64973997	53.08177638
SEPW1	93.50554936	107.3597294	CEP95	2.203577639	3.061795343
NR2C2	3.852242385	4.162820291	CEP97	1.985826802	2.519083812
NR2C1	3.318220698	3.264128727	COL23A1	2.666307539	1.861914163
EHMT2	7.119630082	6.949522291	LRPAP1	10.29696667	10.62691314
EHMT1	11.58005811	13.6422009	NAA60	17.47858768	13.91810381
TMEM97	18.57021646	21.78159791	CEP70	2.229281922	3.037812236
TMEM91	1.831709233	1.267779305	ALX3	0.83814399	1.204291821
TMEM92	0.118775308	0.140217744	CEP72	4.744650591	4.383639223
PSMD8	179.7184177	185.0164671	MCMBP	22.24395985	28.00261499
RABGEF1	9.379881447	8.896452743	ALX1	7.577298391	6.678774356
PSMD9	17.96929552	20.36615797	CEP76	2.391708859	2.680354281
PSMD6	52.01950249	57.22728467	CEP78	5.840049754	7.488231094
PSMD7	48.38046818	57.38494285	NAA50	19.30859083	23.40026447
PSMD4	164.86307	164.6692183	AFAP1L2	0.637383909	0.804940853
TDO2	8.794136194	11.20864636	AFAP1L1	2.479918456	2.257149469
PSMD5	14.25224442	16.23809413	SNAPIN	34.76710688	34.58488072
PSMD2	160.4359019	159.2776131	NFATC3	3.724319975	4.16329819
PSMD3	85.33145029	92.52163305	NFATC2	0.224268835	0.169012402
PSMD1	42.66380931	43.66278204	NFATC1	0.316850888	0.328566717
TMEM8A	20.7185183	14.69010147	NFATC4	16.90669381	14.16975215
TMEM8B	4.247754476	2.931189183	CEP85	10.87489703	11.70182986
TMEM80	4.734003468	5.794674783	CEP89	16.09421272	13.22891409
TMEM81	1.231071346	1.130393505	MESP2	0.325315328	0.237896529
RUFY1	25.34241572	25.15985257	CEP57	9.274511669	10.59965225
PSME3	38.82882125	48.8230493	MESP1	2.067173999	2.206897562
RUFY3	1.632988501	1.802683038	PYGB	132.9814101	110.5498272
TMEM79	2.807254326	3.132856354	NRSN2	68.66360392	53.23030695
RUFY2	2.589425891	3.373487778	CHURC1- FNTB	4.857114167	4.919421728
PSME4	7.535201776	7.80726794	PYGL	31.22330543	48.02524562
PSME1	105.4541984	84.3078404	CSAD	0.868399118	0.876140562
PSME2	102.9088429	90.10216109	PEA15	117.7933296	103.3272739
IDNK	0.996263558	0.534250867	CEP55	48.64431302	59.81907648
IDO1	11.6417389	4.806406376	CEP68	1.402769996	1.536433934
TTYH3	54.93865612	50.97177953	KAT2B	6.335445557	6.851384308
TTYH2	0.61242919	0.627303204	NSA2	52.81170818	75.1274552
TTYH1	0.1	0.109725791	KAT2A	15.78621122	18.34612819
AGAP2	3.21041724	2.303499007	C18orf54	3.156435635	3.152970022
AGAP1	3.628856325	3.771809629	CEP63	2.863183215	2.826611158
AGAP4	0.615119107	0.846426791	C18orf56	1.82350208	2.473323428
AGAP3	19.30874156	21.9649565	CLDND2	0.793394867	1.318699505
HESX1	0.332028928	0.298807501	CLDND1	11.50800823	12.62356233
PSMF1	28.51502862	28.7212362	ASCL2	0.1	0.1
PUSL1	29.25474648	35.42250451	EPCAM	0.190718179	0.186365928
ABTB2	5.726377335	4.003852691	NSD1	5.214353699	4.828135713

ABTB1	3.151202965	2.523889505	CLCF1	16.26073925	13.04872359
TDP2	22.90458652	24.1678512	C18orf32	7.768549051	6.069176166
TMEM99	2.104873207	3.768260524	CEP41	3.287882861	3.462838377
TDP1	5.310918359	6.8179151	CEP44	1.474675466	1.948573662
PSMG3	28.30105316	31.98656185	CSF3	0.720225592	0.500676042
PSMG4	24.74639473	32.21136773	CSF2	0.298539912	0.19450743
PSMG1	23.842645	33.71252075	CSF1	112.4565997	64.78262373
PSMG2	23.62597863	27.35959187	CEP19	3.910079815	4.001046996
TMEM9B	15.9289047	15.6638666	HMGN4	39.72966888	48.9309186
TMEM51	2.65117878	2.271186314	HMGN5	2.348126755	3.310407609
TDRP	4.712951045	5.536641632	LAMP1	426.8367885	359.4314798
TMEM52	1.347264479	0.835688056	PAPOLG	1.08472499	1.089378654
EFCAB5	0.363198208	0.37466452	LAMP3	0.488740474	0.177718995
TMEM53	4.315395635	3.308322888	LAMP2	32.01360321	31.4453587
EFCAB7	1.229648448	1.668368949	PAPOLA	26.39261112	31.36343892
EFCAB8	0.1	0.1	C18orf21	8.456094916	10.55627592
TMEM47	16.02882025	11.29046996	CLCC1	10.17865518	10.34980476
TRMT112	53.61652348	63.21862422	CCDC11	0.242410299	0.445724136
TMEM43	80.09439597	76.01983741	HMGN2	220.8071772	232.4424842
TMEM44	7.15202073	5.55239551	HMGN3	12.85576023	17.50325721
FASTK	23.26655393	21.38799196	C18orf25	3.149809786	3.017061349
EFCAB1	1.168114618	1.333226872	HMGN1	91.53265388	108.5378539
EFCAB2	1.843578665	1.809610589	MAGI1	1.731942695	1.864367054
TMEM40	0.268282711	0.185826391	MAGI3	2.855482493	2.375684201
TMEM42	9.390361967	9.097146164	MAGI2	0.283781226	0.246969952
PSMA5	35.77067554	34.24679908	VASH2	0.36352965	0.373694563
MZT2B	39.46091321	41.71650529	FRMD4A	19.79933783	22.18531264
TMEM37	0.622385892	0.734088311	FRMD4B	0.169123539	0.170507824
MZT2A	16.57417015	20.28007609	VASH1	1.538783293	1.600991135
PSMA6	87.61150934	83.38003974	GOLGA8B	0.729567553	0.799889928
MBLAC1	1.552698824	1.186646679	EBNA1BP2	104.8661058	133.5304781
PSMA3	72.50904436	80.04945034	KAT6B	4.770052431	4.407794095
MBLAC2	2.381971979	3.592745086	KAT6A	14.06557753	12.10916139
PSMA4	67.46632801	70.0012197	TSSK6	1.216844373	1.360481375
PSMA1	50.53264685	64.83196776	TSSK3	1.243953707	0.973135271
PSMA2	78.98372616	85.11800706	TSSK4	0.347092875	0.342589672
TMEM33	5.101917687	6.257525835	TSSK2	0.386075314	0.590231271
IDUA	1.982912839	1.30693539	GOLGA8A	0.649285644	0.873031964
ZNF518B	4.30194152	4.811643656	CCDC23	8.823648013	7.769846389
ZNF518A	0.616897146	0.504647461	CCDC24	5.248964567	4.613165809
TMEM74	0.592943928	0.726389104	CCDC25	24.46286533	29.0721743
TMEM70	32.75440688	40.75370737	KRBOX4	3.23463055	3.442354474
PSMA7	333.0009638	360.9414091	GOLGA7B	0.1	0.1
TMEM69	36.47648898	52.42521741	CLCA2	0.667914581	0.708252166
PSMB6	137.604068	158.6860682	CCDC33	0.898738403	0.931707762
PSMB7	229.3510045	237.2468417	TRAPPC2	2.007302127	2.162228119
PSMB4	346.6852219	370.8010509	TRAPPC3	61.22111084	64.83622454
BTAF1	4.884049057	4.953442303	CCDC17	0.149461705	0.276582829
PSMB5	133.5759785	140.998653	CCDC18	4.121911371	4.727413869
PSMB2	55.05183555	63.11473128	CCDC19	0.331537725	0.347983284

TMEM65	7.083930664	7.334525096	TRAPPC1	227.3154751	211.7043277
PSMB3	135.0688955	153.3231387	CCDC12	22.47601817	26.53133002
TMEM66	116.2731804	109.4890608	CCDC13	0.191786708	0.113107479
TMEM67	6.17893698	6.104451359	CCDC14	4.455122574	5.557369564
PSMB1	107.4584186	117.3693432	TRAPPC4	46.20675832	47.48779729
TMEM68	4.250487971	5.182373212	TRAPPC5	63.35831961	60.06162862
CLPTM1	117.7259053	96.79015265	CCDC15	4.276920034	4.654588089
TRMT10A	0.785409955	1.128728895	TRAPPC8	5.266884279	5.681325611
TRMT10B	2.733176482	3.197601745	TRAPPC9	6.932756963	5.770010668
TRMT10C	15.38972542	22.85913068	CNIH1	20.81876612	27.45832527
TMEM62	4.452725265	2.779246383	CCDC22	9.038576763	8.353811878
TMEM64	11.39797432	11.88484507	CNIH2	19.94824475	20.79435754
PLXDC2	1.624988561	1.249362618	CNIH3	0.450430199	0.42840535
PLXDC1	1.263336337	0.960309356	CNIH4	33.03389383	33.1561673
PSMB8	11.33040239	5.189610166	CCDC47	26.35674367	28.49293152
TMEM60	19.55941303	18.28591423	AMD1	27.59290709	33.20741
PSMB9	7.993341568	2.84719154	IDH3B	57.33046823	74.60045155
SPSB3	11.92234338	10.47766409	EMILIN3	0.249324287	0.274469556
TMEM59	96.56804328	86.77483904	CCDC53	17.2274199	17.28601565
SPSB2	9.513989787	10.14115013	EMILIN2	6.94217367	5.392557509
SPSB1	12.4963278	9.665012702	EMILIN1	0.311076798	0.1847759
PSMC5	60.18930938	59.7722916	CCDC50	10.03860612	9.40566578
PSMC6	34.06693967	40.03038478	CCDC51	11.75202123	15.10773885
TMEM54	12.5042256	7.845654082	IDH3A	16.45535943	17.80661902
PSMC3	106.5672372	99.90208887	CCDC34	3.898324496	5.366671707
PSMC4	79.81833881	80.54821515	CCDC41	2.606552134	3.583570459
TMEM56	3.199409224	2.584906764	CCDC43	6.58783487	7.265524149
PSMC1	19.98299188	22.52957463	CCDC40	0.510968687	0.52289766
TMEM57	14.31838166	14.76426826	TSSC4	12.65614317	11.62492157
PSMC2	51.68425983	54.45061861	TSSC1	14.28773979	14.51952189
NOMO3	6.058267401	6.090415622	CCDC68	0.640903026	0.503769911
SESN3	0.1	0.103928218	CCDC69	0.283411393	0.209132587
SESN1	1.417074628	1.667359134	THSD1	1.108612008	0.798008503
SESN2	17.40236691	10.81398961	NSL1	1.074577662	1.219559176
SCMH1	16.46163092	15.98643681	LMF2	91.86157261	68.31813196
NOMO1	27.64751018	30.9317416	THSD4	5.235478883	3.397709907
NOMO2	22.03851245	20.13416405	TMA16	9.092608945	12.80639582
UBALD1	19.40249145	18.79146944	LMF1	4.612074519	3.296236083
UBALD2	54.76490567	53.90871808	ASCC2	27.13169723	26.46726304
SQSTM1	534.6494219	419.253901	ASCC3	8.815887528	9.125610215
TRABD2A	20.03876858	18.76916515	CCDC77	7.556071833	9.228703622
TMEM25	1.434716602	1.478202222	CCDC71	28.28328105	27.08129747
QKI	11.26053897	10.73266345	JAZF1	0.440930255	0.459349735
TMEM17	0.612765851	0.601012115	CCDC73	0.898853961	1.111993621
TMEM11	39.46355643	45.47882296	ASCC1	10.18218852	10.45392719
TMEM18	8.734086993	8.395540929	CCDC57	1.274617223	1.157489132
TMEM19	7.593294297	9.335722851	IDH3G	95.34903306	94.20249585
ZNF512B	13.34418637	13.6829926	CCDC58	8.124994004	14.22393048
USP27X	1.370390619	1.213237295	AMFR	20.88051079	17.44101594
GANAB	206.4178296	181.0644945	CCDC59	13.27255631	18.2915113

ERRF1	192.5803944	165.6307901	FRAS1	0.772612094	0.527657773
KEAP1	47.16129906	48.18302533	ZGLP1	0.441094243	0.512157402
KIF21A	0.131291237	0.133513778	CCDC63	0.1	0.1
KIF21B	0.162717839	0.152245304	CCDC64	0.150585469	0.136118954
SCN1B	1.929775639	1.227170795	MAGIX	0.66898265	0.472408726
ST6GAL1	0.228301157	0.237414075	CCDC66	1.649308387	2.52430147
RSAD2	61.23742248	10.57762325	CCDC61	4.162586027	3.890145345
SFMBT1	3.032176987	2.460463208	FRAT1	0.785890115	0.897573547
RSAD1	7.999754002	9.273347217	FRAT2	4.458723919	5.163648081
KIF20A	70.74535503	83.65004067	MAGOH	51.77640249	71.78594812
KIF20B	6.374425545	8.111189687	UHMK1	11.22676442	11.13046207
TGOLN2	26.544688	22.9547182	CIRH1A	43.82296913	58.35791848
GS1-259H13.2	0.14634369	0.199270739	NSMF	18.25233712	23.04369226
SYMPK	18.70719089	17.77021526	C2CD4A	1.215934542	0.62760933
PTGDR2	1.02833897	1.132518028	C2CD4C	0.249667571	0.242487194
TECR	98.90453144	88.06864175	HNRNPLL	10.72040411	9.822882504
N4BP2L1	0.338699664	0.282609942	UGCG	28.63210385	23.60590364
N4BP2L2	12.03710529	12.5298307	ZNHIT2	15.45288509	15.01208378
LARP1B	2.292242558	2.082715184	ZNHIT1	57.51293351	62.21478962
SCML2	1.721157047	1.964428076	ZNHIT3	5.989825006	7.180960016
SCML1	3.515721454	4.244461481	ZNHIT6	5.901239901	6.911870438
SUPT3H	0.676084242	0.741682183	SNAP91	2.216703933	1.266379893
NR5A2	0.678476809	0.520289439	PM20D2	1.213556658	1.635093889
ZNF780A	1.701321714	1.836879781	CABYR	4.443899004	4.98740703
RAMP2	1.489779384	0.714298293	C2CD2L	7.069073741	6.322571507
STAMBPL1	2.6781256	2.846633809	SLC44A3	1.530448177	0.811861345
CAMK2N1	5.867453548	5.290974339	SLC44A1	0.208633029	0.177565978
CAMK2N2	11.06324742	8.718938611	SLC44A2	16.5680372	13.32707551
TEFM	2.864275297	3.66087717	MAGT1	25.62355129	24.34678341
KIF26A	0.1	0.1	CLDN22	0.253474969	0.401355855
KIF26B	0.984034355	0.619226698	CLDN23	0.286300686	0.309034748
RAMP1	143.3370922	117.170819	USMG5	108.3194222	135.2970756
DCLRE1B	12.00435808	12.82051791	CLDN11	0.551586616	0.6374019
DCLRE1A	2.71739258	2.656544495	UGDH	44.55533372	40.02702268
DCLRE1C	2.670245373	2.770384352	C2CD4D	0.1	0.1
OSTF1	6.229603027	4.972118888	CLDN15	1.513971875	1.492554338
SLC30A7	3.755690053	3.337949494	HNRNPH1	98.66837281	112.6357898
SLC30A6	4.871355952	4.836697151	CLDN12	5.153184318	4.772243335
SLC30A9	14.48577219	15.94549938	HNRNPH2	22.51376164	23.06674754
SLC30A3	0.184991864	0.145514314	HNRNPH3	52.93109699	61.32033151
SLC30A5	19.2554339	20.30992502	CSTB	1103.180359	1058.072974
ATG9B	0.111350508	0.116208943	HAAO	0.1	0.1
ATG9A	28.90291887	30.29360308	SAA4	0.1	0.1
SLC30A4	1.008874685	0.679731545	CST6	0.1	0.1
LMTK3	0.181428334	0.209014987	NT5C	20.0847782	20.90016184
LMTK2	1.65633157	1.663212681	CST3	77.29420864	65.47888979
SLC30A1	16.00975677	11.25766049	AMN1	1.152915057	1.139724365
ATAD3B	26.32875901	28.10868434	NT5E	170.6146141	152.1423124
ATAD3A	40.74215546	42.3811811	LMNA	455.7321788	392.3417826

SUPT7L	7.889948607	8.067215839	NT5M	1.457171877	1.542300507
ATAD3C	0.530795767	0.628680782	LMLN	2.09700883	1.899227797
HNRNPUL1	115.1075877	130.1900619	IFNB1	1.027701375	0.497437495
HNRNPUL2	25.60629044	27.81792561	CT62	0.295122167	0.274151015
SCN8A	0.113486832	0.106419897	SAA1	0.1	0.154711116
SUPT6H	35.64961325	32.22253427	SAA2	0.125428917	0.1
CALHM2	0.742575765	0.391970573	CWC25	6.908521392	5.963643038
INHBB	0.148658705	0.157905348	CWC27	10.46167147	13.77432811
INHBA	7.432892888	4.005546691	AMOT	0.458051714	0.519660918
CALHM3	0.1	0.1	FAM162A	31.96510306	48.9686867
SUPT5H	68.22245266	64.79387531	RBMX2	23.25367776	28.67318952
COL5A1	37.30302346	29.29627321	CWC22	6.37294853	7.650634247
COL5A2	38.99973683	30.69064353	SACS	9.611599462	10.51530055
ATG4C	3.590118828	4.879754893	HADH	18.24333825	22.01347446
ATG4B	10.70257224	11.0624394	LMO1	0.1	0.1
ATG4A	4.500367453	5.261763832	CHRNB1	3.169751286	2.672389858
ATG4D	7.011646498	6.44505474	WNT5B	107.998806	82.88189761
ATAD2B	0.885109604	0.874789071	LMO4	53.41613939	47.86603082
PDAP1	45.2893034	49.84398037	LMO3	0.75057691	0.612911768
TEN1	5.779728375	6.685423684	WNT5A	3.220272585	3.102603705
CLUAP1	2.997330995	3.064309272	LMO2	0.326465898	0.294040974
RAN	132.8206445	173.0656006	HMHA1	3.790476031	4.733383795
RB1	5.815511402	5.315881287	LMO7	8.053850337	6.39939619
GABPB2	1.551776872	1.5512335	CT83	0.1	0.1
TRRAP	4.968511245	4.477445184	FAM161A	1.176710404	1.253186513
COL12A1	9.409862659	7.762945461	FAM161B	3.365013514	2.369387252
GABPB1	4.729995851	4.779309953	CHRNA5	0.788286308	0.888366215
ZXDA	0.669028207	0.727264916	KLHDC2	15.04242174	12.16478573
ZXDB	1.886343093	1.572721238	KLHDC3	61.41743092	66.14929539
ZXDC	4.804207012	4.760845386	KLHDC4	5.147298861	5.302230622
IER5	7.531117757	9.08052614	KLHDC1	0.872222623	0.458397741
NFRKB	8.135869769	8.109665457	CWC15	16.61496812	17.30547936
IER2	56.0806687	50.27664527	SAE1	80.22926344	78.78328938
IER3	26.0337423	23.89710419	KLHDC9	1.109516593	0.931707762
CCRN4L	7.536573922	6.120323341	WNT2B	2.455685434	1.887127844
TEP1	1.251342121	0.935954184	SNAPC5	11.88003478	12.33871215
CLPSL1	0.1	0.1	FAM166A	23.24990004	24.95891765
CLPSL2	0.1	0.1	SNAPC1	4.109793592	5.881997288
HPRT1	24.03797356	33.8386515	SNAPC2	32.27627477	29.08131306
C4orf51	0.1	0.143846532	SNAPC3	13.19272893	11.74960566
MEF2BNB	11.1704458	10.16027486	SNAPC4	4.827783574	6.028858359
POM121	7.773530472	8.408123854	SAFB	27.2609022	29.92313746
NOLC1	46.02718133	58.2519081	IGDCC4	0.124032973	0.122879979
TERT	0.125859272	0.155391985	PEAK1	1.816554829	1.334753057
CHST11	6.044494245	5.495632008	RBMS1	14.70425256	15.30530447
CHST12	22.59858452	21.06103878	HAGH	16.20166907	16.11269906
GALR2	0.214851755	0.1	RBMS2	3.381391051	2.748958838
CHST10	3.776999982	4.818003616	PAPPA2	0.711254575	0.697243258
CHST15	0.1	0.1	RBMS3	0.927669848	0.828008341
CHST14	8.750667595	7.03617029	FAM169A	0.404869866	0.296951001

SERF2	58.62662087	58.23474745	FAM168B	14.23620578	18.01580982
BRAP	8.11915241	7.77718233	UGP2	9.922820612	11.08014556
RDX	22.01441394	23.56267972	FAM168A	9.885757306	9.042207616
UPF3B	7.706842552	11.53376753	WNT11	0.296692009	0.240441708
BRAF	1.882534313	1.842705231	PCED1A	30.07583553	26.39181768
UPF3A	9.262751406	10.32537132	PCED1B	2.373286251	2.025522997
REL	0.480815688	0.543641648	CYHR1	46.9569462	41.18174041
TCF25	34.34202165	31.2254982	FAM167B	31.9446112	29.23987322
TCF24	0.354455234	0.205983332	ALDH16A1	7.55984209	7.229818804
TCF20	5.751099081	5.277597882	CLDN1	19.13776517	11.092854
MRC2	17.82169729	14.90795152	FAM134C	5.992084971	4.706337779
DSTYK	4.284215885	4.077222521	FAM134B	2.963331648	2.912560103
RFK	6.030160541	6.334889401	FAM134A	31.63782549	26.4614588
BRD3	5.475220557	5.820925522	PPP4R1	19.05554897	18.14303553
TCF19	16.96413542	16.93651147	PPP4R2	25.93350093	25.19311241
BRD2	20.86524553	20.48239638	PPP4R4	1.402811237	1.030231158
BRD1	3.207553471	3.379067029	DICER1	2.516338464	2.929797244
IFNGR1	14.85366112	14.67803715	FAM133B	1.467138868	1.887127844
IFNGR2	23.70145811	24.73480194	CLDN4	1.036314659	1.092689319
TCF12	8.12805211	9.546197468	CLDN3	0.222334247	0.1291163
TET2	2.761307747	2.466744345	CLDN9	0.1	0.1
MRAS	3.688702288	3.236312154	CLDN8	0.1	0.1
TET3	0.786214915	0.855240469	CLDN7	1.030933784	0.857023799
SF3B4	79.40672656	77.55473486	MRPL18	62.20756551	75.69312677
SF3B5	148.904811	169.1124966	MRPL19	1.965121864	3.289520102
SF3B2	76.50871153	78.67836597	MRPL16	31.92125595	35.09153577
SF3B3	23.15204296	23.94025268	IL20RB	0.988272933	0.607394554
NOTCH2NL	0.45128587	0.490171545	MRPL17	26.40499992	24.63608202
BRD9	22.26925359	22.90135658	MRPL14	55.36731593	64.37901609
BRD8	12.79784443	13.72880058	MRPL15	68.18023261	87.01360376
BRD7	15.64943065	18.58290633	MRPL12	69.14657403	93.43842405
SF3B1	56.96072066	57.39540224	MRPL13	47.3241788	59.45066588
BRD4	14.68193788	14.55088236	MRPL10	17.42621619	20.56237723
SF3A3	49.28904139	59.48353733	MRPL11	23.17918532	27.57960472
SF3A1	29.13995209	31.10840454	MRPL20	62.56138447	82.12188297
SF3A2	65.7160371	65.58806428	UGT8	0.137392954	0.180097768
BRF2	21.63380431	19.92683182	KCNMB3	0.735041467	0.797586576
BRF1	8.700649497	8.593084393	KCNMB4	2.145066141	1.552364178
AGBL5	6.53854133	7.645341962	AMZ2	29.0405346	33.12879544
MORN1	1.884067742	1.678475156	CTC1	2.01731947	1.731262115
MORN4	4.239800354	2.872107381	CADM4	2.869461456	2.384291483
MORN2	9.564807546	11.51358959	COL24A1	0.795347861	1.144343448
AGBL3	0.460973297	0.533005831	CADM2	0.642288904	0.402019307
MORN3	0.324314667	0.132032959	MRPL27	44.58743775	42.04859475
AGBL2	0.380384687	0.309733142	MRPL28	60.28251826	65.74543347
HYLS1	11.95871791	15.30518516	FAM136A	23.01227563	30.82203962
PUS10	0.399981127	0.557592076	MRPL23	44.13955959	50.99199618
ITGA2B	0.442809866	0.278016394	MRPL24	81.30539411	108.3013218
ATHL1	0.897986635	0.669777118	MRPL21	27.72726868	33.37754098
MREG	0.310198133	0.411715682	MRPL22	12.21596122	16.03424157

TEX2	12.05832791	10.39830228	MRPL30	4.131492393	5.808052908
CTDNEP1	144.10427	152.1235631	FAM135A	0.700545245	1.045710333
CACNB1	1.946477776	1.666242185	EZH1	2.951393807	2.583057615
CACNB3	13.55536419	11.36178412	EZH2	15.97451285	19.90284093
TEX9	0.440478058	0.646992074	MRPL38	30.28121805	31.87144773
BRI3	66.35352612	57.99818347	MRPL39	12.66126572	16.35757906
MRI1	9.878679141	9.709222147	MRPL36	83.01897628	92.11044802
KLC1	38.93871878	35.78336231	MRPL37	72.3616737	92.34371122
RLF	5.303439902	5.281313131	CTCF	17.93559446	18.91533575
RAD51AP1	9.372925154	11.36394028	MRPL34	57.95483118	78.31197641
KLC4	2.365959953	2.362481057	MRPL35	6.297751255	7.595015757
KLC3	13.33632737	12.93166776	MRPL32	41.2202797	52.86209918
KLC2	23.75023319	23.32075124	MRPL33	38.11068335	54.52387315
BTBD1	17.10710797	20.09888753	MRPL41	132.730578	151.2403029
BTBD3	12.00676981	12.0443505	MRPL42	10.54150203	15.19380375
BTBD2	42.70480965	42.16744819	MRPL40	28.53703972	32.18346228
SAFB2	18.40350898	21.39728347	CTBS	6.817981963	4.884800538
NKX6-1	13.87770656	14.32004675	MESDC2	10.00539314	8.151785776
BTBD7	2.410032078	3.027912658	MRPL49	30.73666453	35.18144131
BTBD6	31.84936465	28.75651252	MRPL47	32.00915997	42.81164142
BTBD9	2.616336726	2.513189249	MRPL48	21.04160002	30.90397327
BTBD8	0.352015897	0.305650263	MRPL45	22.09930908	29.38372297
ZZEF1	10.40862091	8.260392733	MRPL46	13.60733201	15.3457023
ITGA10	22.72472762	17.87964153	MRPL43	36.95618255	39.16010525
SRXN1	29.48385792	33.17952699	MRPL44	15.64377452	17.07673509
BRK1	192.5759471	202.0360985	MESDC1	6.962131964	7.394821273
DUSP18	2.55203648	2.092779457	MRPL52	31.80585236	41.01477975
DUSP16	9.663907453	8.256955426	MRPL53	36.74349613	33.4564334
DUSP14	20.98171458	26.88487843	MRPL50	17.45101415	25.60450995
DUSP11	7.276240705	7.575952875	MRPL51	121.7289129	146.6685296
DUSP12	18.37391221	22.21216443	KCNMA1	7.257446791	6.366215494
DUSP10	2.313170992	1.527764991	HAP1	0.179234281	0.166003854
EFHD2	43.3963102	46.6708899	CTF1	1.50493237	1.036271021
EFHD1	2.084068869	1.591222761	MRPL54	49.79977701	54.16340752
C4orf36	0.457580078	0.793008021	MRPL55	28.84537516	29.47066904
C4orf33	2.60734625	2.342047031	NTF4	0.1	0.1
C4orf32	1.681788697	2.304422201	HAS3	52.75397615	49.11481939
REXO1	12.99908948	14.61614146	HAS2	2.067010182	1.617746036
DUSP28	0.727710183	1.055366442	HARS	44.76769308	48.5081522
REXO2	53.93065134	62.24311215	CEPT1	9.377838003	9.113997733
REXO4	17.19489453	20.10566992	KRTAP2-3	0.1	0.1
DUSP22	3.212630004	3.11621608	USP9X	12.5547332	9.707810802
DUSP23	5.576140153	7.61144003	TMCO4	1.480198105	0.908320636
DALRD3	35.252079	32.35805759	TMCO3	28.79611545	27.97328196
RP2	8.995859487	7.884836754	TMCO1	22.47131006	23.0952058
EFHC1	2.941026113	2.963828007	TMCO6	3.995664713	4.496057449
C4orf48	73.34807375	64.99559093	APITD1	6.598447644	8.602366531
RP9	11.59323523	13.56773027	SAT2	25.731134	24.30468138
C4orf47	0.880688588	0.657425994	SAT1	97.94009659	76.026134
C4orf46	14.1293474	16.37139961	CTGF	251.412086	105.052436

RPE	5.167961145	6.135479882	EIF4ENIF1	10.81030109	10.22296888
AMBRA1	9.097969005	8.740857405	SARS	122.6534054	118.4025199
MRM1	2.027270504	2.326054708	HAT1	33.38128681	37.85962865
DCAF15	18.16100639	18.8606456	ISG20L2	17.73372799	22.85223956
DCAF16	3.354539543	4.590056216	SAV1	5.392712076	5.272634443
DCAF17	1.740191312	1.519354677	CTIF	5.473654423	4.453146993
C4orf19	0.385603502	0.395692913	MYPOP	8.799842885	10.18442355
DCAF10	9.333450894	8.341066961	BPMS	0.752449318	0.614387966
DCAF11	9.454609585	9.364923011	TFPI2	14.66081208	11.01272728
DCAF12	16.41703142	17.33853105	PTPRE	0.687020079	0.451539391
CACNG4	18.21478929	15.50002701	MLXIPL	0.1	0.1
DCAF13	57.79305323	71.88746088	PTPRB	0.530940702	0.335684783
DDHD2	10.34571011	11.78678722	PTPRA	32.54802134	28.32025791
DDHD1	1.502896917	1.496647874	GDPGP1	1.984243206	1.912150235
KLF4	23.8704104	14.23954237	NADK2	5.570667426	5.99266234
OXR1	10.0260934	9.708073663	WAPAL	10.00370017	9.54812649
KLF3	7.853369565	6.57413764	DIS3L2	2.942910959	3.195814968
KLF2	6.03280444	6.398163562	HAX1	103.693057	107.8151447
KLF8	0.1	0.1	MTRF1L	5.190635702	5.62873338
KLF7	3.087829875	3.372626543	AHDC1	7.47662472	7.418776233
KLF6	71.48564571	60.9688055	MAK16	12.16479012	16.98646009
KLF5	12.04617137	12.05210234	NTN4	16.84225109	11.39755932
C4orf29	1.577287497	1.778107475	PTPLB	7.540368227	9.631356936
KLF9	0.249629254	0.299431001	NTN1	2.04577339	1.489317947
RUNDC1	5.915341916	5.366514479	PTPLA	55.19025343	52.76155395
C4orf27	6.978417428	8.671924914	PTPN1	26.30899627	28.54024925
C4orf22	0.587519315	0.339317201	CTNS	12.18796357	10.31324368
C4orf21	1.16904992	1.377615764	PTPN9	9.3972374	10.0387918
OXTR	50.89574525	25.21787955	PTPN6	0.1	0.131054137
DIXDC1	1.781468465	2.557185249	PTPN4	0.748192719	0.784454345
BROX	5.831772799	6.342325734	PTPN2	4.507802903	4.961962097
OXSM	6.586765607	7.384167945	PTPN3	1.398041033	1.462729208
XRN1	2.778745722	2.323528841	PPP5D1	0.424864681	0.293299459
XRN2	45.92601724	50.15282685	KDELRL1	191.3220734	163.4620408
TFAM	5.586379967	7.720574649	THUMPD2	1.894479077	2.029845746
HRASLS	3.814296378	2.682284381	THUMPD3	16.8899009	17.60373295
TELO2	8.997905011	10.34325082	SPATA20	5.886930276	4.058137414
IGSF8	13.11021204	8.478165119	THUMPD1	4.358687107	5.19876786
IGSF3	0.121352765	0.14065671	SPATA21	16.40864843	17.67250722
KLK1	0.1	0.1	SPATA24	3.680788763	3.12548627
ANP32A	22.27458235	33.78096159	ACVR1	12.36698461	9.67504585
KLK5	0.232952724	0.171198016	ANK2	1.779895042	1.80962647
KLK9	0.1	0.1	ANK3	0.103052366	0.121794457
KLK8	0.145253726	0.1	ANK1	13.21297761	11.40525789
IGSF9	0.125693015	0.1	SPATA17	0.657417135	0.842944673
KLK7	0.1	0.1	SPATA13	1.70223012	1.636619607
KLK6	0.168088174	0.172924311	KDELRL2	146.9259342	127.9581434
BCL11B	0.112916777	0.1	ALPK3	0.190416256	0.181548043
ANKEF1	1.717107497	1.555434195	KDELRL3	47.90239027	35.99204042
ANP32E	19.79491745	25.9907326	ALPK2	10.37216814	10.17226229

SPRTN	4.63364327	6.204713359	ALPK1	0.626986395	0.401022374
ANP32B	146.1547342	166.874637	KIAA1211L	0.580549312	0.359659163
CENPBD1	2.937103746	2.41686911	CTR9	10.03452129	12.2380307
KLLN	0.221466628	0.195402345	WNK4	0.653589264	0.36351527
MRS2	4.198668585	6.130132039	ANKH	11.32962902	11.40407087
SERP1	44.53373721	41.31054275	HIVEP1	1.908986318	1.558853279
KIF13A	13.02543779	10.7339664	HIVEP3	1.951513016	1.804860081
KIF13B	10.26386493	8.550496218	HIVEP2	3.480923247	3.046387327
TFE3	41.34789884	35.44210906	CTSA	328.6628641	283.8127917
TFEB	1.92092736	1.43150512	IFITM10	1.332599723	1.05010671
MAPRE3	5.656286308	5.376496365	ANLN	80.50053028	91.44467155
MAPRE1	80.88889012	84.25836176	CTRL	0.451616088	0.790415952
MRRF	13.87103264	20.39316423	WNK1	11.70023172	10.04726037
MAPRE2	8.103597147	6.767167966	WNK2	0.106304767	0.104501719
IFI6	610.1046452	307.4639862	WNK3	0.681663773	0.659208535
LOC100996350	0.643156032	0.465010245	PTPRU	0.146203555	0.139588224
RYK	14.9861069	18.50838974	PTPRR	0.471186603	0.78908854
PUS7L	2.343894226	3.027844732	PTPRS	17.07060906	16.21604443
DFNA5	18.36103002	16.4541414	USPL1	8.88274662	9.829617357
GALNT12	0.80281435	0.805263854	PTPRO	0.474629055	0.501238041
GALNT11	11.99039146	13.23694937	CTSZ	34.8380872	48.47079269
GALNT14	0.1	0.1	PTPRM	0.1	0.1
GALNT13	3.172683225	3.197729626	PTPRJ	8.002895236	5.213503351
GALNT16	5.067260644	3.982448119	CTSV	2.946016499	3.074416241
GALNT18	0.120914363	0.1	PTPRK	26.8922379	21.50688781
GALNT10	57.95641709	55.78484549	PTPRH	15.38912326	10.79951382
EFTUD1	10.95549071	8.253670177	PTPRF	16.60993972	14.56043766
EFTUD2	35.17676833	41.23625817	CTSS	0.226494465	0.163223561
OXA1L	81.54775535	96.01830637	PTPRG	9.52937821	8.061616113
COL4A2	51.06433541	39.36154562	BABAM1	50.21321444	52.99261612
COL4A1	14.83755607	10.38437461	CTSO	4.085351967	2.199431158
KIF16B	1.820071783	1.76592387	CTSL	2271.922674	1790.856581
COL4A6	0.492462617	0.682429509	CTSK	1.219392156	2.190389475
COL4A5	4.897820572	4.867713009	CTSH	3.70411984	2.673407778
C5AR1	0.166547323	0.179193352	CTSF	13.12651185	12.32965558
ADIPOR1	57.13891927	56.96066668	CTSD	542.321571	444.9154887
ADIPOR2	23.66683815	23.23506963	CTSC	14.85975155	19.75053628
PSORS1C1	0.128607531	0.222557818	CTSB	1946.569149	1639.3789
PSORS1C2	0.1	0.1	LEPRE1	84.22593257	73.51180391
PCSK1N	32.88287771	27.47317844	ANO8	3.328186286	3.307323135
DMAP1	23.33981246	20.99960099	ANO9	0.1	0.1
NR4A2	1.144616444	0.908907051	ANO6	12.51745804	10.95594946
NR4A1	2.424022115	2.254120792	ANO7	0.238436058	0.441467615
KIF18A	11.546383	13.7144052	ANO1	0.173944477	0.175425307
NR4A3	0.955839473	0.542061567	CTU2	7.302950014	8.24314451
KIF18B	11.61915701	13.20274231	CTU1	5.94359404	8.462472204
ARAP2	0.127615297	0.119717829	CTTN	80.42576291	70.79485556
CKAP2	41.58877054	50.66671971	LNP1	0.732694848	0.76926777
ARAP3	0.188856232	0.12819777	SLC43A2	9.747393813	9.2334975

ARAP1	12.23578594	10.2743586	SLC43A3	27.72204803	29.64366947
CKAP5	43.50879712	47.32130448	SLC43A1	0.551037132	0.758736179
CKAP4	94.67664949	82.99984107	CAMKK1	0.467446464	0.715545195
AGAP9	0.970570205	0.939164212	CAMKK2	4.902920127	4.760769764
AGAP6	2.107208429	2.328058683	AASDHPPT	14.51779585	20.67617676
AGAP5	0.50687315	0.436385678	SCARB2	59.52424322	51.67714739
AGAP7	0.399184647	0.191552858	SCARB1	44.90845005	52.81917053
SLFN5	3.002305976	2.228092473	GXYLT1	1.501276265	1.729587484
TFPI	19.02727041	16.77216894	GXYLT2	7.756684648	7.24548256
TFPT	27.39058782	22.94138697	SBF1	13.62067777	13.05682248
TCFL5	7.521610996	8.461499052	SBF2	3.892114988	3.495769212
SPRY4	20.84057498	17.50648707	SCARA3	22.1094047	17.14244401
HAGHL	1.926529046	2.622830898	ZGPAT	16.11486078	15.91305092
SCLT1	5.834549735	7.001240219	SCARA5	6.295105301	4.809377397
PHOSPHO2- KLHL23	0.890509207	1.158321432	CAMKMT	1.503185616	2.199219693
SCD	468.1080381	384.656876	SBDS	60.72600734	67.10061541
SPRY2	27.92686554	22.65425483	WNT6	0.1	0.1
SPRY1	9.396878871	9.030287176	WNT3	0.332201774	0.392906854
TFRC	46.64134308	63.4881358	WNT4	0.153215136	0.109499146
PTPDC1	2.837304388	2.875698067	SCARF2	2.259705706	2.592660369
COMTD1	7.55967054	8.431920402	SCARF1	0.129501009	0.131596394
CAPNS1	323.7964181	298.076214	BUD31	32.9386336	36.82379432
UNC5A	0.1	0.119130565	PPDPF	311.8745232	259.8069035
UNC5B	0.115080197	0.132302612	CLCN3	6.00468191	5.969404836
TFR2	0.38108584	0.406953635	CLCN2	1.679066169	2.208391816
DDIT3	37.89477451	23.52789443	FAM132A	0.249428409	0.171129753
DDIT4	223.3540892	243.7951214	KDELC1	7.663139392	9.796242507
UNC50	14.07755975	13.48389822	KDELC2	12.95827245	11.17404126
SF1	73.75317684	76.97781456	FAM132B	3.539422494	2.755702428
SET	114.7523214	147.1296343	GALNT7	4.695643494	4.897179141
FAXDC2	5.553149482	5.340557283	GALNT6	0.131434819	0.167335114
ADAMTS12	5.803631619	4.733963443	GALNT4	0.754807569	0.656928167
ADAMTS10	0.245964721	0.204221492	GALNT3	0.130425345	0.110862128
ADAMTS16	1.959132952	2.367114298	GALNT2	79.01141488	76.41798172
ADAMTS15	11.69659407	9.216695175	GALNT1	12.18767336	12.51949024
ADAMTS14	4.674946388	2.071221585	SPATA2L	8.664317728	7.411183901
ADAMTS13	0.603668207	0.38470578	CLCN7	34.85301941	25.5375044
SFN	0.297533373	0.212833966	CLCN6	5.725471726	4.819773688
L1CAM	0.453685021	0.489629444	CLCN5	1.801214155	1.641308844
MOV10	42.06284205	26.83453418	CLCN4	1.002968137	1.028856717
HYOU1	63.56840423	62.27565954	SBK1	0.432954309	0.441744771
DZIP1	6.265356459	6.101619197	SPATA32	0.122745743	0.1
DZIP3	4.515202356	4.323460638	FAM131C	0.649748963	0.448916319
SHB	36.08883512	35.68477061	SPATA33	5.232615078	4.516531501
SHF	0.494829705	0.470941662	FAM131A	8.179956325	7.014387364
AC137932.6	0.83292258	0.961939131	LNX1	0.367359418	0.636904946
MMP28	0.563662513	0.446111895	BUD13	9.072546023	9.835957486
MMP11	3.730385565	2.889035051	LNX2	3.982287351	3.373923076
MMP14	147.8468305	143.2762586	CYFIP2	0.145900112	0.165547047

MMP13	4.341700437	3.742567991	ROPN1B	0.1	0.1
MMP16	6.234105	5.727070828	CYFIP1	25.83192205	25.91132357
MMP15	0.989656839	0.960905614	NUB1	17.9357316	13.0104538
MMP17	13.34671265	8.048749895	ROPN1L	0.480316815	0.453019151
MMP19	0.687020079	0.98240657	MPV17	35.86973169	39.11448539
TRUB1	4.500327974	5.274918845	ASF1A	8.09250415	9.990792017
TRUB2	26.96014598	33.48217178	ASF1B	43.55779842	44.22298565
HSPE1-MOB4	5.454174608	7.84131582	FAM149A	1.559950632	1.037017144
RICTOR	3.363841408	2.685093753	RIC8A	42.1773758	38.34140843
BMP8A	0.118468282	0.106593346	PPP3R1	14.66223108	16.17701324
BMP8B	0.113769223	0.158988867	RIC8B	2.9840944	2.870323803
ARCN1	73.18882343	70.77842619	HBQ1	0.259115703	0.497640372
SKI	19.65341562	16.55740823	PPAPDC1A	13.28421625	16.04975981
MTCH1	61.32059195	61.07339822	PPAPDC1B	20.41340071	15.89339829
MTCH2	54.91769066	58.23960064	TYSND1	12.62958655	11.7126813
PDCD7	4.272866513	5.148241486	HBP1	10.33926167	8.99451396
PDCD6	76.76300017	83.84194729	PRSS27	0.775153394	0.810421787
PDCD5	55.62443281	72.82635207	PRSS22	0.129601867	0.1
MSI1	0.1	0.112468627	PRSS23	45.48123521	28.89447372
MSI2	1.474720845	1.716367564	C11orf96	3.816394061	4.066394275
SLK	23.93718366	21.94932743	C11orf95	3.915840838	4.020737736
NFATC2IP	8.823312177	8.184748625	C11orf94	0.240789368	0.301052391
MSH6	19.92983123	21.20116385	NUF2	23.58124585	34.07967359
VMAC	1.375450513	1.077331324	C11orf91	0.272595605	0.305394054
MSH2	16.92062224	20.07467097	ANXA6	64.81337209	57.93565682
SMO	2.323703669	2.035088926	ANXA7	50.23628227	45.20542892
MSH3	4.410776075	4.829568748	ANXA8	0.147727402	0.117039121
MSH5	0.486511427	0.444970324	ANXA9	0.270892358	0.161010142
SMS	80.64001667	92.9866967	XXYL1	7.870734924	8.633975753
RAP1B	24.08308602	26.81262827	NUDC	97.03942085	114.860716
SNN	6.426286689	5.61962995	ANXA1	225.0612837	251.062318
NDOR1	8.046617311	7.62227401	ANXA2	914.6178377	907.017706
RAP1A	22.42324021	22.50051693	ANXA3	1.031141553	0.719000301
ZKSCAN7	0.514426141	0.839769696	ANXA4	15.2347052	12.97969646
ZKSCAN8	2.947689362	3.226635506	ANXA5	583.4878232	502.7851075
ZKSCAN3	0.539901354	0.567316013	RAB7L1	21.18717818	20.90178401
ZKSCAN2	0.726973031	0.703834308	PRSS16	0.136266162	0.125894706
ZKSCAN5	6.377302519	5.704685148	PRSS12	2.951469609	2.346902259
ZKSCAN4	1.582532422	1.516376924	C11orf86	1.941311083	1.226911377
ZKSCAN1	2.801531894	2.590090575	C11orf84	19.82958801	19.83282218
NOP14	14.03988039	15.61339718	C11orf83	11.87562278	12.8261524
NOP16	51.06548424	82.34769103	C11orf82	4.821518581	6.769666344
RFXANK	44.21161974	42.94659945	C11orf80	3.432217077	3.916403666
LRCH2	1.8496271	1.492254157	CCL13	0.1	0.1
G6PC3	65.53750012	62.10503398	SBSN	0.309269998	0.305456107
LRCH1	5.610689118	4.33382617	C11orf68	62.34162607	57.47706601
SON	13.77005631	12.26830361	C11orf74	1.810531227	3.484886283
SP2	3.268552072	3.397087626	C11orf73	16.1377293	18.23927563
SP1	11.05544323	10.62995685	C11orf71	3.702366903	3.168214835
SP4	0.561409368	0.935838942	C11orf70	2.487206085	2.563943704

SP3	10.51639851	10.29666653	SC5D	3.304858659	3.952635296
SP6	1.178620468	0.372966269	CCL24	0.1	0.1
LRCH4	6.218597757	6.890747072	AOC2	0.158481738	0.322704187
SP9	1.45680311	1.298230797	CCL22	0.1	0.1
LRCH3	4.613082954	4.1425456	CCL20	0.593598831	0.320274146
NOP10	237.0366651	263.2259077	PRSS36	0.228094026	0.335186682
DYSF	0.114088482	0.1	C11orf58	16.28582499	18.31155797
MSLN	2.961084819	2.465425089	C11orf57	7.916043522	10.04539516
BICD1	1.512773342	1.603229513	C11orf65	0.143113093	0.1
BICD2	9.160704323	10.27545706	CCL28	0.1	0.1
SPR	7.969247575	7.244249962	UHRF1BP1L	6.542584028	6.878026977
PRADC1	30.32096445	36.20087825	C11orf49	14.00575534	13.13409047
SPDYE1	0.24307705	0.222591571	C11orf48	12.65489194	18.14125355
MSMB	0.1	0.1	C11orf45	0.157167843	0.14081889
MSL2	5.963325553	6.008525617	C11orf54	3.540601214	3.611340973
MSL3	10.12465049	11.05772616	ABHD12	38.83710384	37.80570448
MSL1	15.27189334	13.98381648	ABHD13	2.402631099	2.968466264
BMP2K	7.653059	6.495056936	ABHD10	9.857064493	11.83899485
GAPDH	4032.877876	4551.214094	C11orf52	0.1	0.1
SRC	8.651182716	7.666740924	ABHD11	12.81823081	13.05351835
SRF	23.32046423	23.7069404	KRTAP3-1	0.1	0.1
SRI	27.95681072	34.87578079	C11orf35	0.223811432	0.161882546
SRM	213.4552836	261.3909569	CUL9	3.081632934	2.548759136
SRR	5.993544138	5.760716518	CUL7	13.58530386	11.51968985
RNMTL1	19.22476215	23.08561324	CUL5	3.857865972	4.2293177
KRIT1	4.975955354	4.687591494	CUL3	9.962326365	10.61092426
NOP56	63.58810866	79.87021782	CUL2	13.22158892	13.90611522
NOP58	27.06707507	38.55334173	ERV3-1	3.313153077	2.360177302
SSB	29.71544377	44.12453374	CUL1	26.63416733	27.79636091
SPDYE3	0.979731331	1.199252581	C11orf24	46.13277707	42.01916029
MSMP	5.463701163	5.625827114	C11orf31	25.43327339	28.36495197
BICC1	14.48550734	11.13408876	C11orf30	4.6287816	4.958388436
NECAP2	35.40790438	32.11643449	NACC2	8.767331468	7.955424957
NECAP1	9.496509411	9.083855132	NACC1	34.77489592	39.78655607
ST5	6.2495681	4.64597372	BTN2A2	2.199913189	1.886928271
ST7	6.927677312	6.54893403	BTN2A1	11.92193214	9.763577503
PDCD4	4.244301435	4.202626816	ABHD15	3.141426914	3.197610905
PDCD2	10.92801911	13.64475777	DTX3L	52.60969916	22.54428571
MT1X	101.5593008	76.67558067	NUMB	29.52575073	26.82123661
RCBTB1	5.754998907	5.223097089	REPIN1	23.95372936	31.44924521
RCBTB2	1.506248039	1.423569141	RSBN1L	3.133180146	3.740297053
MT2A	1516.358153	1426.144937	IMPDH1	13.65164689	19.26861519
STS	1.313851715	1.135552507	IMPDH2	146.5925237	185.286802
TNFSF10	0.499011344	0.213960572	MYOZ3	0.871754701	0.689717002
CYP39A1	0.24879662	0.251776457	MYOZ1	0.1	0.1
MT1F	0.1	0.1	SP110	16.21598303	5.966645946
MTCP1	3.257383644	3.329750676	PTOV1	83.33235426	71.3628066
MT1G	0.1	0.193672137	SMIM3	59.15173	69.6634813
MT1E	33.9420779	24.0883409	CUTA	161.5865799	151.817924
MYCBP2	2.873392184	2.52888519	TBCEL	3.038794748	2.9926151

TGFA	0.111614415	0.116585811	SMIM4	35.38984293	43.80337173
STK38L	3.20810896	3.228774314	TEX264	34.57965399	30.24288908
APOBEC3C	0.514872664	0.429140782	SMIM1	1.334673859	0.710324489
APOBEC3D	0.120755604	0.203739178	TEX261	23.61462611	26.2322727
APOBEC3F	0.255012335	0.186964158	SMIM7	31.36072511	31.57383797
APOBEC3G	0.269960557	0.241580787	SMIM8	0.910073256	1.65256666
TNFSF15	0.138833366	0.161001021	SCAP	20.50201735	19.59296253
APOBEC3H	0.1	0.1	SCAI	0.372285785	0.409852178
TGDS	4.497558146	4.585624721	NUS1	8.371602196	10.03084307
TNFSF12	5.279142689	4.688263016	AKR1B10	0.360407403	0.262693711
TNFSF13	0.510862472	0.86600431	AKR1B15	0.1	0.1
BST2	113.8931798	53.61170194	TMCC3	3.103834708	3.333006808
MSRA	16.61612611	14.26006812	TMCC2	3.3437111	3.222061439
ITGBL1	1.988398968	1.35411193	TMCC1	2.499141685	2.575682133
APOBEC3A	0.171954677	0.151376961	CUTC	19.08803983	25.99541571
APOBEC3B	31.58152805	30.36864665	HCCS	22.83694565	27.58240386
VMO1	0.164616016	0.1	PPCDC	2.441202207	2.406892714
RAC2	0.168764099	0.19819766	TSC22D4	25.56331998	22.76433317
RAC3	16.12647884	26.94077873	BTN3A1	3.198978584	1.808225739
RAC1	223.8067915	216.2609166	TSC22D1	42.24263167	40.27435285
MST4	0.115572925	0.1	LRRIQ3	0.897855563	0.591999412
MST1	0.555855768	0.530110984	TSC22D3	1.061636683	0.704885037
GAB1	1.20116257	1.064092636	TSC22D2	10.83507915	8.260561709
GAB2	0.454846907	0.53434379	BTN3A3	2.678527738	1.632204066
SYT	3.516442382	2.935805552	BTN3A2	2.39772355	1.605401155
CNKSRL	0.487898057	0.486464659	RBM12B	5.411531425	5.25448967
RAP2C	10.98045966	11.15602457	PRIM2	8.197759494	9.421590982
CNKSRL	0.1	0.122529102	SP100	23.07094043	12.50325556
RAP2A	11.86592712	13.23361597	PRIM1	13.17665522	17.07400627
RAP2B	3.378988241	4.028551297	RASIP1	0.264119485	0.185224965
CNKSRL	16.04910641	15.31458365	RBM15B	23.14599638	20.71655885
TLCD2	2.23932559	1.596087366	CUX1	2.027663867	1.862511365
MICU3	1.403016729	1.532781939	SCD5	5.038970902	5.730471243
TLCD1	8.902713924	8.637834526	CADPS2	0.142821692	0.1
MICU2	23.3746021	25.31558942	EPDR1	0.119988948	0.1
MICU1	30.59450207	28.04357637	PRSS56	0.124073808	0.1
ZFP14	0.377332321	0.421783104	PRSS53	2.14833891	2.028639489
SH3BGR	27.76367707	30.07035929	PRSS54	0.186107089	0.1
MSX1	3.982956269	3.943261547	SCG5	0.336500502	0.240721419
RAE1	25.87756717	31.73914174	SCG2	15.02690268	10.59943739
GAD1	0.294294189	0.217386602	USP53	3.235194577	2.417330775
IGIP	1.077140006	1.120703284	USP54	3.49937232	4.432636131
MRE11A	2.735792906	3.160053213	COX7A2	85.39931153	98.68979975
VMP1	36.03137493	33.1199448	USP50	0.435891877	0.339832971
PDCL3	20.63887694	23.70224155	USP51	0.317897188	0.231016922
CACHD1	2.730070336	2.660158606	SMURF2	13.05632817	11.94006724
TACC3	44.86167279	49.50677139	SMURF1	12.9368243	10.70109174
RAD1	7.288645629	9.193338195	ATG16L2	0.973130705	1.264832286
TACC1	19.22653577	17.97311012	ATG16L1	8.155880835	8.673600229
TACC2	6.752103121	6.319062865	USP35	1.802891076	2.014256012

ZFP28	3.837136147	3.793987187	USP36	8.606489406	8.978031744
DENND5B	2.661329064	2.387032501	PCDHGB7	5.823907746	4.116912853
TACO1	13.57408885	16.89211743	USP37	1.67193844	1.52139104
TGM1	0.212246187	0.340437519	PCDHGB6	3.375901353	2.6003678
DENND5A	26.18911427	21.01887052	USP38	4.9901202	5.712322351
RAG1	0.131333701	0.133559258	PCDHGB5	3.334188278	2.547015768
TGM2	43.94465242	22.52485161	USP31	1.076089612	0.984185116
MSX2	0.1	0.116559896	PCDHGB4	3.379580394	2.56322117
PSPC1	17.86053424	21.30086319	USP32	7.405417258	5.907512495
DENND6B	2.172334295	1.358582438	PCDHGB3	3.344128915	2.545503122
DENND6A	4.695089333	4.073806123	USP33	17.14203593	14.82964904
RAF1	63.34572253	61.47810275	PCDHGB2	3.339899281	2.558435611
RAI1	9.721360223	9.356596936	USP34	4.610712112	4.580161892
GYLTL1B	0.120341142	0.230715543	GTDC1	2.284808781	1.987946809
IL36RN	0.254158092	0.168794819	USP39	26.30369502	30.51786761
DENND4B	14.40440475	13.72860632	DTWD2	0.966899073	1.181353859
DENND4A	1.954139023	1.701805023	GMPPB	26.6296213	22.58064692
DENND4C	4.560920967	4.131170601	DTWD1	2.051438088	2.71118354
TAZ	22.65290369	22.94758141	GMPPA	39.95380878	30.51398717
TBP	8.913163058	9.120272552	AOX1	1.510918345	1.513397495
OR1F1	0.376630868	0.416031235	USP30	3.093475067	3.458765445
RALA	16.42490305	15.62410656	PCDHGA8	2.799993679	2.149177997
GALT	12.70881527	10.26459358	USP46	1.569174192	1.942621804
RALB	18.65853637	16.58128809	PCDHGA7	3.817034295	2.816295425
TROVE2	7.031893015	7.215581657	USP47	6.309938383	6.063139356
MTA1	26.52302207	32.22654673	PCDHGA6	6.767362583	5.295599822
OXCT1	16.0591753	19.52283069	USP48	9.931764624	10.55116709
TDG	8.363520012	10.96296482	PCDHGA5	3.317321586	2.534254277
TGS1	14.05873964	16.16543112	CAMK1D	3.098418521	2.738497176
MVB12B	0.356655135	0.313799229	USP49	0.754848029	1.136244024
MVB12A	21.78628326	21.33664333	PCDHGA4	3.329286158	2.529986189
DROSHA	19.03318394	20.89790947	USP42	4.804527118	4.415784313
SLIT3	13.271949	8.594236327	PCDHGA3	3.326507104	2.540723638
OXCT2	0.12848206	0.283030425	USP43	0.224732958	0.260310922
RALY	56.75334101	54.77367673	PCDHGA2	3.195290947	2.441006128
SLIT2	4.890725413	3.832115481	USP44	0.1	0.117722965
MTA2	48.64879842	54.28479862	PCDHGA1	3.418921215	2.558435611
MTA3	5.33519295	5.052246007	USP45	0.685549772	0.918766035
HSD3B7	33.44386645	32.36412536	PCDHGA9	4.307997028	3.225415087
GALC	4.220781177	4.217328257	PCDHGB1	3.404961411	2.581025929
GALE	15.42100811	18.95411634	USP40	5.851097504	5.592539693
TEC	0.645344896	0.550868318	USP41	1.594284093	0.384519012
TNIP1	34.48082127	30.89610938	MCPH1	9.432412457	11.44794609
TEF	2.617202456	2.37830411	USP13	4.998469076	5.655006859
TNIP2	22.15429083	19.81214808	HCN3	3.465970707	2.704443263
TNIP3	0.99059332	0.690478564	USP14	19.43797533	20.3607693
GALM	0.581224072	0.413724321	USP15	6.768539676	6.665849182
SLIRP	47.3466334	80.64937433	CAMK2D	22.91715656	17.92693068
IPO13	25.11453341	23.27579391	USP16	7.248003218	9.697108168
IPO11	10.11892462	12.04783999	USP10	23.03277798	24.10522468

TES	0.305414826	0.273337225	USP11	42.26106672	30.83516626
CAPN15	5.164941852	6.514363357	GMPR2	27.27487236	26.8024791
MTBP	6.141628906	7.682254246	USP12	9.341166524	10.67715065
TFG	101.7220107	101.6481877	USP18	31.6690675	8.12273258
HOMER3	79.16769313	71.92898609	USP19	17.31449872	17.58237822
GAMT	11.70020034	16.07838023	CAMK2G	7.937088848	7.818379883
MBNL1	23.11464284	25.02445301	USP24	9.285978432	8.963177458
MBNL2	10.66838647	9.344458725	USP25	6.000902905	4.958891527
DNAAF3	2.206738583	1.140172908	USP20	4.466619166	3.956283588
DNAAF2	4.009934109	5.508261825	PCDHGC5	3.379837137	2.561754618
QTRTD1	6.52776048	8.440427426	USP21	7.691860357	9.806884606
GANC	2.524241882	1.612561944	B3GAT3	63.35329153	52.70092912
SF3B14	76.84773602	107.6778931	PCDHGC4	3.325182023	2.563315816
MTAP	10.53880799	15.2858482	B3GAT2	2.043112697	2.470172696
MTDH	34.09498586	38.45208755	USP22	69.04989404	71.01239162
GAR1	13.42609709	17.60774378	PCDHGC3	24.55801016	17.57917314
FAM120AOS	13.15827758	11.71791968	USP28	7.126402693	5.889924838
BTF3	275.8285949	391.088549	NEURL4	8.282801868	9.082123138
HOMER1	3.08792131	3.067877396	NEURL2	2.386713705	1.860314626
HOMER2	1.029348257	1.508190386	NEURL3	0.1	0.1
DENND1C	0.1	0.150779146	NEURL1	0.124079387	0.1
CDKN1C	0.1	0.196098876	SCLY	5.198502845	5.795503156
SETD4	1.826831178	1.782298804	HCN2	5.709762303	3.713633559
DENND1B	1.563416253	1.924158088	HCN1	1.282054084	1.055263975
SETD5	11.75976063	10.73584227	SCOC	14.21437984	15.15216913
BTG3	20.50244629	21.02073738	SCP2	26.92401714	22.54707524
BTG2	0.157468227	0.14103337	EPSTI1	24.85029597	11.28271489
SETD2	6.001734062	5.730325235	PRKACA	32.38186286	33.33465756
CDKN1A	23.36244928	17.03678103	PRKACB	5.89500083	6.87231182
RARG	24.1099601	22.44806049	ZNF17	2.870480015	2.269169703
CDKN1B	21.99575163	22.22122052	ZNF18	3.817510965	4.456922301
BTG1	16.69554681	14.1767605	PRKAB2	3.543127474	3.604318884
SETD3	16.66756444	19.12231998	ZNF19	0.630308332	0.492173102
SETD8	13.65907556	16.59079071	SECISBP2	4.722721717	4.756171486
SETD9	0.612875557	0.961653105	RC3H1	1.229170171	1.051305462
DENND1A	7.937256337	8.607299401	ZNF10	0.760447562	0.706306462
SETD6	2.928424438	3.451356391	ZNF12	5.333093276	4.935502602
SETD7	4.234171784	4.83992768	BHLHA15	0.394341513	0.467789183
ADAMTSL1	4.875834591	5.113364292	ZNF14	1.800733671	1.752524447
ADAMTSL5	0.772802677	0.398622969	PRKAB1	6.591204953	6.403381841
ADAMTSL4	0.67537178	0.527943772	RC3H2	9.940933449	9.524576422
MTG1	10.88294782	10.69504994	ZNF16	7.626580265	6.268181302
RARS	68.21929121	73.75098695	SIGIRR	20.47755047	19.12965324
ADAMTSL3	0.1	0.1	LARS2	8.999576356	9.022722342
MTG2	14.32974571	17.33622297	SCO1	18.8782837	26.23933261
GAST	0.1	0.1	SCO2	50.02463344	47.2177087
TK2	5.018260581	4.102879236	ZNF28	2.724024601	2.579767051
TK1	77.37128036	68.06881771	UNC119B	4.971906764	4.892593223
DENND2D	0.115761917	0.111254298	AASDH	1.656808522	2.0349898
DENND2C	0.146035691	0.157523076	NPRL2	21.42375131	22.48133584

DENND2A	14.58476877	10.76813561	NPRL3	13.69129367	13.16414068
COPZ2	3.593966809	2.676551785	ZNF20	1.220151676	1.142175201
COPZ1	88.3400155	95.84702101	ZNF22	3.588561249	3.31460333
MTF1	3.879696519	3.338527303	ZNF23	1.654371951	1.839146594
MTF2	5.738123083	6.23743108	ZNF24	5.426014293	5.88953473
RARA	10.26015771	9.754938277	ZNF25	1.18988693	1.534804942
GAS1	106.7213619	98.47561751	ZNF26	2.05443318	2.097311087
RARB	5.615142117	5.593631426	LARP1	70.09046185	66.80762863
GARS	188.4658846	174.1323389	PRPF38B	12.82501992	17.92613683
TKT	423.3295671	391.7784884	PRPF38A	12.67550752	15.23474096
GAS6	103.1736544	77.8690217	ZNF32	14.54869876	14.78906118
GART	27.36834967	35.87848087	LARP7	9.82527905	13.03844516
GAS8	3.994775299	3.677097645	ZNF34	3.598834239	3.056023115
OLFML3	0.464485105	0.446998748	ZNF35	3.71350834	3.652718756
NDNL2	7.481566333	5.793109437	LARP4	7.988428746	9.788774747
MBNL3	0.104311667	0.1	LARP6	34.4245255	28.6221993
CDKN2D	13.72839074	13.86116672	PPFIBP1	26.75326384	25.47253138
CDKN2B	18.06909128	13.54477308	PPFIBP2	0.1	0.1
CDKN2C	114.5819946	115.2572126	LAS1L	31.99286888	38.97010309
CDKN2A	423.2290085	436.8448208	FXYD3	0.198704136	0.193968755
IL10RB	17.00204728	15.00576387	ZNF30	1.211570115	1.31140858
GATC	4.451188408	5.724725152	FXYD1	4.033647604	5.184709463
GATM	0.1	0.1	SFXN3	3.445729488	2.777022349
OSTM1	17.27753215	14.52412506	SFXN4	6.194660473	9.129194778
GATS	1.943060824	1.78152909	FXYD7	19.2629535	13.73067537
TNC	9.958660933	8.886141453	SFXN1	14.91931098	19.4514795
TNF	0.1	0.1	FXYD6	0.1	0.1
LARP4B	9.303631329	10.10058026	SFXN2	1.215269412	1.374116559
TOX	0.452126787	0.225712497	FXYD5	482.2758545	437.736459
INSIG2	1.890036257	1.923832406	SFXN5	3.543360057	4.189747193
INSIG1	34.98588657	31.47907662	PRKAG1	38.31023461	41.77816069
MTM1	6.062305463	5.260237135	ZNF43	1.252272302	1.379109178
TPR	18.82450743	19.74752807	PRKAG2	4.473769842	4.764804452
SYNJ2	15.02836667	13.8932822	ZNF44	1.846573689	1.930827944
COPRS	49.91356893	46.21035585	ZNF45	4.425945431	4.405318288
COPS4	24.61933839	23.12469697	ZNF48	7.363846212	6.619244175
COPS3	57.12649566	66.84162373	ZNF41	2.76798491	2.855286313
COPS6	80.10350928	83.7309567	APC2	1.128687486	0.801613625
COPS5	73.91265326	89.8230704	ZNF57	1.344963203	1.988969021
MTL5	2.650986842	2.770779965	TOMM40L	9.344507548	10.07757888
SYNJ1	1.914891772	1.934068506	PTRH2	5.323017597	6.816415642
COPS2	13.79601581	17.43709811	RAPGEF1	11.44093778	10.08563167
COPS8	70.76983868	77.4979438	PTRH1	12.90454804	15.105166
BMPR2	3.035440837	2.226691217	RAPGEF2	2.402549672	1.995809878
SYNE4	0.1	0.1	RAPGEF5	0.343509721	0.252136612
MTO1	13.19021992	13.77268543	RAPGEF6	3.484488394	3.481451254
SYNE3	2.220776205	2.321670858	HCST	0.407404006	0.319492108
SYNE2	2.172738797	1.446200224	CRYAB	0.250365491	0.422091168
TRO	3.728537297	3.484105802	RAPGEF3	0.500974641	0.267010235
SERAC1	4.419456136	3.698199541	RAPGEF4	0.135836705	0.159705487

SECISBP2L	3.299897495	2.519184751	SZRD1	47.36103954	51.61420316
LANCL1	2.705425045	3.748475056	CCM2L	0.1	0.1
TSN	16.39574973	18.58177646	ZNF69	0.554437342	0.865764802
TST	17.23432618	15.59668332	PLAGL1	7.736584569	6.376083882
ESPL1	16.29868594	18.26823008	PLAGL2	5.96937056	6.204181422
PPAP2B	58.27035366	42.48692507	EGLN1	14.91603277	15.33594398
PPAP2A	22.89814678	18.5351698	EGLN3	0.1	0.1
LANCL2	4.277107039	4.718662547	EGLN2	39.99487818	37.55767248
LANCL3	0.1	0.111132703	MCRS1	32.0070835	35.22262585
MTPN	24.81832128	26.68860933	ZNF76	10.56447151	9.91670612
PPAP2C	25.07874577	23.54909998	ZNF77	1.398781924	1.42738928
TTK	26.84139928	36.0146233	ZNF79	2.617792214	2.307138486
TENC1	1.180569776	0.631842851	TARBP2	9.857257675	11.08716467
TTL	10.81419636	11.72245563	TARBP1	5.153350333	6.181129387
TUB	0.877447013	0.753412436	ZNF70	0.694911312	0.86644655
MTOR	17.62480248	16.71906782	ZNF71	7.611627344	7.784045275
GLOD4	32.37742061	37.45356594	ZNF74	3.559132056	4.121595244
TCERG1	18.76820612	25.66644069	IL1RAP	8.72004818	8.234027951
C12orf57	37.60442095	28.5866801	APEH	49.64019523	54.16763888
MTRR	17.14946453	19.58005757	MAP3K8	1.186269648	0.924861976
WDSUB1	5.650810714	5.333201867	MAP3K9	0.146339557	0.139704754
PITPNB	28.12634679	29.18462962	MAP3K6	12.30808458	9.722545795
ZMYND8	18.41699661	17.84388931	SCXB	1.101953269	0.511362499
PITPNA	33.44527171	34.89169939	MAP3K7	10.23487269	11.33521774
MKI67	19.28501586	21.80678061	MAP3K4	2.213051402	2.479450186
GBA2	15.14341959	16.85516837	MAP3K5	5.528029122	4.192915316
KIAA0930	5.545505253	5.764132261	FBXW4	4.258262294	3.518935621
C12orf61	0.840398247	0.738795023	FBXW5	41.96256608	38.74917063
C12orf60	0.460272378	0.768826852	FBXW8	4.198319069	3.866719655
SYNPO	16.60375922	12.25685758	FBXW7	2.000494399	2.292057402
BTRC	5.26780184	4.725293616	FBXW9	7.128526246	7.937397229
C12orf66	2.234193836	2.076891165	SRCIN1	0.18105873	0.131569503
C12orf65	6.920795576	8.97411033	FBXW2	7.864979674	8.454869346
C12orf45	7.36649694	11.60992616	TSNAXIP1	0.255078439	0.196887747
C12orf49	6.971634442	6.680356119	API5	18.79678327	21.68267442
KIAA0922	2.515402262	2.543242251	APIP	10.66911738	11.36176563
UHRF1BP1	4.074679864	3.003457002	UNC45A	19.41621693	16.78403276
TXN	200.7453399	234.6480077	CERS4	0.177308448	0.1
C12orf68	2.449332491	1.571739528	CERS5	8.938591546	6.871713836
SYNRG	3.601782987	3.199194416	CERS6	2.890551734	3.061685724
GBAS	35.84890766	41.65509135	RNASSET2	3.882052964	4.017143948
ZZZ3	9.564054969	10.41227053	CES4A	0.476610143	0.219514027
VNN1	0.248663904	0.30264763	CERS1	7.187957648	6.582053276
VNN2	0.615097647	0.607899348	CERS2	107.3720354	115.4214466
C12orf73	2.553425123	4.085323639	PRKAA1	13.11313663	13.9831967
RBAK	2.772505013	3.112379241	PRKAA2	0.433305883	0.528375743
C12orf76	2.082485129	1.914783081	UHRF2	17.87757907	17.07782948
KIAA0947	9.394755392	9.588228464	UHRF1	14.01757457	16.03269721
C12orf75	23.983896	25.272981	MLLT1	37.84395772	41.48407973
TENM2	2.177040354	1.673254519	MLLT3	0.583303374	0.477952963

GBE1	13.07524633	11.11214356	MLLT4	3.80414337	3.815124876
SEC61G	83.93553709	88.69615226	MALT1	22.93583964	23.43318922
SEC61B	145.9703115	149.5327264	MLLT6	8.405625603	8.320313834
SCNM1	9.917171764	9.902822812	SORL1	0.123672322	0.103380495
C12orf10	36.14520699	44.06345621	APLN	9.99394667	6.474121607
AVPI1	3.272312172	2.524977817	CDKN2AIPNL	26.48992299	35.74471311
C12orf39	0.812882017	0.354505428	APLF	1.017819391	0.967361641
RBFA	2.688873285	3.908046994	PEG10	14.68529354	10.49735241
C12orf44	43.33850192	38.38159251	FBXO4	8.053257307	8.028851233
C12orf43	4.040748574	4.247994366	FBXO3	2.73208297	3.28874269
C12orf23	15.5659096	13.23341592	FBXO6	16.01028792	7.753212879
MTX1	18.21291458	20.64725871	FBXO5	18.01661882	21.53657539
MTX2	9.987711635	11.21426964	FBXO8	5.3478084	5.163556225
C12orf29	4.908294946	5.740275093	FBXO7	58.59042981	59.54025699
MTX3	1.672692542	2.102560939	FBXO9	10.12899012	10.94023201
GBF1	27.77980563	21.63946306	FBXO2	1.644906779	1.419384336
NR6A1	0.820728361	0.835161844	BCS1L	10.14913787	13.36437353
COPG2	10.17960527	11.43826135	FLYWCH2	16.38907096	18.49200714
COPG1	128.8796781	105.8678486	FLYWCH1	8.248607747	7.567876003
FRA10AC1	2.790904602	3.066092277	CERKL	0.968486393	1.283856367
GOLGA6L9	0.284309636	0.397531489	AARS2	4.315201896	4.816280434
BMPER	2.258182645	1.552504619	SDC4	45.86802128	36.61212989
HIST1H2AE	1.665907285	1.152316771	SDC2	7.985860981	7.742356187
HIST1H2AD	0.813056743	0.681869273	SDC3	6.947707861	6.032458914
HIST1H2AG	2.290716499	2.260102046	CWF19L2	2.285754946	2.633260129
HIST1H2AC	20.08126038	15.65780962	APOO	13.58248375	18.07210708
HIST1H2AM	0.953409067	2.080386695	APOM	1.055739655	1.074879532
HIST1H2AL	0.321069264	0.573542547	APOE	1.527925155	1.239513593
HIST1H2AI	0.543081254	0.811828349	CYP26A1	0.123140881	0.166092056
IL11RA	16.83205542	14.42803941	FBXL8	1.00971592	0.888743996
HIST1H2AK	0.438812676	0.422557967	CWF19L1	10.02460779	10.25757456
HIST1H2AJ	0.218340039	1.282957463	SDC1	43.2796675	42.92782259
CDPF1	6.889878693	6.613854918	FBXL3	8.560929302	9.120080419
RSBN1	2.786999158	3.216967702	FBXL2	2.518618746	2.293678276
HIST1H2BF	0.220816923	0.1	FBXL5	10.55013338	9.017258389
HIST1H2BH	2.05581278	1.671047038	FBXL4	2.845501041	2.545664625
HIST1H2BG	2.084655525	1.183649798	FBXL7	8.836277801	6.873929185
HIST1H2BD	6.937169138	4.421650428	FBXL6	15.05873345	16.6573182
HIST1H2BC	1.997763542	3.233525453	MRPS17	24.74582764	40.92890304
ZCCHC8	5.032624183	5.02554733	MRPS15	87.90573342	103.2333138
ZCCHC7	11.3123738	12.32495833	MRPS16	45.26644809	52.88243539
COPB2	94.44624473	79.97641342	MRPS14	9.552020442	9.435724433
ZCCHC6	6.087232668	5.918574506	MRPS11	16.30117433	19.41478925
ZCCHC5	0.217714374	0.156033484	MRPS12	70.17157395	88.0868116
COPB1	47.37715062	43.42258491	MRPS10	21.63307602	25.63257326
ZCCHC9	10.19438548	13.87309911	SDF4	201.465871	196.3971918
ALOX15	0.1	0.1	SDF2	20.54855375	17.35530542
ALOX12	0.628766178	0.980947119	MRPS28	34.04835921	39.03051103
ZMAT2	69.43708792	73.57687017	MRPS26	24.85060838	34.44512787
UBB	1052.577209	1100.490009	MRPS27	35.8935649	48.78362936

ZMAT3	1.605007914	1.854371296	MRPS24	163.2688096	164.7320105
ZMAT5	17.04828687	17.73139941	MRPS25	6.551242673	8.833295803
UBC	269.8887716	199.3232346	MRPS22	31.04969692	41.41355169
LOC646021	5.193262449	5.848305321	MRPS23	21.75797204	24.41507676
ZCCHC4	3.183272069	3.7338225	MRPS21	59.60782635	76.50434747
ZCCHC3	5.97488163	6.755169357	PRPF40B	1.047967275	1.339332203
ZCCHC2	3.854876822	2.202044707	PRPF40A	12.0802626	14.19262955
GLP1R	0.1	0.1	APRT	45.35619295	62.84292048
UCN	1.029209832	0.522210021	SDE2	6.255364571	6.484378813
THRB	0.501352015	0.474001675	C14orf2	26.10384222	39.6510002
THRA	6.663130135	5.987033084	C14orf1	17.8443972	18.64708309
RBM3	65.81273888	70.92374417	DYNC1I2	19.81417964	19.04205948
RBM4	28.91698665	33.18463494	SELPLG	1.30129943	1.028057228
RBM7	8.78625351	8.33985078	MRPS35	23.07686947	28.41436617
RBM5	14.64924574	12.65375881	MRPS36	13.82076615	17.99116668
RBM6	9.878911522	12.34449664	MRPS33	25.23996111	28.69134792
RBL2	5.639626546	5.991337076	MRPS34	58.69729619	81.74058375
RBL1	5.935272629	6.287794639	PRICKLE2	6.891995836	6.349221458
RBKS	1.056425183	0.953631439	MRPS31	10.34282085	15.17037072
HIST1H2BN	0.678522015	0.843535625	PRICKLE3	10.88649395	11.21253199
HIST1H2BO	0.322489409	0.656015339	MRPS30	36.83919647	46.36775338
HIST1H2BJ	3.988245262	1.950852366	PRICKLE1	0.773286626	0.838277781
HIST1H2BL	1.93492369	1.410169225	PRICKLE4	2.498722388	2.398666434
HIST1H2BK	83.1353545	55.67493073	DYNC1I1	0.117055574	0.136533979
MUC1	44.75887792	41.23052811	MAP3K2	1.930481976	1.796025813
POC1A	18.52471402	19.70247511	MAP3K3	6.642529794	6.751171282
POC1B	3.949430835	4.497702936	DYNC1H1	86.22174032	64.74576756
BUB3	43.17971303	49.36652823	MAP3K1	1.420912394	1.117225537
GBP2	15.49809201	10.71756559	SORT1	2.568256671	2.588376202
GBP1	78.91264215	23.71864613	APTX	13.0578796	14.79058955
BUB1	25.20406866	29.66515225	HDGF	255.8952904	306.2395365
GBP4	6.787300258	2.568920092	MAMLD1	13.70178888	12.53965977
GBP3	4.242348905	1.245675476	NCMAP	0.1	0.118588908
CAPN12	11.88824118	12.09721833	ZNF81	1.111393991	0.883513371
CAPN10	4.462020987	5.543470679	ZNF83	4.346934554	4.283459515
KIAA0907	10.5255364	11.32271717	ZNF84	2.886326652	2.640978731
FSIP1	0.118468282	0.245053618	ZNF85	2.46044629	2.720034042
RBMX	99.26632511	124.453943	IGFLR1	7.91875406	6.582174524
RBPJ	9.106737323	9.700042005	DNAJB12	21.47628232	18.57051256
ZFYVE28	3.144977159	2.690677224	SDHC	30.49644906	30.86822865
ZFYVE26	7.053685135	4.240744131	DNAJB14	1.765105031	1.7327774
ZFYVE27	4.935844858	4.489050799	SDHD	32.97408674	43.73733385
UBASH3B	34.37294152	28.19333634	SDHA	131.9127797	126.4995353
GBP5	3.228359226	1.537261621	SDHB	77.0581796	93.65579812
GBP7	1.687752964	1.082526814	ZNF91	1.467138868	1.536745873
ZFYVE20	5.008843332	5.271408911	ZNF92	1.763311381	2.131188633
ZFYVE21	14.68220979	14.45029786	ZNF93	4.43237206	3.631513315
RBP7	0.1	0.156632315	DNAJB11	47.34521103	46.5720282
RBP4	6.061621948	5.966386936	RNASEH1	8.622677393	8.848790501
ZFYVE16	6.128308555	5.654126499	LPXN	3.03125593	2.211657823

RBP5	0.37633658	0.336771273	FGF21	0.1	0.156545985
NGFRAP1	0.148462012	0.1	IFT20	12.30738526	14.90439816
ZFYVE19	7.82526688	7.13369363	FGF18	0.938769356	0.886051957
RBP1	0.414432746	0.374402036	IFT27	0.1	0.1
CEP85L	0.623661255	0.687563046	FGF12	5.325419987	3.380436464
THY1	365.0376728	298.9115372	FGF11	0.253079269	0.318602821
EDEM3	9.899615123	10.3355736	MYSM1	3.291907648	3.830694342
EDEM1	7.386519101	6.430062487	IFT52	19.73293034	20.56269227
EDEM2	34.60404211	31.46190658	CYP26B1	0.47629327	0.621076961
PTRHD1	18.80972562	25.52117682	LASP1	63.79160996	50.75230497
COL1A1	54.72465971	32.51906205	EEF2K	1.761151193	1.941696324
COL1A2	171.3539138	141.785867	GGACT	6.598759442	7.676739693
HIST2H2AA3	1.364731462	0.447323653	IFT57	10.43186495	13.24451408
HIST2H2AA4	0.683722213	0.655717845	QRFP	0.520568497	0.653172482
TUBA1C	723.269804	745.4228341	EEF1G	413.4470587	532.7558257
TUBA1B	1353.441138	1468.207957	IFT43	8.867722787	8.267192746
TUBA1A	310.401872	287.7895287	EEF1D	173.5376557	201.5101882
HEXDC	2.456321418	2.183041729	IFT46	8.162838187	7.736452343
RILPL2	5.385635149	5.295768224	POMZP3	6.794752188	5.549400701
RILPL1	6.831491681	6.74415324	PSMB10	24.52639564	16.61907201
ADSSL1	1.93492369	0.816498795	IFT74	10.98799218	13.05134867
MIEF2	5.95027878	4.935259609	NWD1	0.113590916	0.129112491
MIEF1	16.490801	20.08479104	WARS2	4.730123158	6.573273
UNG	17.36872056	22.77441349	MSANTD3	16.24664489	17.21582867
UNK	4.874968103	4.636938001	MSANTD4	0.977082973	1.161907865
GBX2	0.372403699	0.71128963	ZSCAN31	0.227566058	0.145542254
ASPRV1	0.267045907	0.134078242	ZSCAN30	1.90502596	1.533920828
SERBP1	57.84241577	80.79790882	MSANTD2	2.077384245	1.877202532
MUM1	10.73942219	10.74789374	ZSCAN32	3.318084436	3.695077753
SMCHD1	4.778730087	4.189255404	PRKCI	5.620620956	5.743113323
AREL1	13.55294776	12.78491045	PRKCH	0.3222673	0.226962349
PPP1R16A	37.29280002	40.50568689	PRKCE	4.649611655	3.986489506
MUL1	21.59489369	18.23962072	PRKCD	1.813455922	2.067592629
TUBA4A	2.116516153	3.024189971	AFAP1	18.72088885	16.03569198
RBX1	45.3996786	50.377744	PRKCA	7.712017208	7.078948026
RBMXL1	3.950133953	4.052238661	ZSCAN20	1.626917884	1.41344768
TUBGCP2	16.57874021	17.35102186	DAAM1	1.612895035	1.564725219
TIA1	6.005531206	6.73209185	PRKD3	8.670001097	9.228958247
GAREM	0.1	0.1	SDPR	0.131960183	0.134230236
UST	10.0382994	10.14440072	DAAM2	0.1	0.1
TUBGCP5	2.981532279	2.977038895	ZSCAN22	2.684696313	3.167878486
TUBGCP6	4.458954679	4.611125335	ZSCAN21	2.106494178	2.11955209
FGFR1OP	4.688844058	4.895632297	PRKD2	16.93619557	8.701396489
TUBGCP3	10.72368467	11.20836276	ZSCAN26	4.6947042	4.360993014
TUBGCP4	3.637681208	4.426487337	ZSCAN25	3.456704721	3.622623737
MOXD1	3.433497535	3.273571308	FREM2	0.199640511	0.178030171
PPP1R13B	0.665712635	0.668492968	ZSCAN29	2.074060397	2.025498702
PPP1R13L	18.77623623	14.33712688	LIMS3L	0.262856668	0.172676658
PPP1R12A	10.70525112	10.94896322	PRKDC	40.05660432	43.67445577
PPP1R12B	0.946606586	0.763627807	PRDM15	1.622296826	1.468340504

PPP1R12C	21.61641421	23.4199075	PRDM13	0.164858024	0.192619641
PPP1R15A	42.98214931	31.32572276	SDSL	7.265693376	4.704793042
PPP1R15B	12.24330322	10.87313035	PRDM11	0.182201388	0.175956036
KATNB1	8.622262645	9.571403046	PRKCZ	0.1	0.147571871
FURIN	7.367671151	6.340779283	PRDM10	2.187254722	2.282700066
MIEN1	72.78213302	65.20314231	ZSCAN12	0.255506931	0.236658222
KATNA1	6.711505571	9.336223469	ZSCAN16	1.891423344	3.995468862
TIFA	2.466800773	2.236566031	ZSCAN18	14.34270243	12.23254052
PPP1R14B	172.3761191	219.6583777	MEX3D	33.73161615	29.12455809
PPP1R14C	0.1	0.133554198	MEX3C	10.67337675	11.5990124
CDR2L	8.327577802	8.838529531	MEX3B	2.116239361	2.317243361
MURC	0.720463928	0.710652832	MEX3A	3.518740141	5.254659604
GCC2	1.246695808	1.322826175	ASH2L	33.5697308	33.99905548
GCC1	7.731758258	6.114784931	ASGR1	0.272710362	0.223318372
UXT	11.53329262	42.39785229	ZSCAN5A	2.687515246	3.077578136
DHX57	3.886097204	4.477572406	ASH1L	4.988909027	4.58633367
DHX58	10.78008675	3.21834794	ANGPTL6	6.868391133	3.844463318
RCC1	36.20050247	53.54778737	ANGPTL4	33.336075	36.7392556
GCAT	9.328925553	10.4951794	PAPSS2	8.570024162	6.609266589
DHX40	9.237871189	9.355839119	PAPSS1	19.45399658	20.67544229
MXRA8	0.651661308	0.493896309	ERMP1	4.642453913	3.86428348
MXRA7	6.210607856	6.144857704	GTF2B	18.41716757	18.2524643
PEX11G	0.497248507	0.982444055	GTF2I	16.32215033	15.57677611
MMADHC	31.37199345	35.02582243	MAP2K3	41.84503352	43.33578677
GCDH	6.051746481	7.446571872	MAP2K4	10.18710568	10.81736947
PAXIP1	5.604056351	7.391686262	MAP2K1	10.02418052	9.524155907
PEX11A	0.990485054	1.114610672	MAP2K2	145.0482572	137.8874996
PEX11B	12.47056375	12.65858345	RALGAPA1	1.313046729	1.468011802
PTTG1IP	156.2663475	130.8877819	RALGAPA2	1.052691258	1.022358048
DHX30	37.57408682	44.15157538	GTF3A	70.18242065	88.44963795
DHX32	10.05027715	10.06830199	MAP2K7	15.734336	16.85572759
DHX33	11.94577889	16.13804372	MAP2K5	3.282482113	2.905177755
MIER3	4.770226205	4.588921377	MAP2K6	1.11865249	0.976533841
DHX34	11.71477542	14.48905747	TCP10L	0.138525233	0.127507724
MIER2	12.23083449	10.14750087	PRKG1	1.605609162	1.513058317
MTERF	3.94290537	4.010064673	ALDH9A1	17.20236038	16.37692012
DHX35	4.763489854	5.6718945	LEPROT	15.11469379	12.94777988
MIER1	6.413907863	5.623260706	DGCR14	6.062096411	5.776061825
DHX36	11.88291217	12.70441481	ABLIM1	2.344075133	1.78711284
DHX37	12.38292112	13.68733795	ABLIM2	0.153351761	0.176188275
DHX38	14.62162996	14.24975041	ABLIM3	0.241012288	0.167123576
RCE1	19.38307086	19.39098377	HDAC10	3.362547871	3.457248139
ZBED6	1.124889138	0.945343243	HDAC11	4.853595254	4.650963499
ZBED5	5.141605135	5.93275652	AQP5	0.1	0.140651141
ZBED4	7.244517549	7.944477696	AQP3	0.821931161	0.218955103
ZBED3	2.186837764	2.060579608	AQP1	0.137015516	0.166074396
RCC2	25.94960434	29.79693071	DYNC2H1	0.919145618	1.045022556
URGCP-MRPS24	77.84093237	83.36268088	CPT1A	20.82908367	19.47681172
DHX29	8.996641664	10.74809063	IFRD2	30.44801955	44.42304351

IKBKAP	7.144096927	8.557518424	IFRD1	21.26533506	21.36309468
DHX15	72.7043211	81.66780838	CPT1C	22.14828731	18.52409182
DHX16	8.449616038	8.21093388	CPT1B	1.799837283	1.46542943
STARD3NL	23.20915733	23.64783245	NIF3L1	14.70465472	18.657923
GCH1	0.650406557	0.493000394	HECA	4.46239152	3.61078036
MAD2L2	79.25237095	74.1448901	RTEL1	6.009774532	6.38248512
MAD2L1	32.36181526	46.63537954	TRANK1	1.069295601	0.322459064
PHRF1	5.212946997	5.424409795	STRIP1	13.18731344	13.16055645
TPRA1	17.90062685	15.25014927	STRIP2	1.156291849	1.057268805
RPP25L	20.27708398	24.16744902	OCEL1	10.71882197	11.45605087
VCL	84.23306819	75.25443109	TMED3	83.82839092	83.34807466
VCP	177.2378343	168.0282413	DGCR6L	22.59656776	20.36920337
NDRG4	0.172965277	0.193777386	TMED2	76.26934776	77.59443862
NDRG3	23.90535015	24.68820219	TMED1	30.43497597	27.68449279
NDRG2	0.1	0.115784752	TMED7	35.50563277	32.91231436
NDRG1	0.563050485	0.398630435	ERMAP	4.471169272	3.460412366
TAF5L	13.11606046	13.23845074	TMED6	0.265801948	0.573542547
VDR	0.717977125	1.166346966	TMED5	19.90346102	21.59116049
NFXL1	2.482597637	2.257411151	TMED4	98.46176218	91.74654559
GULP1	9.528002586	9.387431022	ZYG11B	2.486071176	2.669214015
RCL1	7.314132412	13.70006093	TMED9	344.823773	284.9736713
GCLC	5.863280923	5.139280902	ZYG11A	2.240815909	2.940035668
PQLC1	19.21414908	19.93021462	TMED8	4.366711332	3.941640524
PQLC3	7.467040327	5.652435588	HEG1	15.83215053	11.31734493
PQLC2	14.50649608	12.37831907	SDCCAG8	4.606281954	4.550732969
TAF4B	1.324698594	1.966029408	SDCCAG3	33.46761295	43.94564745
GCLM	15.91860613	15.3527736	DTYMK	42.16807292	47.62594161
CNRIP1	13.49084467	15.4537915	TM4SF18	20.58649785	22.31605435
GATAD1	4.722160601	4.199159542	TM4SF19	0.149056919	0.1
GLRX3	29.84133756	39.60857936	PRKRA	13.45578474	13.13939734
GLRX5	38.74181234	50.65703605	MYRFL	6.187880668	5.7013212
GLRX2	20.94464817	25.97432579	HELB	0.425118813	0.602971745
RCN3	32.68863815	29.27114039	ACYP2	1.967529564	1.675895949
RCN1	85.31578699	75.68894673	ACYP1	12.65377901	17.02600128
PSRC1	32.93602156	36.5661611	C15orf61	5.787803647	7.736193037
RCN2	7.983210975	10.75209624	LARGE	0.585631502	0.406430068
VGF	38.45807172	33.8523494	C15orf65	1.412598753	1.678475156
MMRN2	0.283789895	0.435363924	C15orf62	0.35046819	0.278838889
TAF1D	8.256984037	12.59666269	LONRF3	0.57647151	0.89382196
TNKS2	9.986806616	8.944895218	LONRF1	3.274478141	3.7328271
TAF1B	5.658944818	4.714585266	CPSF4	15.83332758	16.37186588
TAF1C	3.8390174	4.537011261	CPSF7	28.04775855	28.63474768
TAF1A	2.795335835	2.571686556	CPSF6	14.13024231	16.82766055
VHL	12.87135559	13.64425147	HELQ	2.61902133	2.504906442
TAF15	42.44823399	51.28012978	CPSF1	39.16984456	38.2781666
TAF12	21.72547987	24.00285691	CPSF3	19.14115451	21.45408844
TAF13	20.35829691	19.64354682	CPSF2	14.67544699	16.29213011
TAF10	67.75747699	74.24292945	HELZ	1.296638914	1.146068263
TAF11	14.56786523	16.05856573	SELO	8.42566901	9.297430404
VIM	1918.592221	1654.342701	BAMBI	66.66634039	41.04559062

RPL26L1	33.40081854	39.83609909	SELM	72.50098369	58.13009209
RAPH1	4.173361993	3.527281306	SELK	14.8343475	15.38207091
GCSH	6.585465006	10.13327252	CRYL1	2.169069074	1.760590953
BVES	3.07690989	2.352169601	FGFR4	0.387678081	0.716222305
ANKHD1- EIF4EBP3	12.00977891	10.48761055	SELT	24.63172047	24.28029457
SLAIN2	14.25103244	13.68167521	FGFR3	0.533428962	0.340703743
A1BG	10.6608768	10.53929818	FGFR2	5.44841921	5.596615621
SLAIN1	0.651074298	0.851183693	FGFR1	29.47778064	25.47432565
GSDMD	16.53826169	9.209296257	C15orf39	7.115277393	6.545924137
GSDMC	0.463697223	0.291347946	C15orf38	2.630302639	2.575612508
GSDMB	0.516518984	0.559621593	OPLAH	8.225081233	6.891498621
TMEM190	0.1	0.1	C15orf40	2.462540308	3.262932218
TMEM192	4.584337145	4.927605609	C15orf41	1.981857432	2.258465932
TMEM198	4.031200897	1.797225377	C15orf48	4.406559162	2.668955895
TMEM199	12.32593889	13.36071641	SMKR1	1.10388941	0.995994352
ASAH2B	1.358103253	1.357632369	MYRIP	0.1	0.1
TMEM180	4.059211634	4.073010589	TMEM2	5.213095174	3.989684143
TMEM181	6.645649128	7.632926835	TMEM5	7.580595282	9.169775086
TMEM182	0.201354219	0.265414342	TMEM9	63.48756483	61.35183124
TMEM186	3.364893788	4.89047588	C15orf52	0.538860046	0.385500434
TMEM187	13.75006558	13.36222138	C15orf57	3.94222986	3.13322088
TMEM189	21.43055766	17.95900873	C15orf56	0.368545135	0.396334974
TMSB4X	3621.657381	3579.008844	NXF1	16.76148984	18.18642489
LDLRAP1	8.399908156	7.95781745	SAP30L	12.28190735	9.886848118
GPRASP2	1.050328237	0.985887099	HES1	11.76325725	13.68342156
TMEM171	1.164887083	0.806038302	HES2	0.1	0.117406929
TACR1	0.132619052	0.177635342	HES4	27.53829175	13.50263668
TMEM173	17.20212152	12.63526995	CRYGS	0.470199123	0.892986925
TMEM175	19.01017291	14.86547968	C15orf26	0.584620121	0.399890647
TMEM177	5.181540326	6.310818387	ZFYVE9	4.450106927	4.148583681
TMEM160	49.97103617	54.3536382	C22orf24	0.641593104	0.754427952
TMEM164	5.723451804	6.022652295	ARAF	29.13464581	29.52359608
TMEM165	26.77565569	28.26871714	C22orf23	5.326486617	5.193917186
TMEM168	0.760635827	1.209011191	C22orf29	6.794550386	5.388783904
TMEM169	0.143595477	0.172631934	ZFYVE1	14.92670015	11.11594338
TMEM154	0.1	0.1	C22orf26	0.269775415	0.382853119
TMEM158	302.0825169	237.2711991	LRAT	0.213973683	0.188777422
TMEM159	5.442338811	4.660480211	HES7	1.489897422	2.481789505
ZFP36	28.15131736	25.50696313	HES6	7.74619895	5.738109164
ZFP30	1.001345079	1.169946671	HPCAL1	34.03713956	34.50823824
ZFP37	1.121068812	1.444993487	RNASE4	1.988639679	1.311716703
TMSB10	4208.261218	4254.693118	GAPVD1	7.83460846	7.36029321
SYPL2	0.69113652	0.738031437	C22orf39	7.641738236	8.243079474
SYPL1	49.20341254	47.15478382	RNASE1	0.157595651	0.1
ZFP41	7.442707065	6.046511109	C22orf46	4.548491255	3.798232447
PHPT1	46.95927836	45.82339218	SDR39U1	18.62301797	20.30030498
MAD1L1	46.47287105	40.12051383	MCTS1	3.363871217	3.987896056
ILDR1	0.117988669	0.1	LRBA	1.528864972	1.562703714
HMBOX1	1.877086407	1.902756366	NETO2	13.56624379	16.69793134

ZFP57	0.1	0.1	SETX	5.993049657	4.634464797
ESRRA	22.04745092	27.83650179	DCHS2	0.624642609	0.68271805
ZG16B	0.1	0.189599435	DCHS1	0.119266188	0.103439103
ZFP69	3.664751503	3.575559283	ARF3	91.12251744	90.56512933
ZFP62	4.721907842	4.478660272	ARF4	211.159527	179.878795
TADA3	52.98783234	52.98114959	ARF1	348.4867647	324.4290623
ZFP64	10.51254525	11.51358959	HEXB	170.9297908	159.1697752
TADA1	3.957653737	5.625364904	HEXA	29.94480417	28.746377
ZFP82	3.93279681	3.55985342	AREG	0.225891624	0.279777865
DHFR1L1	1.424500378	1.816982444	IKBKB	14.82800711	13.37133053
AIM1L	0.109904915	0.1	HEY1	14.00626373	12.20187113
PDCC1	2.648148813	2.931161434	IKBKG	5.780374242	5.551643723
HIF1AN	7.353035631	7.039056259	IKBKE	3.389948456	3.217874647
ZFP91	17.7679714	19.11683454	IKBIP	17.10492463	15.08078754
ZFP90	4.987797506	5.282332755	ARG2	8.046106473	7.945762558
ESRP2	0.410079743	0.358303072	RRAS2	26.73997707	23.91236754
ESRP1	0.222848527	0.158477403	GPRC5B	0.354351417	0.622133306
SNRPA1	26.2473377	32.78069598	GPRC5A	70.30984573	47.12150703
SNRPB2	24.26769696	29.71354611	GPRC5C	0.465693107	0.385590809
CDRT4	0.827900198	0.486088199	ARF5	72.52842264	78.92510312
ERVMER34-1	0.239232903	0.186987994	ARF6	53.93729693	55.22801442
TXNRD3	1.506012635	1.421614691	RNASEL	0.210247935	0.126239684
TXNRD2	11.01001333	10.97091892	RNASEK	289.3190254	257.8828046
TXNRD1	65.7852437	62.97469829	STAU1	54.07499992	52.41004767
MMACHC	6.188325091	9.197832335	STAU2	11.50093267	11.7342794
CBLN3	1.09650787	0.748278266	PROKR2	0.1	0.1
VIPR1	0.62492607	0.392817857	STAT6	23.75282316	20.03914803
GDE1	21.39701651	20.42159121	STAT1	190.7689044	76.42374396
C21orf2	3.650338233	2.99305852	STAT2	15.19986777	5.742470013
RAPGEFL1	1.394988014	1.855381184	STAT3	62.47254806	49.95013018
TRMT44	3.641302787	3.879799083	HEYL	0.1	0.1
ZFPL1	35.7837054	33.63462498	LRG1	0.1	0.120839419
AGFG2	2.691624709	2.713785561	UBAP1	40.34520939	39.77974988
AGFG1	14.71755921	14.34173569	UBAP2	27.84615353	30.13726948
DOPEY1	1.40140127	1.009537457	CCNT2	1.930634294	1.848756842
DOPEY2	6.788318069	4.403743037	CCNT1	7.269995424	7.037798561
CARHSP1	12.73586909	13.53529614	ERO1L	14.97909685	14.66870575
PDE12	9.857940829	12.33466488	PITX2	2.041266458	2.573655232
WTH3DI	0.411679327	0.292197752	PITX1	111.393021	90.52384025
ZFPM2	2.754107886	2.283463802	PITX3	0.137428874	0.126724904
CBLL1	8.991106448	10.22781896	KHNYN	11.22775468	10.42205755
ZFPM1	3.36999707	3.167336172	ADCYAP1	0.377034595	0.308218727
NECAB1	0.767078654	1.117563702	NPTXR	0.904061037	0.393436224
NECAB3	9.094017054	9.196166301	PFKFB2	2.046428446	1.725787009
PDE1C	9.340526518	8.102410372	ARL9	1.621805083	2.16078701
TRMT2A	15.42788848	16.89548314	PFKFB4	3.099102446	3.053324858
TRMT2B	3.313179909	3.760402678	PFKFB3	36.05575222	33.63930858
VPS8	4.872632373	4.010529567	ARL6	1.914773492	1.627861902
TRMT1L	7.572121053	7.539029696	ARL3	7.475633024	8.708067989
GDF1	5.238261562	5.276941878	ARL1	20.55924984	18.63199189

IFNLR1	0.1	0.1	ARL2	127.9107437	134.6988315
HSPBAP1	2.133383314	2.325411958	RAP1GAP	0.169509335	0.149630942
GDF5	0.75402363	0.426889421	BCL2L12	24.0292384	30.14159887
GDF9	0.325629867	0.489334354	BCL2L13	21.56077693	16.76057152
CORO6	5.658659823	4.959365951	SBNO1	4.14593782	4.202713423
TRMT12	8.945757971	11.2783771	SBNO2	35.37300062	32.55647082
TRMT13	1.885153647	2.661067152	BCL2L10	0.1	0.1
TRMT11	4.196516464	4.715403165	BCL2L11	2.079190044	1.513178052
CORO7	1.670588514	1.666133677	CPAMD8	0.1	0.1
GDI1	149.9650904	133.6748813	NPTX1	22.63101179	9.801656116
SH3KBP1	25.38891368	24.24311865	MFHAS1	11.23950495	11.07708611
GDI2	128.3197147	137.2499892	CNTNAP3	9.981435223	6.913321651
ZBTB8OS	10.66724371	13.62933516	CNTNAP1	10.44093187	7.392534552
ATP6V0B	98.81889453	99.32894166	FAM47E-STBD1	4.666958662	3.579093363
BBS10	3.76834303	5.007238283	NXT1	28.70343361	35.73298147
BBS12	1.371534751	1.256490612	COX4I1	188.5729357	207.8722932
WAC	34.29278003	35.59117722	PIK3CD	2.644278026	2.362257409
RDH5	0.603253801	0.404050542	PIK3CB	5.005910986	4.934253272
KPTN	4.993514834	7.022193332	NXT2	3.306157892	3.115785868
ATP6V0C	136.7582743	119.4614822	EIF3CL	7.076751903	7.705944325
WAS	0.326985372	0.24181276	ARNT	12.82426772	12.42206778
TLDC1	3.789264445	3.617055229	PIK3CA	6.203838165	5.367335946
TJP1	8.08190845	5.975227269	PIK3C3	7.023451379	7.799245309
TJP3	0.116635055	0.218777349	LRP1	33.1215631	19.13860257
TJP2	22.10366193	24.29590144	LRP5	1.380801443	2.083795726
AMY2B	0.67929613	0.927256159	LRP4	0.169462021	0.18566782
TMEM140	7.658847599	5.53325743	LRP3	10.98757157	11.735812
TMEM141	24.92520228	23.87831165	LRP8	5.126251004	6.19101174
TMEM143	1.301185595	1.320528367	LRP6	2.217201273	2.111949321
RDM1	0.1	0.1	PRIMPOL	5.487539834	5.304497389
TMEM144	0.585379622	0.524827702	PCBD1	22.66730421	26.64850859
TMEM145	0.770903633	1.120558193	PCBD2	2.131736232	2.237048262
TMEM147	144.4449559	153.1998349	CNNM2	4.035327794	3.334031639
TMEM14A	18.37251811	20.67538478	CNNM3	3.184992694	3.595016449
PDE8A	6.497504539	6.347058407	CNNM4	3.58506483	3.214364368
TMEM14B	37.90096774	44.46416479	METAP1D	0.980530118	1.695968036
TMEM14C	73.71587858	70.19453642	EIF4A2	62.82065856	66.14762428
TMEM131	12.66711425	10.68809706	EPHB6	0.112846508	0.1
TMEM133	2.003387303	2.418385386	EIF4A1	290.0252138	337.9197531
TMEM134	9.378473543	9.264097702	TAS2R20	0.154285556	0.255043537
TMEM135	1.730629288	1.738189497	LRR1	14.56175496	17.63714014
TMEM136	1.310876917	1.288809001	ULK4	0.798299648	0.748969837
TMEM138	21.08899205	28.7655026	EIF4A3	42.07447465	48.36092208
TMEM139	0.208958215	0.255596335	TONSL	11.67541188	14.60903598
LMX1B	0.108943239	0.106385637	DNHD1	0.56831289	0.496769083
PDE9A	0.1	0.13599628	PALM2-AKAP2	10.38799726	9.799046509
ATP6V1A	10.99246238	11.92361404	NUBP1	10.23191183	14.04994283
SEL1L3	0.294146342	0.246778411	NUBP2	17.30240959	16.33089107

TMEM121	2.676096379	3.124758454	BAIAP2L2	21.0048877	21.27714828
TMEM123	38.60761784	41.68886319	BAIAP2L1	3.667226648	4.011564662
TMEM125	0.125654952	0.118318107	BCAP29	7.740896942	8.314056167
TMEM127	13.50349733	10.49411972	CCNL2	18.06225433	20.68633529
PODXL	19.56436547	16.64484116	EPHB2	0.121339609	0.115236873
TMEM128	6.128987686	5.989662643	ACAD11	3.22642668	3.50064628
TMEM129	8.596789749	8.285036315	CCNL1	18.15410777	17.7746283
ATP6V1H	62.46054473	54.94370772	EPHB1	0.133323462	0.1
SUDS3	5.528073356	5.843005423	ACAD10	4.033977877	4.444361804
OR2B6	0.541199804	0.139378096	EPHB4	40.54104232	37.10891183
ATP6V1D	36.7190341	35.05806801	EPHB3	0.124621458	0.108790087
ATP6V1F	174.3307208	176.2632372	EPHA5	1.278327265	1.130760585
TMEM110	6.48189856	5.819399202	EPHA4	6.324689751	3.781456191
GDNF	2.202466823	2.598771507	ARSA	9.238127283	5.447061729
TMEM115	41.51223511	40.96555395	EPHA7	1.077409636	0.719724932
TMEM116	7.974096681	7.05383514	ULK3	6.67967409	7.360558093
TMEM117	0.550394532	0.71844225	ULK2	1.958854095	1.528728142
OR2A7	0.1	0.1	ULK1	2.995025201	2.877445227
POC1B-GALNT4	0.733321608	0.666941404	EPHA1	0.1	0.1
ELAVL1	17.57717109	19.8839635	EPHA2	121.5511816	102.5113407
ELAVL2	12.08875623	12.33770747	PIK3R4	7.512773992	8.425759465
TMEM100	0.1	0.1	SUPT4H1	23.49505218	24.6839768
TMEM101	14.46467003	15.44441737	PIK3R3	16.66032776	15.09454048
TMEM102	4.233984027	4.179794252	PIK3R2	16.61054282	17.64466291
UPK1A	0.175952159	0.1	PIK3R1	18.81735613	13.65067174
TMEM104	10.37210972	9.512185774	ART3	0.1	0.1
TMEM105	0.1	0.1	PIK3R5	0.1	0.1
TMEM107	7.120442835	7.013383448	RAB11FIP1	0.68855189	0.869647287
PDE4B	4.84479476	4.625781372	PCBP3	7.178328839	6.086539639
TMEM108	1.915252084	1.381394662	PCBP4	30.06216358	29.44839486
PDE4A	2.067604338	3.065049483	PCBP1	177.0191688	175.3386879
TMEM109	94.69135355	100.9594728	MICAL1	11.09430719	9.139246688
PDE4D	1.482827081	1.526192359	ARSJ	11.71691336	9.707687805
UPK3B	0.223302081	0.290753228	ARSK	3.330453097	3.770603589
PDE5A	3.326048678	2.594528273	PCBP2	120.3530347	118.0386261
POLDIP2	52.85258202	55.51647741	ARSI	1.035024562	1.282984144
POLDIP3	21.37443473	20.83534146	ARSG	0.931486507	0.788688104
IER5L	107.4723625	103.9362895	N4BP3	0.60036102	0.61126134
WIZ	22.68566358	23.11629021	RAB11FIP2	1.377355319	1.218003105
DBF4B	9.548466501	9.957572706	ARSD	1.36457241	1.110740223
SLC22A18AS	0.1	0.147925279	N4BP2	0.626209988	0.619940737
PDE6D	18.36194262	17.08766823	RAB11FIP3	3.404990692	3.497972184
ZFC3H1	4.171621456	4.572236017	ARSB	6.521232556	5.832623772
PDE7B	4.210150169	4.207396615	CLHC1	0.197105191	0.210935824
PDE7A	7.730906918	8.642119099	RAB11FIP4	0.744571734	0.64196022
TESK1	19.98437191	13.07411218	N4BP1	4.815532458	4.119491691
TESK2	1.083988874	0.814494373	RAB11FIP5	6.087351454	5.145897605
NDST2	7.718480557	6.635108355	WWTR1	34.50387714	32.62359612
NDST1	38.17933659	34.98298443	MICAL3	17.07812392	16.53805649

WLS	34.86424865	30.83933585	MICAL2	13.30389704	9.69863896
TPRG1L	36.85959384	32.24420331	ARTN	6.540461806	6.034303333
PDGFB	0.392293237	0.297718386	CCNJL	0.129559759	0.163318634
GATA6	19.21310906	15.42963154	CETN2	50.94490719	53.06222615
PDGFA	0.155483742	0.126410941	CETN3	7.733509361	10.1484893
GATA3	21.69277831	18.6350003	ARV1	19.44241316	23.69137627
GATA2	7.664703928	8.682362476	STBD1	7.124249242	5.266283395
CIAO1	12.43089772	13.75519268	NCOA1	3.403983479	2.564187526
PDGFD	1.440090541	1.289094232	NCOA2	7.19289124	5.672593914
PDGFC	4.43350502	4.777563477	NCOA5	20.21109456	22.93660671
HNRNPA1L2	2.648138744	3.378089104	NCOA6	11.55399862	11.27237206
LIN54	5.386627011	5.217688288	NCOA3	10.04065205	8.793655254
HOXC13	10.89788645	9.590285419	NCOA4	38.57007348	35.82471863
HOXC12	7.626510092	8.619861489	VSNL1	0.1	0.1
HOXC11	7.904168264	9.514670551	NCOA7	7.174182729	6.084389724
HOXC10	61.11624469	59.3560379	CRELD1	4.878900849	3.525981965
TCP11L1	2.289940475	2.097277102	CRELD2	31.78962218	26.80686174
TCP11L2	0.786278428	0.57776502	SFI1	3.517694211	3.071517451
LIN52	2.729347166	3.25651136	SAMM50	25.12891818	28.91346393
PHF20L1	11.13228459	11.85073059	BCAP31	197.2812996	195.0274028
SAMD5	0.461457335	0.375684031	NUBPL	1.492613505	1.797673509
SAMD8	3.279782825	2.693257444	CCNG2	2.178430701	2.126151934
LIN37	17.6279091	13.6796904	LKAAEAR1	0.159851702	0.1
SAMD9	25.73839096	10.15411535	CCNG1	25.67568943	30.28034266
WRB	8.978841032	10.54299258	AUNIP	6.611931573	8.867400053
WRN	6.591649298	7.504630804	TARDBP	45.90385293	55.32342311
SAMD1	32.13462114	39.93553642	KLHL36	2.03767152	1.938260713
FAM200B	4.258471658	4.016670225	KLHL38	0.90361393	0.741300416
FAM200A	2.35511974	2.873116925	KLHL34	0.1	0.1
SLMAP	7.839828277	7.020940434	KLHL35	1.922851824	1.191004887
EBAG9	8.119886772	9.549219275	CCND3	50.46359772	49.53497194
LIMS2	3.826650099	2.032317794	CCND1	40.09606355	40.26444572
LIMS1	5.118647776	5.857077595	BANF1	98.545866	131.4751719
FAM204A	2.037339082	2.090004335	PDGFRA	1.151740613	0.643606907
CEP250	10.51022705	10.24251829	CYBB	0.1	0.1
CDC25C	11.84194434	13.16338572	CYBA	0.171855155	0.1
NCCRP1	0.1	0.212805371	PDGFRL	0.945401358	0.547856075
FAM203A	29.88827898	35.91399329	KLHL42	5.191530314	5.13457689
CDC25A	5.763334025	8.777993004	PROCR	1.780364754	2.69959116
CDC25B	195.2968029	164.6752535	CCNE2	12.34960436	16.09660411
TPST2	4.303849585	5.325052378	RRNAD1	7.426755677	6.410422276
TPST1	7.470951536	6.954553379	CCNE1	7.624530101	9.606928054
FAM206A	5.181008784	6.405232221	C9orf114	5.995594353	6.293475386
LIN7A	0.691315348	0.220631435	C9orf116	6.432011598	5.597334876
LIN7C	1.9095148	1.88131507	C9orf117	1.276596865	1.263231692
LIN7B	6.9205971	5.561717719	KLHL18	8.492129358	9.709008535
SLMO2	25.55876078	31.33262216	KLHL15	2.646317213	2.369787912
SLMO1	1.367840577	2.233830593	KLHL17	6.368980909	7.366864584
LRGUK	0.119241214	0.15495432	KLHL11	0.65837572	0.769800077
LEAP2	0.467406485	1.096872924	KLHL12	14.7764692	13.42411781

FAM208B	6.051826592	6.109594897	KLHL13	1.054554045	1.173704785
FAM208A	8.334803426	9.427197522	CCNB3	0.157519129	0.206781258
TSPAN12	0.1	0.1	CCNB2	35.88567626	45.98277753
TSPAN10	2.7088366	1.134865144	CCNB1	148.6725086	191.2657858
CEP290	1.049737311	1.414741619	BRINP2	0.1	0.108734204
APAF1	1.804978635	1.786801883	C9orf129	0.325092188	0.517871889
FAM207A	16.02150373	21.19441232	CYC1	348.7713743	429.7791015
HAND2	1.526027451	2.011101467	PRODH	0.1	0.1
PBXIP1	25.06064792	18.71085862	KLHL29	1.499945898	1.785435166
TSPAN33	1.783937943	1.673304289	KLHL25	1.595203736	1.822265114
TSPAN31	7.6538351	5.962583734	KLHL26	2.206581154	2.255535838
KCTD20	15.29415631	15.0935789	KLHL28	0.765551627	0.71723469
KCTD21	2.015015938	2.187990425	KLHL21	14.7927057	13.69926529
MARCKSL1	357.5726792	355.5818012	KLHL22	12.45384918	9.018749057
MID1IP1	23.03542505	24.95358135	KLHL23	0.915921896	1.219652132
KIAA1549L	0.207281935	0.160642674	KLHL24	2.304884431	2.189108254
SYT14	4.136114939	2.896471764	KLHL20	6.259379978	5.43894807
REC8	1.969711768	2.023048032	APPBP2	3.849061225	3.530311413
SUGCT	2.134495679	2.718893144	CYCS	21.44148702	32.13708863
SYT17	0.270220436	0.160770259	YWHAE	516.2331437	549.1734318
TSPAN15	0.497508299	0.645823516	LGALS3BP	16.26006536	8.273847237
TSPAN14	5.00245745	5.222119623	MCUR1	5.645521066	6.181788898
TSPAN13	4.879954506	5.05368991	YWHAB	124.2121007	120.5955792
SYT12	2.494200993	1.510855293	C9orf142	45.39741884	58.89333974
SYT11	18.25342917	21.15515455	SFR1	2.851313734	3.844084062
TSPAN18	0.1	0.108289199	YWHAQ	244.6674357	244.8490858
TSPAN17	25.71430812	25.22599432	ABHD16A	7.881248534	5.541567108
PIK3AP1	0.1	0.1	YWHAG	72.39088822	71.75400981
RECK	2.443223961	2.91653347	YWHAH	111.4490002	112.0652132
SMARCAL1	10.93178566	9.79596823	TBC1D8	10.91081335	11.36072902
KCTD10	15.55749732	17.29724186	ABHD14B	11.76079134	12.30743589
KCTD13	5.788316873	4.874496636	TBC1D9	3.707990618	3.764790023
KCTD11	4.672936357	4.457593474	ABHD14A	12.196958	12.05182069
MGARP	0.837172713	0.903383733	YWHAZ	437.6400911	452.254907
KCTD12	3.173596473	2.704977519	CCNA2	34.83939929	43.66377057
KCTD17	14.57774814	12.32633681	TBC1D1	7.02511212	7.323017417
BCORL1	3.273998745	2.773664338	CCNA1	2.320817947	2.667331603
KCTD18	3.59875947	2.976690438	TBC1D2	68.00884832	44.35832304
KCTD15	1.943364451	2.64965984	SFPQ	31.88574748	39.54443916
LPAR1	16.49418087	12.32188988	C9orf156	6.514451328	6.247976374
LPAR2	0.562817612	0.760920555	TBC1D4	11.48814649	12.39764072
LPAR3	1.047392495	1.719057776	TBC1D5	4.928677386	4.893809354
MBTD1	1.196749181	1.590635937	TBC1D7	4.755374171	5.953170377
CEP192	3.601758891	3.572159958	RRBP1	188.5192807	139.2715987
STAT5B	4.260997449	4.541979067	ABHD17C	1.706967466	2.033297644
OSGIN1	1.438950438	1.400207887	C9orf172	2.492842849	2.213519533
OSGIN2	13.82805765	15.29235869	CYGB	0.147969785	0.1
NTAN1	34.5353009	35.36836636	C9orf163	0.160572806	0.244166989
AIMP1	9.611740476	11.28956252	C9orf169	0.620714418	0.500399635
AIMP2	39.25378865	46.74597868	ABHD16B	5.043561829	3.525362192

LPAR5	0.1	0.1	PROB1	3.759440919	3.591484112
LPAR6	4.40621437	4.545372777	ABHD17B	3.782113703	4.748721212
MRAP2	0.72788025	0.697757378	ABHD17A	52.1955193	49.93080259
SUGP2	17.31768643	17.78595733	ASB8	11.35312773	11.49939359
RPL17- C18orf32	36.32100984	49.46036455	ASB9	0.926315847	1.089685296
SUGP1	14.40756916	15.31811946	ASB6	19.48899887	20.30034969
B3GNTL1	0.991229912	1.226877814	ASB7	2.810046473	2.408579526
SPTAN1	28.1179331	23.55756427	QRICH1	34.86162433	35.01030357
ATMIN	7.370616445	7.258122079	QRICH2	0.108142833	0.134884796
IL15	1.148250141	0.848469858	ASB3	1.436981393	1.903188633
PABPC4	51.20812267	62.5140605	ASB1	4.205618259	4.307226516
IL18	0.1	0.132340162	MAML2	5.425900846	4.549630677
IL16	0.362191016	0.398643251	MAML1	11.04762188	10.71685203
PABPC1	673.0055836	770.3707905	MYT1L	0.1	0.1
TAGLN	31.9981508	9.534354403	THYN1	7.45419288	8.018663786
RELA	59.58804097	52.41745082	WSB1	5.849010898	6.129346858
RELB	24.10381512	20.80372066	WSB2	38.96898451	39.12146958
PDZD11	68.8190563	68.58153755	IFT80	3.486130514	3.861869703
MGAT5	3.096962151	3.457262144	IFT88	4.662177013	5.26501048
MGAT3	0.119269761	0.127517927	IFT81	5.71100196	6.415906312
MGAT1	84.97751513	66.34564211	UBA52	179.1849783	217.2546064
MGAT2	29.78370639	28.35505465	NEDD4L	0.427198834	0.458495036
XDH	1.299504733	0.898072842	ATXN7L3B	17.21485578	18.59671078
RELT	3.303390187	3.160295183	CYLD	2.451140514	1.863757901
IL32	0.414311961	0.420606449	FA2H	0.121379126	0.1
IL34	0.158405033	0.204255667	SLC2A11	2.551132553	2.418385386
VEGFB	60.11020083	49.13417202	SLC2A10	0.1	0.1
VEGFC	17.79138106	15.7429769	SLC2A12	0.508261509	0.285503957
VEGFA	35.15505336	33.46651649	FN3KRP	10.01700425	8.77555473
KITLG	1.684404185	2.015021256	LSG1	11.90975277	12.53049186
HNRNPA2B1	178.2387115	220.9315312	SLCO4A1	25.08377333	29.36376942
AGGF1	9.824302011	9.799272992	ASIP	0.1	0.153449807
TMEM260	3.474883612	2.988194927	ANKRD54	19.67083449	21.53903991
TMEM261	17.22909012	22.86063433	ANKRD52	17.94324705	17.29290604
IL6R	0.959859001	1.127435104	ANKRD50	5.16640096	4.830581319
GEN1	2.213299943	2.162405344	ERP44	19.54700208	17.84599558
IL4R	3.531518558	3.897271222	ZNFX1	38.20183195	17.65820727
TMEM251	10.59602933	10.67343499	ANKRD61	0.465082762	0.412810959
TMEM253	0.158470768	0.141749202	ANKRD39	8.585375239	9.085031362
TMEM254	5.565223695	5.584271522	ANKRD37	0.771205129	0.898754655
TMEM256	48.27103853	66.19085325	ANKRD36	0.353057796	0.472004532
TMEM258	147.2320837	154.2528852	DACH1	0.655947164	0.574930085
TMEM259	66.19669633	67.63705404	GRB14	0.404699572	0.364181326
CACNA1C	2.862359399	1.953492461	NAGLU	22.650177	14.72173924
HOXB13	0.134200972	0.161050306	GRB10	5.386953736	5.669754285
C8orf44	3.175339863	3.64864909	ANKRD32	1.89672589	2.295946899
TMEM241	2.043401143	2.057541168	ANKRD49	2.363493957	3.780208613
TMEM242	1.660501855	1.856198836	ANKRD46	2.11521447	2.853171161
TMEM243	3.854691503	6.144253095	ANKRD44	0.750615238	0.734387167

C8orf48	0.1	0.1	CD180	0.335874129	0.405258462
TMEM245	8.57123486	7.758180362	CYS1	1.876928561	1.300546754
SNTG2	0.1	0.1	CLIP3	9.555252667	6.658025328
C8orf46	3.113623859	1.662986511	BSCL2	43.72226635	37.17651909
C8orf47	0.368135623	0.14786344	CLIP2	3.20979242	2.160416564
TMEM248	25.24206444	22.77838239	CLIP1	14.72132983	12.86331757
TMEM249	0.685183345	0.541044529	CLIP4	3.372989958	2.802392862
PDHA1	39.81605081	48.55864394	ERP29	138.5896813	142.7815006
C8orf33	35.91203808	49.83764964	ANKRD42	1.293115083	1.441298948
TJAP1	15.75289843	15.46287115	ERP27	0.1	0.1
C8orf31	0.230662165	0.1	ANKRD40	8.548780472	8.659507762
TMEM230	55.25814592	62.19421869	ANKRD17	10.95166476	10.10947638
TMEM231	2.347561851	2.868587039	ANKRD16	1.7605431	1.892602399
C8orf37	0.931713299	1.441680484	CD151	175.204982	159.6360459
TMEM234	7.089357767	6.429760645	ANKRD11	9.193273296	8.811059384
TMEM237	3.21224567	3.987192664	ANKRD12	1.918592449	1.604568948
TMEM238	2.218858729	3.462009019	ANKRD10	14.61432594	16.08122458
LOC730183	1.438950438	1.948334741	ANKRD28	14.36034275	12.79162762
TMEM239	2.249196908	1.687482147	CD164	71.38276115	59.34100446
MANSC1	2.158148108	1.731045182	ANKRD29	2.521651433	2.49790784
IL7R	3.115432816	3.236876226	ANKRD26	1.232329489	1.134885194
MXD1	1.367104316	1.334931293	ANKRD27	11.24158309	12.04543775
MXD3	53.69061103	67.86443655	ANKRD22	0.1	0.109306113
MXD4	18.97902614	18.29311261	ANKRD23	0.220723339	0.444794728
RERE	33.5633683	31.22759173	FAM103A1	5.751188526	7.485797718
PHTF2	10.58220456	10.99846298	LSM1	59.79250946	64.86302742
PHTF1	9.095044186	8.814116764	ASNS	40.39144434	35.80923337
RERG	0.412824894	0.16381792	LSM5	10.76067245	12.84841213
TMEM222	41.46497903	36.03434858	LSM4	55.12565391	67.27601052
TMEM223	14.40462055	18.42934785	LSM3	72.9065378	114.2112623
GET4	38.21750782	34.70700944	LSM2	18.65683871	20.88116355
SNTA1	8.580934959	7.709059728	CNOT4	8.051305675	6.836371177
C8orf59	38.14812571	54.50477706	LSM8	2.095891711	2.686518137
TMEM211	0.1	0.1	CNOT6	6.699216264	8.503686295
TMEM213	0.1	0.1	LSM7	104.1024603	135.6363764
C8orf58	10.35420452	9.544440951	CNOT7	48.22858789	64.27583667
RER1	72.51693154	67.90268285	LSM6	12.70825146	14.99422682
TMEM214	35.85403411	27.11234032	CNOT1	19.21811801	19.47530776
SETBP1	0.93700146	0.972323532	CNOT2	28.04521987	26.82002849
TMEM216	1.571820251	1.264518234	CNOT3	25.49609544	25.78057658
TMEM217	0.947450391	0.393379466	CYT8	3446.32279	4608.489346
TMEM218	2.934166109	3.361323426	CNOT8	25.08180617	25.18300645
TMEM219	34.5759952	29.61986035	EIF4G3	15.60962912	15.45578913
C8orf82	42.82804302	48.33009598	EIF4G2	130.7907372	137.8678068
C8orf88	19.68656881	27.541933	EIF4G1	138.4412378	140.7555294
TMEM201	12.91828283	14.75917394	EIF4E3	0.1	0.111948515
TMEM203	23.28955523	28.18864606	NAGPA	8.811619563	9.292337152
PABPN1	20.53215922	22.16277775	SGCE	28.75842011	26.63231975
MKKN1	6.585331142	6.323195646	SGCA	0.82507016	0.643599086
TMEM205	25.69452873	24.70531949	SGCB	12.95125667	12.56736225

TMEM206	3.651596021	5.014408626	WASH1	4.059269884	3.573160905
MXI1	1.222866217	1.446935141	HIAT1	27.15313326	22.1632082
MKMK2	19.75501417	19.6908159	ASPM	9.00347932	11.46877595
TMEM208	31.74703845	23.45724336	ASPH	30.87158815	30.53907705
TMEM209	7.022321391	8.234600718	EIF4E2	15.68251602	17.1936141
ZNF804A	0.188710825	0.210847028	NLGN1	0.764890089	0.647452239
C8orf76	18.64296697	17.56908571	NLGN2	30.73850601	27.14217409
REST	3.252641246	3.474036389	WASF1	10.16757666	12.64520092
KRAS	6.348336578	7.428509864	WASF2	39.32179668	36.94604466
SUGT1	22.61415923	25.16867781	WASF3	5.68847001	5.287351331
SNTB1	1.177095287	0.842546311	ASS1	3.220450078	3.050672309
SNTB2	1.663163999	1.747617247	RHEBL1	6.111562934	4.508376277
PNMAL1	9.264565094	8.921908027	FAAH	0.943123349	0.560357194
EMC10	19.79026237	20.75260903	NADSYN1	5.117899749	5.405700711
NYNRIN	0.139672606	0.151932777	CYP27A1	0.28125173	0.277948464
OBFC1	3.497708073	3.630325548	RRAGA	127.2422596	113.4931835
REV1	3.678710248	3.818695512	RRAGC	40.7980183	33.14950407
GTPBP6	0.768183627	0.517458462	RRAGB	4.548931286	4.318684055
GTPBP8	3.335508437	3.565318697	CD109	12.96821087	11.43203806
SCRIB	42.02541728	48.83852114	RRAGD	0.595678039	0.627119698
GTPBP2	37.08051904	26.51702846	VDAC3	178.9776923	211.9395374
GTPBP1	17.20779123	11.74199707	VDAC2	23.85755413	29.38988944
GTPBP4	41.50415638	52.02004268	VDAC1	130.4491922	154.4628493
GTPBP3	6.165475258	9.930366499	EIF5A2	3.224395021	2.706037681
PLEKHS1	0.869313335	1.037047752	CD99L2	40.74545835	41.58207422
CTBP2	21.11227996	22.06611608	DGUOK	30.98012967	32.13587079
CTBP1	32.97567914	33.95948792	CYP27B1	8.18409497	6.349479544
XPA	2.514206401	3.656675933	NUAK1	4.692672631	3.558714219
XPC	20.6096549	19.49942149	NUAK2	3.139783628	2.139579263
SETD1B	2.292808033	2.196305323	ASUN	14.25742125	21.85044354
SETD1A	6.167831792	6.509632561	FADD	21.01508506	21.45967367
PCDHB2	5.250180666	4.111625758	ZRSR2	7.727766857	6.920223675
MMS19	18.53523339	20.48870881	SIAH2	14.21805695	13.1254324
PCDHB9	1.041999583	0.78101257	SIAH1	6.716333557	6.14509034
KRI1	11.78687628	15.04876381	ACADSB	0.738350988	0.880469748
FAM211B	0.984941592	1.140718089	UBAC1	31.37650526	39.0617889
FAM211A	0.376434606	0.218427632	UBAC2	24.13688372	26.30341346
PLEKHN1	0.57542766	0.578335753	CYP27C1	4.846029145	4.225092973
TERF1	13.75429944	15.36473746	STAG1	6.142263486	5.955992046
TERF2	7.278279488	8.700286771	STAG2	17.55923736	17.57846662
FAM210B	5.339647579	5.748485423	ALDH18A1	51.00927429	48.68379186
FAM210A	3.915764413	5.743660775	CLIC4	52.14500955	44.82381876
TAF6L	9.454176053	11.30187721	CLIC3	0.1	0.1
AEBP2	4.239580551	4.019136285	FASTKD1	2.184943454	4.160057989
PLEKHO1	24.90150746	25.45725044	FASTKD2	3.727986945	3.828110582
PLEKHO2	2.389709601	2.063867438	FASTKD3	4.406178888	7.406196046
CDC123	60.34066032	84.85585643	FAF1	34.13080164	37.99837574
NDUFA4L2	1.411900934	0.911825186	FAF2	36.57520443	33.92429283
FAM214B	26.72155458	18.36102483	CLIC2	0.389261008	0.292768495
FAM214A	1.853769223	1.793258116	CLIC1	243.7548192	229.0138063

FAM213B	8.731000417	10.11765393	PRMT6	9.059144746	10.03843698
TAF9B	23.46292849	25.33863274	MAP4K1	0.173899398	0.218722438
YTHDF1	24.48659697	23.5903112	MAP4K2	5.325469131	5.251298872
YTHDF2	45.37910317	52.34701183	PRMT5	50.2639624	63.35576273
YTHDF3	33.29951686	31.49489304	MANBA	10.07916405	9.051446322
FAM213A	0.1	0.133508732	PRMT7	7.441132666	8.521921836
MKLN1	4.041927191	3.702303299	PRMT2	12.1069602	11.43012892
FAM212B	0.19556255	0.118609113	PRMT1	81.0173994	119.961841
FAM212A	3.446861113	2.311382983	PRMT3	4.757176311	6.899918497
TMEM39A	8.413446674	7.314807929	NAALADL2	0.204006561	0.189115114
TMEM39B	17.34888794	16.88660769	FASTKD5	8.973270849	10.29668487
SCRG1	0.1	0.1	SGK3	1.122983301	0.946633464
MTFMT	2.275672561	2.301875123	UMPS	5.616546305	7.256238874
TXNL4B	3.003219729	4.026930618	SGK1	26.00260483	17.40134024
PLXND1	0.308490147	0.429631404	PRMT9	2.878311987	2.557164456
CEP120	5.249914317	4.170830803	RGAG1	1.813836819	1.904802777
CDC14A	1.255824663	1.185894794	MPZL3	0.1	0.1
CDC14B	8.837555977	7.141851908	MAP4K5	10.75967577	11.98518831
FAM216A	14.37720827	21.87849467	MPZL1	32.63954235	34.15851585
CEP128	2.36128511	3.079517947	MAP4K3	3.351421049	3.305983642
SALL2	1.301664632	1.276066285	MAP4K4	41.77796465	34.88336614
TXNL4A	32.23712736	43.39881401	MPZL2	0.1	0.112965455
PLEKHJ1	25.26274511	23.97640141	STAC3	1.166632498	0.794395623
TLE4	25.88123244	22.16714933	TOMM7	100.868138	118.0489725
RARS2	17.18482134	19.54080741	TOMM5	82.69508423	119.562028
TLE3	0.597357743	0.900639966	TOMM6	103.9417211	151.126248
TLE2	7.340529175	6.257220189	ARID4A	2.817554324	2.518016627
TLE1	10.15422557	8.469038005	ARID4B	4.064635114	4.178096067
SNRPN	0.1	0.1	MANEA	2.215866567	2.824203278
CEP135	1.177977674	1.328926168	PTTG1	93.51564502	131.189058
HARBI1	3.188522355	2.742153171	UNC5CL	0.1	0.111858749
SPICE1	2.369530822	2.292423184	ARID5A	1.990295851	2.071480623
VRK1	9.267872407	11.95130799	ARID5B	4.960823422	3.944414905
VRK2	3.280690427	2.935128347	CGRRF1	4.105313871	5.034673656
VRK3	13.82046546	11.37091972	DNAJC30	9.551278092	7.755978259
ILF2	85.9858729	102.5468472	STAM2	5.111963223	4.023483986
TLE6	0.125756706	0.191953808	FAIM	2.37350461	2.135212253
ILF3	66.92966099	81.60899119	DNAJC22	0.194900558	0.206481166
LTB4R2	0.832646214	0.575566233	DNAJC24	1.087074263	1.36120165
SNRPG	69.39848598	104.479758	DNAJC25	4.61930502	4.940300215
SNRPE	23.13721784	35.06011266	DNAJC27	0.788709054	0.81927746
SNRPF	44.25530981	62.26664167	DNAJC28	0.477721812	0.20373089
SNRPC	116.2540055	146.0077843	DNAJC21	8.610703718	8.770044317
SNRPA	66.65759058	73.78736755	SOHLH2	0.52641267	0.505955307
SNRPB	248.6821293	297.4324231	STAP2	0.204058642	0.155724837
CEP104	5.843761499	5.66010419	ASIC3	0.167352563	0.276333547
FAM114A1	19.91128929	14.37112435	ASIC1	1.960048224	2.951254135
FAM114A2	4.035875155	3.137709251	DNAJC19	6.230675932	10.22119132
FAM218A	0.816898946	0.901943795	EPHX2	0.1	0.1
KIAA0556	3.99273435	3.498353289	EPHX1	65.20206395	43.9735146

DDR GK1	60.62696624	57.9302192	DNAJC11	40.88167354	47.38858476
PLXNA2	1.348392273	0.955720017	EPHX4	0.1	0.1
PLXNA1	9.551898266	8.499446221	EPHX3	0.128702363	0.222964087
PLXNA3	10.25635154	6.626639428	DNAJC13	11.15916746	10.27445456
CEP112	1.597324174	1.672230835	DNAJC14	15.40456538	15.43893899
SEC16A	13.65989502	10.93867917	DNAJC15	5.920189892	6.794588348
FAM217B	2.899887904	3.398986022	DNAJC16	3.209323928	2.750003934
LRFN3	11.89490225	10.42442001	DNAJC17	5.849749558	7.257248518
LRFN5	1.561651683	0.765945641	DNAJC18	1.905692465	2.161533131
LRFN4	54.29126479	60.93560639	DNAJC10	13.88111478	13.11415272
LRFN1	0.602649684	0.702027666	ACADVL	66.97849676	65.0655769
PLEKHM1	6.51180131	4.860149651	MCTP1	2.914571381	2.837791787
PLXNB3	0.955399731	0.542081955	SGSH	19.75064559	14.8679809
PLEKHM2	53.77200285	39.93026394	NETO1	4.605830028	4.425925804
PLXNB2	21.96790034	18.04676135	ENOSF1	8.758546163	9.442387435
PLXNB1	1.79507098	1.627073117	HIBCH	2.832867587	4.193940981
PLEKHM3	0.492005149	0.519848317	ARID1A	28.0816779	24.47369731
PLEKHF2	5.654318651	5.291932196	ARID1B	10.01267881	8.478709251
PLEKHF1	29.34033622	22.23119403	LATS1	2.277019056	2.093620212
CEP164	5.14872826	5.93229318	LATS2	10.20913578	7.065541328
PIK3C2A	2.553425123	2.640096385	EHHADH	1.054554045	1.014983208
PIK3C2B	1.054663111	1.318262723	FAN1	2.861670827	3.528043981
SCRN1	50.13116723	47.66293294	ATE1	2.235374008	2.681819019
SCRN3	3.167288743	3.295219106	SGTB	3.405903743	3.018283016
SCRN2	2.536101319	1.960776057	WTAP	58.25856286	50.09360871
TLK2	5.961261912	5.434011436	SGTA	63.00256128	72.79815634
TLK1	3.980479327	4.586257794	DTNBP1	12.77887968	10.79413164
CEP170	11.2282256	11.16913379	ARID3A	6.664124894	5.142148013
RFC5	14.24753967	19.92851792	ARID3B	1.376294825	1.488644499
PLEKHG3	0.364711236	0.390782593	SH3YL1	1.207965623	1.24271128
PLEKHG4	3.162246372	3.153466567	LTBR	92.93885608	73.48691518
PLEKHG1	0.1	0.1	ATF1	9.826606348	9.72523274
RFC3	22.63465336	34.66748457	ATF2	9.133979152	8.049351389
RFC4	23.12182708	27.88866894	ENDOV	1.18692388	0.652466305
PLEKHG2	9.702142162	8.326351825	SUPT20H	29.32983866	30.37129914
RFC1	17.74583076	18.49186153	ATG3	27.5526846	35.30309104
RFC2	28.43961859	33.19539095	ENDOG	20.29067096	23.81434903
PLEKHG5	0.641877533	0.592431563	CD2AP	4.198890478	4.047937863
PLEKHG6	0.348808798	0.289497656	ATF7	6.617213125	5.940334477
FAM219B	4.810061647	5.119508278	FAR1	5.772783988	7.596185998
FAM219A	14.53392771	13.13046506	FAR2	8.043245339	8.135610087
MTFR1	20.47752247	24.97874372	ATF5	31.29360191	22.03039714
MTFR2	10.4728707	13.15433288	ATF6	10.07580179	8.658301525
PLEKHH2	0.159765634	0.1266711	ATF3	14.18147306	9.051084925
PLEKHH3	9.516381032	9.621885896	ATF4	216.6921191	233.286917
MTFP1	32.0106044	40.47401029	EPB41L5	1.548720771	1.338080102
P2RY6	0.786407963	0.56210173	EPB41L1	1.344293265	1.278790816
LOC101928083	0.776705914	0.391921525	EPB41L2	14.38146978	15.98207281
P2RY2	0.129734018	0.104246127	PIP5K1A	28.25298128	31.90744186

RFFL	3.454901886	3.435902053	PIP5K1C	11.6719885	9.618062316
SEC11A	52.05127698	57.46012994	ATG7	20.25927596	18.26887094
PLEKHH1	0.153724175	0.132880041	ATG5	19.58373007	19.31580688
SEC11C	15.97769207	20.25987292	VANGL1	16.89106398	16.02859604
KRR1	14.98743773	19.33769536	VANGL2	0.1	0.1
CEP152	1.463386857	1.983340169	QARS	66.30518991	71.73736878
TPRKB	14.72419602	18.03656616	FASN	73.3587941	74.58655927
GFER	7.583226696	10.13959998	FAT1	11.83261014	8.48719558
P2RX7	0.1	0.1	FAT4	1.062464451	0.751633233
P2RX6	0.958856526	0.57696393	BHLHE41	1.35067889	1.405165106
P2RX5	0.77498411	2.075999324	SMPD2	6.28467583	7.364274209
P2RX4	5.079915278	3.40559766	SMPD5	0.131504716	0.122494946
KIAA0586	5.177635485	5.526554438	SMPD4	17.27257761	18.34129971
GFI1	0.166116802	0.194417222	ATIC	35.22399292	38.54796786
DZIP1L	0.901992269	0.884725071	SMPD1	33.83050143	22.21844698
IL15RA	0.857798205	0.881562658	ENOPH1	20.22015692	21.46506095
KRT4	0.1	0.1	XRCC6BP1	12.37124991	15.03359966
KRT8	0.897391693	0.634846117	ATL3	10.19094165	9.789819943
FLT3LG	12.58332401	6.265606663	FAXC	0.195811781	0.274829062
KRT7	6.308878158	4.180162118	ATL1	4.195590727	3.485369569
KRT5	0.235348529	0.277175783	ATL2	7.303457942	9.043130325
KRT9	0.1	0.1	CNPY4	11.12639348	10.16841653
TLN2	3.721348309	3.161625222	FPGT-TNNI3K	0.677583308	0.646158096
TLN1	66.39076972	54.63117086	C4orf3	17.03681834	14.98779372
SPTBN4	0.147842778	0.121350389	WTIP	10.80139734	8.633004651
FUT10	3.847401213	4.531650171	LOC10192921 1	5.427749795	4.638810826
FUT11	8.472313232	7.389395373	ATN1	65.83012635	59.13010954
HTATSF1	41.61977677	44.60563702	LTN1	2.879755021	3.055672343
SPTBN1	24.20771027	20.63407614	LOC10192922 0	0.501555764	0.27919887
SPTBN2	0.135548283	0.245040728	HHAT	0.549065603	0.37054092
SETDB1	10.58475317	10.80734593	EIF1AX	15.59979421	20.19999842
SETDB2	0.898490551	0.740669325	CNPY2	90.27075161	94.68708822
GFM1	24.48773902	27.03284614	CNPY3	41.05511036	39.6577636
GFM2	8.709685938	10.30172197	SHC4	0.157014132	0.13256731
LIMD1	5.316622497	5.058481793	CD274	3.200727329	1.237178724
LIMD2	4.239993235	3.884180053	SHC2	1.099864192	0.665187777
SH3PXD2A	6.943690699	6.761082481	SHC3	0.110436175	0.122354861
SH3PXD2B	6.5529939	6.811005762	SHC1	227.5072499	188.5700358
SOSTDC1	0.1	0.1	ATP8	1499.910779	2913.694434
PSENE1	81.9512925	83.18381584	ATP6	6061.463748	9238.344892
IZUMO4	0.734462434	0.419777295	EIF1AD	11.99995062	12.57885795
CBFA2T2	4.7868284	3.504014215	EIF4EBP1	653.8151954	702.902741
LIME1	3.956266598	4.864388316	EIF4EBP2	10.48197741	11.24647431
TLR1	0.242040402	0.188742024	EIF4EBP3	13.03143218	13.62782905
TLR9	0.140272308	0.138340223	CD276	25.00201853	22.25641786
TLR6	0.435112634	0.377057089	SHBG	0.375708066	0.268737678
TLR5	0.447700677	0.348264671	MCMDC2	0.252917809	0.209186125
VGLL2	0.542435797	0.947961665	AKAP8L	32.33286184	33.40238714

VGLL1	0.1	0.1	LOC10192926 4	1.841931837	1.807995845
VGLL4	13.27847227	12.28958435	HHEX	1.665331256	2.714938377
TLR3	4.746743616	1.466177774	UNKL	1.875860459	2.082558834
VGLL3	0.75056148	0.592665142	ATRX	3.61512041	3.609217558
TLR2	0.1	0.121800862	ATRN	5.598251844	5.388758066
RFNG	14.82142313	14.06104285	TMBIM4	13.43148096	11.95235464
LIMA1	31.69293107	25.72184587	TMBIM1	59.69787498	48.61686114
KIAA0513	2.733659692	1.818206359	TMBIM6	165.9641108	160.3208069
APBB2	3.196817068	2.579832836	PRPS2	17.38300356	22.48793573
APBB1	14.63734215	13.46861334	PRPS1	32.22015409	39.12113585
APBB3	8.670275534	7.852302569	PCDH1	2.190852215	1.090193348
SORBS2	0.349483533	0.246700092	PCDH9	2.627900582	2.184945907
SORBS1	0.118452975	0.113175764	PCDH7	3.99985916	3.436468058
SORBS3	79.28756658	68.89867669	PCDH8	0.333605542	0.183399324
APBA1	0.123671603	0.111267973	LTV1	28.96818478	37.37820559
APBA3	10.45845313	9.280278992	HHIP	1.50918459	0.836923263
APBA2	0.1	0.1	NUDT1	31.23110872	36.06151988
RASEF	0.761502989	0.911601197	NUDT2	13.96978278	15.17920988
HOXA13	0.347977456	0.336080612	LOC10192918 5	0.330382603	0.387870469
HOXA11	0.452477567	0.869008345	NUDT5	42.34277422	51.45878323
HOXA10	1.97921772	2.480605764	NUDT6	33.38614752	27.57951061
HCFC1R1	63.26861738	62.29270647	NUDT3	10.57264891	10.34888898
COTL1	223.9653145	218.4570029	IL27RA	0.663631512	0.932641216
TMEM38A	1.272786607	1.163713124	NUDT4	13.1175026	10.82825251
TMEM38B	2.035525984	2.623198997	MFSD2A	3.151814734	2.748386017
ANXA11	175.1142466	153.7292566	MFSD11	13.70708382	14.08201496
NOSIP	43.8044393	39.82630525	MFSD12	71.68812968	53.47390093
LZTFL1	4.080620164	3.778689743	MFSD10	73.90316683	66.84677681
MYCL	0.415377509	0.376363821	FBF1	2.171594162	1.915328174
MYCN	0.119942909	0.114239603	BSDC1	18.07545252	14.74910578
EFNA5	1.648313597	1.63660932	ALDH6A1	0.871235452	0.91836614
EFNA4	5.30752657	6.887317598	KIAA1919	1.160230142	1.159833319
EFNB2	12.78288526	13.15525247	DHRS12	1.343028443	1.196379296
EFNB1	3.266049002	4.76600289	DHRS13	1.668544542	1.760644608
EFNB3	11.52637592	9.226616841	DHRS11	4.261303788	5.624663047
EFNA1	10.87175505	11.6368465	SH3RF1	6.267055671	4.933162012
EFNA3	1.411900934	2.139970979	WFDC2	0.1	0.231074792
EFNA2	0.124242313	0.134618914	WFDC3	0.411707662	0.545129994
TLX3	0.1	0.1	AKAP12	2.271497512	2.087712351
TLX2	1.910569597	1.703047144	AKAP13	4.277256706	3.25229267
TLX1	0.1	0.1	AKAP10	9.630772203	8.909982121
PI4KA	19.70483616	16.13092075	AKAP11	2.912281828	3.027896383
PI4KB	35.06415042	33.89574349	ZADH2	5.082406363	5.33841182
DYNLRB1	250.6461862	235.0982217	PNPLA8	5.723867398	4.787346786
LOC730268	0.656372444	0.662785207	PCDHB14	0.608466768	0.488092862
H2AFJ	21.43586668	20.18972294	SH3RF3	3.592444975	2.957467865
H2AFY	42.20915222	49.34626258	NUDT9	5.671479278	5.553474715
H2AFZ	258.889654	318.5516159	SH3RF2	2.04738765	2.246578972

AKTIP	3.303116537	2.837823246	NUDT7	1.257330428	1.079383925
H2AFX	57.98297861	72.79898063	NUDT8	2.582965444	3.463931736
H2AFV	28.83576625	34.991237	MIS18A	3.539167922	4.043173616
RASA3	22.99530188	20.76652121	PNPLA3	1.896532573	2.295234077
RASA4	0.127801254	0.106616869	CCNYL1	4.231231866	4.016591482
RASA1	24.79640048	25.83587498	PNPLA4	0.245981811	0.269379754
RFT1	6.98609083	8.406183877	PNPLA6	24.2522884	22.65824976
RASA2	1.852928898	1.964260172	KIAA1958	0.670296297	0.662326617
MYH9	346.7994946	301.4598268	PNPLA2	21.95846236	18.01332109
BRAT1	23.17385545	24.81830473	ZFAND4	0.290347521	0.294159467
RASD2	0.1	0.12495403	UBE3C	32.7588128	32.95565114
RASD1	0.218881641	0.248546432	ZFAND3	32.71368408	25.72323476
TMEM30A	25.85841264	25.20223613	UBE3D	2.480745917	3.19623973
TMEM30B	0.111692837	0.1	ZFAND6	14.16178445	14.25058599
LIMK2	1.544591122	1.921932798	ZFAND5	16.93901309	17.57243955
LIMK1	13.11086091	15.48826586	UBE3A	7.368864354	7.53356643
ANXA2R	3.87529027	3.030028924	UBE3B	9.922264414	7.700945959
KISS1	0.1	0.1	ZFAND1	12.68564633	17.19439716
GHITM	74.0282157	80.54390223	UBE2Z	49.44207976	43.00867079
MYLK	0.133149105	0.142604326	UBE4A	8.340313515	8.556356094
XYLB	2.723659386	2.154632066	UBE4B	9.986646077	10.06117149
RFX2	1.451844999	1.362933673	POU3F2	0.989794321	1.071146509
RFX3	0.98581802	1.10243752	SHQ1	9.03824639	9.516812551
RFX1	3.613268902	3.464492568	MAP7D3	23.07080298	25.57029998
MYL5	4.127230773	3.263068433	MAP7D1	75.94595395	68.00206609
RFX8	5.478414447	7.008225279	SHPK	7.247022992	8.972445166
MYL6	1023.906191	889.3053951	EHBP1L1	22.69357549	21.56695945
RFX7	1.897896868	2.404529851	MAP7D2	1.364051789	2.057027799
MYL2	0.1	0.1	SIDT2	6.038803798	4.709558287
RFX5	23.67821364	24.06527534	FBN2	10.37011443	9.3597056
MYL9	16.85287628	7.134566183	FBN3	0.1	0.1
MYNN	4.465572185	4.191624068	DHRS7B	6.929010879	6.104378881
GABARAP	487.2668459	436.8391525	MFAP3L	0.108306888	0.105931271
HSD11B2	0.127574988	0.1	UBE2F	15.69665235	16.80444446
MYO6	1.875291848	1.735877566	TFAP2A	21.0278516	20.079027
TMA7	120.2723923	159.7731602	UBE2H	52.5041649	50.45234839
SNUPN	11.39500864	11.27145437	TFAP2C	16.92162772	13.94883385
IL22RA1	0.819109506	0.187663458	UBE2I	25.7474409	30.4612035
LYPD6B	0.265134383	0.123581797	UBE2B	19.74710019	20.28960318
NOSTRIN	0.24743179	0.284220761	TFAP2E	2.734349815	3.353576933
EFCAB4A	1.452897838	1.949188344	UBE2C	191.8570246	242.0275663
MYPN	2.663189944	2.766465139	UBE2A	47.1825737	44.32462091
B3GALT1	0.483404258	0.510636526	UBE2W	4.245538711	4.186979888
MYOF	127.9304129	95.04983438	UBE2S	487.5957779	578.9371775
TMC8	0.111756342	0.108394244	CCPG1	3.463751747	2.878530433
TMC7	2.571120976	2.416839452	UBE2T	38.37687698	49.94017922
TMC6	0.20623983	0.112642865	BHLHE40	22.45531062	21.72094892
TMC5	0.6388479	0.454571041	UBE2N	36.6409648	44.25833732
TMC4	0.2034886	0.306899732	UBE2O	5.901468465	6.251189461
TMF1	8.581070511	7.4498108	UBE2K	12.25333019	14.95888334

MYRF	0.178846795	0.18757476	UBE2M	147.4316398	174.8855691
OVCA2	38.72548474	42.1584412	FBN1	25.22496131	16.60285991
GGA2	9.800506802	9.389259411	RASGEF1A	0.1	0.106537569
GGA1	13.27673298	14.0271733	MAN1A2	2.978550323	3.327905807
GGA3	7.432039829	7.674153635	RASGEF1B	0.1	0.1
TCOF1	23.38291836	31.50571941	RASGEF1C	0.164723352	0.1
ATRNL1	1.010277757	0.660745526	DACT3	1.52985166	1.291097079
BYSL	21.71590821	29.88717465	MAN1A1	19.47709257	18.39988703
RPL22L1	3.858064865	6.373694941	DACT1	2.185046072	2.482017921
ZC3HAV1L	2.352308642	3.337539889	MAN1B1	44.3499203	36.04638607
YY1	26.21542508	26.76693618	FBP1	0.132550925	0.146483918
YY2	2.071153887	2.211160133	FBP2	0.138482427	0.1
KIAA0895	2.019812027	2.650483542	RAP1GDS1	16.85535734	15.25919527
ZFP69B	1.869390701	2.082800746	FBRS	19.57941869	18.05985776
SAP30	33.64113103	33.24726662	ARFGEF1	12.16307547	10.96512173
SAP25	0.244980308	0.41055581	ARFGEF2	10.20707316	8.578314294
TACSTD2	0.275511071	0.225318129	SLC50A1	42.47580702	40.99805855
B3GALT4	0.985883282	0.74353758	TNFAIP8L2- SCNM1	6.953941572	6.955184714
B3GALT6	28.72621384	32.50593107	CDK5RAP1	14.24635711	18.28136596
B3GALT5	0.491145823	0.442759236	CDK5RAP3	9.544069864	8.862401459
LY75-CD302	0.583457337	0.71553275	CDK5RAP2	11.51671208	12.11763541
GGCT	17.64992718	22.23181343	MAP1S	16.51317817	12.84970425
B3GALTL	6.385919634	6.075548952	ZC2HC1C	0.230334363	0.239591694
TMIE	0.122163514	0.115825156	ZC2HC1A	6.270056533	5.638996275
RGCC	1.553510457	0.669134319	MAP1B	11.26742117	8.569199807
GGCX	10.2786072	10.46966371	MAP1A	1.174820004	0.849839366
EFCAB14	17.7383909	15.53071001	NAIF1	3.463531764	3.407690509
EFCAB13	0.257786718	0.17510841	HMOX1	170.9184126	112.0823885
EFCAB11	1.182694206	1.285364115	PROM1	0.134976174	0.116649087
ATP7B	1.327996159	1.21137294	HMOX2	29.99211569	33.98828239
ATP7A	2.024798162	1.691800307	PROM2	0.12195279	0.139186738
EDIL3	54.75798216	46.39757169	BARD1	2.515460753	2.538810054
CTNBNL1	30.19021964	28.21084139	IRF2BP1	23.127388	23.69194878
KSR1	5.048078717	4.226079703	IRF2BP2	57.37675637	54.71903173
DDOST	159.9857974	175.1021104	LOC10192930 4	0.655499475	0.49663683
NT5C3A	10.51745502	12.645985	LOC10193030 7	0.516394016	0.607180961
NT5C3B	23.20348405	28.08964422	NCOR2	15.47950189	14.1050685
SNURF	0.1	0.1	NCOR1	19.44514061	16.7760888
SEC22B	34.89963458	29.43668132	LOC10099690 9	0.736267936	0.599737695
SEC22A	5.512541587	4.963384971	SIAE	2.95578119	2.554222318
SEC22C	9.427719727	9.953989486	CSNK1A1	86.44321875	79.2809687
FOCAD	5.981276639	6.021677389	SYNJ2BP	1.991144219	1.970470702
SEC23A	30.21399537	28.18301645	SMOC2	0.1	0.1
SAP18	67.67504215	68.13015265	SMOC1	0.113890716	0.119836452
ATP9B	0.123841798	0.108511741	CYP20A1	0.907065438	0.757613839
SEC23B	19.08772991	19.18225103	NUCB1	135.7897254	109.6709026

ATP9A	1.957360958	1.568106841	NUCB2	15.90072517	13.63072175
SEC24B	9.619809821	10.12289877	OXNAD1	2.627084849	3.201003381
SEC24A	10.68372127	9.195064684	PROS1	3.190955865	3.540017645
NICN1	3.271491033	2.801310521	AUP1	38.85054266	44.36107182
IMMT	46.0615596	49.38171961	HID1	0.131089932	0.166596349
ATOX1	165.8341351	157.0485272	PROSC	26.61153138	27.75096466
NOVA1	2.269180914	2.332399084	LOC101930332	0.1	0.1
RQCD1	19.12917879	20.68568599	SNRNP35	5.617946326	5.862460786
SEC24D	27.25112237	21.94049036	PCDHAC2	0.642234998	0.425710869
SEC24C	39.4320889	36.32088217	CSNK1G3	10.23738034	11.56459799
TMEM41A	7.083192519	7.316763847	SUPT16H	63.27559215	70.97805023
PLEKHB2	21.21773424	20.08673411	HIC1	0.462029805	0.558242788
TMEM41B	5.565802612	5.711274571	HIC2	1.012870899	1.085061091
ZAK	10.10119934	12.29604962	SNRNP27	13.14201042	13.61692843
PLEKHB1	0.776676297	0.614330876	SNRNP25	13.30308697	20.04750741
TMEM56-RWDD3	1.946691938	1.667359134	CSNK1G2	31.02337915	31.44832653
TMPO	38.71864837	47.31720937	CSNK1G1	3.835807863	3.230942116
TMEM194B	1.057034797	0.538561767	BOLA2B	1.691392872	2.042678663
TMEM194A	12.53057081	13.80311462	EIF2B5	10.64083881	12.86151956
IMP3	16.74621224	23.00317766	EIF2B4	19.76111863	21.57772716
IMP4	46.50031861	61.07671152	EIF2B3	17.96385794	22.48093993
ATP5S	2.811444519	3.216994131	EIF2B2	51.78157534	65.91145381
PLEKHD1	0.1	0.140942788	M6PR	75.67837761	66.30860525
PCDH10	1.281150911	0.977927526	LOC100862671	0.866899803	0.859547212
ATP5J	27.79933055	39.77014994	CYR61	278.1242195	177.0529112
ATP5I	106.5645347	137.8057402	SNRNP70	103.6513493	120.7958907
ATP5H	65.58199542	74.28833235	PIP5KL1	1.365534823	1.309925321
BRCC3	8.471800182	11.02941803	EIF2B1	20.74160363	23.24914007
PCDH19	0.520679672	0.328131403	CATSPERG	0.1	0.117850898
ATP5O	78.02691546	101.9478781	CATSPER3	0.404030882	0.832657269
PCDH18	3.873636611	2.964026376	CATSPER2	0.233413654	0.34767548
ATP5L	86.18748629	110.8491532	SELENBP1	0.126478734	0.1
ATP5B	452.8625669	543.6311761	PPIL1	14.09723525	21.30581866
ATP5E	403.7578719	457.9890353	PPIL2	12.65551846	14.52252674
ATP5D	107.2364688	127.2853188	ANGPT1	0.698792957	0.766976709
SEC31B	0.404138005	0.309117155	SNRNP40	38.45565338	45.0972336
PAG1	3.63973757	3.020746627	SNRNP48	4.656474329	5.762349354
SEC31A	83.70617692	71.85361221	PPIL3	7.464909384	8.318656512
XRCC6	151.5881774	178.4834006	PPIL4	7.152580615	8.165858549
XRCC4	6.58626073	6.610048009	FCF1	9.013350686	11.53101734
XRCC5	78.74236119	91.01965246	RPL36AL	119.2187859	148.2195128
XRCC2	1.367928986	1.99514614	SIL1	34.36851453	31.15167757
PCDH20	1.535238292	0.596866186	SIK3	6.31646212	5.959743734
EAF1	5.818344658	6.579907817	SIK1	1.159779556	1.014348337
XRCC3	11.81258019	14.65469738	SIK2	4.599212863	4.030767125
EAF2	1.622010068	2.056137669	TP53BP2	24.49724826	23.30612275
XRCC1	18.43865248	21.34708662	TP53BP1	14.5457207	12.61541463

PAF1	43.22251038	46.93361304	KIAA1804	0.1	0.1
RGL3	0.1	0.1	CCR10	2.898018937	2.425840001
RGL4	0.766272876	0.858598199	PYCR1	60.17084512	57.72636026
RGL1	2.152446303	2.131364469	PYCR2	39.43747172	41.84402777
RGL2	3.807474434	3.102385383	CCSER2	14.25876962	12.59089269
BARHL2	0.72508221	0.769480272	SIM1	4.746650396	3.457396061
BRCA1	4.456288826	4.613798692	SIM2	0.162187308	0.162164032
BRCA2	1.341063353	1.27609292	CD320	126.8428436	168.5508058
ARIH2	31.31347562	33.2636585	TOP2A	38.51486742	48.72927191
QSOX1	58.25534986	48.7273644	TOP2B	16.81172471	17.52601779
QSOX2	8.735609616	10.78606774	HIP1	2.243651996	2.58032083
ARIH1	9.340619443	8.859620274	CITED1	0.601540888	0.398424507
NXPE3	1.761181862	1.976973964	CITED2	155.7123219	103.3735308
VKORC1	152.5181753	166.2060407	CITED4	50.32090911	44.72218441
NBPF3	3.114442044	2.414648638	TOP3B	6.539207615	6.036852107
NBPF8	3.918105898	4.613868414	TOP3A	19.76474478	17.96215679
NBPF9	4.764231383	4.739468137	ALDH5A1	0.371312278	0.343946161
ZFR	27.98731326	27.87932148	CD302	1.510087437	1.796692195
RGMB	15.06833727	11.99571536	HIRA	23.9331176	20.13066486
NBPF1	8.495453349	7.882785502	KIAA1841	1.938380706	1.947415878
SORCS2	0.14291366	0.155154055	TATDN3	2.11114564	2.886683239
ZFX	4.999797441	4.945245737	TATDN1	32.26850594	45.36225243
RGMA	2.192862103	1.479392606	TATDN2	41.42175138	41.97929093
INPP1	2.717979284	2.312273433	SHISA5	297.3222953	256.5863289
PAK1	7.521610996	7.478316468	SHISA4	29.83134181	18.32169566
PAK6	2.083907873	2.097242818	SHISA2	26.55217322	32.08392798
PAK2	21.52704566	20.95225077	SHISA9	0.1	0.105514221
PAK4	33.82424605	33.46537924	SHISA8	0.1	0.121257402
PLEKHA1	4.336046538	3.959301102	SHISA7	0.504591552	0.634746058
PLEKHA2	12.55136084	13.00832267	PRPF4	25.28695603	30.48500259
PLEKHA5	3.244979444	3.246053541	PACRGL	4.29662126	5.593518575
PLEKHA6	1.066991667	0.96056064	PRPF6	49.45455078	45.3881371
PLEKHA3	5.48946915	5.679145703	FANCD2	7.960523475	9.601462688
PLEKHA4	34.05453231	14.57430487	PRPF3	34.29123832	36.00438171
PLEKHA7	0.417328917	0.410736471	RPS19BP1	50.7062601	68.20600952
PLEKHA8	1.92936367	2.262800962	PRPF8	110.3834099	108.260385
RGP1	10.75432998	11.2828001	POU2F1	0.581098875	0.58356122
DPY19L1	14.68693615	13.35172884	POU2F2	0.692459324	0.507163335
DPY19L2	1.329312938	1.142330526	EIF2S2	65.39986898	72.68549801
DPY19L3	2.534321137	2.697000609	POU2F3	0.1	0.1
STK17A	33.45290475	31.41264472	EIF2S1	27.76577007	32.91920825
DPY19L4	6.275151787	5.931293367	EIF2S3	68.27386909	78.15297708
STK17B	4.152728221	3.762585844	MAP6D1	2.019621553	1.939093365
FHOD3	3.833587619	4.366699865	AVEN	11.26392562	9.40382744
FHOD1	2.806772749	2.597182711	PYCR1	19.11129628	19.43661538
JADE1	6.432940046	7.172453075	SIX1	59.95900764	50.11569187
JADE3	4.037138316	3.73049286	IRF2BPL	21.48288066	19.24940597
JADE2	39.42681989	35.34679302	SIX4	4.28921851	4.042917743
RGS4	12.43096402	14.66052615	SIX5	16.10180432	12.39419377
RGS5	0.694828563	0.980666346	SIX2	20.5685195	21.58356394

RGS2	2.216533506	2.408081451	SIX3	1.726694761	1.68785967
RGS3	41.01247802	37.67014612	RBAK- RBAKDN	0.644943465	0.489099645
PALM	21.65323415	15.58060162	COLEC12	0.1	0.1
GGT1	0.177684152	0.183201868	COLEC11	0.1	0.1
ARID2	4.24651484	3.788024365	MAPK9	13.13145134	13.90750374
RGS9	0.202914574	0.114696579	MAPK8	2.961007557	3.214971026
GPANK1	5.288618678	5.564202392	MAPK7	22.02514435	16.84389445
TMX4	15.87405749	14.90320398	MAPK1	28.42029551	25.88909829
TMX3	10.54499857	10.81001215	MAPK6	17.3515128	17.07990944
TMX2	65.35799357	73.87433496	MAPK3	35.90243686	30.43752252
TMX1	14.51825158	13.64877073	QPCTL	9.878799431	10.53323583
MZF1	4.464080101	3.637674844	TOMM70A	18.44481294	23.58760944
NXPB2	1.236434184	0.867965159	TDRKH	6.628196368	6.053868277
NXPB3	0.212266401	0.113360045	AVIL	1.806677956	1.669556046
YTHDC1	9.984792499	10.50583666	LSM10	69.653592	74.50653333
YTHDC2	4.736742064	5.204270171	LSM12	2.296008085	2.384785598
NXPB4	3.238962966	1.909471521	LSM11	1.418560329	1.63533058
PTGES3L- AARSD1	1.748867576	2.284017144	CYB5R2	0.75406284	0.81163868
PANO	0.825576494	0.825304925	CYB5R1	30.86603317	25.3186145
GGT5	0.821545514	0.62991666	CYB5R4	8.261460068	8.948452634
GGT7	10.03764957	9.148728415	CYB5R3	217.665452	174.619443
CACFD1	3.527341189	2.379745629	PRRT1	0.271252891	0.236951035
VTA1	16.77705672	20.00149005	PRRT3	7.959685349	6.609478776
PAN2	2.459663362	2.765366371	PRRT2	0.807827918	0.816965823
PAN3	3.807743778	4.094050071	CYB5RL	1.767824718	1.78182505
PICALM	54.25398108	46.39845217	AVL9	6.724010845	6.560160308
TMEM45B	0.1	0.1	JPH1	0.598960355	0.625917746
GSK3B	11.42607806	11.14810814	JPH2	2.108565567	1.689196252
GSK3A	43.25365366	46.35279922	JPH3	0.1	0.118533183
PAPL	1.818847111	0.964111231	UPF2	7.945900489	8.713859445
TRIAP1	7.967409965	9.765823335	UPF1	23.70715725	24.13635431
TMEM191C	0.298742452	0.128381152	CCSAP	2.707201364	3.330618651
TMEM191B	0.216831957	0.155613443	PELI1	1.148127701	1.2619622
HSDL2	13.33040229	12.94494103	PELI3	7.445880272	6.291373217
HSDL1	4.844732221	4.802504709	PELI2	0.10912066	0.113024637
ZP3	7.416090461	6.177717139	RABAC1	173.3996749	133.9515637
EAPP	18.2135758	19.059852	UPK2	0.266867057	0.179430763
PAOX	2.981519401	2.257334382	RUVBL2	124.4006014	143.5080187
TMEM45A	4.845107797	3.35694211	RUVBL1	62.38554536	80.28469509
PARG	6.404529379	7.105318777	EPM2A	1.149520747	1.0099579
PARN	12.24948774	13.49143917	AGTPBP1	7.352901847	7.585655237
PARL	13.86809521	15.30429486	S100A2	23.62103506	21.97900975
ATOH8	7.720347638	6.825413379	S100A1	1.236980809	0.911825186
SMNDC1	7.43402049	8.822096268	FTSJ2	22.19795104	26.35089961
CHURC1	10.6770788	11.0486792	STON1- GTF2A1L	0.411978948	0.390554826
R3HDM4	34.50443882	32.1498517	FTSJ1	36.18847264	39.54747019
R3HDM1	9.919386463	11.29749649	FTSJ3	19.86454876	23.01937944

R3HDM2	9.683357502	8.494474188	FRMD3	0.149084729	0.191123235
ARIH2OS	0.750203717	0.424980179	OLFM1	16.94710861	19.43439837
SYTL1	0.168537305	0.132624596	OLFM2	1.403343627	1.030611294
CD3EAP	9.886317848	11.63689526	FRMD5	2.61283975	2.079822064
PASK	2.412972323	2.626726133	TXLNA	42.63808688	38.98081179
SYTL4	2.014474233	1.494867116	FRMD6	19.24752132	16.49573893
SYTL3	0.740765276	0.393280884	MAPKAPK3	9.527056177	10.23321896
SYTL2	1.446718697	1.464530493	FRMD8	22.68329764	19.00299726
COMMD3-BMI1	12.07578138	13.51214686	MAPKAPK2	51.15021701	49.43935438
CDC42SE1	28.28719929	29.82894059	S100A6	970.4403227	821.2768559
POU5F1B	0.1	0.1	S100A5	0.410342156	0.188636
KIAA0319L	19.533146	16.08009278	S100A4	52.32761356	48.83542045
NXNL2	2.695785913	2.156555414	MAPKAPK5	13.68307067	18.39611863
MTHFR	3.689360955	2.621365701	S100A3	5.027627897	2.964996574
MTHFS	1.923237205	2.044894971	S100A9	0.1	0.164287983
INO80	7.042154529	6.4981724	UBFD1	12.69550038	12.41066326
GLUD1	43.33792989	47.5988877	LOC101929012	3.011723488	2.835557977
GLUD2	2.769872907	2.991279762	CRYBG3	1.5930194	1.504141149
H2AFY2	0.1	0.134046963	PMEP1	2.931017127	2.868108781
RLTPR	0.753114863	1.032672021	UPP1	14.23980524	14.06906511
CDC42SE2	7.543934683	8.863839096	DNM1L	18.33987679	20.13754486
CYB561D1	2.477121395	2.616948702	PELP1	29.90894902	28.89618567
ING1	10.22225996	11.27091655	SIGMAR1	176.26696	208.2038342
CYB561D2	35.05060993	27.08877871	QTRT1	18.87100113	23.93036013
ING4	8.978945519	8.552973625	PPM1A	4.619644103	4.430657068
ING5	1.31544736	1.653818393	PPM1B	5.254646183	5.3798969
ING2	4.629684374	4.818044507	RUSC1-AS1	9.686721096	9.756980474
ING3	3.093562693	2.994826035	PPM1M	7.561210522	4.784189948
HSBP1	29.6409222	35.96328887	PPM1N	0.312046028	0.13785119
TNNC1	0.398570557	0.206592432	PPM1H	6.140456491	4.030151133
ATPIF1	49.19058328	58.89184467	PPM1J	2.191387463	1.636572811
TNNC2	0.252126726	0.154310639	PPM1K	0.935635108	0.454617977
PAWR	2.819117624	2.921756265	BARX1	0.275274214	0.1
PAX6	2.295394432	2.112490285	PPM1D	1.839682779	2.02535647
INF2	14.60283816	12.76251118	PPM1E	1.227132365	1.250514245
PAX8	4.994053713	3.429784584	BARX2	16.85847644	20.23203473
PAX9	0.1	0.1	PPM1F	10.66058745	12.32640887
CTDP1	8.765467462	8.521057709	PPM1G	84.18794874	88.93585496
METTL7B	0.962404996	0.543356568	LOC101929046	0.232952724	0.218663359
METTL7A	0.239093111	0.378082103	LOC101929051	0.349166796	0.233432252
LGALS7B	0.1	0.1	ELMSAN1	6.391876878	6.46096257
MZT1	8.112386001	12.37244801	TP53INP2	9.220447267	7.178833361
KTN1	41.44530694	45.12188335	TP53INP1	3.795048362	3.374944961
ZYX	103.6901322	88.08710722	MCOLN3	1.587979291	1.219565225
NOTUM	0.334331425	0.367707108	PRRX1	13.80564271	13.20277842
INHA	0.463041768	0.41106219	PRRX2	54.27040093	50.80384881

GHDC	13.58456836	10.60978418	LYSMD2	0.836897546	1.196163303
BZW2	75.62767069	95.12285601	LYSMD1	2.068813675	2.412716962
BZW1	20.52423836	22.44641167	LYSMD4	1.286025937	1.113827693
TUBB8	0.1	0.1	LYSMD3	6.555414034	5.935607538
TUBB6	100.474538	102.8495985	MCOLN1	46.75214767	34.55973779
TUBB3	485.7846929	478.7285045	TPD52L1	0.884311155	0.953352493
TUBB1	0.263462256	0.450145161	MCOLN2	0.594936607	0.965205584
SMARCAD1	7.142708405	9.597713405	TPD52L2	81.89972483	77.09942237
STK32C	6.180187206	6.121893895	TMLHE	7.116898051	6.552380837
CYB561A3	18.91636098	18.73372471	JMJD1C	5.457142834	4.511951247
INIP	4.873065005	5.906317802	CYB5D2	12.6067889	10.4225007
RALGAPB	9.270691231	8.298952676	CYB5D1	6.784601042	8.477379761
TNIK	0.278957206	0.387502149	RASSF1	20.55200705	21.5128486
RHCE	14.46142351	11.05601555	RASSF2	0.118891373	0.106744394
METTL2B	8.956954645	10.67404737	RASSF3	14.03996178	14.04749146
TNKS	7.864047488	7.075339432	RASSF4	0.812016006	0.784019012
METTL2A	6.08089334	7.389246628	RASSF5	0.430077174	0.345928174
ITPRIPL2	3.237724873	2.658384497	C5orf15	45.51466299	41.61749507
ITPRIPL1	3.351470743	3.98654685	CD2BP2	20.72902336	22.95246658
PITRM1	38.37473623	41.04836487	UPRT	4.506762016	3.766116034
PPAN-P2RY11	8.679109959	12.16978373	ZMPSTE24	33.92988368	33.78361251
CEP350	2.393037721	2.499873105	C5orf24	11.18344692	12.25622601
TNK2	7.243419324	7.33027631	C5orf22	9.578375284	10.23619657
TNK1	0.437692187	0.214213991	C5orf28	4.860475579	4.264864728
RHEB	53.02771061	55.24963983	RASSF7	3.254935849	2.513588025
TUBA8	0.466887549	0.431821637	RASSF8	8.207695452	6.388862558
METTL12	0.999403806	1.567864779	DCLK2	8.051116039	7.220030976
SCPEP1	13.82902641	11.00892702	RASSF9	0.389261008	0.740266788
METTL14	5.586730138	6.812016775	C5orf30	9.765353856	9.62617623
METTL13	24.60416851	26.67671254	DCLK1	4.24357934	2.918332607
METTL10	5.397861902	5.896412938	C5orf34	6.412402831	7.904750802
METTL16	5.278887284	6.239413054	C5orf38	0.1	0.1
METTL15	2.688152386	3.056781362	CALM3	302.0797335	293.4378418
METTL18	3.410793245	4.400408418	CALM1	73.37620199	77.80077337
METTL17	13.80047674	18.4601584	CALM2	195.5756574	221.8387829
METTL23	14.68582508	17.55968185	INTS12	14.64823474	16.58629608
DMRTA2	0.672930074	0.821910467	GPAA1	191.0152878	173.9239446
METTL22	4.465393357	4.521235539	INTS10	36.14856497	39.33047941
METTL25	0.77626023	0.755313024	SECTM1	161.7363131	98.8823172
DMRTA1	0.844740287	0.631758247	C5orf42	1.760426156	1.565967787
METTL20	0.638476508	0.534631961	C5orf46	0.195851065	0.1
TNNI2	0.1	0.1	C5orf45	64.85525531	48.03517561
TNNI3	0.346506652	0.496023126	C5orf49	0.1	0.11555311
CTNNAL1	45.02163233	46.38905779	GRIPAP1	12.08612191	9.232940716
HSF2BP	0.701857869	0.549271102	C5orf51	7.491765376	8.418128799
TNS4	0.1	0.117885326	C5orf55	2.814343754	2.601489943
TNS3	30.03779285	24.78237442	C5orf54	0.914341356	1.091115947
SACM1L	11.63382815	12.04778376	POPDC2	0.181727232	0.158354745
EBF1	1.469212647	1.176110623	POPDC3	5.019628501	6.242215828

EBF4	0.956633904	0.660681316	DERL3	0.587043222	0.621636712
RUNX3	0.123940681	0.151282257	CRYBA2	0.1	0.183828624
RUNX2	2.46694995	2.665128725	DERL1	54.63328655	51.50984887
RUNX1	7.027789203	7.239377598	DERL2	21.60018216	23.41633302
INTU	0.702793443	0.847546555	TXLNG	5.299854838	8.453781736
PRKCDBP	47.54248727	40.66391942	EXOSC7	12.7367971	17.60597863
GSTT2B	1.329056598	2.226417169	EXOSC6	7.403738351	7.75885431
TMEM50A	43.81399805	39.1600603	C5orf66	1.737914149	1.569372791
INSR	1.440463698	1.567313749	EXOSC5	18.28817343	28.79759938
TMEM50B	4.253443954	3.445236604	EXOSC4	89.43297795	105.7458431
AMMECR1	10.6960581	11.30635677	EXOSC9	14.66784592	18.75989989
CIDEB	4.235208473	5.166065426	EXOSC8	30.88048728	38.37718352
CIDEC	0.139566852	0.1	EXOSC3	28.82699618	35.38076316
INVS	2.878206917	2.866950656	EXOSC2	13.23099205	19.83000728
EPB41L4B	2.858316378	2.983893974	EXOSC1	18.03448431	22.32424391
EPB41L4A	0.414068591	0.664493252	CRYBB3	0.280595401	0.314914057
UCHL1	53.99251686	50.42793898	WWC1	1.718900158	2.356804887
RHOG	63.86466576	57.07308767	WWC2	6.239321073	5.620541702
IL17RE	0.924914419	0.68900405	PPME1	17.70784601	17.86593104
RHOF	4.72974419	4.472084473	KHSRP	59.95531017	70.69772889
TUBG2	9.420256194	9.569567625	WWC3	8.841724015	8.514294899
RHOC	611.4293072	550.7771026	CKLF-CMTM1	15.47600767	17.43241266
IL17RD	0.94003785	0.963545382	MASP2	0.311614163	0.38708316
TUBG1	93.91053244	91.39994155	PSMD10	26.86777994	26.2591642
UCHL3	23.05751668	29.84598849	PSMD12	22.24506297	24.80880184
IL17RC	13.30057209	8.748239885	PSMD11	27.39446135	27.6759767
UCHL5	10.56395891	13.91423586	PSMD14	48.81377748	52.64106706
RHOA	263.3972888	263.1173239	PSMD13	52.25754977	55.56240615
IL17RB	0.348787134	0.552170942	CALD1	36.40234492	28.58707181
RHOB	14.1468176	12.2296513	FDPS	117.734467	116.2849176
IL17RA	6.660297174	5.861489333	TIMM10B	3.938764309	4.289735166
TNNT1	4.891852945	3.894106495	QDPR	14.02281652	12.37496001
RHOU	1.21697622	1.245405406	MAST4	2.529567003	2.07913571
RHOV	0.191409872	0.1	PRKCSH	262.0786752	248.0081864
RHOQ	12.04124464	12.27688282	MAST3	1.081911047	0.900425384
TUBD1	1.996336223	2.049192045	MAST2	24.88797507	22.68799589
PBLD	1.102533326	0.744244492	MAST1	0.965326978	1.05692852
KIAA0754	6.017934546	4.298938426	CALB2	0.1	0.150502609
KIAA0753	6.602609597	6.815996402	CALB1	0.223155931	0.173279665
RANBP2	5.248640821	5.44211105	TIMM17A	54.96355471	66.95446465
RANBP1	108.894663	153.48164	MLST8	33.41147207	38.81587093
RANBP3	20.0436707	21.13311186	TIMM17B	59.22999888	65.72295216
RANBP9	15.68705194	16.32944244	MASTL	19.52800099	20.41688197
MTSS1L	31.21648717	22.9139929	MAT2B	35.35346139	38.43980542
TUBE1	5.39238085	5.251518942	SAMHD1	41.81586499	22.82123086
RANBP6	4.876999722	5.260438955	AURKC	0.611437442	0.638153706
R3HCC1	25.96374343	30.02643191	AURKB	72.23234995	91.7796584
GOLT1B	15.48532622	15.67682895	AURKA	69.77631023	91.1678528
GOLT1A	0.1	0.142009248	SH3TC2	0.682448478	0.642875494
ARHGAP39	11.59873775	11.58290064	MAT2A	105.2123309	123.9076411

ARHGAP35	17.39371454	16.1161334	CYP24A1	0.1	0.1
ARHGAP44	14.80894943	13.06901299	CNTFR	0.1	0.172308316
ARHGAP42	2.166243971	2.262265158	HOXA9	3.888377028	4.049257361
PDIA3	81.03784409	86.0214576	SOX18	0.130469957	0.143512218
PDIA6	89.96841372	84.66537736	SOX15	8.708855797	8.003132965
PDIA5	37.43126133	34.56450456	HOXA3	0.1	0.1
PDIA4	110.2906552	106.2298362	FDXR	1.778346423	1.796154716
CMPK1	29.32037695	34.81406268	HOXA1	0.1	0.129104877
CMPK2	20.99082538	4.592160137	HOXA7	0.125743943	0.1
LRIF1	8.910704714	8.55353801	HOXA6	0.1	0.1
BTF3L4	8.435925338	10.54996109	HOXA5	0.1	0.144772681
TMEM59L	1.010361162	0.533343063	HOXA4	0.1	0.142933063
ARHGAP19	4.233349774	4.669080688	UNC13B	6.616762522	5.847932436
ARHGAP18	6.106754667	7.580103709	SOX13	9.422955319	8.229979054
ARHGAP17	10.90305506	9.778556742	SOX11	1.845810776	2.154878112
ARHGAP12	9.920368713	9.582446005	SOX12	11.6881015	12.40366826
ARHGAP22	0.115757136	0.133752653	UNC13D	0.111825922	0.116887852
ARHGAP21	22.06602376	17.85983826	PRR19	13.61412303	12.87687946
ASPSCR1	7.434297926	6.59366109	FDX1	6.373672433	7.601134079
ARHGAP29	13.1604724	9.433554591	PRR16	36.94299745	32.35762523
SSC5D	0.343356287	0.34930906	HOXB4	10.96044895	13.31012116
ARHGAP28	0.1	0.1	PRR15	0.12520683	0.11799814
ARHGAP27	0.187570631	0.178158799	HOXB3	7.722557143	8.020054047
ARHGAP26	2.098341934	1.855509971	HOXB2	22.05945498	24.86798751
ARHGAP24	6.118472656	5.10020414	PRR12	6.190787766	6.302841269
ARHGAP23	10.33468125	9.279932443	HOXB8	0.517069961	0.863101261
ARHGAP33	4.427318556	4.269953669	HOXB7	10.77908473	11.79538085
ARHGAP32	2.114133179	2.191155644	PRR11	5.332849156	7.761810625
ARHGAP31	2.710746188	2.52886668	HOXB6	6.507707282	7.219289636
ARHGAP30	0.111740402	0.125148587	PRR14	13.46801036	12.37715321
EBPL	28.27776645	44.53184535	PRR13	129.6521384	125.7235067
ULBP2	2.025547701	1.254896204	HOXB5	7.346361533	7.148095275
ULBP1	0.182672306	0.206253181	ENDOD1	0.321399007	0.163233183
ULBP3	0.1	0.1	SKA3	20.76304644	27.14226983
ARHGAP10	8.138352623	8.600027536	HIF1A	94.22409236	89.77850522
TMEM55A	11.99740383	11.84802769	SKA1	4.550931886	5.820484845
TMEM55B	25.37283442	23.76559628	SKA2	12.35364911	14.32858326
MTIF2	7.076163337	8.288640956	HOXC5	1.267090011	1.721602893
MTIF3	11.16471057	11.05904839	HOXC4	2.082529217	2.030312203
TOB2	8.392396204	8.881738474	HOXC9	14.95766092	16.45799805
TOB1	10.89416613	9.017185613	PRR22	0.921069033	1.592294042
NT5DC1	5.562438519	5.96820462	RREB1	2.076257269	1.649039136
NT5DC2	63.96921839	99.69286187	HOXC8	8.153582239	7.697014819
NT5DC3	2.1236081	1.652874714	ELANE	1.115466712	0.419027231
LRIG1	3.001940293	2.600467732	PRR24	32.91785077	26.45056381
LRIG3	4.378340457	4.264001987	HOXC6	22.22554385	23.85954532
LRIG2	3.119706491	2.5025403	H3F3B	52.37777299	56.51604423
PIKFYVE	2.71828979	2.658864306	H3F3C	0.345748708	0.205281456
SSBP1	39.62601864	54.30917693	H3F3A	2.350243635	4.501002766
SSBP2	12.52641967	11.94687144	MAD2L1BP	27.6865308	22.96035822

SSBP3	9.184289059	11.68195232	SOX30	0.131823141	0.111361153
SSBP4	69.901352	71.17466423	TNFSF9	11.98794987	9.590759634
NUP107	14.43482739	20.35692942	UNC119	8.09250415	7.783952048
TEX40	0.798269852	1.196870505	TINAGL1	0.123223637	0.149746311
SPINT2	0.734255324	0.676379941	BATF2	4.396904684	0.429340728
ALKBH7	27.96867901	24.70867673	BATF3	4.972087137	3.919073174
ALKBH6	11.85127926	11.24010102	CNTD2	0.1	0.161245184
ALKBH8	1.517898142	2.115689876	MINOS1- NBL1	9.902571266	9.566565485
ALKBH3	10.76176621	10.78614602	AHNAK	20.62648382	17.32123527
ALKBH2	14.68281459	23.7138301	TM9SF4	52.23411204	44.96174798
ALKBH5	44.04829925	44.76638822	TM9SF3	25.49182121	24.88784427
ALKBH4	6.223441416	6.833264487	ASNA1	105.0578143	109.8465682
ALKBH1	5.707120416	6.227353562	ZMYM6NB	21.66680039	17.38387635
FGFR1OP2	6.272428948	6.221149534	WVOX	1.406685263	1.770366104
SPINT1	0.141997799	0.174968	ADAT1	4.295898307	3.43569521
ASPHD1	6.902426765	6.697861539	WWP1	22.35481957	22.85531489
KIAA0247	2.48900736	2.184096486	WWP2	8.362403528	5.732817827
ASPHD2	0.178405187	0.234358586	ADAT3	16.74613487	17.82581004
SAR1A	47.95876102	42.38638345	ADAT2	0.559370562	1.21519667
SAR1B	5.989529821	5.325865841	TM9SF2	77.13273274	67.60821651
TEX22	0.43239432	0.462983937	TM9SF1	78.09961817	64.39556592
TEX29	0.173274015	0.152318993	CYB561	17.80691907	21.12865223
LOH12CR1	2.392334524	2.234916039	LOC10192910 8	0.1	0.1
ATRIP	12.03316926	12.99928711	TOR2A	3.012388997	2.955650377
TOE1	12.19735003	14.47554015	CLSTN2	0.110641392	0.1
TEX30	16.98323532	16.3502718	CLSTN3	1.879990007	1.202732182
NCAPH2	20.72223629	18.71356009	CLSTN1	71.84319259	61.16391338
PBX3	8.060853393	9.092525133	RTKN2	2.123880305	2.447596035
PBX2	4.578976917	4.759882402	PYCARD	0.167207344	0.291949113
TEX36	1.565003472	1.226503962	TOR3A	14.65320612	16.35926022
TEX37	0.1	0.1	ADAM9	181.7076721	154.5308236
PBX4	1.017686934	1.046465476	ADAM8	0.273118463	0.324745024
PBX1	7.630659816	8.196988802	DNMT1	52.85940795	56.11906021
NCAPG2	24.10019265	28.19079591	FECH	2.455581396	2.735021148
SNX12	54.12167281	56.5859925	SKIL	1.547647114	1.332228993
SNX13	6.199050758	5.802346094	TOR1A	48.00568845	46.52935519
SNX10	0.1	0.1	TOR1B	25.24074075	25.76718035
SNX11	6.588502536	6.153669084	ADAP1	2.132107773	1.188221712
IL18BP	2.032379401	1.400153178	SERINC1	61.26897478	51.53139345
SLC18A2	0.556183734	0.971789546	SERINC3	91.57593677	78.5673276
TEX10	26.63326995	27.38875538	SERINC2	0.136975998	0.126401542
TEX14	0.1	0.114999663	SERINC5	4.670493576	5.298565039
SLC18B1	4.510161205	4.529603922	SERINC4	2.80796552	2.91106552
LOC10192835 2	8.780977629	7.595712336	DAGLA	2.075916926	2.31611552
SNX32	0.479800458	0.681109653	SPANXC	0.742961349	0.375451729
SNX33	4.567199196	4.482917253	ELAC2	62.44426377	78.47166497
SNX30	5.98772032	5.732890078	ELAC1	2.170606203	2.276146784

LOC101928356	1.018588394	1.357120563	ASMTL	2.675521101	4.622870641
SNX29	1.1945149	0.922396384	DAGLB	14.02508455	13.59921717
SNX27	3.319249643	3.581631767	PRR5L	3.441971652	2.186780791
SNX25	5.79482026	5.063163556	CHADL	0.170682009	0.226170633
SNX24	6.469318937	6.314184132	TP53RK	10.17297217	13.35184413
APEX2	46.39739098	48.33126905	ANTXR2	20.30040327	17.97826263
SNX21	8.290810629	7.183308114	ANTXR1	10.2469404	10.07696477
SNX22	0.213523686	0.312777244	CCT6B	0.291601127	0.373613449
SNX18	10.20807956	9.711639412	SAP130	14.45413907	12.1980494
GID4	6.96218427	7.243607144	C6orf226	15.15834115	10.51593434
SNX19	8.715809015	7.271050552	CHAC2	2.259543278	2.456570557
SNX16	5.135786397	5.048035476	CHAC1	20.28107298	13.86764245
SNX17	42.77997216	39.46261711	SKP2	8.163193916	10.34455146
SHKBP1	28.60270478	22.49589323	C6orf223	0.1	0.120471394
SNX14	17.07124455	15.46682719	SKP1	63.52328923	72.72155393
APEX1	107.8161055	131.1835698	NFKBIL1	9.260660101	8.216693812
SNX15	6.717826412	5.934822426	LOC101929078	0.775207728	0.979143082
GID8	12.79737558	14.63769558	ALDH7A1	17.73985823	18.00079089
NCAPD2	41.36051274	54.30564483	RWDD2B	5.650687768	7.786813903
NCAPD3	13.27087682	18.21360086	HKR1	5.988639111	6.077619131
TMEM167B	12.49274098	11.29569379	RWDD2A	1.694667495	1.781246381
RIF1	3.733978771	3.555908748	PRRC1	27.78330602	26.053799
TMEM167A	23.52167883	27.70025924	MAR1	0.1	0.232301975
LAPTM4B	175.4529697	225.814189	C6orf203	3.024793185	4.40077289
LAPTM4A	157.7493142	135.1311715	LOC101929097	0.179013349	0.1
TOM1	21.4133444	16.85220408	CCT6A	135.5945467	173.8187752
CTNNBIP1	7.923213323	7.119675232	MARCO	0.241556613	0.140429609
SDCBP2	0.855774428	1.202736123	C6orf211	8.356364172	9.35574204
ARL8A	23.63002127	20.64128199	HBS1L	11.4432636	13.27948526
ARL8B	37.101144	37.31843474	FEN1	49.33605344	55.95127721
PKMYT1	41.23299386	41.96317622	NKIRAS1	4.162355493	4.785578885
AMDHD1	0.853974525	0.673084028	PCF11	4.985364295	5.629418998
AMDHD2	25.11265141	19.28109508	NKIRAS2	19.37660337	15.70298393
UCKL1	13.86127203	15.28050917	CAMLG	22.94743938	24.96732014
NOXA1	0.1	0.167078058	TOR4A	0.393654306	0.61962828
ZNF891	0.483487498	0.59931357	OPRD1	0.1	0.120909902
ECE1	35.88403165	31.10027625	TBL1X	6.772307489	7.116411835
ECE2	5.484556701	6.064034757	RSL1D1	18.70820511	25.93666081
ARL5B	2.559403254	2.703099381	CAMK4	20.32902087	18.84562457
ZNF888	3.284368943	2.87419747	B9D1	15.46649981	15.31403032
TRIM69	7.954702354	4.33089959	CAMK1	25.45597464	23.13138751
ARL5A	5.1164376	6.245294175	B9D2	3.7349557	4.095205005
TRIM65	6.847504588	7.847176158	STEAP3	27.58507466	29.46369
ZNF883	2.152719645	2.953397398	STEAP4	0.1	0.108113335
TRIM66	0.411529645	0.393053093	BASP1	171.3080749	171.1300405
ZNF880	1.086707116	0.788142659	NPY1R	0.296475047	0.287049057
TRIM62	3.684245873	3.200033153	STEAP1	0.139566852	0.241257297

ARL4C	17.28318615	15.58905816	STEAP2	0.1	0.1
ARL4D	6.884803996	7.237994122	SEZ6L2	12.47074265	8.78693855
ARL4A	12.50555088	12.60715503	NALCN	0.347637172	0.260743173
PCCA	4.334717975	4.584864085	MAN2A2	4.177209806	4.224203832
ZNF879	1.280348326	1.113626279	MAN2A1	13.42739394	12.30655651
PCCB	21.77173675	25.98884267	MARK4	7.799054398	7.387238444
ZNF878	0.424326928	0.584203077	MARK3	22.4425792	25.08500038
TRIM59	0.207226578	0.406246986	MARK2	11.28342143	11.6855537
TOP1	25.89476902	30.5084742	MARK1	5.937441494	6.456610213
DCTPP1	42.12487227	54.78077532	RAP1GAP2	2.431296986	1.909335736
TRIM56	13.61875631	9.627145584	ALYREF	81.22355283	104.7887315
TRIM52	1.722752962	1.67248808	TDRD7	20.09930934	9.186296815
UBQLN1	47.46440799	52.48394004	A2ML1	0.1	0.1
TRIM46	11.57036882	10.07919749	TDRD5	0.1	0.109379056
TRIM47	20.35942578	20.94842889	TDRD3	3.073865871	3.646899804
ZNF865	13.84039427	12.29246972	NMRAL1	36.03105941	37.71163252
UBQLN4	25.60901025	32.07481162	DNMBP	17.18709969	15.05358574
ZNF862	1.222404132	0.981061113	TP53I3	3.088347791	2.069601744
RILP	3.955758838	2.501184864	MAN2B2	22.75673324	16.77576023
TRIM44	15.03279099	14.51394932	MAN2B1	18.0509065	16.24240544
TRIM45	0.999463606	1.156577758	TGIF2-C2orf24	36.60887905	41.99258584
ZNF860	0.116204391	0.123140465	MAN2C1	3.648359899	3.885717909
UBQLN2	15.72490133	14.39286625	DESI1	9.055228029	12.06712161
TRIM41	13.51684631	12.10016023	DESI2	13.69389632	14.91772824
CABLES1	1.00304917	1.233947537	MARS2	2.237289335	4.509964038
KIAA0232	3.472171472	3.598380697	URB2	7.013879191	8.301293466
TM6SF1	0.208855478	0.313743231	URB1	3.926167327	4.760795491
EFR3B	2.022573404	1.786098462	ITGB1BP1	18.48879162	21.62861418
CABLES2	4.766693308	4.049524166	ITGB1BP2	0.1	0.430393383
KIAA0226	7.252712047	4.380096097	MOSPD2	5.283166544	4.749818733
DBNDD1	6.996943059	7.280991479	OPRL1	0.560969627	0.253599032
DBNDD2	22.39872162	26.57163587	MOSPD1	29.8430975	26.16659599
TRIM39	1.198417869	1.071687392	MOSPD3	12.62358298	13.14308586
TRIM35	15.10650797	14.88676839	PRRG4	0.454833591	0.366350405
TRIM36	0.790810309	0.827336592	PRRG2	0.361061693	0.339660801
TRIM37	8.152678008	7.615757761	PRRG1	3.248904253	3.02530574
ZNF853	0.317794621	0.411018721	OPRK1	0.1	0.107138985
TRIM38	0.219979854	0.172488156	SHCBP1	14.54161967	15.32076639
ZNF852	0.626889219	0.457398153	GNPDA1	60.09232494	56.52615717
TRIM32	7.878726149	8.206870188	GNPDA2	3.276130297	3.313688129
TRIM33	5.931202212	6.185240356	PWWP2B	5.598855072	5.698851983
ZNF850	0.354120131	0.383800845	LOC728392	8.311990198	3.255364437
RFESD	0.24843222	0.497437495	DPYSL4	5.411678926	3.838066029
ECI1	31.04338667	32.92357235	DPYSL5	0.1	0.1
ECI2	50.02858381	54.06897128	KIAA1586	3.693121383	4.067223575
MTFR1L	33.69664132	31.5674239	DPYSL2	81.95854509	66.74633177
EFR3A	19.58772288	18.18486115	GPBP1	19.90059486	19.67012141
RINL	0.116966452	0.112114359	PWWP2A	5.235819706	4.974409497
TRIM28	175.565043	186.1850972	FNBP4	12.76554861	14.76430419

TRIM29	0.165969876	0.147103703	SAP30BP	19.66264986	18.15596095
TRIM24	8.0386221	8.602483033	FNBP1	6.157653933	5.925882222
TRIM25	31.07721512	20.10011014	CACNA2D1	2.042569321	1.995099847
TRIM26	16.4950508	11.30745814	CACNA2D2	0.196960203	0.217693323
ARL16	13.055538	14.75941778	FEZ1	0.1	0.1
TRIM27	12.5497587	14.01187404	FEZ2	9.547941063	10.68821545
TRIM21	27.46262178	12.90700605	TCEANC2	3.282760684	3.341325724
TP63	0.393510039	0.332025656	TXNIP	3.684058337	1.818600191
TRIM22	1.394159925	0.292011213	PLBD1	35.24509265	38.65335698
TRIM23	3.789872749	2.962908723	CLOCK	3.307628248	3.494921866
ARL10	4.075863034	3.58771679	PLBD2	39.87061034	32.78006519
GIN1	1.871232605	1.636444753	SLBP	39.70343723	47.49451725
ARL15	2.248212895	2.984789099	URI1	16.27096107	19.49403081
ECH1	31.29630204	29.22226318	ZC3HAV1	15.11748906	9.976358651
TMEM170B	0.519908099	0.809872906	PRPSAP1	8.798920901	8.701317888
TMEM170A	2.671845395	2.403778097	PRPSAP2	6.734741397	8.716572576
TRIM13	1.831709233	1.789336512	HLCS	2.498440948	2.255334839
TRIM14	15.20696285	7.690342372	CREBBP	6.300324025	5.21831831
RIN3	8.427861235	7.106354588	BTBD10	9.32078942	9.793241377
TRIM16	11.13136388	11.32670731	KIAA1598	1.524517388	1.24167831
RIN1	26.8498751	29.49615926	LOC101929668	0.456373089	0.297910948
TP53	79.60986553	80.08940239	JRKL	2.894018257	3.082080026
RIN2	11.09258904	8.985703988	CASP14	0.133037378	0.1
TRIM11	14.94597993	16.61386513	CASP10	0.1	0.10628076
SYNGR1	5.145290756	4.521544368	RING1	5.600020117	4.850955921
SYNGR2	37.72940782	43.45681761	PLSCR1	108.7275343	54.46561278
B4GALNT1	21.64452846	19.24825729	PLSCR3	16.81475868	14.45382952
B4GALNT3	0.1	0.121578922	PLSCR2	0.165020372	0.1
B4GALNT2	0.1	0.1	PLSCR4	2.400202185	1.634334867
B4GALNT4	9.876586576	8.756021406	PAFAH1B3	62.93360275	66.28166807
PCK2	39.69811557	28.76220257	PAFAH1B2	19.43562367	22.70453496
RTFDC1	53.00396515	52.11686225	PAFAH1B1	32.69216201	33.32881398
HARS2	28.2695968	29.18419085	LOC101927029	0.1	0.1
POLA1	8.502768541	11.34188625	ECHS1	47.32132625	52.8245146
POLA2	27.23966589	26.59155428	URM1	17.06829303	18.863586
TP73	0.150506783	0.121637663	CASP8AP2	3.518352544	3.423830357
HERPUD2	10.93284958	8.586676287	MYBBP1A	41.2697948	54.02783659
ECM1	0.566977771	0.483445313	CIAPIN1	16.43036342	21.32434484
COX7B	200.6137006	279.5264491	LY6K	144.0853087	110.6826086
COX7C	392.4789322	546.2136209	LY75	0.1	0.1
HERPUD1	26.99465171	16.96800272	MAP3K7CL	1.067606933	0.774439385
PCM1	23.62919526	23.12199951	ALDH1L2	5.978026165	4.488910496
NMRK1	0.172794877	0.117325626	UROD	53.44092019	57.64938538
MCF2L2	0.296902905	0.270190669	RINT1	7.274722727	7.778093536
GIT1	28.0376282	27.88116275	LY6D	0.1	0.1
ATPAF2	10.54381341	10.61638732	AJUBA	12.42349625	11.10988273
COX8A	574.8430228	621.4089924	LY6E	1523.208952	952.4359397
TOX4	20.47753923	19.12118217	LY96	0.85170658	0.815643077

TOX2	0.610527486	0.581174325	CREBL2	7.784374564	6.180213443
PTPLAD1	32.40760523	31.45890856	KIAA1524	12.73778427	15.70441253
PTPLAD2	1.644599243	1.175972913	KIAA1522	13.3374004	8.20149749
ATPAF1	20.83506407	22.30782502	TNFRSF14	1.649756357	0.874588157
PCNA	84.18055381	103.9089138	IP6K1	23.04893072	20.73874331
NOXO1	0.608080948	0.57614761	SAC3D1	15.28422773	16.76515187
COX5B	115.9359166	135.4753431	IP6K2	22.44197403	24.05296742
COX5A	85.31358808	102.6629608	UROS	17.91614398	18.51345857
PCNP	35.46120862	44.31810162	KIAA1551	2.459905519	2.374473753
PCNX	3.333131565	2.784654027	LOC10192708 5	0.526704534	0.442759236
PCNT	5.699423416	5.567269275	KIAA1549	2.675198086	2.526776945
GIT2	11.70839777	11.63542118	TNFRSF18	0.1	0.1
COX6C	87.36235123	117.3030658	TNFRSF19	13.89738945	12.94918134
YIF1A	98.75936368	77.22092412	TNFRSF1B	1.556049396	1.190114271
YIF1B	29.98316139	29.35395343	ARFGAP3	14.51359114	12.51273192
RIT1	7.463410736	7.404631039	ARFGAP1	32.70064495	25.06499611
IL18R1	0.156761843	0.130396749	TNFRSF1A	190.0979092	184.2876993
NUP188	29.31860231	30.88262148	ARFGAP2	12.17859798	11.23669474
SPINK2	0.1	0.1	ERBB2IP	24.91716105	22.34179439
PCP2	0.204319833	0.137243139	TNFRSF25	0.414475042	0.302086862
PCP4	0.1	0.1	TNFRSF21	27.43076515	23.87204389
POLG2	3.199789332	3.675341318	CANT1	17.57932419	17.10811206
COX19	2.001304146	2.344913757	HM13	166.7560559	152.2733013
BHLHB9	1.308169232	1.398522831	SRBD1	2.884610948	3.403730555
COX16	5.939601896	8.331145785	TXNL1	7.850338149	8.938974505
COX15	7.734925606	7.679000528	TNFRSF6B	134.768505	114.1444884
COX18	1.466836604	1.592623976	C16orf80	20.56687305	25.27924438
COX17	24.78606778	28.24947362	C16orf87	1.377182514	1.870220512
NUP160	11.26619496	11.8491275	C16orf86	0.96782695	1.226626156
TIMM50	22.27826676	30.6031732	C16orf72	17.66081114	18.39071476
COX11	5.035731585	6.492441258	C16orf71	0.483971005	0.237081176
COX14	27.59710826	28.81933845	C16orf70	6.956086164	6.342500728
ECT2	27.44887657	33.876129	C16orf74	2.35623586	2.661067152
COX10	7.88749988	9.911048615	SLPI	0.274333144	0.286715602
NUP155	15.36691202	17.42415555	C16orf62	15.24244976	13.51257986
TIMM44	31.06296108	35.6362112	ACTR3B	2.396447967	5.002386418
NUP153	19.45034297	20.77553773	TTBK2	0.650959864	0.620492461
MKRN1	27.5017843	25.72805451	ACTR3C	0.140555251	0.1
MKRN2	15.24029491	16.18542669	HLTF	11.4786015	15.17058816
MKRN3	0.157425877	0.250344815	LYAR	12.6490975	21.63778546
COX20	9.076290976	9.515338815	C16orf59	5.39724323	6.183625534
SWSAP1	1.381589865	1.885519431	NBEAL1	0.547058467	0.433884186
TNFAIP8	18.30780401	16.69475855	C16orf58	12.88005107	10.21419319
TNFAIP2	0.498189428	0.286581435	NBEAL2	1.959606199	2.314388941
TNFAIP3	2.961815806	2.072927369	C16orf52	1.081756415	1.176523608
PCTP	1.660458874	1.231337785	HIBADH	10.80959608	11.45904564
TNFAIP1	26.84624682	24.03737476	GRIK1	0.50318611	0.398544597
NUP133	13.66713204	14.67969745	ACTR1A	89.66306121	89.49784427
SHROOM2	2.746145425	3.411364085	ACTR1B	10.98261914	9.661029545

SHROOM3	1.801852177	1.742645471	CNTRL	1.87887641	2.197672692
SHROOM1	2.465534632	2.379736015	SLTM	12.30102422	12.49186148
SYNGR3	8.762767784	6.484320166	SLU7	13.6569484	14.47919925
SYNGR4	0.253550572	0.1	GPALPP1	7.067638416	7.932297887
SHROOM4	0.1	0.1	FITM1	0.203591779	0.173966433
OXLD1	24.48358323	26.00608702	FITM2	6.119406831	4.436687486
POLD3	8.733004728	10.36746094	SLX4	3.155957469	3.105985494
POLD4	24.33409	20.45963893	ORMDL2	27.01029415	23.48545259
POLD1	17.25782141	20.3322417	ORMDL3	10.08222293	8.996356824
POLD2	88.90908826	115.4602868	C16orf95	3.335719673	2.057391122
TIMM8B	41.70600104	46.6042014	C16orf93	1.245984051	1.505717836
TIMM8A	7.521610996	10.7240573	C16orf91	15.82349487	17.96436837
TPBG	37.19492713	30.64363388	ORMDL1	8.608693738	9.651473772
POLE4	35.03275521	37.19416617	GRIN1	0.111855609	0.1
POLE2	6.408967542	9.747273739	SEC23IP	7.480978032	6.82731593
POLE3	33.16973459	47.18580877	ACTR10	15.01312251	14.97108464
WIPF1	0.228037651	0.22189498	GRINA	414.4167135	280.0968692
WIPF2	7.067603295	6.397152878	PRUNE	7.272312676	7.937497657
WIPF3	0.1	0.1	GRIP1	0.140476258	0.302305542
KIAA0141	11.91949182	14.17303884	TMOD1	0.1	0.122225384
NPIP11	0.403467356	0.49169306	PCID2	20.07490451	23.44793839
LOC10105997 6	0.830497691	0.836360619	FBXW11	19.27938947	21.35921393
GJA1	179.7385529	127.3223239	TMOD4	0.375082405	0.324473018
EVA1A	20.20836489	16.19746834	TMOD3	9.655920112	10.33862531
GJA3	0.439289938	0.377885609	TMOD2	0.388429689	0.390744608
EVA1B	38.49876994	26.09817212	TTC7B	8.027132368	7.839142205
ZMIZ1	10.01426202	8.781200147	TTC7A	2.31513093	1.986624895
GJA5	0.130020963	0.1	GRIP2	1.259248753	0.472011194
ZMIZ2	25.70743344	25.69644693	LYG1	0.640647159	0.907157826
EVA1C	3.080180581	3.065336748	CNTLN	3.216889978	3.025155191
PXDC1	25.08112908	16.34771818	AUTS2	7.676565168	6.81024103
NUP214	12.92376258	11.90180182	PCIF1	22.75283712	19.89180761
NUP210	0.208111703	0.300703729	USB1	11.61505979	12.0039743
ARMC9	6.187958689	5.095596249	CNTN1	0.1	0.1
ARMC7	5.524827605	5.596078243	CNTN3	0.1	0.1
ARMC8	3.660919842	4.360305091	CNTN4	2.335321944	1.311296245
ARMC1	24.89725647	28.58519796	TTC25	0.556513857	0.409661317
ARMC2	0.572789994	0.477296123	TTC26	2.35405956	2.488477351
ARMC5	2.034415192	1.592339662	TTC23	0.329819386	0.212275707
ARMC6	48.31362481	52.50594618	TTC22	0.1	0.1
LIPT2	0.478811395	0.525037321	USE1	13.26989148	14.79032983
LIPT1	0.994116933	1.442874859	TTC27	4.853595254	5.134026664
NUP205	18.75172701	21.36684842	TTC28	3.203437034	2.38987749
ARPP19	15.16401178	20.48048897	FYCO1	2.814539051	2.544040971
GJC1	2.376776267	2.429303998	LYL1	14.5792076	16.51732571
GJC3	0.1	0.1	TTC36	0.559068721	0.427783501
GJC2	0.798211198	0.692011052	TTC37	24.14477055	23.54398125
POM121C	8.853604187	9.354359994	TTC32	3.449656545	3.710137827
FDFT1	154.7647023	168.3947704	TTC33	2.807957953	3.145144045

GJB2	0.367101681	0.258929589	MIR205HG	0.1	0.1
GJB4	0.118292703	0.113061326	TTC31	3.19292862	4.257003022
GJB3	0.1	0.116731694	OLIG2	0.1	0.1
GJB5	0.330042555	0.1	TTC38	4.746360068	3.745249308
LOC10192845 1	1.998771704	1.581874892	LOC10050746 2	0.195780378	0.250455689
TPI1	547.4787307	603.9390363	SLC3A2	142.3454333	104.846709
GJD3	0.228528642	0.191771811	CAND2	1.242656571	0.875487795
SPTY2D1	3.696905643	3.793890632	CYTH3	8.24899198	7.611796909
SLC17A5	8.443072227	8.084394513	CYTH2	12.71436757	11.52452913
SLC17A7	1.967871854	0.947581754	CAND1	23.61349266	22.99817604
TPK1	0.334302602	0.252087602	CYTH1	5.027492327	3.654039032
PBDC1	19.79366399	20.71131911	TTC14	5.027069093	4.69512023
KIAA0196	59.27158167	58.18095198	TTC12	1.65365042	2.131703322
SYVN1	27.78194637	21.11923893	TTC13	8.19394604	9.369222242
LOC10192848 2	0.154974896	0.1	TTC18	0.180942005	0.196323464
LOC10192848 5	0.644603428	0.669397534	USF2	53.99678998	53.95057126
KIAA0195	7.021766039	6.135269716	TTC19	9.93016462	11.11806916
PCYOX1L	1.505189381	1.408692652	USF1	23.84997571	22.67638306
TPMT	4.352012208	4.642608658	TTC17	8.378558836	8.48451434
TMEM179B	48.60760715	40.44618502	SMUG1	8.178317782	8.79330144
LOC10192849 8	1.089548133	0.974783057	OPN1SW	0.857031358	1.586469318
IPO7	34.10492984	44.28710751	GPD1L	1.609170528	2.848730679
IPO4	30.62496302	36.26168852	LOC10192974 7	0.462210098	0.414044236
EDC3	8.539369398	11.65945016	SMC5	2.93053898	3.601092298
IPO5	77.52261712	91.98099239	SMC6	4.574981645	5.016264275
EDC4	16.41643723	17.20911551	SLC4A2	40.8827016	37.38242321
NPEPPS	17.11377381	14.72736076	SMC3	16.36004219	20.58658837
IPO8	11.18864553	12.43462631	SLC4A3	3.177881719	2.271910216
IPO9	23.31333776	22.37079669	SMC4	30.96120456	39.46551431
TPM4	291.0075097	228.989938	LOC10192974 0	1.080212773	1.383131534
TMEM178B	0.651102768	0.68673288	SLC4A5	0.541929577	0.54994499
TPM3	84.95350846	86.79762011	SMC2	12.09139925	16.66602891
TPM2	251.649625	231.4724199	KIAA1468	4.011536205	3.780945218
SWAP70	10.4945418	10.04686799	NAMPT	104.195302	104.0964336
IPMK	2.209223539	2.253191449	KIAA1467	0.783714535	0.848025002
TPM1	115.205455	89.92728807	PRSS8	0.1	0.119120704
DYRK1A	6.384683354	6.616847431	LOC10192975 8	3.060458798	2.861606121
DYRK1B	6.368964428	4.944780364	KIAA1462	0.211723176	0.311396861
ZNF799	1.284360642	1.619312834	DEPDC1B	11.80148571	15.37319702
IPPK	4.715530402	4.887431581	ADCY9	5.424888231	4.180502297
ZNF793	0.296978581	0.563611963	HMBS	26.74671673	34.59967818
ZNF792	0.59046231	0.369383923	AC022007.5	1.989635272	1.410126059
ZNF791	2.22385982	2.805867032	PLAC8	47.25965434	39.6636807

ZNF790	1.180993523	1.310743898	FAM171A1	15.76951472	18.68462779
GLT8D1	33.42393807	29.81899148	PLAC9	15.07555384	16.63528953
GLT8D2	0.636334159	0.308883151	NCSTN	86.83296667	66.1617399
ZNF789	1.124625399	1.108423494	FAM171A2	6.214235331	5.789462086
TPPP	0.307045939	0.371030108	PLAC1	0.376827408	0.132943309
ZNF787	48.19203926	49.89289631	POU6F1	1.601016147	1.358770425
ZNF786	1.737387249	1.859362227	SMG1	2.796189301	2.541849696
ZNF785	1.006959506	0.702141135	SMG9	27.10229993	28.17679981
ZNF784	3.145240183	3.891187324	SMG7	16.29466374	14.68422455
ZNF783	3.715015906	3.821906236	LYST	3.817216334	2.743480025
ZNF782	0.705883379	0.661474972	SMG8	6.605839646	6.710166783
ZNF781	0.645637218	0.643071815	SMG5	45.68687552	44.20165494
AKIRIN2	36.32068845	37.29016557	SMG6	7.695215932	6.03319048
AKIRIN1	24.01740741	25.26034969	MYZAP	0.229986515	0.130937586
PXDNL	0.283727992	0.243678987	USO1	21.88560792	21.45669523
C18orf8	17.44043072	15.38093009	ADCY3	13.17124045	14.46936803
PDCL	5.185667957	4.861520196	ADCY2	0.107927862	0.1
TPP2	18.03517931	19.28243957	ADCY1	0.54473851	0.438325862
ZNF778	2.015055387	1.775817374	ADCY8	0.868913624	0.454205454
ZNF777	10.29541711	10.80969622	ADCY7	0.182149394	0.25250606
TPP1	63.90316751	45.19466281	ADCY6	6.366434871	5.732483045
ZNF776	3.751903824	3.492588138	FGD1	6.990379894	6.989536361
ZNF775	3.068644399	3.295805086	ADCY5	0.619125363	0.376615706
ZNF774	0.580506914	0.907272387	FGD3	0.1	0.121485182
ZNF773	1.267144106	1.168739482	FGD4	0.106192785	0.104421763
ZNF772	2.0365488	1.804456058	ARFRP1	10.70351035	11.0266358
ZNF771	2.563668805	4.153589293	FGD6	0.267801282	0.391545449
ZNF770	3.399401952	4.852519822	USP1	26.67573575	30.6398276
KIAA0100	26.17695571	23.91809675	PCGF1	6.31273003	8.264540699
ZNF768	26.49079988	27.41989345	GPAT2	0.232233604	0.194417222
ZNF766	5.775349586	4.775735232	PCGF6	4.107004323	5.007075794
ZNF765	2.324699648	2.142326825	PCGF5	0.597589965	0.434691949
TNPO1	29.2713795	29.90448426	KIDINS220	8.166880802	6.520047236
ZNF764	2.589796536	2.872775655	PCGF2	22.09428545	17.52534567
ZNF763	0.434661504	0.423291331	PCGF3	7.258542556	8.338541458
TNPO2	28.33039737	28.69281269	LOC101927160	0.416133531	0.400966866
TNPO3	23.42297652	24.11021909	VMA21	13.24139143	16.51667489
TPRN	6.892565291	7.445519033	JKAMP	15.02649746	15.66416221
ILKAP	9.274075298	12.52328299	FGF1	2.927110185	1.797060335
ZNF761	4.638952974	3.772428133	NDUFC2-KCTD14	10.0168078	11.58152763
EDF1	193.167157	206.178701	FGF2	29.68017055	22.66096319
WIPI1	14.92393506	10.22184888	RIMS2	2.463421675	1.971538693
WIPI2	23.41846938	23.25700573	FGF5	16.0642447	11.78786308
ZNF75D	3.834234576	3.748163502	RIMS4	0.1	0.107119802
ZNF75A	2.374702805	3.243573405	RIMS3	1.530115385	1.146785157
NPEPL1	9.848294535	7.926274877	FGF9	0.168809638	0.20645125
PDHB	28.95459153	37.56580466	CSGALNACT1	19.64280012	18.64708309
ZNF749	1.536686048	1.632398125	USP8	6.900184238	7.649410785

ZNF747	4.201022729	3.498428362	USP7	12.42128893	15.43805698
ZNF746	4.285399958	4.993590905	USP5	41.77824163	42.26250101
ZNF740	7.777949534	8.50196809	USP4	21.80100672	18.70110372
KIAA0101	22.61111491	32.81482939	MAMSTR	0.869268662	1.198543914
ZNF736	0.577103564	0.882257926	USP3	3.726395788	4.318905859
TPT1	180.7315899	222.7035244	CSGALNACT2	9.936439077	8.126740811
TMEM183B	3.327922251	3.557193682	USP2	1.282924871	1.431534494
TMEM183A	14.39191567	16.70305455	CHD1L	14.85194015	14.72938372
ZNF846	0.974385204	0.967966943	PYGO1	0.879361936	1.000965579
ZNF845	3.262975435	3.190472989	PYGO2	19.45920227	19.1953302
ZNF844	1.403347792	1.060251665	RTN4R	0.235360284	0.177319784
PDK3	1.531007864	1.539761047	HMMR	14.98575272	19.88119336
ZNF843	0.125807887	0.118427306	FGGY	1.897911396	1.159833319
ZNF841	2.512598002	1.956622352	SMN2	3.035821549	5.089940044
PDK2	6.133673356	5.247761836	SMN1	4.735652407	8.865636807
PDK1	2.269224579	2.757445563	KIAA1407	1.337242022	1.185862468
PDHX	9.819131134	10.10598994	SLC4A11	3.47499076	3.614738015
ZNF839	2.633206705	3.257990426	DAB2	57.05332342	32.00211162
ZNF837	1.888779827	1.140023351	UFSP2	9.271726074	9.626916996
ZNF836	1.191085925	0.923572846	KIAA1430	9.207867632	12.79421676
HSBP1L1	4.810249112	5.095347712	UFSP1	1.508317749	1.403509856
ZNF830	5.367238704	5.607039758	KIAA1429	28.5808212	29.15776894
TMEM185B	5.428111768	5.228715128	PAAF1	8.009000375	8.559684465
TMEM185A	5.569518245	4.227379053	CTDSPL	6.012300208	6.669539195
STXBP3	16.16483755	15.03844167	CTDSP1	25.99686475	26.3387089
STXBP4	0.460307244	0.566668542	DAD1	179.6561352	175.938056
STXBP1	11.7160279	11.56393943	CTDSP2	60.16478318	53.12544551
STXBP2	0.611967978	0.273157415	SMPX	0.1	0.1
GSKIP	4.476489674	4.201423413	PLAG1	1.523031708	1.77323099
ZNF829	1.142742245	1.4490128	HN1L	23.72704017	28.02889568
ZNF827	3.912483514	3.361316969	NLGN4X	0.443770555	0.399339624
ZNF823	2.727961916	2.424511735	SMOX	15.03906716	16.16402547
STXBP5	5.863759647	4.99744102	MFAP5	0.117480241	0.1
ZNF821	1.803320557	1.351972822	MFAP1	20.24591448	21.33519644
TMEM184A	1.027110105	0.992482328	KIAA1432	7.113687488	6.048911327
TMEM184C	7.329522241	6.857995989	MFAP3	5.862646324	6.455827949
TMEM184B	44.82158714	34.98888783	MFAP2	100.2816556	97.05601186
TPX2	110.0034797	135.9971418	ZACN	6.418398551	5.924309232
ZNF816	2.14249651	1.342323731	PDCD2L	3.599308812	5.417471144
ZNF814	1.29067068	1.469703414	TIAL1	12.35437418	13.07646993
ZNF813	0.931121193	1.481731118	DAG1	67.53251038	61.40053591
ZCCHC11	8.206565694	7.638021463	BRICD5	1.539792533	1.583766647
ZCCHC10	5.523611768	6.609193976	SLC51A	0.207116035	0.227471361
ZCCHC17	13.73048464	14.32867901	TIAM2	0.170251896	0.168971573
ZCCHC14	7.136086709	7.147408506	TIAM1	3.919634196	3.586274791
ZNF808	1.323859741	1.063484836	HMSD	0.1	0.1
ZNF805	1.008095598	1.06710052	GINM1	20.4307973	17.12518538
ZNF800	2.903793271	3.193938035	RPAP1	7.313710164	7.343903068
ZCCHC24	0.384347147	0.355666258	RPAP2	3.205057043	4.224222846
EDN1	0.941115913	0.453277773	RPAP3	10.30144414	10.8952374

EDN2	0.1	0.1	PDCD11	18.4999119	22.55580138
PPHLN1	4.072144494	5.335231646	PDCD10	21.91820595	28.07498576
CYP7B1	0.121691556	0.146464509	SMU1	12.48156227	13.2249842
VWA8	1.689012522	2.156757538	SMTN	12.39158756	11.73942683
VWA9	10.39079051	12.89721418	ADCK2	10.20896252	10.40916547
VWA1	2.296694905	2.408930713	ADCK1	6.076489786	5.662464489
VWA2	0.1	0.1	ADCK5	4.116313581	3.880178581
VWA7	0.153484499	0.142432128	ADCK4	9.05271699	8.96737333
PDPR	5.568874226	5.414610658	ADCK3	2.971042845	3.373014662
TRAM1L1	0.971407705	0.539200784	DCP1A	5.194955687	5.328698955
PDP1	35.70330633	32.14051143	DCP1B	10.50985041	8.477230362
MPHOSPH9	2.692038186	2.668112839	RPAIN	7.20561927	8.653741409
HIST3H2A	8.479238222	8.775248541	HMX3	0.1	0.1
PDP2	1.828754097	2.104519788	C2CD5	5.702802427	5.221267592
TRIML2	0.25685772	0.144799718	C2CD3	2.978205169	2.257612932
F2RL1	9.344191845	7.807043198	C2CD2	3.603252961	3.425442028
MPHOSPH8	7.6433303	8.103056348	GPR75-ASB3	1.355619987	1.818360165
MPHOSPH6	6.422862048	9.937871501	PDCD1LG2	4.231271717	1.689531637
RALBP1	14.67436835	15.05016773	HMX2	0.195733311	0.168355343
VWDE	0.1	0.1	MATN3	1.14586388	0.832405139
SPECC1	24.52660907	22.68064475	MATN2	66.27151702	53.77372415
MGEA5	22.23601443	22.05326632	CHRAC1	25.49471367	28.08357824
TSGA10	0.387099162	0.441656794	TIAF1	2.835586629	2.976617961
CORO7-PAM16	2.116698013	2.51345313	GIN51	8.929663676	11.98727612
MRFAP1L1	18.70064565	22.02563465	GIN52	11.59091804	12.45424348
FAM86C1	1.724246462	2.278908861	GIN53	5.075676465	6.75554048
FAM86B2	0.361353545	0.224407489	GIN54	11.40728132	15.90920334
IQCE	6.603362183	6.487539823	GRHL3	0.208646797	0.203434412
FAM86B1	0.587530752	0.698742172	GRHL1	0.679434808	0.614636147
IQCC	2.95471474	3.675146413	GRHL2	0.179451389	0.16382097
IQCD	2.946306266	2.85687943	ZWILCH	7.352322424	9.960188941
IQCG	2.055650373	2.301336699	LZIC	9.027445112	10.10313694
IQCH	0.259322152	0.266263071	CCDC28B	7.789539191	9.116873125
IQCK	1.699349291	1.47823335	CCDC28A	3.08650389	3.149854572
THRAP3	29.8031895	29.46900476	AZI2	10.32262631	8.478317353
PDXX	34.98287884	28.18823936	AZI1	2.770057341	3.451697248
PDXP	20.28456098	28.51727643	MATR3	39.27667675	44.43560404
ERICH1	22.5833582	25.57132744	PRTN3	0.255698133	0.174114218
ERICH2	1.779033667	0.910994127	DAP3	65.32314811	73.06279219
S100PBP	8.287778684	8.158769297	STEAP1B	0.499932848	0.614006922
CRAMP1L	3.112943862	2.836256752	TCTEX1D2	13.25997001	12.11872836
MTMR1	13.11431899	15.23704355	PMAIP1	14.75154816	9.028657767
MTMR2	7.729208507	8.271092549	DARS	18.75950258	18.55123253
MTMR3	6.206817144	5.182296789	GRHPR	209.5877404	220.0819215
MEAF6	9.088513175	10.72101151	RABEPK	23.10790583	29.67507844
MTMR8	0.275708941	0.30909902	OASL	83.0476264	28.67229299
MTMR9	4.673620387	5.519374534	TOP1MT	28.77879436	36.71164044
MTMR4	3.59588439	4.06772216	PLAUR	74.62711892	66.53731255
MTMR6	11.01614255	11.4287973	SUPV3L1	15.38329457	20.70471664

MTMR7	0.778009856	1.019110227	ALDH1A3	54.90443635	42.72221554
MLLT11	9.512858803	10.05251261	RABEP1	23.95988859	25.34902796
MLLT10	7.517268334	8.434792166	OAS1	85.03553743	23.30099182
SASS6	3.11128202	4.504872772	RABEP2	5.819197597	4.932003225
NAPEPLD	0.980082619	0.866642093	OAS2	185.9109287	55.59376766
LITAF	2.328737395	1.930767503	OAS3	126.4230537	45.04176252
TRIOBP	14.3616369	12.008891	LOC101929728	0.282157353	0.43816561
HIST2H2AC	2.596514454	3.580230694	IGLV5-52	0.285209544	0.49672905
EEA1	4.210794332	4.434619614	OGFRL1	3.769051163	3.869804535
VWA5A	0.114687949	0.110487466	ALDH1B1	15.78691653	25.7155154
HIST2H2BE	1.946221719	1.368176621	LURAP1	1.954399286	1.303704689
SUMF2	84.63046659	77.31241054	SNCA	0.407021544	0.411521769
SUMF1	10.79797235	13.50608227	SLC4A7	9.919784864	9.569195535
FSTL1	179.2642607	143.3279172	SLC4A8	0.457068599	0.402167158
FSTL3	24.63771983	21.1510501	SUV420H2	3.5874179	4.309039211
SLC16A1	46.28550383	49.02804381	SUV420H1	3.532351058	3.747347718
P2RY11	1.702947848	2.051337017	NSDHL	60.81606297	62.34082484
LOC101928120	4.752353162	4.221574019	DAXX	14.26943277	15.01352801
ZNF699	0.569588136	0.400000392	SND1	74.29495372	69.47708788
ZNF697	0.723210992	0.763828736	SLC5A6	8.927202291	11.22713825
ZNF696	4.113308209	5.680748432	PADI2	0.171443425	0.176517877
ZNF695	1.03841513	1.473044351	TBPL1	9.301702195	11.14155992
PECR	1.986564756	2.305781103	PADI1	0.154017444	0.109642362
ZNF692	4.837918557	6.493796085	SLC5A1	0.120530044	0.1
ZNF691	4.768557806	4.654403893	SLC5A2	0.122855819	0.13263895
KPNA6	13.58633448	13.59336141	OAZ1	346.0338522	362.5287772
SLC16A6	0.480932246	0.578331852	SLC5A3	3.981984674	3.003188887
KPNA7	0.13016915	0.1	OAZ2	21.71021281	24.66810902
KPNA4	10.36762238	10.62398791	OAZ3	4.609862826	3.947421971
ZNF689	4.514542951	5.297775677	HMGXB4	7.591445021	8.852163885
SLC16A9	0.38666368	0.360505807	HMGXB3	28.69914915	27.58097217
KPNA5	1.355309129	1.6869162	B3GALNT2	6.665030789	7.475082744
ZNF688	5.241453186	4.840146303	B3GALNT1	1.227204307	1.230857579
ZNF687	10.40737138	9.455104703	NAPSA	0.323927918	0.126648108
KPNA2	157.2132558	176.9155254	ERLIN1	28.07725064	25.38314205
SLC16A2	68.88745512	56.84753507	AZU1	0.498748836	0.913468556
SLC16A3	2.41503055	1.859617849	SNF8	26.93150796	28.21090023
KPNA3	18.8298636	19.70833773	ERLIN2	16.90042297	17.31008871
SLC16A4	0.158241342	0.183170776	FGFBP3	0.241832659	0.38934607
ZNF684	1.834186642	1.921983365	ELOVL1	151.3210295	137.3894785
KPNA1	19.87807066	21.61984091	FGFBP1	0.864551538	0.236475961
SLC16A5	1.993605254	1.338536433	FGFBP2	0.1	0.1
ZNF681	0.363874425	0.471112945	ELOVL4	2.188237604	1.906219203
ZNF680	1.164382897	1.20645449	ELOVL5	50.93929725	46.15790947
ACAP3	7.245185305	7.03197978	RIPK2	33.72262529	34.46770909
ACAP2	4.352136813	4.442454587	ELOVL2	3.07119478	3.742038898
ACAP1	0.45214183	0.307064723	ELOVL3	0.1	0.178312807
ZNF678	0.687191082	0.7526706	RIPK4	2.528507524	1.728617833

ZNF677	0.799029493	0.705315623	ELOVL6	24.05394964	18.60333997
ZNF675	2.366715038	3.238862894	ELOVL7	2.883338569	2.762305583
KIAA0408	0.343002034	0.28720591	POU5F1	0.246627573	0.180534447
KPNB1	81.1401006	88.53728523	SLC29A4	2.418130311	1.921989483
ZNF674	1.230203777	0.970457089	SLC29A1	28.67842882	46.15050408
ZNF672	11.37144531	13.0248406	SLC29A3	0.119574709	0.141930105
ZNF671	2.533215109	2.675560429	SLC29A2	1.519858936	1.766529368
ZNF670	1.312773974	1.531456627	RECQL4	37.55229637	43.50289622
BEAN1	0.1	0.112729638	RECQL5	3.022948705	3.151802419
TSACC	0.515056807	0.593930309	UTP6	18.66660649	23.11095732
PEF1	37.71807979	38.20633645	UTP3	11.15186355	13.94992022
THADA	4.099410668	4.726509186	YLPM1	5.756732383	6.071900908
ACAT2	36.53173437	40.86552601	LOC10192945 1	1.05323444	1.461253805
ACAT1	55.04005484	60.4430823	CSE1L	93.07373555	115.9029345
ZNF669	3.327276297	1.842301745	STK19	3.481869831	2.905182096
ZNF668	10.18199302	9.253778529	HNMT	0.1	0.1
ZNF667	2.521753835	2.519184751	STK10	19.36486961	19.55610278
ZNF665	0.652505225	0.719926812	STK11	27.81885409	27.08056295
ZNF664	8.870682746	12.15303041	STK16	6.598075055	6.821681812
KIAA0430	4.585483966	4.349576511	LOC10192947 9	0.421679734	0.375622287
EEF2	1120.194537	1331.073451	KIAA1731	2.700144637	3.301744348
LOC10192817 0	1.965324689	1.875834795	UTRN	6.461967589	4.80385347
ZNF658	0.583871503	0.479199791	STK39	4.11456111	4.31473116
ZNF655	7.195682069	7.983631208	FHIT	0.910249274	1.291097079
ZNF654	3.624978453	3.058360084	STK35	5.486279886	5.426430784
ZNF653	2.859911589	3.014541628	STK36	3.11075283	2.963804927
ZNF652	0.484255007	0.400187735	STK38	11.50464574	10.38496546
POMT2	5.194934426	4.947965501	SRD5A1	8.310569643	8.016620752
POMT1	28.07857929	23.95423036	SRD5A3	3.447179286	3.952995213
NRARP	0.159463499	0.170763385	KIAA1755	1.8662786	1.077684667
WISP2	0.887683042	0.81580748	STK24	32.4700729	32.91253103
SUMO1	41.6746303	48.19852588	STK25	34.31279538	37.60966668
ZNF649	2.337752556	2.674866199	FHL1	52.66289173	48.86958067
SUMO3	59.08268354	59.51631927	FHL2	31.66953931	25.25126832
SUMO2	96.10751936	117.2284834	FHL3	7.561921497	7.017379208
ZNF646	5.702745409	5.099152241	CAPZB	100.0335614	95.20546107
ZNF644	8.577579764	8.341822774	TNFSF12- TNFSF13	1.744380548	1.572622477
ZNF641	5.256255703	4.524524222	DBF4	7.665978142	11.09438045
OVGP1	0.378062143	0.629443942	SNPH	1.570231374	1.016889653
NSMCE4A	12.66338071	14.4042863	TMPPE	0.570976069	0.482991895
ZNF639	8.945338562	10.72471471	SNRK	1.885640169	1.818757415
ZNF638	6.223100727	5.943824715	OGFOD3	4.70458914	3.913803037
LOC10192819 2	0.276225499	0.18807977	OGFOD1	18.93663851	19.54373015
ZNF630	0.1	0.1	OGFOD2	3.496814264	4.736770772
C2orf81	1.614954241	1.447971045	FNDC8	0.898267931	0.98916563

C2orf82	0.374874481	0.296265429	FNDC5	0.99157307	0.479511271
CKMT2	0.328357261	0.36495833	FNDC4	7.001964984	4.650750488
ZNF629	6.487105376	6.049805192	FNDC1	1.154727498	0.490703323
ZNF628	5.690805476	4.795830238	TAGLN2	438.8824947	449.0944518
ZNF627	6.104145488	5.293701339	CAPSL	0.410465799	0.432517426
ZNF626	0.833871521	1.020042558	SNX3	173.8386968	170.1149283
CDC37L1	6.096731618	7.068809782	SNX4	9.566220824	10.01132661
ZNF625	0.864439037	0.602157635	SNX1	5.73560455	6.086815515
ZNF624	1.309534704	1.20678796	SNX2	14.12903682	13.39859769
ZNF623	12.72236801	11.32717973	SNX9	37.57126596	35.17996419
ZNF622	28.74689209	27.6794687	SNX7	37.55915893	38.807833
ZNF621	1.416695102	1.556130772	SNX8	31.41144237	25.03870533
ZNF620	0.231001059	0.166812259	SNX5	27.17226459	33.1604722
C2orf70	0.232867716	0.19486999	SNX6	21.62267189	20.70653192
C2orf72	0.129014955	0.131075816	SNW1	30.89277109	33.91921539
ZNF619	1.440998545	1.163886219	CRIPAK	0.3806281	0.450653833
ZNF618	0.675779543	0.657653985	CCDC122	0.927496696	1.097055736
C2orf74	0.299237879	0.1	CCDC121	0.352628648	0.65402888
C2orf76	2.945387962	3.77009418	CCDC120	2.827260224	2.635835438
ZNF616	2.057818019	1.826839924	CCDC127	14.3009672	14.51984757
ZNF615	1.153752685	1.015569595	CCDC126	0.604177375	0.744985502
ZNF614	2.210937259	2.844777908	CCDC125	2.801858382	3.348613314
ZNF613	2.210034764	1.55902663	CCDC124	63.93717447	82.28002115
ZNF611	1.262322933	1.149604614	CCDC112	2.797705964	4.915529047
ZNF610	1.040813761	0.509608725	CCDC110	0.799137268	0.509597418
LPGAT1	3.482325403	3.015776053	DBNL	70.03981652	58.68469978
SRGAP2D	0.377030022	0.390889007	CCDC115	2.626140241	2.805565811
SRGAP2C	1.607547724	1.271394721	CCDC114	0.229071496	0.284318838
C2orf69	5.49301078	5.612384136	CCDC113	0.159125126	0.135180355
C2orf68	4.594729473	5.083577308	CCDC117	9.055770123	7.749335696
ZNF727	0.428545625	0.48120487	CSDE1	55.43599963	60.22643536
ZNF726	0.390969474	0.49662805	DBN1	86.69112451	94.41234206
ZNF721	1.760846451	1.878812317	STK40	23.11385536	21.35246141
ZNF720	0.397752148	0.552931508	CAPS2	0.34173606	0.413825433
PELO	15.02709636	14.68359684	CCDC101	11.24853641	11.08967043
SRGAP2B	2.051499306	1.556743009	CCDC104	9.939511412	10.41059564
PHYKPL	7.676598422	7.160717697	CCDC103	2.386435031	2.021870448
SCAF11	10.35134467	10.02324975	CCDC107	25.04322042	17.93940424
C2orf50	0.149196285	0.135127051	CCDC106	26.47845078	26.06755984
THAP2	1.205574696	1.517855525	SERTAD3	19.14203707	18.23653568
THAP1	6.237298987	8.898523956	SERTAD4	0.894127015	0.959677421
THAP4	26.39797204	34.97200817	SERTAD1	18.76796924	15.6456879
THAP3	8.432042513	8.829080632	SERTAD2	6.178184723	5.567436957
THAP6	1.653601631	2.069785236	ALDH4A1	5.689791552	4.979368592
THAP5	4.407071681	4.665435837	EPPK1	0.103245535	0.1
ZNF718	0.85537465	0.969566507	KIAA1715	4.524644752	3.973493155
ZNF717	0.90239707	0.84143397	CCDC167	31.05325681	37.0149673
THAP8	9.863993426	9.287157869	DBR1	6.589081436	7.022405732
THAP7	37.99682523	40.44961232	CCDC169	0.446630705	0.873439662
C2orf54	0.1	0.1	CAPN8	0.1	0.1

ZNF714	0.854968603	0.849632332	CAPN7	9.424588175	9.534894373
THAP9	0.498833479	0.697107677	CAPN5	3.955250693	2.405191752
ZNF713	0.452212047	0.656861575	CAPN2	289.8385869	265.1084653
ZNF710	2.885292568	2.406950073	CAPN1	62.75710838	53.4152924
APH1A	109.2527051	99.30152119	ARHGEF40	3.462373057	2.339084477
C2orf44	3.6888273	5.253555188	CCDC154	0.147422434	0.184651224
ZNF709	0.715059005	0.584594128	CCDC153	0.322966854	0.354723888
C2orf47	8.621108922	10.03593737	CCDC159	1.707125834	1.167458019
ZNF708	0.411474056	0.628195721	CCDC157	1.611197727	1.223064693
COMMD8	6.501927899	5.170236595	CCDC151	0.869292394	1.078420857
APH1B	4.399330577	4.142936786	CCDC150	1.072764752	1.479077548
ZNF707	7.663651398	7.224716811	CCDC142	1.309283009	1.228469679
COMMD9	14.59884327	13.70784643	ARHGEF26	0.503485955	0.577818394
ZNF706	30.51224892	32.80009139	CCDC149	4.461247033	3.460574385
C2orf43	0.1	0.109360123	CCDC148	0.337303795	0.282473059
ZNF704	1.321875634	0.941649592	ARHGEF25	8.92608769	7.938008797
C2orf42	3.158220303	1.830420192	ARHGEF28	8.180582754	6.558776415
ZNF703	5.572328623	5.440604422	CCDC146	0.349391069	0.389363433
ZNF701	1.66660586	1.29226464	ARHGEF33	0.16035232	0.220659462
ZNF700	4.630738737	3.987151505	CCDC134	3.191007877	3.556804016
C2orf49	3.000048406	3.884945805	CCDC132	3.803045013	3.66848723
C2orf48	0.1	0.456674675	ARHGEF35	0.1	0.1
INTS1	26.82056646	24.77980084	ARHGEF37	0.920781771	0.483188672
CRADD	1.875488399	1.992913911	CCDC138	1.510540102	2.982002886
INTS3	16.85954138	18.11671744	CCDC137	18.55021643	22.38464132
INTS2	1.07798574	1.340084101	ARHGEF39	3.484109416	4.446070603
INTS5	15.91469619	15.4683897	CCDC136	0.161539063	0.143940022
PEMT	28.43254933	34.39527493	CCDC130	9.885694184	9.483287597
INTS4	7.787931112	7.297375526	SOBP	0.425112292	0.43927591
INTS7	9.340076172	9.17269258	DNPH1	46.24994241	62.18734966
INTS6	4.818414707	5.223119267	GPER1	0.362291873	0.199883315
INTS9	13.61760668	14.18798833	ARHGEF11	6.147314053	5.578836349
INTS8	19.2445486	21.28625545	ARHGEF10	26.92752523	26.73204627
TMEM151A	0.88029586	0.525190047	ARHGEF12	12.50509178	11.50110652
PEPD	47.55400225	35.42250451	ARHGEF17	2.420618925	2.117793501
ACADM	24.62512524	31.32069607	ARHGEF16	1.423827306	0.981369651
ACADS	1.48211535	1.144906089	ARHGEF19	3.941890407	3.039121783
ACAD8	3.601418354	3.355914272	ARHGEF18	8.010184351	7.142655001
TMEM150A	6.590136287	6.824799446	BLVRB	45.25391363	29.35065674
ACAD9	29.17390421	27.51570961	BLVRA	24.3291913	23.17730679
MINK1	40.12886478	36.37548634	DNPEP	20.74839516	14.40209853
COMMD2	8.987509337	8.838048319	CCDC183	0.796316649	0.856582643
COMMD3	21.55334049	23.68747934	CCDC176	1.555170991	1.724213329
COMMD1	13.9439588	15.23941425	SOD2	398.0670012	284.7447504
COMMD6	15.08967512	15.94662779	SOD1	81.09236348	86.03865828
TMEM150C	0.375165662	0.355415339	EEDP1	5.98566846	5.552929485
COMMD7	7.014227397	5.592097419	BRMS1L	2.815899468	3.742929688
COMMD4	37.17479079	32.3726635	CCDC174	4.610634521	4.197902817
COMMD5	12.1829524	12.41055869	CCDC173	0.363468901	0.407835404
KXD1	67.12758977	80.04352019	CCDC171	0.471910708	0.52322203

C2orf15	0.245318257	0.177819929	FNBP1L	14.95711234	13.77686831
SATB1	1.926377946	1.859555065	PLCE1	7.2419723	5.986188066
SATB2	3.645017329	3.912995441	JUNB	143.4237322	144.5139619
HEATR1	10.8343928	13.80263046	NHLRC3	3.927681262	3.615392014
DOT1L	9.713700891	10.58645382	NHLRC1	0.854681156	0.691003585
MALSU1	45.30793241	54.63579398	NHLRC2	1.530448177	1.539197937
PES1	67.46601719	81.74777963	FICD	4.631183455	2.796123526
PERP	12.888564	12.4302319	SRCAP	9.563723169	9.028240684
HEATR2	27.71908837	30.13171509	PPP4C	53.15890393	54.28707631
HEATR3	4.077983494	4.056711059	PLCG2	0.489148142	0.334443466
HEATR6	4.210707838	4.790791402	PLCG1	22.99328709	21.593165
PER2	0.566922546	0.56791758	NR2C2AP	18.05698488	20.31760558
PER1	3.45383058	2.94370227	JUND	138.6455603	121.7189778
LOC10106058 1	0.153228767	0.423053701	SLC6A6	13.52936532	14.65363763
PER3	5.158676554	4.294183427	FIBP	35.85680995	34.78944092
CMSS1	19.3177488	30.98164729	PPP5C	53.26161139	67.85668257
ESYT3	0.142031777	0.115005731	SLC6A8	24.34878678	24.58319018
ESYT2	23.72531632	23.6816027	SLC6A9	43.85247663	26.39418328
ESYT1	92.71830417	79.89105186	GIPC3	0.195718613	0.168344848
ACAA2	19.30639247	20.181485	GIPC1	85.4752229	84.84854204
SATL1	0.43332625	0.406001371	PLCH1	0.131994628	0.111422376
ACAA1	28.42734238	25.45912904	PLCH2	0.1	0.1
EOMES	2.243345034	2.035788453	HRCT1	18.80245971	13.18057439
PCOLCE	2.280670885	2.22947991	IMPA1	6.758198133	6.720643504
TANC2	3.260955106	2.399564545	IMPA2	19.4000515	18.68328429
TANC1	1.446808996	1.212971429	RIOK2	12.09480657	12.34304046
ACACA	9.493422302	9.590095219	RIOK1	13.4405236	18.1878502
ZNF385C	0.180048193	0.14286691	PLCB3	9.577842954	9.813905248
ZNF385B	1.379821604	1.442520004	RIPPLY3	0.123244419	0.116596942
HORMAD1	0.236857948	0.666770716	PLCB4	1.261073238	1.243929588
ZNF385D	7.700680356	9.164027444	PLCB1	0.229752045	0.244114979
ZNF385A	3.799127117	2.843392306	PLCB2	0.1	0.153013304
BCKDHA	24.55282766	23.62363977	FIGN	1.071853324	0.80412585
BCKDHB	1.947405323	2.368420184	MIPOL1	0.447832557	0.53167131
PEX2	8.902690717	8.923082171	RIOK3	6.885210153	7.344164299
PEX1	2.370001462	2.459850735	CARD8	3.775883313	3.274143533
TCTE3	0.517279333	1.490410513	CARD9	0.271294837	0.239780183
GPCPD1	2.504150368	2.250214276	LOC10192957 1	3.972514912	4.736770772
PEX7	3.755706385	3.428656616	TTC9B	0.161626663	0.1
LPHN1	7.039103021	7.564813861	TTC9C	11.66035454	13.43542303
IRF3	30.87991018	29.0285399	POU4F1	1.896585947	3.656841713
PEX3	6.991878128	8.778483723	LRPPRC	17.64209156	20.24708074
IRF1	41.71656881	22.52975889	FAM71E1	0.1	0.209664941
PEX6	5.684242465	4.044834139	POU4F2	0.612731482	0.513338369
PEX5	11.40466478	11.13767918	FIG4	7.512050145	6.897610484
IRF2	14.46180273	11.2912308	PLCD3	5.625453736	5.181686349
IRF7	19.43924913	9.133903464	PLCD4	2.199684189	1.985374031
FAM96B	39.7166463	42.57390489	SLC28A1	0.117162629	0.1

FAM96A	6.882692376	8.453589304	PLCD1	3.259430059	1.575474723
IRF5	0.204987424	0.199950599	SLC28A3	0.219904332	0.1
IRF6	0.16919149	0.124701997	YEATS4	9.289937082	10.51850588
LPHN2	14.89480305	14.72155116	PNISR	8.392302789	10.60952034
IRF9	46.2307525	36.33202524	STIM1	10.26126905	8.147288116
MARVELD2	0.593863719	0.543628482	STIM2	4.36792375	4.71013287
MARVELD1	16.47018922	16.04006338	STIP1	99.97576283	119.6706419
MARVELD3	0.1	0.155261328	KIAA1644	7.51391223	6.608519969
IRGQ	1.526555144	1.727440965	MAR9	3.633034917	3.417970643
GOLPH3	64.51492414	59.59482856	MAR8	3.039021607	2.045562402
GLB1	40.54892701	36.0188487	MAR7	13.62897838	13.85778696
FAM98C	3.563418465	4.551299941	MAR6	14.60264069	14.52147123
RANGRF	21.66468101	27.55477308	MAR5	7.510268748	8.187775406
FAM98B	4.030680026	4.79171883	HOPX	1.186846799	1.452506956
FAM98A	28.659008	31.84287663	MAR3	5.176268723	4.511341497
TRIO	18.66948333	14.84426389	CHERP	22.82154751	26.78605948
GLDC	5.241935264	6.965683159	MAR2	17.73137712	13.13793742
GLE1	20.70456172	19.1429944	MAR1	0.203864785	0.335967978
MILR1	0.306977199	0.43779548	YEATS2	11.94546432	11.43969683
CREB3L4	2.13619594	2.0990868	KIAA1671	3.737358183	3.431338823
CREB3L1	20.45876611	11.36512869	PPP6C	16.10338187	18.01605589
CREB3L2	3.758049948	3.716880205	SORD	3.2730076	5.053568775
PIP4K2A	17.35384179	18.71966494	SOS1	6.004402617	6.954646516
MYEOV2	15.29523516	18.96475381	SOS2	6.524240349	6.090362239
PIP4K2B	11.81894646	12.18860824	PLCL1	0.846878225	0.728714681
PIP4K2C	17.9012608	13.97430136	PLCL2	1.684238173	1.800952278
PIH1D1	17.49395957	22.28122936	CUL4A	49.59698712	48.07561091
GLCE	3.064638131	3.310965994	SVOPL	0.1	0.1
SARNP	38.74827216	43.65072397	MARCKS	31.58782266	32.90842044
KIAA0368	14.40399792	13.9469496	CUL4B	26.48825842	22.3454082
TYRO3	3.095931107	3.444173128	ARL6IP1	104.0943407	112.8734743
PIH1D2	1.484341948	0.813877365	DDX60L	11.92282388	3.067747959
GLG1	11.28391724	8.824340386	SOX2	0.1	0.1
KIAA0391	11.67285669	13.68268807	SOX3	4.383350223	3.981115747
TRMU	8.432307662	9.014687594	CHEK2	12.59758953	14.99740544
TGFB111	28.55225147	23.19132407	CHEK1	9.552506713	11.18807567
GLI1	0.344917279	0.274875437	ARL6IP5	43.53107225	51.73201138
PFAS	15.45866907	23.37598654	ARL6IP4	38.09510012	37.468625
GLI3	4.292299991	3.409859833	SOX9	16.89339881	14.12696805
GLI4	16.69500955	14.54545712	SOX6	0.1	0.1
ZNF599	0.813935733	0.740167777	SOX7	0.195090806	0.281057553
ZNF598	17.54551929	19.31281938	SOX4	9.427591439	8.022140019
ZNF596	1.801911456	1.511591367	ARL6IP6	7.692313302	7.726224539
ZNF595	1.428103694	2.070473635	JMJD4	12.19193499	11.60705348
ZNF594	1.033978109	0.960487133	RECQL	21.55963042	22.24459881
LOC101928239	0.1	0.146659329	JMJD7	1.269086402	1.117350549
ZNF593	92.95590338	119.727257	JMJD8	53.45055231	56.5405359
ZNF592	5.486316527	4.67611122	JMJD6	6.710064745	7.268483524
SSFA2	8.896495881	8.644232514	TTLL11	3.992059364	4.058343365

ZNF589	1.860013544	2.337775849	TLL12	13.4448595	18.19204085
ZNF587	3.417632363	3.051705309	FIS1	66.95475562	67.16063059
ZNF586	2.182628284	2.992364499	ZWINT	30.52419462	34.94967854
ZNF584	9.193235726	10.29712085	OCLN	0.616205826	0.687425081
ZNF583	3.229111663	2.53475222	CREBRF	1.805454776	1.108574622
ZNF582	0.769121467	0.773771182	CC2D1A	9.947906899	9.801551153
ZNF581	39.89868726	46.34843387	CC2D1B	16.76777793	14.70410575
ZNF580	33.1787949	37.09974466	ERO1LB	0.326143271	0.342205675
LAPTM5	0.1	0.1	MTERFD1	29.0936957	37.21837908
SULF1	0.454461127	0.242769709	CCHCR1	5.632336798	5.467242435
SULF2	0.16106168	0.161038825	CC2D2A	3.249123582	3.982024522
SARM1	2.58910978	2.522165266	MTERFD3	3.314987605	4.74329225
RLIM	6.845014792	6.922758008	MTERFD2	2.677307419	2.752660631
ZNF579	26.33922892	21.45309935	PACS2	10.60822065	8.334528075
ZNF577	1.106807693	1.106430865	PACS1	17.25906856	15.01857518
ZNF576	12.46544349	12.46472206	DCP2	1.490733341	1.533134092
ZNF575	1.885163274	0.748121715	TOMM40	81.60180911	115.6024231
ZNF574	16.9634177	15.31690395	DCPS	13.27223047	16.30204959
ZNF572	1.495516598	1.254946566	MAGEB17	3.835308249	4.998716003
ZNF571	0.368343373	0.483204196	NUCKS1	50.2992073	64.25155997
PHLDB1	4.044386376	2.928400081	TOMM20	45.30236588	64.4973124
ZNF570	1.394735875	1.503206108	TOMM22	51.48576961	66.02424743
IRS1	6.439292726	5.806794796	TOMM34	32.52834712	41.93729528
IRS2	0.827525742	0.820892626	OCRL	24.31204508	22.81608604
METRNL	12.13927065	9.920576298	ALDH3A2	9.938536367	10.08427858
ZNF569	2.582351567	2.699055569	DCTD	23.3850155	23.74608646
ZNF568	1.554332242	1.219687587	ALDH3A1	1.25933376	0.693506659
ZNF567	2.608229642	2.639183994	FIZ1	8.421928817	7.737819673
ZNF566	1.353860163	1.404146853	ALDH3B2	0.1	0.1
PHLDA2	8.570316898	8.083309677	ALDH3B1	5.40411639	3.666746748
ZNF565	1.202287242	1.160811025	RIPK1	13.7496737	9.698821293
PHLDA1	120.291691	97.94503802	ANKZF1	4.624285382	5.182346341
ZNF564	2.690514829	1.823846936	ENKD1	4.997877218	5.044280927
PHLDA3	24.04554243	16.4442603	CREBZF	4.85277029	4.624753735
ZNF563	0.864537816	0.779038936	SPEG	4.215866766	3.795191
ZNF562	4.234934165	3.993862748	DCXR	20.09090151	26.49994939
ZNF561	7.034465605	7.053113527	HPDL	3.010193552	5.860602623
ZNF559	2.592651613	2.578201202	LUC7L3	12.33078116	16.28980525
ZNF558	5.734315356	4.649089901	ITGB3BP	12.52874093	16.40546543
ZNF557	1.735919918	1.336060186	LUC7L2	21.75414348	23.33217091
ZNF555	0.890179713	0.872523877	SPG7	9.781541263	10.64992424
PHLDB3	1.478878546	1.258287781	SPEN	5.241166692	5.870271045
PHLDB2	23.84140289	21.78619279	PDE4DIP	2.224464175	1.660932759
ZNF554	0.619793739	0.721914089	NUPR1L	0.1	0.1
ZNF552	0.791935654	1.301754844	TICRR	1.883634547	2.435764587
GLYR1	19.17436184	21.34555169	KIAA1107	0.271042396	0.360538481
ZNF551	2.272178828	3.46044711	KIAA1109	1.998519305	1.766086049
ZNF550	2.414839912	2.191873377	RAVER1	31.33149409	33.00261831
GLO1	55.65512716	81.46434105	RAVER2	3.220411409	3.90125912
PHF21A	4.921612502	4.176504867	MLYCD	2.111780657	2.009631334

PHF21B	0.170585974	0.110079936	GTSE1	21.41878498	24.17293372
LOC10192828 2	0.1	0.1	NLRX1	1.95585059	1.765342725
ZNF549	3.109894992	2.380164242	BAZ2A	19.76635535	18.9667888
ZNF548	2.691854917	2.072920487	BAZ2B	1.123255369	1.00683224
ZNF547	0.923435226	1.222445951	AFMID	2.719892478	4.07513414
ZNF546	0.303597428	0.390744608	CCZ1B	17.19072511	20.0007373
ZNF544	9.596788103	10.03895512	OSBPL11	6.339081776	6.514299541
SLC15A3	35.67533097	9.706617705	OSBPL10	2.109982945	1.49114129
ZNF543	0.892501093	0.857848669	DDA1	14.12608042	15.16325139
KIAA0319	0.634881187	0.535705838	KIAA1147	1.780441525	2.001482751
SLC15A4	6.470504383	6.297877891	KIAA1143	6.122750647	7.041176398
SHFM1	71.97636513	82.33285031	JOSD2	53.09134258	44.99173864
GLMN	3.909419424	5.174890845	BAZ1A	11.33480907	12.35784614
CYBRD1	13.64524917	9.56722809	JOSD1	23.33407323	20.37722143
LOC10192829 1	15.51280726	12.54970297	BAZ1B	26.80202184	27.73712528
RLN2	0.1	0.1	DDB2	6.674746671	6.872378887
SPIRE2	3.078710702	3.736234539	DDB1	67.6151926	71.26527702
SPIRE1	9.815279953	9.589507403	INCENP	20.73766357	24.11368597
ZNF532	16.56784754	16.66727378	JMJD7- PLA2G4B	0.686322698	0.584747048
ZNF530	2.553838993	2.452801363	ZSWIM1	5.338001015	6.0760605
C19orf60	26.90213608	26.44528848	ODC1	31.79027895	50.82224027
C19orf66	30.57612576	15.59083117	ZSWIM8	28.15983967	23.196943
C19orf68	3.747753331	3.492419995	SPOP	8.70810803	8.635259595
SART1	22.92336023	21.07298593	ZSWIM6	5.009079416	4.609539737
SART3	16.48189009	19.01208289	ZSWIM7	6.516293172	6.972026801
GM2A	14.26341047	12.4848273	ZSWIM4	4.844810075	4.240744131
ZNF529	1.958597435	1.959321128	ZSWIM5	0.108898814	0.11906175
ZNF528	1.301957565	0.845524256	ZSWIM3	1.917333604	1.934121234
ZNF527	0.93590921	0.943828822	KIAA1161	1.249400605	0.973077817
ZNF526	7.116181564	6.526278156	ABCB10	6.000033195	7.806442078
ZNF524	15.74628179	12.7769062	SLCO3A1	8.29051664	6.27509621
ZNF521	0.1	0.1	OLFML2B	16.97642999	17.37178284
C19orf73	0.658615881	0.997439504	CASC4	12.46687469	11.83642704
C19orf70	51.70493513	61.34658993	MPV17L2	11.86543626	14.47398939
C19orf71	3.975792329	2.923293733	CASC5	3.135279553	3.9131934
LCA5L	0.220350449	0.185932431	CASC3	16.12038182	16.20667742
SARS2	7.873823044	9.746279533	OLFML2A	16.09537867	12.38733638
ZNF519	0.275459526	0.306986537	ZCRB1	15.36984388	17.078024
ZNF517	4.811669442	3.844521507	CASD1	2.321512617	2.297748125
ZNF516	0.112045276	0.112900823	SMYD5	9.566213959	10.14556155
ZNF514	1.568423479	1.424397483	SPATA1	0.561465293	0.360127393
ZNF513	7.298068497	5.377066272	SPATA2	4.854777584	5.008863333
ZNF512	7.956525819	7.28242429	SPATA5	0.725380806	0.760687151
SMPDL3B	0.155473868	0.1	SPATA6	0.473451672	0.440721175
ZNF511	19.67793493	26.89023113	SPATA7	3.598914701	4.245712081
ZNF510	2.549390824	2.554231794	SMYD2	17.82818057	18.83420499
SMPDL3A	2.612284468	2.33815732	SMYD4	5.002647043	4.576291857

GLS2	0.290927148	0.24995804	SMYD3	9.346374067	10.26402841
C19orf83	0.267584764	0.379203401	ODF2	23.16601956	23.33811748
C19orf82	1.941239369	1.738291963	HPS1	18.11199972	14.27080506
GLRX	9.909864687	9.784572832	RABL2A	0.642969032	0.890887322
ZNF507	2.072236869	2.570381111	HPS4	5.823373912	5.421653675
KIAA0355	3.310515845	2.914116752	HPS3	11.51504131	11.42576316
ZNF506	2.131788811	1.595372523	RABL2B	4.646001038	4.387644767
ZNF503	28.9981019	24.73229828	HPS6	13.24336199	12.71923542
ZNF502	1.182558199	1.070319576	HPS5	4.156032075	3.535771129
ZNF501	1.067749985	1.109066614	HPSE	6.242132918	5.657745878
ZNF500	2.224698597	2.18740234	OSBPL1A	5.846275879	5.279418541
IRX1	0.12796086	0.159893702	SPRN	1.090744202	1.006679861
IRX2	0.116994202	0.112134173	ITGB1	218.8712848	201.1464375
IRX5	7.097313469	7.378651793	GPR89A	4.155583404	6.744261566
IRX6	0.1	0.1	ITGB5	29.04396285	24.19761162
IRX3	2.527800365	2.081136071	NUMA1	22.15035294	20.42289428
IRX4	0.1	0.14630982	ITGB4	0.796351719	0.640176506
PFKL	19.41268588	15.67976678	ITGB3	4.229351603	4.412746333
GLRB	0.252897807	0.488166553	ITGB2	0.134878333	0.124903771
PFKM	17.88366174	23.45480684	ITGAE	4.17698444	5.393676654
PFKP	88.7377678	89.19363194	ELFN2	8.444763184	5.636840017
GLTP	8.302833207	8.759503988	GPR89B	4.101917839	2.88732156
SYNJ2BP-COX16	2.252457	2.699437732	ELFN1	10.87071343	6.556565799
C19orf26	7.314220669	6.763622666	ZNRD1	4.596921469	6.458396366
C19orf25	10.48104826	11.37452282	DDI2	4.132039407	4.349219782
C19orf24	117.9336226	120.2933876	ITGB8	0.609036097	0.446555956
ZNF609	6.025749045	6.41005426	ITGAV	12.11988052	10.58519133
EDNRA	1.201617439	1.270924282	ITGA4	4.114649816	4.973107329
ZNF608	0.50867902	0.327607376	TMEM255B	14.04033403	12.1019951
EDNRB	0.739078558	0.622686752	ITGA3	139.6150665	104.1068176
RUSC2	11.41940527	9.452521315	ITGA2	0.178813568	0.160963863
ZNF607	2.671373929	2.012508568	AHSA2	1.112801222	1.08788641
RUSC1	29.24745451	27.08504703	AHSA1	82.88807067	99.48586951
ZNF606	1.943987588	1.679969217	SPTB	0.294439922	0.246140712
ZNF605	1.820240959	2.203061271	ADORA2A	27.04261481	23.75091544
ZNF600	3.453593191	2.998638127	RRM2B	7.441857269	6.808839462
GLUL	0.265099397	0.23360187	ADORA2B	37.69232986	39.79174174
C19orf38	0.668550227	0.4805831	ITGA7	0.261554393	0.256550235
C19orf33	0.212692575	0.1	ITGA6	25.26194379	22.20965533
PFN4	0.334366663	0.378903505	ITGA5	92.49993004	68.68493125
PFN1	1906.502538	2053.350417	ITGA9	0.165561935	0.268524733
PFN2	103.4351848	108.0183078	LOC728728	0.184818411	0.1
C19orf40	8.148789391	8.239268486	LRRC16A	7.400858878	6.095552695
TMEM161B	7.637363362	8.778178158	LRRC16B	0.325875117	0.237087136
C19orf43	179.8742541	207.2566511	ZNRF1	3.093954447	3.454728173
TMEM161A	24.07095046	24.22034451	ZNRF2	5.700527836	4.817177201
C19orf48	51.83312524	72.17438767	ZNRF3	1.321559156	1.622210803
C19orf45	0.484386227	0.564468785	CCDC85C	3.498681671	4.76375251
C19orf44	3.160391534	2.780338763	CCDC85B	125.1710126	117.7655856

C19orf47	15.18807998	13.75175632	FEM1C	7.666584206	6.875596495
C19orf52	12.78102036	14.30571146	FEM1A	12.38504443	12.61590362
C19orf54	4.625011492	4.342151983	FEM1B	3.645116626	3.777124588
C19orf53	134.2598911	159.4826261	LOC728715	0.143693252	0.287186709
SS18L1	4.293178685	5.032231951	SPA17	5.350395013	5.506277411
SS18L2	14.25114538	19.1704977	TBC1D22A	6.956638017	5.572766445
C19orf55	3.731263535	3.816330721	TBC1D22B	5.64934095	5.558743772
C19orf57	1.673713403	1.517952259	NUMBL	30.40126433	28.46490157
KRT23	0.1	0.1	WDYHV1	11.8730138	13.16329393
C9orf9	3.594272973	2.859343319	DDR1	3.845821568	2.056575908
C9orf3	8.465265547	7.696668737	NBPF20	0.294003168	0.22862741
ARNTL	7.123885433	7.388906208	NAT10	9.459913451	12.26798347
CA12	11.82334477	8.610661522	NAT14	50.31956774	47.41566974
CA11	1.734310906	1.744307652	NBPF26	0.923470125	1.010781392
C19orf10	182.0530452	168.9825739	NEDD8-MDP1	18.26948806	21.72224712
KRT10	9.862007394	11.29726225	NBPF12	0.933091233	0.940084506
C19orf12	7.756432993	6.848605586	NBPF11	1.126741313	0.983661979
KRT19	0.382535837	0.251301833	NBPF14	0.574892648	0.389632606
KRT18	1.304051409	1.49071516	NBPF15	8.646753188	7.430771283
KRT17	0.243975825	0.168534256	NBPF19	0.568698086	0.674498025
KRT16	0.1	0.1	RP11-35G9.3	1.227096322	1.447517641
KRT15	0.259686302	0.277362816	MFGE8	7.527473248	4.597594398
KRT14	0.385795533	0.25871587	FJX1	55.74412919	42.28822919
TRIP10	38.84134381	36.2592997	DDR2	23.84198455	20.44902728
TRIP11	4.422849827	4.28731129	GNAI3	35.40233306	35.59089734
TRIP12	18.37809675	16.03505252	GNAI1	6.159416573	5.958150415
TRIP13	44.42480344	57.64172411	GNAI2	159.8035589	139.7149396
CMTR1	21.49022025	15.03121141	PNMA1	42.20353208	43.32740515
KRT6C	0.122696058	0.1	EPS15	7.056693986	7.049826536
CA14	0.121646365	0.192735415	DDTL	0.854968603	0.773826815
KRT6B	0.395953813	0.327571572	PNMA2	3.64846733	3.766550887
CMTR2	4.070933495	4.019412204	MSMO1	11.23399758	12.88618681
KRT6A	0.142409206	0.160561904	YARS2	7.081027555	7.593943373
CA13	1.434157308	1.447129251	WDFY1	8.2078724	6.549408966
TSC2	8.064313108	7.656691802	WDFY3	1.795954075	1.409266747
TSC1	2.81154471	2.567233224	WDFY2	6.373979367	6.225552776
KRT75	0.1	0.117456078	CARS2	23.47184547	29.4728865
ISCU	13.51225778	14.08910711	DDX6	14.38305543	14.95077184
COBLL1	6.488917863	4.630851006	DDX5	77.60454736	82.84562475
BTNL9	0.362896538	0.506711409	DDX1	37.09704219	42.41793419
ACBD7	0.331237138	0.33115059	VCPIP1	6.536722551	5.571570989
ACBD6	26.91148824	30.8358221	IRAK1	180.598318	208.3820291
ACBD5	9.02406938	8.02716728	IRAK2	21.24592191	17.89322356
ACBD4	1.681236707	1.502184976	GNAO1	1.588862873	1.395996468
MRGBP	42.23896366	45.08461228	DYRK4	2.524764537	2.368634627
ACBD3	29.24517642	23.26174303	DYRK3	15.02629973	14.21792892
SCYL3	3.81560913	3.173173638	DYRK2	8.265097599	7.923562569
CA5B	0.849297264	0.862545856	HP1BP3	30.57760609	34.06471795
KYNU	37.30515228	35.33734784	DPY30	21.01038898	26.48322569

SCYL2	11.73294988	11.19462976	WHSC1	16.13307158	17.46460908
SCYL1	41.28854073	40.72161141	IRAK3	0.106226184	0.108891219
TSFM	17.35118522	20.48237961	IRAK4	5.006708952	3.85128748
JAGN1	25.07416809	27.76420345	QRSL1	5.209341228	6.684709926
HSH2D	0.31957429	0.288136092	GNB1L	9.265860586	9.770368535
PRTFDC1	2.616835173	2.609111789	NAT8L	4.373968111	5.445199214
KRT81	1.187984858	1.012788382	CARKD	14.17369387	15.47125908
KRT80	32.36539592	26.38727447	LOC101927420	0.4755514	0.234075299
TUFT1	12.46256774	9.673052636	TRA2B	37.1319359	44.78593259
KRT86	0.566428737	0.179294926	TRA2A	9.471024829	12.65517988
U2AF1L4	11.57987019	9.581935736	TMED7-TICAM2	11.64472822	9.212462658
GMDS	12.22009856	12.51135625	SIMC1	1.443298202	1.850987399
SASH1	3.867124637	2.828290598	CARM1	38.81240452	41.99824311
CMTM7	5.137466531	8.144848771	HNRNPU	83.91563748	87.59043255
CMTM8	5.117516494	5.42634181	HNRNPR	75.21370146	86.9867794
CMTM3	10.12490336	9.23038224	LOC101927562	1.474026217	0.824130448
CMTM4	0.682427769	1.055116512	ASTN2	0.427946677	0.729809526
CMTM6	12.04601556	12.87247136	ASTN1	0.1	0.1
GDAP1	3.857440397	3.410789902	KIAA1009	1.940559527	2.09248664
GDAP2	1.744509275	1.717150198	PLEK2	0.384664531	0.633546226
CMTM1	1.518631857	0.903357648	NHEJ1	5.238309848	5.885490492
GMFB	15.40174106	18.94021227	PRELID2	3.393918889	3.818971287
GMFG	0.337220443	0.325839672	PRELID1	162.0345381	208.0662718
ISM1	0.941803099	0.90141717	PAFAH2	4.407946613	4.820521968
ISM2	0.1	0.1	HNRNPL	106.3851893	118.6259456
TSKU	6.67796135	6.988618367	HNRNPM	81.81636749	100.5071337
ISLR	1.050742324	0.859662662	SQLE	85.77007167	78.24719451
HIST3H2BB	0.44480936	0.428266957	HNRNPK	245.0106707	267.9801671
ISL2	2.671559316	2.596325977	HNRNPF	125.480777	142.8081914
CTAGE5	6.370708939	6.203722066	HNRNPD	67.12796569	82.48947941
TMEM126A	14.45328679	15.33672351	HNRNPC	153.8131572	194.4679556
TMEM126B	22.7267132	28.05857814	KIAA1033	9.945280692	8.252423796
PLA2G6	3.163388369	2.636835073	ABCC10	4.662465777	4.306032503
PLA2G7	0.128249743	0.120170835	ZNF280D	2.188073833	1.978563078
LOC101928793	0.247087421	0.163013872	C1QTNF2	0.595594928	0.484634655
RHOT2	24.77278515	26.07463752	C1QTNF1	2.714648198	2.592744939
RHOT1	4.063293295	3.279499958	ZNF280A	0.1	0.1
ZNF497	2.783614532	2.443118301	ZNF280B	0.21737341	0.274060217
ZNF496	14.33606033	14.7026808	C1QTNF6	0.130425345	0.208621277
ANXA8L1	0.1	0.117663889	ZNF280C	2.456894994	2.446531918
ZNF493	0.43037378	0.421076513	ELMOD2	2.759696094	2.816295425
ZNF492	0.454908606	0.458271099	ELMOD3	2.817509077	2.468566888
ZNF491	0.790020456	1.020547291	KIAA1024	0.346579778	0.287066397
ZNF490	0.747474098	0.75696457	COQ10B	9.537150178	8.832969081
MED19	18.20579158	21.37711578	COQ10A	4.68578382	6.469252233
MED16	20.10578478	17.53733126	SIKE1	5.736311626	6.747317292

MED15	19.33218291	17.43382421	ZEB2	4.337938206	4.00887351
MED18	7.716185068	7.086167198	ZEB1	28.66647802	23.73362133
MED17	9.592955673	11.40751534	GRAMD1C	0.279571019	0.238079853
MED12	6.986633878	6.069726084	GRAMD1A	22.61906472	23.36327154
MECP2	6.456253603	6.285849103	ADRBK2	0.186050039	0.161441309
MED11	26.8213506	23.70537847	ADRBK1	16.49693324	15.48050793
MED14	13.99954695	13.62749725	DEDD	19.12789782	17.45695895
MED13	3.038858669	2.645017803	GLYCTK	4.488515766	5.010096207
MED10	18.39412672	22.72455466	DEF8	9.01893815	9.35816982
TSPO	143.3039847	139.6168127	DEF6	0.190507451	0.1
ZNF488	0.139376915	0.128115841	CCDC71L	12.0192012	8.233214555
ZNF486	0.459939563	0.690156095	VKORC1L1	7.977279786	9.360958719
ZNF485	1.262899631	1.706511333	TM7SF3	14.67169964	15.4549022
ZNF484	0.808836575	0.688942356	TM7SF2	12.91746059	7.861739955
RMI2	8.04506261	9.865712743	DEPTOR	0.513875879	0.74731853
CNOT6L	1.113826387	1.242324576	FCGRT	1.17031157	0.648672294
RMI1	5.464534036	5.903921309	THNSL1	1.723903851	2.165658847
ZNF480	4.36171378	4.856063483	THNSL2	1.107830777	0.751075434
MED27	21.38206258	23.64378584	SLCO2A1	27.52112157	22.05082199
GMIP	4.721477619	3.619807917	SREK1	9.066932738	9.749297156
MED26	6.414429708	6.915354024	REEP1	0.241276649	0.310918621
MED29	19.87847887	20.59694464	IRAK1BP1	0.687615952	0.616392105
PGM2L1	1.817246069	1.55741107	REEP5	24.90856872	26.45638123
MED28	16.72765305	21.06500883	REEP4	67.56919088	67.30306729
MED23	5.609684173	5.248828473	REEP3	6.577690443	6.620876474
MED22	17.39937663	19.11194604	REEP2	13.1451353	12.73755352
MED25	36.79627119	32.3812654	REEP6	1.348646861	1.126641161
MED24	15.41511633	16.17153968	CXorf38	3.583791515	4.07125779
MED21	7.589422671	8.046059962	PSTPIP2	3.570290327	4.037575179
MED20	12.65803669	12.76411	CDADC1	2.012136469	1.780369929
ISPD	0.457376634	0.34845839	FAAH2	0.125820714	0.118436464
ZNF473	6.776602731	7.626352557	CXorf23	1.003987419	0.928249784
ZNF471	1.535440906	0.975958623	CCDC74B	0.902173314	0.823494505
ZNF470	1.642314903	1.253186513	CCDC74A	5.86256383	7.174552349
TSR3	46.52821763	47.33036275	FRRS1	1.826536091	1.623658805
EGFR	16.66874655	11.1885061	NLRC5	6.235155826	1.750049005
ZNF469	0.957788259	0.639428911	DENND3	12.95988378	10.8181976
ZNF468	3.566650773	3.059917133	CXorf57	0.1	0.1
ZNF467	4.995931862	3.945363823	TGFBR3L	0.291560756	0.674467175
ZNF462	0.621960905	0.687068692	CXorf56	5.579910445	8.557100178
ZNF461	1.255557853	0.948331495	ASTE1	4.457324527	4.386258942
ZNF460	0.386298656	0.278869688	FKTN	2.559603108	2.960668663
NUDT22	38.47842083	34.7880581	MLXIP	2.878042094	3.26427136
NUDT21	16.14395007	19.63609251	FKRP	4.526650221	4.507324851
TAOK3	5.254837017	4.330630266	NCKAP5L	7.214144255	5.929083256
TAOK1	3.540197134	3.508204987	DOLPP1	11.60758984	14.89675379
TAOK2	15.89528724	15.01260418	IFI27L1	11.242753	10.1743209
TSR2	34.28982153	35.23447438	IFI27L2	9.667044582	5.501291863
TSR1	34.84042448	43.80891319	FLAD1	32.44483256	37.62491576
ZNF451	3.970217721	3.399763944	DENR	15.08627167	18.36230265

NAB1	2.936453699	2.880609906	TBC1D10A	7.025120667	5.669639421
GMNN	21.07115768	27.23999773	TBC1D10B	23.86360115	20.41830696
NAB2	29.07467015	27.10991665	HSD11B1L	4.161014978	2.858193481
NUDT11	0.77215759	0.966975503	AZGP1	0.387477422	0.510528321
NUDT19	6.596098334	8.576523312	BLZF1	18.32104753	13.47822387
ZNF449	2.890189303	2.887317241	CASZ1	1.678629963	1.171278029
NUDT18	11.24951698	8.67146302	DCUN1D5	3.547913057	4.5226315
NUDT17	3.807410434	2.815035036	MAGED1	164.9275577	124.0571879
NUDT16	8.599443283	8.046187435	DCUN1D3	3.396768623	2.699695747
ZNF446	8.618137306	6.098561107	DCUN1D4	7.987710409	8.584738759
MTPAP	4.22282376	4.990885611	DCUN1D1	6.472781178	6.367831458
ZNF445	1.564915508	1.569434234	DCUN1D2	3.689418709	3.388690978
NUDT15	10.06888994	13.32695045	ZRANB3	0.870147025	1.034294629
ZNF444	22.05751259	23.59944559	ZRANB1	3.329403704	4.281202515
NUDT14	11.74425174	8.556332902	ZRANB2	22.84623478	30.45942249
NUDT13	0.32867709	0.396872078	NARG2	3.163571981	3.155236555
ZNF443	0.49580172	0.612640851	MAGEE1	1.321226992	0.751478195
NUDT12	4.061880641	3.939161121	NARFL	12.38028764	11.38112491
ZNF442	0.74364414	0.428266957	DERA	9.441586927	9.352025206
ZNF441	1.431485066	1.217495114	CCDC64B	0.1	0.118399884
ZNF440	2.199920069	2.55756614	MAGED2	104.0498469	72.56616351
IST1	20.41027294	18.53992613	DET1	2.273770028	2.043400408
ZNF439	2.279916328	2.572944412	MAGEF1	18.10689327	20.30110358
NAAA	1.048117776	1.09554928	SRA1	31.75174864	31.61803965
ZNF438	3.40957872	3.319452763	SLC22A15	0.1	0.1
ZNF436	5.280096168	4.682074833	SLC22A17	0.161626663	0.173337616
PLA2R1	0.634914622	0.422672491	CHMP1B	7.332432677	8.440126251
ZNF433	1.294936272	1.251151561	SLC22A18	1.67248297	1.646472947
ZNF432	1.715274838	1.628170079	CHMP1A	34.96810909	32.55560583
ZNF431	0.923980212	0.987327948	HRAS	13.9087673	14.30339831
ZNF430	1.133988161	1.216895026	ZER1	12.65287832	10.19306382
GMPS	44.73538693	52.65384308	BHMT2	0.746696394	0.687685771
GMPR	6.203846404	3.356451552	PPRC1	21.04871924	21.44260547
MED30	19.19275357	20.58652426	ITFG3	28.92948237	24.64472371
ZNF429	1.57426326	1.309763149	ITFG2	5.59588686	6.511528098
ZNF428	18.21204569	18.4860042	ITFG1	17.84343077	15.47564811
MED31	10.70358189	13.92071288	SLC22A23	9.639725639	8.535288421
PGK1	228.9171803	249.1958225	LOC10050774 7	0.686058801	0.666941404
ZNF426	2.500636626	1.894447028	SLC22A20	0.121855817	0.1
BRIX1	34.50292733	56.19290643	MAGEH1	1.398781924	1.177735909
ZNF425	1.26164346	1.125273537	DCST2	9.740233036	8.584071746
NAE1	20.10844576	24.30535072	SLC22A31	0.14889532	0.222192547
NADK	29.75255535	30.65810036	UBL4A	63.04348671	68.2149802
ZNF420	2.346379806	2.324152944	GUCY1B3	1.730972684	1.447218101
TMEM120B	1.587286891	1.710212806	KDM1A	42.30748472	53.10440817
TMEM120A	21.36082171	22.79527502	KDM1B	5.130473377	5.281021243
ARPC4	132.785301	123.5213809	MRFAP1	107.1662535	110.1765984
ARPC5	110.3034519	113.7831277	NARS2	3.214189291	5.136206761
ARPC2	145.5290564	147.1457112	GUCY1A3	0.187194003	0.22451624

ZNF419	2.339657756	1.965682914	GUCY1A2	1.727181004	1.547722251
NACA	61.9821364	81.42294893	GAS2L3	7.976749394	9.551919238
ARPC3	155.5722371	159.7645012	KDM2A	15.60003653	12.44014988
ZNF418	1.225095332	1.104173421	KDM2B	3.461719391	3.797986477
ZNF417	1.547080009	1.440848022	DEXI	7.575999885	7.934011111
ZNF416	4.394075739	3.392232906	CHMP4C	0.240636917	0.240584279
ZNF415	6.371666006	6.531143515	CHMP4B	75.20381936	70.50459227
ZNF414	9.092080298	9.549772174	CHMP4A	24.08340663	26.25193426
ZNF410	17.80013183	15.92755003	HRH1	26.31499277	23.08243205
ISY1	5.38432604	5.928531834	LOC101927509	0.503070252	0.419777295
MIPPEP	15.28542884	17.41773752	CLSPN	6.664329198	7.856370909
CIITA	0.910738614	1.173978939	NLRP1	0.1	0.106608617
ZNF408	7.714804715	6.859249343	GAS2L1	43.26704772	39.95912952
ZNF407	1.76027864	1.910368075	AMACR	4.284619565	4.139191722
PGM3	14.34644981	12.44095517	CHMP2B	19.27531913	19.47986688
ZNF404	0.763694728	0.737300652	CHMP2A	91.58590075	83.57960533
PGM2	5.15393831	6.320547323	BMPR1B	0.819469124	0.800519325
PGLS	56.42241924	53.58878314	BMPR1A	7.930045894	8.450290726
YAF2	1.863998217	2.080296997	KDM5A	3.479997256	3.386304866
PGM1	38.48464171	37.60020083	MUS81	23.13173279	21.19730701
TFIP11	21.45202808	18.89420855	KDM5B	15.24669066	12.95481679
NAF1	5.684694169	6.713537755	KDM5C	20.11736758	19.8958083
BECN1	14.83932637	14.53608707	HS2ST1	7.579815404	7.779008357
ROCK1	8.068466544	8.177045507	CASP9	1.688965304	1.572501607
ROCK2	5.222138834	4.887236664	FLCN	18.35605163	15.89351408
FOXRED1	13.04540311	15.53369292	CASP7	10.03582614	5.805737199
FOXRED2	22.48778583	21.81600587	CASP8	6.649224014	5.711519517
POLR2J3	1.862632612	1.203993041	CASP6	3.268625906	3.71317777
POLR2J2	1.799463011	1.724153225	CASP3	18.8941956	20.26379478
NAGA	20.24750275	16.5564296	CASP4	28.65014704	23.33872689
NAGK	32.00344938	22.28235257	CASP1	1.392963588	0.506207892
NAGS	0.852190304	0.690785465	CASP2	7.502288459	7.562731656
LDLRAD3	17.1604564	14.18054068	KDM6A	5.931960788	5.04832043
LDLRAD4	0.1	0.1	PROSER2	0.785825439	0.867926032
CCDC102A	3.757335678	3.077917828	SRGN	3.704275197	3.768003673
CCDC102B	0.778064432	1.088903069	KDM6B	3.721289249	3.498148418
SNRPD2	190.9072247	240.5710519	PROSER1	14.95470833	14.46690282
SNRPD1	24.28981334	31.00407719	SPATS2	8.749422299	9.647154993
LOC100506504	0.204459672	0.224310208	POMGNT2	12.13253363	13.14681353
SNRPD3	29.19980929	38.46051113	POMGNT1	43.11551578	44.20617647
FAM76B	1.805438588	1.972697273	CASQ2	1.138256461	1.294371746
FAM76A	3.986591778	3.057247217	KDM7A	0.524531028	0.455664265
TBC1D9B	49.45622771	46.17863895	KDM3A	7.791763708	7.071275811
GGNBP2	17.58132186	17.35067651	KDM3B	16.29617089	15.54092988
GSPT2	0.1	0.1	TBRG4	64.08041712	80.18819533
GSPT1	20.18097171	22.54057446	GNA13	13.0075586	11.92593287
SEC14L2	5.120501556	5.096109683	TBRG1	4.971061227	4.684672224
PGS1	5.553569969	5.323208896	GNA14	0.433689455	0.2191302

BRIP1	1.245142035	1.371903812	GNA15	0.197469563	0.117398765
SEC14L1	19.18167426	16.99963445	GNA11	33.50172573	32.30793825
SEC14L4	0.1	0.1	GNA12	25.50708826	25.22694202
LOC101060398	10.18607226	10.41663636	ZNF286B	0.919051664	0.998113258
TBC1D8B	0.1	0.11298588	CYR1	2.209096987	2.099880346
EGR1	4.672242489	3.613063569	ZNF286A	3.14941483	4.110537859
EGR2	1.617207485	0.896920656	KDM4A	17.3906713	16.26199612
FAM78A	0.245189036	0.194243308	KDM4B	6.253682011	6.346275398
CALU	62.07784818	57.45139191	KDM4C	5.608261513	5.265290695
CALR	1322.152617	1077.480743	KDM4D	0.921018836	1.197608145
NANP	6.182167391	6.072541357	CDK2AP2	39.46658842	35.79249728
MAP1LC3B	37.20562007	34.15166567	CDK2AP1	78.78903689	84.67288498
MAP1LC3A	24.01659397	17.51616339	CHIC2	4.204864138	3.581800411
MIS18BP1	7.991596783	9.488763903	CHIC1	1.461004651	1.533513152
CHAMP1	11.06718943	10.54427151	UXS1	13.29692546	14.84808306
NANS	71.95196775	63.9378634	VPREB3	0.1	0.226817662
LOC101060376	0.520847428	0.344845981	KRTCAP3	0.151692813	0.173819236
HTATIP2	23.58271584	20.16337306	KRTCAP2	391.3966383	380.0609014
CAP1	281.1577199	268.7350686	CHID1	12.77211759	13.13223532
CANX	259.9507845	255.7674026	WDHD1	5.284792563	5.782196543
NAPA	146.4294301	104.6616738	RBFOX2	20.98201548	21.1706208
YAP1	27.68001616	26.69324413	TOMM20L	0.270332056	0.282430325
NAPB	1.518190924	1.905510535	LRRC37B	2.571418528	2.011691418
CAPG	188.6444831	171.0465703	DDX39A	112.6000071	121.066479
NAPG	5.05040432	4.653146642	DDX39B	15.8331163	17.79044368
CAP2	9.076054793	10.43048632	ZBTB8A	0.879304578	1.091470963
GABBR1	0.1	0.104088412	ABCB6	4.868225223	5.299082933
CCDC109B	24.09566806	22.32653975	ABCB7	6.840513785	7.568722541
TTC1	48.01997006	53.01300087	FLII	58.16529512	54.08609548
TTC9	0.15974845	0.149771739	COPS7B	13.78660729	16.47924221
TTC8	5.250862473	6.177007084	ABCB8	7.494965297	6.813769886
ITCH	11.77390743	11.96058103	COPS7A	31.6327427	33.42650553
TTC5	4.586197692	4.034828928	IQGAP1	76.98933101	65.21286645
TTC4	8.971846465	9.733641487	TAPBPL	16.4854766	12.64080196
TTC3	12.71859196	11.89588784	ABCB9	4.824181277	5.385655973
RTN4IP1	2.405879896	3.055149809	IQGAP2	0.954286158	0.570189842
CAPS	0.445000179	0.346336466	IQGAP3	21.76639509	20.14261788
CARS	24.42148656	22.57973961	ZBTB7B	13.54896857	11.99549909
NARF	19.30128521	21.96537782	ZBTB7A	9.707659645	10.76044628
TTF2	7.526196956	9.18444152	ZBTB7C	0.120998899	0.1
TTF1	3.244119303	4.264224362	ABCA1	0.1	0.103531769
CARF	0.698191579	0.622035283	ABCA2	2.941583214	3.630178189
NARS	57.15945693	65.04065842	ABCA5	0.774035381	0.557209963
AKR7A2	14.30279279	15.38239989	ABCA3	11.82688496	11.32962452
TBC1D31	5.109852102	7.338918592	ABCA7	2.233209789	2.069216623
TBC1D32	0.569336438	0.550881783	ZFAT	5.427778509	5.35591262
TBC1D30	0.119743328	0.142291297	SRPX	0.673293125	0.684774033
NARR	15.88972065	14.55744021	SRPR	55.79808641	52.16619702

CAST	30.37676285	31.72731897	LMBR1	7.685523877	9.430434437
CASK	3.692638213	3.899331184	OFD1	3.316161773	3.73515011
CDKAL1	3.501993581	3.612053387	DFFB	2.028358189	3.168815887
TBC1D2B	2.22360585	2.246044557	SS18	27.38117318	27.25095814
TBC1D20	13.775684	12.3454036	DFFA	14.42928414	18.64708309
TBC1D24	2.28990978	2.38358324	SRP9	78.73242663	106.5739955
TBC1D25	18.34836303	16.74955885	KIAA1377	0.454062373	0.373874292
TBC1D23	10.18009852	8.691031795	SRRT	50.79300119	53.93207792
TSNARE1	1.233881427	1.03148927	LOC101927266	0.850198945	0.367827915
EMID1	0.149196285	0.1	FLNA	567.2113722	455.3992878
GNAZ	5.703223764	5.314921741	FLNB	52.09475085	42.57980453
TBC1D19	0.785036771	0.862130982	FLNC	0.708315456	0.664247001
PKDCC	3.465096709	3.496467035	FABP3	1.189224586	1.351125021
TBC1D13	14.32903282	11.90398524	FABP5	10.54711042	15.2725796
RHPN1	2.032571399	1.57571728	SRRD	18.78317385	22.90731795
TBC1D14	3.555382691	5.149167244	ZBTB25	1.872725228	2.006083208
TBC1D12	2.142266237	2.087302693	ZBTB24	3.293003266	4.222310409
RHPN2	4.719853008	4.81687358	ZBTB26	1.59597918	2.003260882
TBC1D17	27.08312531	17.84952724	ZBTB21	4.323342212	3.963665657
TBC1D15	9.516558342	10.35697862	ZBTB20	0.101874956	0.105355012
TBC1D16	5.078703595	4.691868734	ZBTB22	2.054998317	1.83704851
YARS	78.15191854	81.1668784	KIAA0895L	2.040532993	2.107448993
CAV2	45.76332306	47.66216388	ZBTB39	2.032141112	1.842319764
CAV1	378.7829496	351.521465	ZBTB38	8.351741108	7.836429363
CNOT10	12.02203372	13.07966383	ZBTB37	0.621631899	0.519011604
UEVLD	4.066277508	4.124413957	ZBTB34	1.707384058	1.710125267
NAT6	7.611873833	7.343387854	ZBTB33	5.385171358	6.564224512
GNAL	0.124066373	0.16873533	OSBP2	0.47108055	0.356411287
NASP	40.14610408	48.33703331	ZBTB18	6.338531154	5.787424823
NAT1	1.591956947	1.594578491	ZBTB17	13.21900934	12.66544807
CNOT11	12.43791248	14.2276034	ZBTB14	1.820894866	2.104273437
GNAQ	6.029800493	5.427571399	ZBTB10	3.958104078	3.633842783
GNB2	200.3184731	170.389865	ZBTB12	3.470565423	3.053610551
GNB1	244.3393159	229.6680597	ZBTB11	4.768409339	5.998544885
GNB4	5.765501736	5.980360195	FLT3	0.1	0.119309821
GNAS	387.1197654	333.8194148	FLT4	0.1	0.118999914
GNB3	2.153196594	2.549796726	FUNDC2	30.0193083	31.61252039
LOC101928728	0.299966424	0.347484814	FUNDC1	16.70664751	16.33266075
GNB5	3.923910465	4.045164236	LOC102723893	0.434306802	0.243220719
NAT9	5.515116818	4.82954934	LOC102723899	0.18392775	0.159925955
SLC35E2B	11.73191247	10.41864274	ITIH4	0.305716296	0.201689764
RND2	0.975864496	1.073811203	ZBTB47	7.712979938	8.398531456
RND3	49.75631497	34.57762007	PCOLCE2	18.42370163	16.47259748
RND1	0.193605904	0.1	ZBTB46	1.017566254	0.788930253
FAM73A	2.409846168	2.790918451	ZBTB49	1.600461618	1.209169767
MYO18A	7.478547449	6.56689802	ZBTB48	5.538303888	6.824304166

FAM73B	6.751947245	6.583272407	ZBTB43	3.039991421	2.652098217
PDPK1	4.900731333	5.105209829	ZBTB42	3.713877667	1.915441732
NAV1	7.599266936	6.706484389	ZBTB45	13.32784054	14.88942628
NAV2	7.471119327	5.658645974	ZBTB44	1.429589486	1.257745511
TTI2	12.54724769	14.8141535	ZBTB41	2.227341646	2.056701945
TAPBP	16.23363692	10.08490108	ZBTB40	3.578054798	3.379566516
TTI1	13.79793506	14.1643185	KIAA1328	0.87111315	0.629412457
NAV3	1.260062108	1.342458486	FCHO1	0.325524923	0.537078547
FAM72D	1.250613322	1.898129242	FCHO2	3.301975915	3.644834993
FAM72B	3.076147291	2.89690638	KIAA1324	0.1	0.1
FAM72A	1.792141739	2.101678389	HIP1R	2.415616143	1.324735161
RNF8	3.369027538	3.378149251	DONSON	11.58526646	13.50328033
RSPH9	0.270471787	0.556449953	IL12A	0.820045419	0.408475394
RNF6	21.40252819	22.9250071	SEC62	8.391871757	7.943025809
RNF7	18.77034855	20.11283491	SEC63	17.28388392	17.16331644
RNF4	33.7795818	35.66055724	ZFP1	2.962678943	2.818627814
RNF5	12.79082426	14.40588555	ZFP3	3.521815841	3.256160285
RNF2	7.341870488	8.383771832	ZFP2	0.251209538	0.238813927
GNG3	0.209256103	0.373038027	LOC102723865	0.768900562	0.524539813
GNG2	3.656109026	4.280968807	ST8SIA4	1.135409823	0.909711315
GNG5	311.1631051	297.8658252	ST8SIA6	0.576785458	0.571369567
GNG4	4.210520152	5.577673579	ST8SIA1	1.142876159	0.924823954
GNG7	0.210118109	0.108736261	HSPA12A	0.153956666	0.125684034
RSPH3	1.314658609	1.049329371	PAICS	35.413443	55.54439513
RSPH1	0.1	0.1	HSPA12B	0.232023576	0.147133629
NRDE2	1.965582016	2.264597228	ARMC10	9.579217737	9.159562062
RNH1	78.84263718	66.51639469	DIRAS1	17.81969688	17.89384663
GPATCH2	3.283328636	2.7652418	HSCB	11.87688911	11.86569987
GPATCH1	3.2523083	4.105110744	LMCD1	0.560560966	0.659043285
PHAX	16.29464415	19.15138444	SEC13	209.2952808	174.1925906
GPATCH4	33.48863973	47.65971283	GLCC1	1.66048892	1.63978704
GPATCH3	14.6922328	12.40083669	HSF2	6.668552261	8.338563418
ADARB1	0.539706111	0.61279846	HSF1	100.6027841	97.3994444
ADARB2	0.1	0.1	LOC100507656	0.156239542	0.13011705
PHB2	125.5331634	164.0730755	HSF4	1.855649913	1.638467722
GPATCH8	8.641655174	8.755481151	TMUB1	49.71086906	52.25464521
DDX17	48.06502386	47.84443032	TMUB2	24.22100148	19.0680858
DDX18	14.11925562	18.43525717	IL17D	0.740946065	0.8421307
DDX11	12.49491063	15.42072841	SPC24	24.11820748	27.18402968
DDX10	10.73218536	14.15805256	SPC25	10.35912374	13.78656317
ZNF398	4.146314056	3.972393891	DPAGT1	27.37790864	30.12070387
RHNO1	26.41201366	28.35205558	GEMIN2	7.019191415	9.926269185
ZNF397	1.11287495	1.599019831	BAHCC1	2.591155222	3.064550991
ZNF396	0.47267774	0.525758005	KIRREL2	0.811661328	0.434628295
ZNF395	10.583296	10.86055258	GEMIN4	22.43355161	28.4112882
ZNF394	6.154927386	6.91356712	GEMIN5	10.57869946	14.85804169
PDXDC1	17.59550409	14.56664519	GEMIN6	11.48585581	14.31753974
ZNF391	0.671341616	0.925609878	GEMIN7	9.405177115	12.73498921

PHYHIPL	1.057760972	1.032534904	GEMIN8	3.111375324	2.618160668
NTHL1	8.6692828	12.7544297	SLC1A1	2.976147187	2.69927027
NRBF2	14.9904934	13.1311206	SLC1A3	2.915584795	3.96953532
PHC2	41.31780633	48.39700011	SLC1A4	2.945407911	1.90593202
ZNF384	22.24533247	22.51367837	SLC1A5	128.7757003	108.7098593
ZNF383	1.348149447	1.361134389	SLC1A6	3.842689485	2.894933869
PHC1	1.363923711	1.21017489	SSH2	3.446924318	3.072539677
ZNF382	2.2317114	2.146936655	SSH3	6.276272738	5.517965848
PHC3	1.284860804	1.198077715	SSH1	11.64732021	10.55199339
EHD1	70.57349222	60.53936002	SIRPB1	14.37422156	10.79935336
EHD2	199.0629542	160.7620373	NUP62	58.97232224	56.24783068
EHD3	9.436865447	8.82748047	VCPKMT	2.587029217	3.079371858
EHD4	25.08831291	15.98102	NUP50	10.23419223	12.07561422
ZNF37A	2.789555514	2.933105851	NUP54	17.5120005	19.83559769
ITPA	16.25950772	19.65692427	DCTN6	55.46548168	61.6051583
PHF3	9.364787039	9.465207523	DCTN5	7.434709226	8.702052264
PHF2	7.180291814	6.736589461	DCTN2	76.07385994	73.97456591
PHF1	46.4147332	35.04448247	DCTN1	49.64997351	47.67945048
PHF7	3.485640243	3.25243244	DCTN4	34.52492755	33.85523383
PHF6	12.71143977	15.04048944	DCTN3	102.9134286	100.7675013
PHF8	6.231588484	6.235416723	CSTF2T	9.656001312	9.224623358
TCTN3	16.33595951	19.79146317	ERLEC1	18.22862144	13.96362136
TCTN2	6.700952088	4.189020378	NUP43	5.954665394	7.004441477
TCTN1	6.403814062	7.333187266	NUP35	7.686067149	11.98699416
RBPMS2	2.754824775	2.478784204	NUP37	17.0606724	20.10820887
JARID2	3.363463848	3.415781625	STMN3	107.7893886	100.3477879
ZNF367	7.729993163	8.372079174	PCMT1	52.86020689	60.49032936
ZNF365	5.853159475	5.57421036	STMN1	213.8941291	243.9966288
ZNF362	7.050787208	6.546310297	TSPYL2	23.62930267	17.14383777
GNL2	31.13667047	35.57264767	TSPYL1	10.97627989	11.75232221
GNL1	5.737474695	5.736047237	DAPK1	7.707820653	6.243835329
GNL3	44.55690509	66.53007537	DAPK2	0.128152787	0.133502679
TUBB2B	8.66848699	8.055311517	DAPK3	49.72647459	41.02355949
TUBB2A	40.35342621	34.83716487	KIAA1217	3.505775495	3.34709446
ZNF358	51.97147471	46.86182136	TSPYL4	2.600194466	2.674613227
NBAS	3.679656482	3.016719368	TSPYL5	0.1	0.116622974
ZNF350	3.561939004	3.284932679	ABO	0.1	0.1
RNMT	5.694624056	6.103956608	ABR	18.97381641	14.27827034
WDR45B	26.5475577	26.38280116	DDX26B	2.790333986	2.030410689
ABI3BP	15.49180992	8.745419632	SSR1	22.61766289	21.68028242
ZNF347	2.110045999	2.1232032	ST14	0.162971245	0.111240656
ZNF346	6.14358666	7.300066604	ACD	14.18166268	16.15139621
ZNF345	0.441172565	0.376822136	ACE	0.852765535	0.794255877
ZNF343	3.932357849	3.636541009	ST13	45.11670272	48.46432892
ZNF341	2.016057156	2.411259865	KIAA1244	1.531260822	0.867706167
RNLS	0.1	0.1	THAP10	3.221644879	3.180609795
TUBB4B	540.2169531	546.5803023	THAP11	17.31609126	19.53215068
TUBB4A	1.524995842	1.771563131	OGDH	63.04050572	61.69080172
ZNF33B	0.996005927	0.916461608	SSPN	1.108540122	0.910130697
GNMT	0.294574071	0.308394192	ST20	1.127720613	1.861147355

ZNF33A	2.64597866	3.254548725	ADA	3.524986276	3.998277255
ZNF337	6.032707556	5.332109241	ADC	2.573870332	2.053218457
ZNF335	8.532951287	9.618995083	OGFR	81.63345039	47.26477245
ZNF333	1.50977043	1.468625508	OGG1	17.24023037	19.37183589
ZNF331	1.04952752	1.520873174	ADK	19.28551544	21.94976543
ZNF330	12.60017505	13.28206223	FMN1	0.13071768	0.163057341
NRBP2	17.44500061	14.37771693	ADM	18.52854131	15.81830092
ZNF329	4.605589799	3.545312241	ADO	10.71625182	12.58093185
ZNF326	12.63930528	15.33559066	TIGD1	1.054986709	1.554673183
ZNF324	6.67151099	6.770679257	GARNL3	0.225083331	0.219082395
ZNF322	1.597369185	1.639271409	TIGD3	0.284786046	0.307335278
ZNF320	1.403111885	1.189446062	TIGD2	1.246167262	1.718977996
SERF1B	0.427768309	0.451048891	TIGD5	20.71250915	22.46107696
NRBP1	55.63575001	53.19028867	SSR4	221.304803	268.1112323
ZNF319	1.651151872	1.778906573	TIGD7	1.766075938	2.046632627
ZNF318	5.907693342	5.646055073	TIGD6	3.579865591	3.196588728
ZNF317	11.91550009	11.27834148	SSR2	597.7707852	598.9199691
ZNF316	12.049009	11.35276819	NFAM1	0.1	0.106618049
PHIP	3.924926877	4.247751491	SSR3	29.45890249	33.22121727
FAM8A1	3.921073902	4.907779178	AEN	8.134932077	8.476788746
CBFβ	13.30317849	14.0576263	LOC10192737 1	0.765615336	0.646550815
YBEY	6.258491767	8.392006664	AES	165.5376125	164.0360996
ZNF304	3.463836363	3.249266995	AFP	0.431224424	0.482038985
ZNF302	3.148203692	3.570592776	LMAN1	26.27441793	25.95467218
ZNF300	3.344151685	4.049594672	BCLAF1	11.95945439	14.00712027
POLR3GL	9.660781225	8.672181259	LMAN2	214.087083	208.6736931
TMEM132A	22.97627253	20.3015672	AGA	3.484367544	2.728164888
PHKB	3.873722957	3.727985555	AGK	17.66574801	20.01037296
NBEA	0.576531497	0.440252244	AGL	1.459981073	1.349917534
DIDO1	9.934024088	11.16681561	FMO4	0.651397956	0.442355018
CBWD6	2.517744129	2.818944118	FMO5	0.139506675	0.19872972
CBWD5	3.219978924	4.179840204	HINFP	8.637216216	7.613340665
CBWD3	0.942778537	1.024130444	XAB2	27.18119297	25.79347329
CBWD2	2.738424404	3.851095456	KIAA1279	22.88099218	22.63343061
CBWD1	2.866358612	3.498066667	DGKE	0.273884295	0.2528081
HAUS4	11.4544305	11.62681965	DGKD	3.112744852	3.058575059
HAUS3	1.333842828	1.510903106	DGKA	2.873733403	2.321367816
HAUS6	7.160149974	10.02480204	FMR1	13.83275651	10.29227599
HAUS5	4.042461725	4.705564842	AHR	21.85516897	19.08945789
HAUS2	3.891679617	4.649816632	ZUFSP	5.175294359	5.401563325
HAUS1	13.65638472	15.3197523	MAEA	70.25623717	73.83251421
EI24	60.41125258	70.53299899	LDOC1L	12.59016426	12.75967317
HAUS8	10.16199183	14.18864965	MAF1	185.3977659	173.3245315
FIP1L1	23.70845256	27.05288071	PPTC7	4.133570331	4.672439907
HAUS7	12.24793215	14.82294224	AIP	40.00094022	41.88734535
CYP51A1	20.05136323	20.82093073	DGKZ	7.279396257	7.193478998
CEACAM19	0.169329996	0.166003854	MOB3B	0.147771289	0.219383523
PI15	0.115434129	0.105510126	ALPPL2	0.1	0.1
ISCA2	16.57352073	18.44251967	TRAIP	6.824918265	8.530492312

ISCA1	16.66530239	18.12880132	MOB3A	15.44675969	13.79733545
FAM89B	151.7136375	133.6440866	ST7L	3.151908056	2.524883655
FAM89A	10.05328204	10.20308398	ARMCX3	0.217870169	0.268322932
CBLC	0.165306445	0.216575004	MOB3C	3.333933022	1.982197447
CBLB	2.340911704	1.694418139	GPATCH11	2.826577517	4.13610359
METTL1	15.7821009	18.84439248	ARMCX4	0.1	0.1
METTL3	34.59245909	36.03675229	ARMCX1	10.21848786	7.047576196
CYP2U1	1.193597118	1.174632993	ARMCX2	0.17188001	0.1
KATNAL1	5.662350861	5.392280985	DGKQ	2.639939667	2.544715669
KATNAL2	1.805424906	2.522315829	ARMCX5	2.728859799	2.947503978
NBL1	12.85996277	12.43047075	MADD	7.62705345	6.270466595
RALGDS	19.36456468	20.71787392	ARMCX6	0.180503012	0.234121469
RAET1E	0.545508807	0.312067648	DGKI	0.404317104	0.480254005
RAET1G	5.637715161	3.015259672	DGKH	0.740776746	0.773340694
CYP2S1	0.1	0.1	NOTCH2	13.26678972	10.93126359
RAET1L	0.229554307	0.192504155	NOTCH3	14.42827934	11.76460089
ROBO3	0.1	0.108145403	NOTCH1	0.955142052	0.790402447
ROBO4	7.763388785	5.475125461	AK1	11.17753194	12.23104202
ROBO1	36.33556509	31.53153926	AK2	51.7929482	68.6965397
CBR1	47.26068791	50.04030159	AK3	7.749783503	11.93309046
TUBB	493.3203127	524.5839663	AK4	4.687866415	6.386607757
TOPORS	11.60323027	10.88246431	AK5	2.687004646	2.390112393
METTL4	2.984610915	3.017859016	GPATCH2L	2.071309839	1.999453628
METTL5	19.21414908	23.93514032	AK6	32.37742061	39.32637522
GPBP1L1	23.01804594	23.21190825	AK7	0.162971245	0.133721969
METTL6	4.18373222	4.769066688	AK8	0.445355118	0.328976334
METTL8	1.243119678	1.331152411	AK9	0.32173324	0.334550529
METTL9	17.58728488	19.39899186	BAG6	51.93561803	49.66899838
CBR4	2.265872769	2.377340299	DSCR3	21.24166085	18.5044571
CBR3	22.85204306	16.84574768	BAG4	8.106827634	8.633984915
LHFPL5	0.1	0.1	BAG5	7.900399451	8.839693752
LHFPL2	33.85545806	24.93728312	BAG2	12.67661211	14.21132186
NBR1	14.51350266	12.40506116	BAG3	78.23744746	71.5538724
COL4A3BP	6.274769542	5.980782442	BAG1	16.12937671	15.59660751
FAM81A	1.62926383	1.836676689	FN3K	6.698138457	6.157246954
PHYH	16.94251312	16.51660182	MOAP1	5.301575932	7.052278559
SYCE1L	0.455424928	0.565263202	RITA1	71.48555886	80.23279444
TUFM	97.12923194	120.3918494	MAFA	0.187570631	0.225054079
FAM83H	4.098305911	4.041523246	MOB1B	1.539657501	1.96898528
FAM83G	10.75621756	10.72184485	MOB1A	20.42706097	19.72166954
FAM83F	0.1	0.1	RCAN1	57.73473026	40.24139626
FAM83E	0.116624409	0.123740266	MAFB	21.19898605	18.56508891
FAM83D	45.18575211	54.5119037	RCAN2	2.319100772	1.565100185
FAM83B	1.531072972	1.317857794	MAFG	7.755519273	7.40689778
CYP2J2	0.127975917	0.119975318	RCAN3	0.1746963	0.153334531
CBX8	3.527574548	5.66652429	MAFF	21.33555847	14.7210582
CBX7	4.977935518	4.187486567	ALB	0.354323118	0.463182757
CBX6	19.37183124	20.60539436	MAFK	12.8015758	11.01133128
CBX5	8.805157152	9.653261288	DHCR7	85.03497703	85.0616474
CBX4	13.76932429	11.61053401	XAF1	42.32294905	18.31972144

CBX3	50.88523629	60.68466018	TRADD	7.510506342	5.261731852
CBX2	1.85404077	2.274335649	C16orf46	0.599278838	0.719174246
CBX1	27.29827383	30.11840037	C16orf45	20.90844158	15.10718282
CAPRIN1	57.74891792	58.24220437	PAGR1	6.877434565	9.904497256
CAPRIN2	9.374554087	8.500689423	SIN3B	10.85830259	9.99803461
LRP10	68.06520172	46.73343293	SIN3A	7.970476686	7.311994545
LRP12	12.95947492	14.07401343	BAI2	3.774485518	3.388125533
LRP11	15.41896629	11.30309306	AMH	0.717854632	1.331570433
LOC10192885 2	0.321069264	0.494618789	AMN	0.133366267	0.123824127
CBY3	0.361939212	0.193514705	AMT	0.524669839	0.756981145
CBY1	17.10372244	18.22390023	TRAF2	10.87011419	12.46472206
YBX2	0.26409121	0.193731311	TRAF1	1.956236638	1.242000172
YBX1	716.3286659	906.3397519	TRAF7	21.04650729	22.59957548
YBX3	86.1064707	96.49973276	TRAF4	10.75162295	12.06421073
SPRED3	4.061604766	3.69612409	TRAF3	6.139603187	5.719460874
SPRED2	7.783923677	7.381880438	TRAF6	1.382427732	1.288530197
SPRED1	2.334155536	2.058244748	TRAF5	1.334109823	0.955758516
OBP2A	0.1	0.1	ANG	1.970586078	1.708830448
LRP5L	0.460272378	0.449847892	TRABD	14.1809198	18.56425517
OBP2B	0.208006813	0.177118849	LUZP6	24.81832128	26.68860933
CYP2R1	1.395184191	1.161790537	NFAT5	1.490039356	1.166745959
FAM84A	4.82507287	3.199449605	LUZP1	7.904628036	7.967267481
FAM84B	0.517050937	0.465459765	KIAA1211	3.100180689	2.97740288
VAC14	8.399236759	6.778107296	ENOX2	3.750827616	3.619123284
THBS2	0.214838735	0.200919343	MGAT5B	3.90698566	2.564786725
THBS1	62.43255978	35.09280408	MAL2	0.837420539	0.600205222
THBS4	0.58356758	0.491312954	BAK1	19.39954679	19.41917885
THBS3	30.40271285	30.063571	FNIP1	7.569861567	6.38144332
TCF7L2	1.76955781	2.17093867	FNIP2	3.409090977	2.556018266
TCF7L1	5.156258623	4.129763769	SPAG9	19.78032177	14.13417625
LOC10192888 4	0.570748095	0.367174524	SPAG7	15.90960587	17.68377446
FAM86A	9.147209083	9.843770998	SPAG8	1.367104316	0.820095809
LPIN1	6.829765904	8.196305381	SPAG5	24.17930774	28.43690373
LPIN2	5.145837626	3.422932208	SPAG4	2.570509095	1.964788245
LPIN3	1.404686757	1.280524449	C16orf13	55.96909022	66.70088927
ZNF296	1.311978088	1.900914751	ENOX1	4.997609371	5.329133558
PID1	2.069803911	2.005972394	APC	7.160733621	6.897288616
OSGEPL1	2.118832007	2.790768531	MGAT4A	0.719795717	0.644331
ZNF292	2.368505856	2.492253327	MGAT4B	131.087345	110.7821453
KIAA0020	25.58464982	34.63997741	SPAG1	3.996016718	3.605478587
AS3MT	0.184233931	0.145108431	APP	327.551773	295.9446091
PIDD	2.574528627	2.844060191	SPARC	225.907166	180.8798138
MEF2A	13.46457203	11.56265792	B2M	753.3145628	603.1526752
ZNF287	1.775847644	2.233044619	AQR	8.373343125	7.949651307
MEF2C	1.753985367	1.327062804	MIF4GD	6.346422997	5.475966112
ZNF285	1.650220055	1.233882809	INPP4A	2.434238587	2.53345811
MEF2B	0.887683042	0.866936585	INPP4B	1.124727023	1.26557357
ZNF284	0.523515845	0.75519587	ARC	0.15286765	0.137748473

ZNF283	1.497174494	1.252167283	LOC10272397 4	2.332862907	2.119453173
ZNF282	11.2890776	13.62401826	MALL	14.66197179	10.80047329
ZNF281	14.27239335	13.16260821	LOC10272397 5	0.862121423	1.279032177
SETMAR	4.329703783	5.628293395	ARX	0.1	0.1
EID1	44.72194809	44.43205226	TMTC3	1.773288388	1.701594569
EID2	8.491268715	10.21901159	TMTC2	1.863873994	1.878030733
EID3	2.038480484	2.41523968	STC1	27.6635225	28.03782957
LETMD1	18.96311898	21.83072873	TMTC1	2.966713172	1.929481158
ZNF277	5.532939646	6.188026529	TMTC4	4.94337426	4.891329798
ZNF276	1.640213146	1.753624374	INPP5B	0.986460945	1.057752382
PIF1	1.689368223	1.959493771	INPP5A	4.149299669	3.862444357
ZNF275	2.965495801	2.648851244	SPAST	2.047303555	2.185615769
ZNF274	18.90654172	16.59056714	INPP5F	1.694172759	2.086390367
ZNF273	0.688482974	0.646243951	MAP2	1.225169758	0.627112318
HHLA3	11.70245186	9.291110063	STC2	126.0548647	82.16120984
KIAA0040	0.1	0.107857269	INPP5E	10.85115452	10.53747116
GRPEL1	21.41245871	29.74573653	INPP5J	0.218306352	0.268945818
GRPEL2	6.022825243	5.919401466	MAP7	0.370579568	0.285148833
ZNF268	2.324457612	2.156568408	INPP5K	16.27699906	15.46789743
ZNF267	1.725851605	1.879304841	ASL	5.343020675	4.041592621
ZNF266	5.097844367	5.462219971	MAP4	56.03416962	53.94730363
ZNF264	1.522327981	1.447991569	MAP9	0.326706786	0.332692165
ZNF263	8.030546754	8.328401799	BANP	6.520532112	6.80628993
ZNF260	2.064544087	2.695371875	TRAP1	49.47181462	77.22872357
EIF1	265.4197946	255.6189395	STAC	7.569201482	9.013616712
FERMT1	2.369275348	2.75009768	STAM	37.236732	34.5855347
EIF5	31.20085698	35.60307915	MANF	104.7771204	101.0719795
EIF6	250.4069469	260.1421848	LOC10272399 6	1.193587315	1.115933478
ZNF259	36.85742769	39.38476654	LOC10272399 5	0.408316184	0.24676228
ZNF257	0.691957036	0.774256412	SPATS2L	16.57195971	12.65619828
ZNF256	2.803346992	2.466641371	ATM	1.525146192	1.612393089
FERMT2	37.82101038	38.72598112	BAP1	44.83621176	44.68115405
FERMT3	0.140714167	0.172676658	ATR	4.115719112	4.71290504
ZNF254	1.974716449	2.382453898	TRAM1	116.4581199	107.8634005
PIGS	15.09046593	14.85761641	ADIRF	5.20235756	4.626371468
ZNF253	1.594519346	1.597145393	TRAM2	16.96557681	14.81256499
PIGU	20.14888254	21.82600453	HINT1	204.8405663	276.9516841
ZNF251	10.60150732	9.608238572	YAE1D1	3.23547642	3.907279795
PIGT	123.3628473	128.5092351	HINT2	34.99717787	32.21072095
PIGO	6.933650783	5.942747026	AUH	4.388963276	3.668960743
ZNF250	3.651037945	3.801256367	HINT3	3.512184464	3.436280035
PIGN	2.742312693	3.234289677	LOC10050750 7	3.42984828	2.51787069
PIGQ	14.89349596	12.24103864	MAPT	0.191463516	0.132653315
PIGP	4.652431488	5.033141687	TRAK1	13.9575072	12.59473297
PIGZ	3.684808816	3.065908139	TRAK2	8.123117388	8.448602744

LRRC3	3.418245236	3.550275736	DZANK1	0.756373661	0.778065403
PIGW	2.527814236	3.426072651	CGREF1	2.226503047	3.059845384
PIGV	4.838413175	3.592014911	AXL	73.54609044	58.07234617
PIGY	19.29438773	24.41911042	MARS	116.7987862	111.5733776
PIGX	7.58635526	7.554788808	KIAA1191	65.56228046	64.30043319
LRRC1	2.517858174	2.549614747	DSCC1	10.31166573	15.25482241
EDRF1	3.174237069	4.331635278	MATK	0.1	0.117349937
ZNF248	1.185879217	1.377871411	MAU2	12.50751796	11.32263893
NELFCD	58.1141375	60.01391786	ABCG4	0.235395562	0.20634241
LYPLA2	47.56966852	55.65704003	ABCG1	0.1	0.1
LYPLA1	34.88826323	49.95111539	STK4	10.69059619	11.00156649
LOC101928589	4.244184243	4.335465272	PLCXD2	0.245115299	0.238153319
PIFO	1.702393283	1.289301594	STK3	19.45966955	21.26923948
ROM1	5.909248224	4.761460712	LOC102723901	3.831466999	2.661067152
DIEXF	7.758619785	8.34849064	LOC102723902	2.577058309	3.780735561
PIGC	13.39952691	13.13241705	STIL	15.01424219	16.30784333
PIGB	3.31591883	3.088469464	LOC101929937	2.292037003	1.717326514
PIGA	4.269283398	4.867203926	AZIN1	37.30705531	40.47019189
PIGK	10.69015439	11.96756722	PLCXD3	0.804856452	0.660798222
TMEM106C	80.84039772	84.23928625	MAVS	13.20367355	12.97943736
ZNF239	3.77507987	5.22393254	C7orf55-LUC7L2	13.14928326	14.94036717
TMEM106B	2.723882426	2.730872701	ABCD4	2.815223535	2.614460425
TUT1	8.979146065	10.01015409	ABCD3	10.30061025	11.394435
PIGM	1.470302077	1.71353615	SLC2A1	5.224349391	5.355849158
PIGL	7.294160943	7.033226671	SLC2A3	0.165961499	0.297810434
ZNF236	1.948094417	1.775721195	SLC2A4	0.116497706	0.1
PIGG	11.67485869	9.526402119	SLC2A5	2.103043493	1.788864826
PIGF	10.05976026	10.36341396	CHTF18	4.413811392	5.713804613
ZNF235	1.296436179	0.995447408	SLC2A6	15.13049389	13.88369466
ZNF234	1.46654446	1.519255054	SLC2A8	3.275330808	2.299056726
TMEM106A	0.1	0.1	HEBP1	24.20642381	18.66242393
ZNF233	0.788219566	0.750774845	HEBP2	56.99515825	51.54573125
PIGH	9.89053968	10.21190065	ABCD1	11.52814663	7.854948496
ZNF232	4.575109999	5.508822113	ABCC3	3.790692731	2.55571135
ZNF230	1.093260136	1.033638258	ABCC4	5.185765947	8.22605386
PET112	8.359159573	10.01724908	ABCC1	5.291961867	5.553362334
PET117	3.91005914	3.780611829	ABCC2	0.449701726	0.628762614
BGLAP	0.481293776	0.644501522	ABCC5	4.587544415	5.518107251
ZNF229	2.728258843	2.894390657	TGFBR1	5.54786364	5.164284617
ZNF227	4.026164746	4.701285281	TGFBR2	29.07962389	27.67616903
NCDN	30.02281378	33.10930253	TGFBR3	9.763697317	7.017010877
ZNF226	3.465206432	3.008133128	DDX19A	14.17800632	17.50704427
ZNF225	1.526710279	1.349602083	DDX19B	13.73401473	14.01284746
MEF2D	10.17776651	9.049703585	STOM	56.50022948	44.32765967
ZNF224	1.343411266	1.034059034	ABCF2	30.73311029	37.27315716

ZNF223	0.896270608	0.791481971	ABCF3	14.94610753	20.86811792
ZNF222	2.042103812	2.266715314	MUTYH	5.160538897	5.423877736
ZNF221	0.142828753	0.34464413	ABCF1	27.78485799	30.08043647
PET100	27.22607469	32.95730337	IGBP1	24.94247305	25.88749919
ZNF219	2.695287281	1.888062348	BAD	39.14834544	43.01285891
ZNF217	26.63354583	23.98254535	BAX	95.53472466	102.4766304
GOPC	9.675289382	10.6639825	AQP11	0.534334875	0.42735214
ZNF213	4.584444159	3.523565516	ABCE1	20.98456199	31.58670281
ZNF212	2.66983185	3.611405054	APITD1-CORT	4.371395099	5.852571225
ZNF211	4.888908961	4.131396109	TOR1AIP1	14.02970845	12.17802155
NCF1	0.1	0.1	RPF1	25.82574627	37.15660246
NCF2	0.143077344	0.146137023	RASGRP3	1.138160406	0.856708636
RORC	0.1	0.1	PAC SIN2	14.68255002	13.39790863
SAYSD1	6.902014823	6.547480526	PAC SIN3	11.76148546	14.20932517
TSEN2	4.507586047	6.687167853	H1FX	94.62581385	94.15229526
MTRF1	1.898470643	2.303469352	NDUFV3	3.856101716	4.871737808
PIM1	13.485748	12.71119492	NDUFV2	42.44308381	52.82955665
ZNF207	95.51073204	94.93852927	NDUFV1	88.84080788	94.27960891
PIM3	18.77101379	20.12055879	CD99	21.51122917	22.8542489
ZNF205	7.001359598	7.692185461	PAC SIN1	0.112078883	0.1
PIM2	9.530570169	9.547393946	IVNS1ABP	50.82116628	47.66580665
ZNF202	2.534827902	2.370709359	CCZ1	9.261178087	11.61828709
ZNF200	2.607680133	2.419059531	ISG15	940.7530315	373.9891742
ROR1	3.790527873	4.31236689	ISG20	7.382059337	3.428963631
ROR2	0.1	0.109053982	H1FO	193.8581961	156.8507125
RAD54L2	1.945088589	1.94057938	SERGEF	2.994922763	3.088203574
ATXN3	1.312841327	1.25288371	DDX49	35.78113304	41.78042746
ATXN2	13.06019734	11.82308187	DDX3X	66.94673479	72.3439632
PORCN	6.720339721	6.369898884	DDX46	14.68185165	19.78688446
ATXN1	0.842440213	0.69289284	DDX47	24.83189575	30.62051647
ATXN7	3.66549514	3.364409809	DDX42	25.57466185	23.78017166
THEM5	0.1	0.110387613	ARHGEF10L	0.1	0.1
C9orf89	12.18062409	12.51391857	DDX41	57.17425012	58.79808333
THEM4	0.1	0.1	GPHN	3.191475338	4.61821085
THEM6	61.09226776	63.62212114	RPGR	1.234163105	1.790386971
C9orf85	2.940160928	3.14189062	A4GALT	25.25625128	19.77920737
C9orf84	0.896979817	0.957100052	DDX59	9.908042808	9.277608355
GOT1	28.77456472	28.09066136	DDX58	63.31321275	23.60753088
GOT2	43.08324582	48.6297763	DDX55	9.710395437	10.87108843
C9orf91	5.678346005	4.794298945	DDX56	36.38630279	41.05598919
PIN1	68.74831996	73.24476246	DDX54	35.35476979	40.04756357
PIN4	5.505522277	5.831684244	DDX51	2.236190702	2.781032358
HSP90AB1	437.7646423	559.1620759	DDX52	4.150622852	4.865367763
RASGRF2	1.543974516	1.276366969	DDX50	21.09772867	22.90508551
C9orf69	35.67155977	35.42094769	PJA2	28.71641504	24.37233794
RASGRF1	0.108125004	0.123205609	PJA1	6.774296	5.651245007
LRRK1	3.034215748	2.778401987	CREB3	68.7789707	48.27632387
ARRB1	0.21741182	0.238079853	CREB1	2.384389927	2.360775441
ARRB2	16.87538712	22.48376526	NDUFS8	122.2449871	134.318586
NCK2	9.589928815	10.1191893	NDUFS7	32.06272949	37.15358175

HMG20B	41.19529675	45.64807652	NDUFS6	114.8495239	149.3598591
HMG20A	6.999982009	6.566891902	NDUFS5	258.5826233	348.4343591
C9orf64	2.388880028	2.004187188	NDUFS4	56.96974107	57.38744007
NCK1	6.09033605	6.695074274	NDUFS3	52.80968978	63.92207945
HSP90AA1	808.1269418	856.5129941	NDUFS2	78.36621988	81.32312342
NDUFC2	13.89070262	17.51552367	NDUFS1	27.4892278	30.3371392
NDUFC1	15.18529522	17.48143507	CREB5	1.04379371	1.091264638
PARD3B	1.002827554	0.532826666	DDX28	4.74637481	6.320494328
C9orf78	28.24741904	32.09320823	NIM1K	0.826715236	0.859348335
BIRC5	32.21358566	41.7278976	DDX27	39.36706909	48.43941061
BIRC6	3.233824705	2.790649375	DDX24	74.83723394	77.96251706
R3HCC1L	4.158463755	4.058250962	VPRBP	8.622093429	9.68177387
BIRC2	16.19686019	15.17263565	DDX23	37.35798652	38.3977112
C9orf72	1.266919968	1.588654767	DDX20	9.587398445	11.38677193
BIRC3	2.362673183	1.581404987	DDX21	55.13759792	75.61668895
NDUFB9	204.6536372	302.2188277	DDX31	8.122764893	9.403332636
NDUFB8	68.49432048	80.3731798	RPIA	5.142163196	5.68232817
NDUFB7	141.3960555	165.461173	KATNBL1	3.228452811	4.147867039
NDUFB6	47.40522781	63.04375933	LOC10106018 1	0.281466536	0.41467107
NDUFB5	26.98319148	30.15363039	FAM50B	3.728241223	2.965742133
NDUFB4	50.55268245	62.37539821	FAM50A	210.2490634	196.0241425
NDUFB3	26.67661727	33.66592929	ZNF177	1.012915778	0.873110942
NDUFB2	90.98849669	112.5815019	RPL4	593.1593381	814.4469444
CXXC1	18.98181948	19.97276806	RPL5	512.759837	808.5441454
PARD6G	1.142817604	1.376441589	LOC10192865 7	2.206882097	2.039822991
NDUFB1	71.47115908	80.11741561	ZNF175	2.007854029	2.069861929
CXXC5	0.28908563	0.20125796	RPL3	728.272084	992.3273598
PARD6B	0.392683251	0.317018957	ZNF174	4.471101807	5.774630896
NCLN	44.25788959	46.7832019	RPL8	2518.776964	3371.516188
LOC10029370 4	0.776889602	0.663863547	RPL9	129.1133319	195.6216038
PARD6A	4.436027017	5.279294653	RPL6	406.9072338	594.779082
CCL5	35.3413388	20.28691665	RPL7	159.5264116	260.6094593
IARS2	35.45146066	37.62269838	ZNF169	1.151881874	1.216163043
C9orf43	0.172021179	0.322839261	ZNF165	0.362159514	0.240390032
C9orf41	1.356232127	1.768562337	ZNF160	5.179407329	4.626175609
C9orf40	11.16059445	13.4698543	SPIN2B	2.894847179	3.97375786
NDUFA9	44.62505342	47.84519462	ZNF155	1.906504873	1.851518095
NDUFA8	36.75957557	45.11192679	RPN2	221.4108152	229.3790701
NDUFA7	74.48345181	92.81450553	RPN1	239.3954377	214.7581244
NDUFA6	41.52061272	47.62690041	PTPMT1	3.871453403	4.273269931
NDUFA5	8.812692841	13.17469189	SLC19A3	0.844869717	1.09601124
NDUFA4	39.78289961	52.28056904	ZNF148	4.738215235	4.741143709
NDUFA3	185.1580798	213.7582057	ZNF146	23.22687129	29.13481661
NDUFA2	57.14815167	68.10597132	SLC19A1	14.2093301	21.2044107
NDUFA1	97.90950295	107.1082736	SLC19A2	1.785060661	2.180046701
CCM2	56.33026283	46.35998971	ZNF143	6.792680485	7.548778071
CCNK	24.27034564	23.19535949	ZNF142	3.698073645	3.603305478

CCNJ	2.634820761	2.49230492	ZNF141	0.626533213	1.165204096
CCNI	58.36259922	50.67400905	ZNF140	3.301431806	2.869665489
CCNH	20.72843434	24.02381067	CDC7	6.05879422	7.28818433
CCNF	12.30315743	14.24718024	CDC6	12.93041691	15.17823787
CCNC	11.33819111	13.39654219	GPN2	25.49075656	25.03415806
C9orf24	0.183792382	0.18974395	GPN1	15.76469802	17.17059774
FAM53C	29.24397276	30.29409725	GPN3	8.141734893	10.09376839
FAM53B	4.670626284	4.927411521	TADA2B	4.29272829	3.9453368
FAM53A	1.167491993	1.232727106	TADA2A	3.742249641	3.438650674
LOC101060179	0.878467791	0.868367479	ZNF138	0.797206111	1.135999563
C9orf37	4.178819267	4.826185084	ZNF136	1.649242852	0.984950286
PISD	9.048383749	8.984758034	ZNF135	3.017050311	2.520047205
CCNY	16.86515313	19.24989246	ZNF134	10.10662942	8.020462528
LACTB2	20.23822842	20.54597955	ZNF133	3.832596066	3.495493622
CCNO	1.840168384	1.704911586	ZNF132	0.459939563	0.405956501
SURF6	15.35482467	18.37597353	ZNF131	14.61579798	14.28306354
CD14	0.730476662	0.707732091	CLINT1	41.45527395	41.71157453
SURF1	6.078336066	5.857702867	RSPO2	50.35201323	54.42781658
IQSEC2	4.965655722	4.01677531	RSPO3	1.528291708	0.585631676
C9orf16	20.13730879	18.30891748	ZNF124	1.943878508	2.124215812
SURF2	20.45014518	25.64888132	NDC1	15.76289018	22.37494687
LRRN2	0.116194288	0.1	ZNF121	1.113392666	1.504598375
IQSEC1	4.909782546	4.538446521	TIMM23	58.20846536	70.88116449
ADHFE1	2.101289298	1.313634988	TIMM22	26.19860009	30.65330137
SURF4	152.9026469	129.6456681	TIMM21	11.54689154	18.64708309
LRRN4	0.1	0.112553017	ZNF117	0.513728158	0.447540595
ACER2	0.637658753	0.363930031	ZNF114	0.166890056	0.131840486
ACER3	4.161839071	3.888052529	ZNF112	0.642463133	0.606506687
LRRN1	6.661454001	4.748253612	GPS1	37.53059624	40.00744337
CD24	74.45552472	70.56705509	TIMM13	33.17174023	42.82801698
CD22	0.1	0.111267973	GPS2	84.51521237	82.20731164
FAM57B	0.247519007	0.310662562	TIMM10	70.7044061	86.7814714
FAM57A	15.18585158	13.61797017	ATP6AP1L	1.813432618	1.470233051
SPTLC1	8.282474896	8.180267966	RPS3	295.7987239	427.4261612
SPTLC2	5.718934048	4.107478511	ZNF107	2.599967519	2.222729741
RSRC1	12.0227589	13.91525323	ZNF106	2.940824354	3.202260015
SPTLC3	0.545875719	0.447305587	GLTSCR1L	1.391804585	1.483558309
NCS1	14.78708712	17.69947616	RPS2	1411.167275	2045.752695
RBBP8NL	0.1	0.1	RPRM	12.99069755	12.02762787
CCT3	203.2343012	267.508231	ZNF101	1.932034956	1.744476888
CCT2	124.1648802	157.1178229	ZNF100	1.066189701	0.873268945
LOC102288414	34.26326249	49.39076469	NDE1	7.438645833	7.168248128
PDRG1	12.14855052	14.73878254	GPR1	2.546907168	1.861575817
CD47	25.10386002	21.56132734	TYW1B	0.281014902	0.334996301
CD46	27.66035914	30.71115983	GPR3	2.507198649	2.923716669
CD44	381.7134887	309.6732078	VEPH1	0.401131909	0.246209326
CD63	535.8108254	463.2677066	CTNND2	0.128435291	0.106767773
MIS12	5.819906413	6.50493467	CTNND1	19.18698097	17.99866538

CREG1	0.741057218	0.942217001	CDH6	0.784925248	0.688590199
GPC1	13.22171429	12.78004595	CDH5	0.1	0.10898599
CREG2	1.366014491	1.025227195	CDH3	20.30462432	15.55011926
GPC3	0.1	0.1	CDH2	19.82411661	15.0158131
GPC2	0.571911284	0.905757954	APMAP	70.85358018	78.38584689
CD59	49.58884651	37.02263246	CDH1	0.186315725	0.138519383
CD58	6.72890846	6.029748428	RPS9	292.5101152	377.1504906
GPC4	0.1	0.109987659	RPS7	295.1090371	420.3646739
CCT8	69.21876159	86.78658272	RPS8	887.9141631	1229.416452
CCT7	121.0298918	149.2981398	RPS5	1030.431939	1331.385095
GPC6	16.56379339	13.28636767	GPT2	8.211644561	10.03426381
CCT5	221.3394669	267.5638717	RPS6	807.0681467	1250.115231
CD55	12.22315317	11.42937814	RPSA	536.2353667	781.0825797
CCT4	92.63475643	111.4456644	LSMEM1	0.319409429	0.308883151
CD74	0.4708598	0.47513434	MUSTN1	0.598846281	0.557952669
CD72	0.234241026	0.291701117	CLEC7A	0.1	0.1
CD70	217.7491067	199.6690518	MPDU1	58.01237353	56.41631274
FAM58A	28.75167251	30.21207293	CDK9	19.47664942	17.74673925
DKKL1	0.150389211	0.495767049	CDK8	10.9443631	12.93656566
RPA1	48.1653932	55.39549236	CDK7	18.55862775	22.52277547
RPA2	38.88426963	46.19760457	CDK6	4.128999938	4.506048631
RSRC2	20.21017173	22.30500107	CDK5	15.38491049	16.11298875
ND4L	4731.339527	5659.021129	CDK4	160.6507246	169.0804173
GPAM	1.333713487	1.577628804	CDK3	0.695619736	0.856059438
RPA3	11.89821974	12.80603183	CDK2	37.61910801	40.2354672
CD68	112.7077518	77.40616097	CDK1	33.29254106	41.56584574
CD83	2.867380372	3.333389788	WRAP53	22.05124379	25.68154015
CD82	15.0602821	8.157407885	PTPN21	2.994475681	2.077881785
CD81	176.4289501	166.0945352	PTPN23	22.83781288	18.08736793
PPFIA1	10.3427302	10.08689089	TAPT1	1.707907875	2.177855429
EP300	5.972451782	4.767177516	GPX2	0.140147818	0.18599884
PPFIA4	0.34047806	0.414793881	GPX1	304.6934549	323.4118744
PPFIA3	9.795672738	7.241917697	GPX4	415.2970844	363.4827114
PPFIA2	0.482866052	0.444971189	GPX3	0.690020181	0.437028199
CD97	0.382667315	0.514281925	LIX1L	12.76247307	12.68153833
RUNDC3A	0.353902521	0.301434516	GPX8	32.50374316	28.83561406
CD8A	0.1	0.1	GPX7	1.80778376	1.124993634
GPD2	8.682430232	8.566009729	YDJC	20.94524758	31.39314704
TOR1AIP2	4.982709143	5.541012011	WRAP73	12.02524898	15.20839493
PDS5B	9.280507068	9.504642558	CDNF	0.295305553	0.183671052
RPF2	8.725713106	13.89476982	NDNF	0.769521856	0.746014737
PDS5A	16.54110229	19.40695522	HIRIP3	5.605335454	5.844240956
DDX60	9.740884102	4.888708428	RASGRP1	0.1	0.114763847