

Table 2. Results of SAM analysis between different subtypes of MCC in GSE39612. Data is representing overexpression of gene in two subtype in positive and minus value.

(1). Gene were ordered according the SAM significance, gene with the positive value were overexpressed in subtype II of MCC whereas minus value genes were overexpressed in subtype I.
 (2). Significance increased with decreased of absolute values of ranks from 10 to 1 or -10 to -1.
 Rank 1 or -1 genes are the most significant of SAM results.

Gene symbol	GSE39612 stIstosII	Gene symbol	GSE39612 stIstosII	Gene symbol	GSE39612 stIstosII	Gene symbol	GSE39612 stIstosII	Gene symbol	GSE39612 stIstosII
AK3	-10920	CREBBP	-7909	SIGMAR1	-4933	YAF1	-1309	RGS1	5178
PPP1R16A	-10919	UBR4	-7908	ARAF	-4932	RUNDC3A	-1310	C10orf62	5179
NFIA	-10918	RP4-798A10.7	-7907	RABL2L1 // R.	-4931	RBBP4	-1311	C22orf42	5181
UBA6	-10917	CYB5B	-7906	DFAC110	-4930	FBRSL1	-1312	GLP1R	5181
PRDM4	-10916	TCHP	-7905	THEM4	-4929	ALS2	-1313	DIO3	5183
CWF19L1	-10915	C8orf59	-7904	ARMC8	-4928	CDK4	-1316	ST7-AS2	5186
PRKAG2	-10913	ZNF101	-7903	ZRANB1	-4927	EZH2	-1317	FOXP2	5187
TRCK	-10912	NOLC1	-7902	DFYFC4	-4909	UBE2C	-1390	TM6SF3 // TNX	5188
TANK	-10911	ZKSCAN3	-7901	CCND127	-4925	NUDCD2	-1389	KLHL18	5186
LRRC73	-10910	HDAC4	-7900	HINT1	-4924	COMMD4	-1388	ANKRD20A12	5187
RSAD1	-10909	HKFL4	-7899	ZNF502	-4923	RPAIN	-1387	LOC10192866	5189
ZNF654	-10908	ZC3HAV1L	-7898	RP11-498C9.1	-4922	ZNF605	-1386	PIWIL2	5193
SGOL1	-10907	MTX2	-7897	HU53	-4921	NKIRAS2	-1385	TNXX // TNX	5195
ACPE	-10906	TRAM11L	-7896	POG5	-4914	NUP98	-1378	SP100	5193
CADM2	-10905	NDUFR8	-7894	FCF1 // MAP	-4919	SAC3D1	-1383	CCDC7	5198
TANC2	-10904	DNAIC12	-7893	NAASO	-4918	HSPD1	-1382	FAM118B	5199
ARHGFE26	-10903	PPP3R1	-7892	MTAP	-4917	BRD3	-1381	APAF1	5200
KRI1	-10902	EMD	-7891	E1F1	-4916	C10orf12	-1380	ST8SIA4	5202
MEX3C	-10901	YTHDC2	-7890	FAM120A	-4915	RP11-384P7.7	-1379	C1R	5203
LOC10050944	-10900	NIT1	-7889	PKG5	-4914	NUP98	-1378	SP100	5206
CCDC186	-10899	KCNK3	-7888	EAP8	-4913	TMEM38B	-1377	IGF1	5207
PEG3-AS1	-10898	SH2	-7887	RABF1	-4912	ATP5SL	-1376	LINC00869 //	5208
TONS5	-10897	EXOC2	-7886	RBM18	-4911	RSBN1L	-1375	H0XB3	5210
POP4	-10896	HECTD9	-7885	CHCHD2	-4910	CBX5	-1374	PBXIP1	5211
BOLA2 // BO	-10895	DENND1B	-7884	AKO55981	-4909	SLC25A15	-1373	PDGFRL	5212
RP11-539S1.1	-10894	PCM1	-7883	PSMD14	-4908	SMARCA5	-1372	LINC01192	5213
STX2	-10893	EAF1	-7882	GMCL1	-4907	BIRC5	-1371	LCE1E	5214
SOS2	-10892	DCAF10	-7881	NRCAM	-4906	UNC119B	-1370	SPATA24	5215
ZNF7	-10891	DCTN3	-7880	SRSF11	-4905	H1FX	-1369	POLDIP3	5216
HSPB11	-10890	DEU2	-7879	DXO	-4904	NPR3	-1368	POM121L10P	5218
RBM26	-10889	CLC4	-7878	BC062753	-4903	USP1	-1366	H0OK3	5219
GP88	-10888	DC527370 //	-7877	C7orf73 // U	-4902	C15orf40	-1365	TP53AP1	5220
MEDE28	-10887	OLP1	-7876	SPHAK2	-4901	ZBTB39	-1364	HGCAT5	5221
SEC61G	-10886	TBLX1	-7875	RBM22	-4900	EPB41	-1363	FRG1B	5222
ZNF77	-10885	TIMM10B	-7874	NSMCE2	-4899	FBXW11	-1362	RRCRN	5223
CSGALNACT2	-10884	CAND1	-7873	MOC52	-4898	PRPF3	-1361	FCN3	5224
TMEM161B	-10883	FASTKD2	-7872	BUD31	-4897	MIR3656 // 1	-1360	CYP2A6	5225
SHFM1	-10882	OGFOD1	-7871	DIDO1	-4896	C11orf31	-1359	UBR4	5226
KIAA0430	-10881	CPB2	-7870	TUBA1C	-4895	YAP1	-1360	YAP1	5227
APEX2	-10880	TOK	-7869	ZC3H6	-4894	UBLT-AS1	-1357	DUG1	5229
PTCD3	-10879	ZFP41	-7868	TAF9B	-4893	WDHD1	-1356	C7orf62	5230
YIPF6	-10878	ZNF12	-7867	GNB5	-4892	NOL7	-1355	ACSM5	5234
PKP2	-10877	GG52	-7866	ARHGAP11B	-4891	SMKRI1	-1354	LAC1	5235
TAFAP2B	-10876	MHRP57	-7865	ARH1	-4890	GFMT2	-1353	LOC10192897	5236
MCC	-10875	SLC44A4	-7864	NTSC3A	-4889	NUP98	-1352	SH3BP2	5237
C9orf89	-10874	SEC22C	-7863	DELL1	-4888	MTHFS // ST	-1351	SLC11A1	5239
BSDC1	-10873	SPPL3	-7862	FANCM	-4887	LOC10013009	-1350	PARP10	5241
DMPK	-10872	EP400	-7861	PTGR1	-4886	SLC38A1	-1349	BLNK	5242
FARSA	-10871	MTAP	-7860	GUF1	-4885	MRPS11	-1348	DGKA	5246
CNCG2	-10870	SUV39H1	-7859	FBXO42	-4884	ZNF91	-1347	TDFG1 // TD	5247
ME3	-10869	HES7	-7857	HEB2	-4883	LOC1004076	-1346	FCRL2	5248
KDEL2	-10868	HMG81	-7856	HNRNP1	-4882	ITF1	-1345	ABCL13	5249
LINC00957	-10867	C22orf29 // C	-7855	PHACTR1	-4881	SPATA5	-1344	RP11-2201S.5	5249
ATP6V0E1	-10866	SYMPK	-7854	PHLNL1	-4880	LOC10028909	-1343	ITGB8	5252
SUPT20H	-10865	AIFM1	-7853	GPR89A // G	-4879	FAM126B	-1342	CPEB3	5254
IFT2	-10864	CUL4B	-7852	IKZF5	-4878	CSE1L	-1341	RPS-1039K5.1	5256
LCHD1	-10863	SIRT4	-7851	NTSC3A	-4877	GFMT1	-1340	IL3RA	5257
TARS	-10862	ENOSF1	-7850	DAF7	-4876	NLK	-1339	DC1	5259
LOC10065293	-10861	AP3M1	-7849	UBQLN4	-4875	MIR52	-1338	PCMTD1	5260
SLC30A7	-10860	TSR1	-7848	PLAA	-4874	MIS18BP1	-1337	OVOL1	5261
FAM120A	-10859	TPBGL	-7847	KIF26A	-4873	THAP1	-1336	CASP10	5263
SPPL3	-10858	LOC10106074	-7846	ZNF2591 //	-4872	CEP41	-1335	LOC10192823	5264
FAM124A	-10857	ZMYND8	-7845	MTOR	-4871	TP53	-1334	ISP	5265
SNX2L2	-10856	MKS1	-7844	LOC10192707	-4870	QRS1	-1333	TMEM63A	5266
ZNF704	-10855	PQB1	-7843	ZSCAN21	-4869	TIGD7	-1332	LOC1019269C	5267
PCDH8	-10854	MGEA5	-7842	TTCL4	-4868	PCNLX4	-1331	FAM185A	5268
TMEM178A	-10853	RGS10	-7841	EPS15L1	-4867	THUMPD1	-1330	LINC00598	5269
TLL4	-10852	SBN01	-7840	LDLR2	-4866	E2F6	-1329	BUB1	5270
TMEM126A	-10851	CXCC4	-7839	MFF	-4865	RBL1	-1328	ADAMTS-AS	5271
DNAIC16	-10850	KCH-AS1	-7838	COX6A	-4864	LINC01128	-1327	CTAS1 // C	5272
PPP1R2	-10848	TMEM181	-7837	ZNF436	-4863	POLAI	-1326	LOC10506161	5273
RAPGEF4	-10847	UCP2	-7836	TUSC3	-4862	RP5-1136G13	-1325	CCNG2	5274
FZD8 // MIR4	-10846	ZNF326	-7835	SLC4A1AP	-4861	DVL2	-1324	LOC1005059C	5275
ZBTB37	-10845	PIGK	-7834	ZCCHC17	-4860	CAPRN1	-1323	ASB14	5278
FRMD3	-10844	KD8	-7833	MIR4745 // T	-4859	GS2L3	-1322	FAM83A	5279
METTL8	-10843	SRB2	-7832	LINC01128	-4858	KCTD1	-1321	LINC00926	5281
OXADR	-10842	FAM166A	-7831	P1BF1	-4857	JRK	-1320	MUC13	5282
RNF113A	-10841	LVRM7	-7830	AASDHPPP	-4856	GOSR1	-1319	LCE1E	5283
LSM12	-10840	DGKD	-7829	MIR4697 // I	-4855	MTF2	-1318	TMEM150A	5285
PSMC4	-10839	K18orf25	-7828	MEN1	-4854	PRMT6	-1317	LINC01128	5286
ORL5	-10838	GABRR2	-7827	ILF3	-4853	FUS	-1316	USP24	5289
NCV1A	-10837	NTS0C1	-7826	LOC1011282T	-4852	SOCS4	-1315	TYR	5291
ATP5O	-10836	ZNF655	-7825	MYBL1	-4851	PZD28	-1314	LINC01192	5292
SLC25A16	-10835	AGO2 // CAS	-7824	GEMIN9	-4850	STOX2	-1313	CTAGE15 // I	5293
CDR2L	-10834	SMIM15	-7823	UBL7-AS1	-4849	CCAR1	-1312	LOC1001315E	5294
ZNF599	-10833	FECH	-7822	FECH	-4848	NUDT3 // RP	-1311	STK32B	5295
RHOBTB3	-10832	ILF3	-7821	KD8	-4847	RPE	-1310	SLC7A2	5296
IREK1	-10831	PPRD	-7820	ISG15	-4846	ELP5	-1309	ASTN2	5297
ZFYVE20	-10830	DCP2	-7819	HMG81	-4845	RP9 // RP9P	-1308	LOC10050551	5299
RIFDC1	-10829	RANBP3	-7818	CASP3	-4844	LRBA	-1307	LOC10192803	5300
CNCG2	-10828	ATP6V1D	-7817	YDC	-4843	DAAM1	-1306	INMT	5301
SPIN3	-10827	TEX15	-7816	NDUFB3	-4842	MED31	-1305	XAF1	5304
C3orf14	-10826	SLC14A	-7815	SF3A1	-4841	CRND2	-1304	EVK1	5307
ZNF397	-10825	SHAR1	-7814	ATG10	-4840	GFMT0 // CE	-1303	PLN1	5308
RNF81L	-10823	WRAP73	-7813	ZBED3	-4839	TAT	-1302	TAT	5309
CELF2	-10822	C3orf38	-7812	TMEM254	-4838	POM2P3	-1301	SNORA71B	5310
PIAS2	-10821	SSR1	-7810	UCHL5	-4837	TRIP13	-1300	SLC39A8	5311
FAM19A1	-10820	UCP5	-7809	ATPAF1	-4836	LOC642852	-1299	ZFYVE28	5313
SPATA18	-10819	AGCS	-7808	ABC87	-4835	NR5N1	-1298	DFB106A //	5314
PKF3CA	-10818	FAM111B	-7807	NOL9	-4834	NUP54	-1297	SSX2 // SSX2	5315
C2orf58	-10817	WRNIP1	-7806	CSNK2A1 //	-4833	DNAIC18	-1296	IL21	5316
WDR4	-10816	TMEM41A	-7805	DMTF1	-4832	TTI2	-1295	LOC285902 //	5318
APH1B	-10815	MADD	-7804	MED22	-4831	PBRM1	-1294	ADAM5	5320
BAG2	-10814	GKKA	-7803	HLCS	-4830	PSMG3	-1293	TMEM63A	5321
MIR525	-10813	MRPL1	-7802	TACO1	-4829	IGFBP1	-1292	UZAF1	5322
EPN45	-10812	STAM2	-7801	MYO5A	-4828	OPIS-AS1	-1291	SH3BP2	5323
PNPO	-10811	SIRT3	-7800	ZNF567	-4821	TBMT11	-1290	GAGE1 // G	5324
TMEM231	-10810	C8orf48	-7799	UBR5	-4826	IK	-1289	DUK1	5325
NUCB2	-10809	ZNF378P	-7798	GATAD2B	-4825	LOC10192874	-1288	ACAT1	5326
GATC // SRSF	-10808	E1F2A	-7797	NEFL	-4824	GNP3	-1287	AC009502.4	5327
SPIRE2	-10807	TUN1	-7796	SLC25A33	-4823	RNMT	-1286	FLJ32154	5328
OPD1	-10806	RTN2	-7795	IBTK	-4822	POT1	-1285	ZNF445	5330
HMG5	-10805	ANKRD32	-7794	ZNF567	-4821	SUCD	-1284	SMG7	5331
NFATC3	-10804	WTAP	-7793	STN3	-4820	DXS1	-1283	LOC10195015	5332
COL4A3BP	-10803	ZNF302	-7792	UBLCP1	-4819	CCT8	-1282	XG	5334
PRDX4	-10802	SLC25A6	-7791	AK6 // TAF9	-4818	CENPF	-1281	HISA7	5335
CYSL2	-10801	TANC1	-7790	HNRNP	-4817	TUBGCP3	-1280	MKLN1	5336
UG4	-10800	EF3A	-7789	PODXL	-4816	F501	-1279	IKZF2	5337
CDK9	-10799	C12orf57	-7788	ARHGAP23	-4815	ABR	-1278	LRRFP1	5338
TP53BP1	-10798	LINC00342	-7787	C1orf52	-4814	KPNA2	-1277	RG512	5341
PIGA	-10797	NXPE3	-7786	WHSC1L1	-4813	GPR125	-1276	KCNJ15	5342
FAM213B	-10796	MIR523	-7785	CD200	-4811	PRPF4	-1275	ZNF815P // I	5344
GLA9-MVCBP	-10795	ZNF354C	-7784	CBAZT3	-4810	ELAVL4	-1274	BCL3 // MIRI	5349
MGC57346	-10794	DRK1A	-7783	C17orf85	-4809	RAB9B	-1273	ZHX2	5350
ZNF207	-10793	SRO	-7782	SRD	-4808	SRD	-1272	PTSG2	5351
UBXN7	-10792	CALML4	-7781	C5orf10	-4807	MIR517	-1271	DTWD2	5352
MCC1	-10791	RP1							

LRRN3	-10778	DNAH9	-7769	PTPMT1	-4796	ATP6V1G2-DC	-1860	RP4-794H19	-1496	TCAIM	5364
USP48	-10777	NSUN5P1 /// I	-7768	NLN	-4795	C1orf88	-1859	NPR1	1498	LOC10013023	5365
GTFC2	-10776	IPW /// LOC1	-7767	STP1	-4794	PABPC4L	-1858	F10	1499	CASC17	5366
PPFR1D	-10775	SNRPN /// SNI	-7766	GPDI1	-4793	NRA3	-1857	NRA3	1500	PRSS22	5367
CLF6	-10774	CRS5	-7765	KAT5	-4792	C6orf29	-1856	TMEM37	1501	RADS1B	5368
ST13	-10773	SMCS	-7764	GMPS	-4791	SRP1	-1855	RP11-108P20	1502	MKNK1-AS1	5371
JPK	-10772	DENN1D1A	-7763	NAP11L	-4790	ZNF8	-1854	AKAP13	1503	ICOSLG	5372
MEF2A	-10771	PRPF18	-7762	LOC10192901	-4789	ANP32E	-1853	GM2A	1505	TUBA8	5373
LOH12CR1	-10770	PRAME	-7761	LINC00294	-4788	SUMO1	-1852	RAP2A	1506	MS42	5374
KAT6B	-10769	FASN	-7760	KIF14	-4787	KIF14	-1851	ANKRD20A12	1507	RPS27	5375
RABA4C	-10768	LZIC	-7759	KIN	-4786	ZFSGALNACS	-1850	PART1	1509	KCTD15	5376
RIMBP2	-10767	GP1BB /// SEP	-7758	PEX6	-4785	KIAA1731	-1849	CELSR1	1510	FUS	5377
EFHC2	-10766	THAP6	-7757	RAB33A	-4784	ABHD12	-1848	DDR1-AS1	1511	ADR2	5379
SYNPR	-10765	ATP6V0A2	-7756	PRUNE	-4783	MRPL30	-1847	TP63	1512	TRIMS	5380
NUMBL	-10764	COA7	-7755	HSPA14	-4782	RAD54B	-1846	BMS1P20 ///	1514	TMEM72	5383
MARS	-10763	CLKF	-7754	SAMD1	-4781	USP49	-1845	RP11-115A15	1515	C19orf26	5384
PWHL4	-10762	ETP51	-7753	GCLM	-4780	KDM2B	-1844	HPSE2	1516	SLC39A8	5385
FAM178A	-10760	URGC	-7752	MATR3 /// SM	-4779	IMMP1L	-1843	CD300C	1517	PLA2G12B	5386
PROL1D	-10759	WRD20	-7751	EXO2	-4778	NUDCD1	-1842	EDN1	1518	FOLH1	5389
TPR	-10758	DQS8205 ///	-7750	HMGAI	-4777	MIR1236 /// I	-1841	RHOH	1520	FAM115C /// I	5391
INSR	-10757	ANAPC11	-7749	ZNF160	-4776	C11orf73	-1840	ITPK8	1522	ARPN	5392
NOUFAP3	-10756	SNR8	-7748	TMEM120B	-4775	LZ151	-1839	ARHGAP15 ///	1523	LOC00626	5393
LOC730202	-10755	DCP1B	-7746	STK39	-4774	SGCS	-1838	TRP51	1524	SRP7	5397
ABHD12	-10754	AGO2	-7745	DOK6	-4773	ZNF879	-1837	LRP10	1525	SPAG8	5401
NAC1	-10753	FAMS7B /// LI	-7744	SH3RF1	-4771	HMMR	-1836	ITGB8	1527	NPAS2	5402
SLC7A14	-10752	LSM3	-7743	PMPCB	-4770	METTL2A /// I	-1835	ILSR4	1528	FSCN3	5403
ZDHHC21	-10751	KRI1	-7742	ADSL	-4769	DHPS	-1834	ZDHHC3	1530	XG	5404
H565T1	-10750	ZCH13	-7741	ARPC5	-4768	MSH2	-1833	LOC10192905	1531	ZFYVE9	5405
BBS5	-10749	RNCE /// RHO	-7740	CNP2	-4767	POLR2K	-1832	DCAF8	1533	BCO34636 ///	5406
ARFP1	-10748	TNPO3	-7739	RBM15	-4766	MLP55	-1831	ARMC4	1534	LAMP5	5407
PCDH810 /// I	-10747	ARV1	-7738	ITF46	-4765	ASPM	-1830	ARFGF2	1536	MAN1A1	5410
GALNT13	-10746	TMEM50A	-7737	MTERF3	-4764	HIC2	-1829	DOCK8	1537	DCH52	5411
WASL	-10745	LOH12CR2	-7736	TMEM182	-4763	MBTPS2	-1828	THBD	1538	TEX11	5412
PROX1	-10744	CLPP	-7735	PRKDC	-4762	C4orf46	-1827	MIR5188	1539	STK4	5413
HPS4	-10743	RSL1D1	-7734	CUL5	-4761	MIR3934 /// I	-1826	SLFN1	1540	TSG10	5414
BLD9	-10742	CENPA	-7732	HELZ	-4760	UHRF1BP1L	-1825	CASP2	1543	LOC10192852	5416
LOC10099678	-10741	ALG13	-7731	PEX7	-4759	MTFMT	-1824	LOC1005075E	1544	SLAMF1	5418
VT1A	-10740	GK5	-7730	ADAT1	-4758	C1orf50	-1823	AMBRA1	1545	ZNF518A	5419
SLC25A42	-10739	ALKBHH	-7729	NPTX2	-4757	LINC00674	-1822	LINC01231	1546	FCGR2B	5421
TMEM22	-10738	DENNDSB	-7728	RAB11A	-4756	FCHSD2	-1821	F5	1547	IFNB1	5422
USP75	-10737	ARHGAP15	-7727	ANKRD1	-4755	ANKRD1	-1820	PLCG2	1548	MCFB9	5424
KLIF2	-10735	OSBP13	-7726	UBE2W	-4726	IP09	-1819	CLCF1	1551	TNFSF11	5425
UBR5	-10734	FBXL20	-7725	TRMT1L	-4753	SMARCA4	-1818	CDC14B	1553	C20orf41	5426
STX17	-10733	KNKNX1	-7724	C11orf90	-4752	GTFC3A	-1817	LOC10013344	1555	CFI	5427
C11orf1	-10732	RCHY1	-7723	NBR2	-4751	TTI1	-1816	AKAP13	1558	LOC154761	5428
MIB2	-10731	H2AFV	-7722	COX17 /// PO	-4750	DNA2	-1815	ADAMT15	1559	LOC10192950	5429
MYO6	-10730	PRICKLE4 /// I	-7721	CUL5	-4749	BIRC4	-1814	LOC10192955	1560	CFP2 /// LOC	5430
ANKRD5	-10729	CEP95	-7720	LINC13A	-4748	CDK19	-1813	CDK19	1562	IFTM1	5431
ADCYAP1	-10728	TP1	-7719	CTC3B8M12	-4747	MAPK8	-1812	LOC10050547	1563	SLC5A2	5433
DENN1B	-10727	KDM4B	-7718	FBRSL1	-4746	SNAPC	-1811	BV0351J2.2 //	1565	NOTCH2	5438
HOKAS	-10726	DAZAP1	-7717	MUS81	-4745	MIS18A	-1810	KCNH7	1569	DAB2 /// LOC1	5440
RPL5 /// SNOI	-10725	EFB1	-7716	RPS20 /// SNI	-4743	PMS1	-1809	LOC284561	1570	DSC2	5441
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GFRR8	-10723	PTHD1	-7714	CTD11	-4741	M2G2	-1806	GOLGA8I /// I	1572	PCF126	5454
GUCY1A2	-10720	DHX15	-7713	CSNK2B	-4740	CENPU	-1805	SULT1C2	1574	GYP4	5458
ZNF41	-10718	ZNF684	-7712	PCNP	-4739	GUSBP1 /// G	-1804	CR2	1575	ZNF664	5459
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RAGB	-10716	HSP90AA1	-7710	ZNF793	-4737	HNRNPC	-1802	KCNJ15	1578	MYNN	5477
SETD2	-10715	FBXL20	-7709	ZNF24	-4736	CREB1	-1801	SASH1	1579	ZNF986	5483
FCDP2	-10714	ZNF148	-7707	ZNF15	-4735	COAS2	-1800	STK39	1580	PCF11	5484
PTTG2	-10713	ZNF500	-7706	RAE1	-4734	ACAP1	-1799	GF14	1582	MBTPS2	5488
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CCDC93	-10710	TTCT8	-7703	TXNL4A	-4731	RAD23B	-1796	AGR2	1585	SEZEL2	5497
NOL7	-10709	LACTB2	-7702	SIAH1	-4730	PARP6	-1795	LOC100642	1586	AHCVL1	5498
C11orf31	-10708	KIAA1983	-7701	LOC10050671	-4729	METTL15	-1794	LOC10099672	1589	LOC1006074	5500
ENO1	-10707	IGF2BP3	-7700	ZNF345	-4728	ZNF271	-1793	NRP2	1588	FCRL4	5502
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VANGL1	-10695	ZNF19	-7688	PRKDC	-4716	LRPPRC	-1781	CEACAM6	1608	ACAA2	5552
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GGCX	-10673	UHRF1BP1L	-7667	RAD54L	-4695	MPHOSPH9	-1761	ATP6VD2	1640	39326	5598
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CNOT6L	-10666	GUSBP5	-7659	NLK	-4686	RP11-379H18	-1754	MTAP	1654	EFNA5	5633
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RADS4L2	-10663	SLC38A1	-7655	CTNRL	-4683	COMMD5	-1751	LOC10192906	1657	CDB	5644
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LOC28392	-10617	GGPS1	-7608	NRN33	-4636	RSRC1	-1706	WOR7	1719	PAPOLA	5855
HABP1	-10616	CK2	-7607	CK2	-4635	CK2	-1705	PEF	1720	ETS2	5859
TIG04	-10615	COX15	-7606	PHF19	-4634	GFTH23	-1704	SERPINB9	1722	FNATC2	5867
RP517	-10614	TRAF4	-7605	PAN115	-4633	CCDC34	-1703	CSN152AP	1723	TCTE3	5868
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TASRL4	-10609	TRAK2	-7601	NIPSNAP1	-4629	MAP9	-1699	GATA1	1727	PSMG4	5885
PHLP2	-10608	ADAMT513	-7600	LMBRD2	-4628	CEP57	-1698	TMEM144	1730	GLP1R	5889
RTE1	-10607	B3GALNT2	-7599	EARS2	-4627	SUMO4	-1697	LOC10192727	1731	CPXM2	5908
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FIP1L1	-10600	PPP2R2A	-7593	MED20	-4621	YEATS2	-1691	LOC1005064C	1738	SIN3A	5931
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FRLY	-10595	COPS2	-7587	PIGM	-4616	NUSAP1	-1686	POE78	1743	KIF23	5953
MARCKS	-10594	SHB	-7586	STG6AL2	-4615	ZNF571-AS1	-1685	CD01	1744	KLF16	5957
C11orf58	-10593	PIGT	-7585	ISOC1	-4614	EPM2AIP1	-1684	CLMP	1745	TMEM174	5961
HEATR3	-10592	C3orf67	-7584	GLT8D1	-4613	MAP2	-1683	PRDM1	1747	SAT1	5962
SYT14	-10591	MYBL2	-7583	FARS2	-4612	PKIA	-1682	ABCC8	1748	TRABD2A	5965
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IFIB	-10520	LOC10190624	-7507	FAM63A	-4537	ALOXE3	-1612	ALOXE3	1847	EF4E	6306
FAM53C	-10519	TAF1A	-7506	DANCR	-4535	NGDN	-1611	LINC00482	1848	YPT47	6310
BDH1	-10518	NDUF87	-7505	STXBPA	-4534	ERP44	-1610	ABCD4	1849	CARD14	6320
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CDKN2AIPNL	-10515	FAM120B	-7502	SMIM8	-4531	CSTF2	-1607	SFTPB	1853	UPK18	6329
GRB2	-10514	PRAF2	-7501	FAM63B	-4530	PCBQ2	-1606	FAMR2	1854	MKR2N2	6330
GDE1	-10513	FGFR1OP	-7500	GID8	-4529	MRR44A	-1605	INSL3	1855	CTL2	6331

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MDM4	-10475	TNPO1	-7461	CEP63	-4491	MRPL38	-1566	CBR3-AS1	1903	METTL15	6464	
RP14	-10474	RNF126	-7460	LOC283731	-4490	ZFP3	-1564	PLSCR4	1904	PLD1	6465	
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CCDC142	/// I	EXOSC6	-7457	KBTB07	-4487	RFCS	-1561	MLIP	1910	PGPEP1	6474	
SLC16A7	-10470	GRM3	-7456	AP3D1	-4486	MAP15	-1560	LIF	1911	ABCC3	6488	
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AAGAB	-10459	INTS6	-7447	GNCG	-4477	SMARCA4	1551	LOC10192738	1921	PPM1E	6537	
CCDC16	-10458	RPL35A	-7446	NRC04	-4476	CTOF55-LUC7	-1549	BC9L	1922	TMEM213	6540	
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SLC16A1	-10275	MLF1	-7269	PDCD5	-4294	BANF1	-1369	ELL	2161	SPTLC3	7340
SDOP	-10274	CCDC88A	-7268	METTL21A	-4293	MELK	-1368	NHPH1	2163	ERN1	7341
FAM122C	-10273	TTC9	-7267	CHP2	-4292	RBM27	-1367	IFITD1	2166	ANTR1	7346
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CEP50	-10075	KIF7	-7068	THAP2	-4100	RP11-498C9.1	-1170	LOC10192923	2422	PRK11A	8204			
TIMM22	-10074	DLG4	-7067	HNRNP2A21	-4099	CNTND2	-1169	ILIRAP	2424	PTP	8200			
PUS7L	-10073	TMEM10	-7066	IGF2BP3	-4098	TOP3A	-1168	RP11-663N22	2425	FOSL2	8205			
MAN2A2	-10072	FAM226A	///	7065	ATG9A	-4097	PTRHD1	-1167	ZBTB20	2426	LIMS1	8209		
MED13L	-10071	ANLN	-7064	DHRX	-4096	DTX3	-1166	EPX	2427	SMUG1	8214			
RCDR3	-10070	KCTD18	-7063	RPRD1A	-4095	CBRA	-1165	SLC17A3	2428	DOX58	8215			
RNF4	-10069	EHS1	-7062	ATXN7L3B	-4094	ATXN7L3B	-1164	ATXN7L3B	2429	LOC3046	8220			
RPL22	-10068	EFLN2	-7061	SHARP1	///	5	-4093	ZBTB44	-1163	TNR	2430	PTG	8224	
UBAC2	-10067	GAPVD1	-7060	PTMA	-4092	PRTFDC1	-1162	CA12	2431	JAK3	8227			
PTPRZ1	-10066	SURF6	-7059	PANK4	-4091	KIF11	-1161	LOC10050682	2433	SERPIN81	8235			
FRMD3	-10065	NOLC1	-7058	WDR36	-4090	SNAPCS	-1160	SPDR	2434	IGSF3	8236			
CNO110	-10064	NAPPLD	-7057	RYPB	-4089	CPT2	-1159	ELF5	2436	ASAP3	8249			
OCI0013070	-10063	ZNF431	-7056	CEP250	-4088	GICF2	-1158	DOCK5	2437	TM6A16	8251			
RNF14	-10062	DDX28	-7055	NAE1	-4087	NUDT19	-1157	MDPC1	2440	KIAA1217	8257			
OTUD3	-10061	DTD2	-7054	C1orf85	-4086	NCBP1	-1156	CCDC172	2441	MIR6883	///	F	8261	
CEP68	-10060	PARG	-7053	PBRM1	-4085	CBX5	-1155	RP1-142L7.8	2443	SLAMF9	8264			
POLR3B	-10059	RNF170	-7052	SMEK2	-4084	DDX23	-1154	CSNK1E	2444	WDR74	8270			
UQCRI1	-10057	ACAA2	-7051	H3F3A	///	H3	-4083	NUPE2	-1153	D21S2088E	2446	HECTD2	8271	
GAL2	-10056	WDR83	-7050	CKCA3	-4082	BAHC1	-1152	EGF-LAM-AS2	2447	NTRK2	8278			
LOC10106018	-10055	ATP8B2	-7049	ALL11081	///	4081	-1151	ZNF286A	-1151					

RBM18	-10016	KBTB08	-7013	PLCXD1	-4045	ZNF48	-1115	RASAL3	2493	CEACAM6	8475
FOXO2	-10015	NLN	-7012	MSH3	-4044	ZNF594	-1113	BHLHE40	2494	MAGB3	8478
WXC1	-10014	TUBBP5	-7011	PEX7	-4043	RBM8A	-1112	MFS012	2495	NDST1	8481
EP400NL	-10013	C9orf69	-7010	RHEB	-4042	METS	-1111	LOC10192902	2496	LPPT1	8483
EIF4E	-10012	C9orf69	-7009	LINC01420	-4041	C9orf114	-1110	SLIT2-IT1	2497	SAE1	8489
HMP19	-10011	RHEB	-7008	SERBP1	-4040	FAM1688	-1109	TBKBP1	2498	ANGPTL4	8490
OSL1	-10010	COG2IT1	-7007	HNRNP33	-4039	LRCH2	-1108	ZNF765	2499	CERS5	8491
TEX261	-10009	TUBA3C // TL	-7006	ATO7H	-4038	PM20D2	-1107	ARMCX4	2500	TNFRSF9	8494
TFAM	-10008	FOXR	-7005	IPW // LOC1	-4037	CDK5R2	-1106	BC039357 //	2501	ILIRN	8503
GRM1DL	-10007	CDM3B	-7004	DCM3 // SL	-4036	LOC101302L	-1105	CMAMP	2502	CHK3P1	8515
FLJ3717	-10006	UDUFAF5	-7003	UBX1	-4035	DEK	-1104	IFTM1	2503	ARRP21	8520
DPB8	-10005	LOC10050731	-7002	THAP2	-4034	H2AFY2	-1103	ADAR2-AS1	2506	BC027448	8521
SEC11A	-10004	SPAT52	-7001	ZKSCAN1	-4033	STRBP	-1102	CKNIP2-AS1	2507	LARP4	8522
MORF4L1	-10003	LINC00657	-7000	ABCE1	-4032	HIRP3	-1101	INOB0C	2509	AQP6	8525
WBPA	-10002	GTFC1	-6999	WIZ	-4031	PIGU	-1100	BTN3A1	2510	PHF20	8535
EIF1	-10001	NUP1	-6998	GPAMP	-4030	CI2orf65	-1099	CC122	2511	PRKCA	8550
COQ3	-10000	PPP1R14B	-6997	BAG6	-4029	ZWILCH	-1098	PLIP	2513	PDLIM5	8563
ATP11B	-9999	DDX15A	-6996	AMOTL1	-4028	GEMINA	-1097	CGNL1 // LO	2515	MZF1	8571
KANSL1	-9998	SHMT2	-6995	FAM213A	-4027	FAIM	-1096	TTL3	2516	TNFRSF9	8579
JM1D4	-9997	PCMTD1	-6994	CELF1	-4026	CI4orf2	-1095	PVRL4	2520	ZFP36L1	8584
NFX1	-9996	MARPL15	-6993	LOC389906 //	-4025	EID28	-1094	RP11-33301	2524	LINC01004	8587
PHK42	-9995	MAK16	-6992	UBTF	-4024	SCC57	-1093	CEBPB	2525	TRPS1	8601
PHF20L1	-9994	RSN1	-6991	RP12-486G15	-4023	SGOL2	-1092	CMAMP	2526	TMEM106B	8602
GDE1	-9993	PAHTM	-6990	ENK1D	-4022	NOLL1	-1091	OQSP2	2527	TP63	8603
KMT2A	-9992	ZNF677	-6989	ATF1	-4021	TOMM34	-1090	CTSE	2528	TRPM7	8604
AZ2	-9991	CI10orf1	-6988	SP2	-4020	CI10orf35	-1089	LINC00396 //	2529	B4GALT1	8610
NCSTN	-9990	Uchl1	-6987	SUGP2	-4019	RP11-486G15	-1088	CAA // C4B /	2530	PDLIM5	8612
ELOV16	-9989	SEZ6	-6986	UOCHR8	-4018	GABRB3	-1087	LOC1009956	2531	CEBPD	8614
NMT1	-9988	MSMO1	-6985	BCL2L1	-4017	CERS6	-1086	RP11	2532	TRPA3	8617
SIN3A	-9987	GATAD2A	-6984	TRPM7	-4016	TBC1D30	-1085	MX1	2533	TPN1	8625
ATAD1	-9986	MORF4L2	-6983	POLR1C	-4015	ZNF704	-1084	LINC01088	2536	BAZ2A	8634
NUDT9	-9985	LOC10193011	-6982	CIorf43	-4014	BC030152	-1083	LOC10050705	2537	HLA-DOA	8640
CALB1	-9984	SMURF2	-6981	DCP2	-4013	EFTUD1	-1082	OAS2	2541	NR1	8643
UBA1	-9983	NELFD	-6980	MRS2	-4012	ZFP1	-1081	TRM43 // TI	2542	DYNLRB1	8650
KPN1	-9982	MRLAC2	-6979	ERC3B	-4011	LTN1	-1080	CLEC4G1	2544	PLEKHA3	8654
LSM8TL2	-9981	DCLRE1C	-6978	IFT27	-4010	ELMOD2	-1079	QDRP	2545	CYP19A1	8655
RAB2A	-9980	INVS1ABP	-6977	MAML1	-4009	CORO2A	-1078	CP	2546	COA1	8659
TCLD1	-9979	SSNA1	-6976	FGFR1OP	-4008	CTD-212488.2	-1077	LOC10013205	2547	IQCA1	8660
TTC17	-9977	FBXO41 // LC	-6975	DUSP8 // LO	-4007	TAI11	-1076	HSPA6	2548	KIAA0430	8661
ANKS1A	-9976	ZNF547	-6974	MEDE	-4006	PIGK	-1075	TNAP	2549	ARHGAP15	8666
SLTA	-9975	ENK2	-6973	LINC00921 //	-4005	ENK2	-1074	MUC17	2550	LRPMB13	8672
REL1	-9974	PROSER1	-6972	RBM15	-4004	RNF40	-1073	TEX35	2551	MESP1	8692
ZNF470	-9973	CENPD1P1	-6971	ASB7	-4003	VEZT	-1072	SP110	2552	GLS	8695
NUCKS1	-9972	ELP6	-6970	ELF2	-4002	C2orf69	-1071	DDX10	2554	MIR124-2HG	8697
GT2I	-9971	DNAC17	-6969	KDM4B	-4001	FXR2	-1070	LINC00494	2555	DOCK5	8700
PIAS2	-9970	KIF9	-6968	CNCE2	-4000	STRN4	-1069	LOC400794	2556	BCL2L3	8708
PIOD2	-9969	MIR6657 // F	-6967	NBE2	-3999	ROR2	-1068	ZFP64	2560	PIPP1	8709
NGAMT1	-9968	NUP37	-6965	CDK13	-3998	SCWAA	-1067	RP11-359K18	2561	GRN	8722
ANKLE2	-9967	EDC3	-6964	TRIM52-AS1	-3997	CI6orf59	-1066	LOC10192937	2562	SIGLEC7	8725
MMIM13	-9966	RFXO3	-6963	COX5B	-3996	MDP1 // NEI	-1065	BAAT	2563	SYNE2	8726
FAM131A	-9965	AKT3	-6962	MAGE4A // I	-3995	ZNF678	-1064	RP11-421F16	2564	TTC12	8733
DCAF8	-9964	TRAPPC9	-6961	TTC32	-3994	KRR1	-1063	PIK3R4	2565	LOC10013392	8746
GKAP1	-9963	MTAL	-6960	IDH2	-3993	OPA1	-1062	ATG2B	2566	FOSL2	8748
NF334	-9962	FUS24B2	-6959	ADAM	-3992	ATP4A1	-1061	FSWAP	2567	ADCV1	8758
DVL3	-9961	STPG1	-6958	LPIN2	-3991	SUPT17L	-1060	OVGP1	2569	ETNK1	8763
LARP4B	-9960	ATP6V1D	-6957	AMMECR1L	-3990	ATL1	-1059	PPM1H	2571	SYMPK	8773
ZNF814	-9959	ZNF711	-6956	REV3L	-3989	HNRNPM	-1058	LAMA3	2572	PVRL1	8775
PTPRK	-9958	EP30D	-6955	EMC9	-3988	PHF20	-1057	SH3BP1	2573	FBXO3	8776
DPY30 // ME	-9957	UBRN1	-6954	SEZ6L2	-3987	TENM3	-1056	ARHGAP15 //	2574	ZNF24	8777
LINC00493	-9956	VPS34	-6953	ACR2B	-3986	GNS2	-1055	ACR2B //	2575	LOC10013392	8780
TICRR	-9955	MAGOH8	-6952	RSGL1	-3985	RAB40B	-1054	LOC10193015	2576	OPRM1	8784
FSCN1	-9953	FUNDC2	-6951	KAT5	-3984	ZDF2	-1053	FRAS1	2577	USP12	8786
PSMA1	-9952	ATG5	-6950	COP21	-3983	MAP2K5	-1052	FBXL18	2578	ACOT11	8788
DNAC8	-9950	SMAD9	-6949	CTBP1	-3982	FAM64A	-1051	LOC10192883	2579	UGT3A1	8789
NCR3L1 // I	-9949	ZNF93	-6948	FAM149A	-3981	EFB5	-1050	LINC01138	2580	GPMS1	8795
SRB01	-9948	FADS2	-6947	NOL3	-3980	PAFOLG	-1049	NOL3	2581	TM71	8797
SMARCA2	-9947	CACNA1A // I	-6945	HNRNP33	-3979	ILF3	-1048	LRRIC18	2582	NG7	8801
TMEN15	-9946	THAP5	-6944	CAND1	-3978	VTA1	-1047	BOLA2	2583	RAB30	8808
TMUB2	-9945	FAM118B	-6943	KIAA1549	-3977	GDAP1	-1046	SCARAS5	2584	OPNS	8819
AIMP1	-9944	STRA13	-6942	MIR4723 // I	-3976	TNPO2	-1045	FAM154A	2585	TNS1	8821
COX14	-9943	FTSJ1	-6941	UNK	-3975	SPS8A	-1044	CFB	2587	CEP170 // CC	8822
PRR7	-9942	TRPT1DA	-6940	RNF4B1	-3974	SCFD3H	-1043	PRKAB1	2588	ZNF235	8824
CKAP2	-9941	MEK3D	-6939	PDL2	-3972	ASTN2	-1042	ZNF627	2590	PCP2L	8853
STIM2	-9940	NAP1L1	-6938	TMEM245	-3971	H2AFX	-1041	C17orf99	2591	ARHGAP30	8854
LNPEP	-9939	PTPRS	-6937	ERAL1	-3970	LOC10050550	-1040	NUDT7	2592	HMG2A	8856
TBC8	-9938	CEP95	-6936	C11orf95	-3969	ASTN2	-1039	ZNRF2	2594	CYP2C9	8858
USP47	-9937	RHEB	-6935	CEP76	-3968	ZNF785	-1038	CD9	2595	LOC10192862	8862
KDM6B	-9936	CEP95	-6934	SGB	-3967	KDM6A	-1037	TTT18	2596	DNAC27	8863
DPB8	-9934	RHD0M2	-6932	CL2orf4	-3966	LPIN1	-1036	STAB1	2598	GALNT15	8868
CCDC171	-9933	CAPRIN1	-6930	IFT43	-3965	MAD2L1	-1035	LOC10192949	2599	ASXL2	8877
FUT8	-9932	PEG10	-6929	RAB31P	-3964	WDR5	-1034	NBEAP1	2600	FAM83A	8880
LOC10192767	-9931	AZIN1	-6928	ZNF445	-3962	NUP98	-1032	MMP28	2602	FGF1	8881
RPN2	-9930	ZNF638 // ZH	-6927	CCDC23	-3961	ZNF718	-1031	EFR3B	2604	MTMR7	8897
PPP2R5C	-9929	DXV1	-6926	LOC10192767	-3960	KXAF1	-1030	ECO2	2606	SLC2A3	8905
CTU2	-9928	TTC3 // TTC3	-6925	ZNF850	-3959	TMX2	-1029	LOC10192888	2608	LOC10050627	8906
CP1C	-9927	PAIP1	-6924	NUCKS1	-3958	CACNA2D1	-1028	MALAT1	2609	SERPINB13	8907
PSMD4	-9926	PAFAB181	-6923	PTS	-3957	POK1L	-1027	LOC10192949	2610	RP11-115181	8911
BCAP29	-9925	DEDD2	-6922	KLF16	-3956	UMPS	-1026	MAG1	2613	ECM2	8920
ZDHHC6	-9924	DYRK12	-6921	KHLH22	-3955	NGFRAP1	-1025	LOC10013154	2615	FAM122C	8931
ATP1V1C1	-9923	PRKRI	-6920	ITGB4	-3954	TRM5A	-1024	PRKRI	2616	PCF7B	8935
ESRRG	-9922	ASB8	-6919	ZNHIT2	-3953	C17orf80	-1023	LRRFP2	2617	EIF4EBP2	8936
DCP2	-9921	GFPT1	-6918	LRRCA1	-3952	TTK2	-1022	KCNJ15	2618	HLA-D08	8937
IMPACT	-9920	TIFA	-6917	CD28P2	-3951	ZNF10	-1021	CACNG8	2619	ITGB3	8941
ZNF788 // ZH	-9919	GID4	-6916	PRPF8	-3949	MAP9	-1020	MAP3K19	2620	NOTCH2	8952
SYT13	-9918	RPE	-6915	RNP101-AS1	-3948	MAPK8	-1019	AMMECR1	2622	C13orf66	8953
NRP34	-9917	TR2A	-6914	TRPA	-3947	ASXL1-AS1	-1018	RHOJ	2623	NFYS11	8955
PPP3CA	-9916	FAM179B	-6913	SMO1	-3946	HNRNPNC	-1017	CA13 // LOC	2625	BRD3	8958
C9orf28	-9915	OSCP1	-6912	FLCN // PLD	-3945	ZRANB3	-1016	C11orf44	2628	KCNAB1	8960
NOUHV3	-9914	ZNF738	-6911	KIAA1430	-3944	ZNF292	-1015	VCY // VCY1	2630	WWTR1	8969
IRS1	-9913	PHACTR1	-6910	SLU7	-3943	SUD53	-1014	YPF4	2631	IGSF3	8973
PIGV	-9912	SRCAP	-6909	BAX	-3942	OBSL1	-1013	WFDC9	2632	STXBPL5	8974
KIF1A	-9911	PHACTR1B	-6908	RNF81	-3941	FUBI1	-1012	EPH42	2633	ZNHIT6	8976
FAM219B	-9910	SEN7	-6907	CALM1 // CA	-3940	SKX2P	-1011	SYO1	2635	GSN	8990
HMGNA4	-9909	NDRG4	-6906	ZNF83	-3939	GIN1	-1010	LINC00869	2636	GPCR5A	8995
TOP1	-9908	SRD5A3	-6905	EMC8	-3938	SFXN1	-1009	KIAA1654	2637	AASDHPPT	8996
GEMIN5	-9907	GNA11	-6904	LOC10192891	-3937	BAG5	-1008	LINC00474	2639	GAS7	8997
BRF1	-9906	PMPCA	-6903	SKP2	-3936	DDX11 // DD	-1007	FUNDC2	2642	SFT2D3	9003
KIF1A	-9905	SPAT1AS1	-6902	HSPB1	-3935	RP11-111M2	-1006	LOC64090	2643	ATP9B	9006
PANK2	-9904	UCK1	-6901	LINC5A	-3934	DHPS	-1005	NOS1	2644	CEP41	9007
ATR	-9903	UBQLN1	-6900	ZFAND4	-3933	MRPS23	-1004	SHC3	2645	LRRC2	9026
SGSM2	-9902	NR1P1	-6899	KIDNS220	-3932	BUB3	-1003	PLCD3	2647	H19 // MIR6	9027
ZNF568	-9901	FTO	-6898	SUPT4H1							

NIPBL	-9867	ANP32E	-6865	WVVOX	-3897	SNRPB2	-968	TRPM6	2692	OSMR	9179
GLB1L3	-9866	DMNT3A	-6864	ATP9A	-8996	PRPF40A	-967	SLC13A2	2693	PRR26	9181
SCAND1	-9864	MLLT4	-6863	LETMD1	-3895	OCDC1	-966	WNT5B	2694	MAPP3K2	9186
SSH2	-9863	AMACR	/// CI -9862	ATP9F1	-3894	BUD31	-965	SH2D4A	2694	IGCA	9189
HOXA10-HOX	-9862	ANAPC10	-6861	TMEM5	-3893	VEZF1	-964	CAPN6	2696	VWA3A	9190
KISS1R	-9861	CADM1	-6860	BCLAF1	-8992	DAXX	-963	ITC23	2698	BMP1	9192
ADSS	-9860	REPIN1	-6859	BBS10	-3891	RP11-715J22J	-962	KIF25	2699	DNAH1	9196
EPG5	-9859	DRAP1	-6858	ITC26	-3890	MRPL49	-961	RP11-753A21	2701	DPH5	9198
DTD2	-9858	CRY2L1	-6857	KRRT1	-3889	KATNAL1	-960	LOC10050627	2702	URB1	9199
NHLH2	-9857	MIP3K4	-6856	MRP91L	-3888	OPHN1	-959	PCF4	2704	PCP4	9202
EMC1	-9856	PAIP1	-6855	ITFG1	-3887	ATP9B	-958	DEFB19	2706	SLC22A7	9205
CEP152	-9855	HMGXB4	-6853	ZNF616	-3886	KSR2	-957	ZNF507	2707	GDA	9220
MTMR1	-9854	DDP3	-6852	C18orf54	-3885	G2E3	-956	HLA-DPB2	2708	AFB3	9224
TROVE2	-9853	ESYT2	-6851	STARDA4	-3884	SOX11	-955	GATA3	2710	TPP1	9230
SCAF11	-9852	HE5A	-6850	CY8SD1	-3883	CYCS	-954	TRAF3IP2	2713	NDUFA10	9232
NLGN1	-9851	ENTPD5	-6849	PPH4	-3882	FXYD6	-953	UNC00700	2714	TPM3	9239
LRIF1	-9850	LDB6	-6848	NRK	-3881	DCO2A	-952	ITC17	2715	URE2D	9241
IP011	/// PO -9849	HDAC6	-6847	LE1	-3880	DQ570096	-951	MIER1	2717	PARD3B	9245
MRPS15	-9848	ATXN2	-6846	ATXN2	-3879	C12orf43	-950	LINC01128	2718	FGD2	9247
MED28	-9843	CCDC18	-6845	CCDC18	-3878	HYLS1	-949	TBX5	2720	SSPN	9248
OXDC10	-9841	MKI67	-6843	MKI67	-3877	HAUS1	-948	LOC10192966	2721	SMARCB1	9252
OSGIN2	-9840	RP11-395I6.3	-6842	RP11-395I6.3	-3876	NOCI	-947	LOC154872	2722	MIS18BP1	9254
CHRNA1	-9839	UBC10	-6841	UBC10	-3875	ZNF425	/// ZZ -946	PAH3A	2723	BCSF29	9255
PHKA2	-9838	TPD52	-6840	TPD52	-3874	RNF138	-945	RP11-349E4.1	2724	NEDD9	9265
C9orf17	-9837	DDX50	-6839	DDX50	-3873	LOC10050653	-944	SLC7A14	2725	BTNL9	9268
EPB414A-AS1	-9835	SUPF4H1	-6838	SUPF4H1	-3872	EEF1A2	-943	LOC157931	2728	SEPT5-GP18B	9276
MRPL17	-9834	SGOL2	-6837	SGOL2	-3871	ZNF223	-942	HOPX	2729	ESR1	9277
FDEIC	-9833	CDZ5A	-6836	CDZ5A	-3870	FL42351	/// I -941	INPP5D	2730	C9orf117	9282
LOC10192793	-9832	TKX	-6834	TKX	-3872	ZNF17	-939	CE5A4	2731	AKAP13	9289
RADS2	-9831	DEPDC1	-6833	DEPDC1	-3868	FLJ22184	-938	LOC10192855	2734	DDAH1	9295
TRPM7	-9830	MECTP2	-6832	MECTP2	-3867	TSPLY4	-937	RP11-548M1.1	2736	PAPPA	9300
EMG1	-9828	MBTD1	-6831	MBTD1	-3865	SOX11	-936	BCD63675	/// Z739	NLGN2	9301
UQC8B	-9827	HINFP	-6830	HINFP	-3864	FLVCR1	-935	CYP27B1	2740	SPON1	9304
GABPB1-AS1	-9825	HIAT1	-6829	HIAT1	-3863	FLVCR1	-935	QAS2	2741	PCSK6	9305
LECT1	-9825	RNF26	-6828	RNF26	-3862	KCNMA1	-934	C17orf67	2742	TRAP	9317
ZDHHC1	-9824	ARPP19	-6827	ARPP19	-3861	SNORA29	/// -933	USP46	2743	TRAPPC13	9320
RBM14	-9823	FAM200A	-6826	FAM200A	-3860	CWC27	-932	RIMS2	-931	VXSI	9323
PSPC1	-9822	PMF1	-6825	PMF1	-3859	LSM8	-930	ACCS1	2745	SLC12A9	9326
MAF1L3CA	-9821	SMAD4	-6824	SMAD4	-3858	NGRN	-929	UNC00317	2746	AKAP13	9327
PPL2A	-9820	SUT1	-6823	DCLRE1C	-3856	CWC15	-928	GUSP11	2749	PTP25C	9328
UHMK1	-9819	KSEF	-6822	KSEF	-3855	CPFS3	-927	ZC4H2	2750	FAM115C	/// 9331
NIPAS	/// NF -9818	RP13-39P12.3	-6821	KIF5B	-3854	BRAP	-926	PBX2	2751	DCTN5	9339
DPH6	-9815	RNF8	-6820	AGP5	-3853	SIN3A	-925	LOC1019283C	2752	FOXP1	9340
SLC25A46	-9814	PPP1R37	-6819	CHMP5	-3852	ZNF473	-924	UPP2	2753	BTNL9	9341
TAPT1-AS1	-9813	SETBP1	-6818	SLC25A36	-3851	NARS2	-923	TLR4	2754	TRABD2B	9342
PTDS1	-9812	MAM134B	-6817	NARS2	-923	SEPHS1	-924	NAT2	2755	PPP1R3	9345
CDKL1	/// CI -9811	NUP92	-6816	PRPF40A	-3849	RBPAP3	-922	MRP27	2759	DHX55	9348
NSD1	-9810	NEGR1	-6815	AH11	-3848	CHAF1A	-921	MAP52	2760	ANKRD40	9368
XKR7	-9809	RP11-391M1.1	-6813	RF3C	-3847	LOC10050663	-920	DPPA4	2760	SIK2	9369
KATNAL2	-9808	EKOC6	-6812	TIA1	-3846	PEBP1	-919	RABGAP1L	2761	TACCI	9372
C9orf16	-9807	RADS1-AS1	-6811	C1A01	-3845	MAPKAPK5-A1	-918	FAM71F1	2763	LOC10050614	9373
HSPH1	-9806	BCL7B	-6810	MAP1B	-3844	BIRC5	-917	BCD48132	2764	ARHGAP12	9382
NIP41	-9805	DRS	-6809	C19orf25	-3843	BR3BP	-916	LOC10192746	2766	LAMA3	9384
RBM26-AS1	-9804	KMT2E	-6808	LNB	-3842	HOGARP3	-915	UNC01153	2767	RHOBTB3	9391
RMNDSA	-9803	PSMG1	-6807	ADD2	-3840	CNR1	-914	PTCRA	2768	ILSRA	9392
TMEM261	-9802	RGMB	-6806	TMEM14A	-3839	ZCCHC10	-913	RAB7B	2769	PLEKHG3	9393
KL7	-9801	PEX5L	-6805	ZAH2	-3838	DUSP28	-912	ZBTB20	2770	SERPINB3	9400
PPP1R9A	-9800	SOX4	-6804	ATPS0	-3837	ELAV1	-911	ABCC3	2771	BMS1P20	9403
DHC97	-9799	C9orf24	-6803	G1T2H5	-3836	BR3BP	-910	IL6R	2773	DCS3	9405
SOS1	-9798	TRAPPC5A	-6802	TRAPPC5A	-3835	UNIP1	-909	TSZ2D2	2775	ADCY1	9410
DSEL	-9797	BRSK1	-6801	PANX1	-3834	HSG1G2	-908	GOLGA2	2776	DBF4B	9411
WRNIP1	-9796	KIAA1549	-8833	NABP2	-907	CLDN12	/// U -907	RLN1	2777	FN1	9412
UTP3	-9795	AMP2	-8832	SMEK2	-906	NCAPG	-905	IFNA7	2779	MESP1	9414
ALB32909	/// -9794	LSM14A	-8831	NCAPG	-905	IFNA7	2779	FMO2	2780	MUC17	9415
CNB3	-9791	TCFL5	-8830	OLA1	-904	FMO2	2780	SCARF1	2781	HGF	9432
FAM32A	-9790	DGCR5	-8829	DNTN1	-903	HSAUS	-901	ADRBK1	2782	ZNF107	9439
LINC00669	-9789	MRPL27	-6795	LOC642533	-8828	CTSF3	-902	KIF13A	2783	RBM52	9440
APBA3	-9788	SNK5	-6794	EID1	-8827	FANCI	-901	SSX1	2784	TM6SF2	9444
LOC388780	-9787	NPM1	-6793	PATZ1	-8826	JKAMP	-900	CCDC176	2785	EPN1	9445
PMS2P1	-9786	TOP3B	-6792	RBM15B	-8825	SPAG5	-899	PHF11	2786	GRIPI1	9447
RSD4	-9785	ZNF25	-6791	ZDHHC4	-8824	RNF158	-897	PHF11	2786	LOC1006113	9447
AC009120.6	-9784	LOC10192923	-6790	LOC10192923	-6789	ZNF323	-896	ZNF323	-896	KLCC3	9449
HEV2	-9783	RFOF3	-6789	SAC1	-8822	MRPL42	-895	ALDH4A1	2789	MYEF2	9450
IQCA1	-9782	PRKAA2	-6788	NDFUFA6	-894	MCAT	-893	CPA4	2792	ARPP21	9451
XFH0853	-9781	LZHGDDH	-6787	MGAT3	-892	MGAT3	-892	AKAP4	2793	AKAP1	9453
KDNB853	-9780	TFAM	-6786	MIRN636	/// SI -9819	ZNF507	-891	FOR2	2795	ZKFP1	9458
EIF2B1	-9779	MTMR9	-6785	PHH1L1	-8818	ZNF507	-891	TINAG	2796	KHSPR	9462
NIN	-9778	RANBP1	-6784	TRKB	-8817	TRKB	-888	LOC10012864	2800	PTGERS	9463
PIN1P	-9777	CTD-225GP15	-6783	PROM11	-8816	ACTL6A	-889	LOC10012864	2800	PICL2	9472
YTHDC1	-9776	LOC202181	-6782	ZNF638	-8815	FGF9	-880	FXYD1	2806	PAPOLG	9475
DNAJC25	/// U -9775	SEPHS2	-6781	RP11-353N14	-8814	FAM76B	-887	VBP1	2807	CD2AP	9478
MESDC2	-9774	POLR1D	-6780	ALG11	/// UT -9813	VBP1	-886	IKZF1	2807	PARVG	2809
MAPP2K5	-9773	PRADC1	-6779	PXVLP1	-8812	HINT3	-885	PARVG	2809	GRIK5	9480
KANSL1	-9772	BR777	-6778	WDR89	-8811	ZNF292	-884	RBP1P	2810	KLCS	9449
RASA1	-9771	STOML1	-6776	YTHC1	-8810	CEW1	-8810	ADP2	2811	BAG6	9492
ILF3	-9770	GRK6	-8809	GRK6	-8809	PSIP1	-882	TOR1AIP2	2813	RNF32	9495
MRPS14	-9769	RSF1	-8808	RSF1	-8808	SRSF1	-881	LINC01115	2815	DPY19L1	9497
RP11-305K5.1	-9767	CEP104	-8807	CEP104	-8807	CP5F6	-880	AKO96803	/// 2816	CALD1	9505
GUSB	-9766	ADNP2	-8806	ADNP2	-8806	NIFK-AS1	-879	CP	2817	GRIK1	9512
FKBP4	-9765	UIC2	-6772	NCAM1	-8805	CNPY3	-878	LOC10193011	2818	GRIN1	9512
ZNF789	-9764	GAB	-6770	ADAM10	-8804	ADAM10	-877	LINC01138	2819	SLC25A37	9517
GLTSCR1L	-9763	SREK1	-6770	FASTKD1	-8803	C11orf171	-877	DIAPH3	2821	CEACCE1A	9522
ILPH	-9762	RPAP1	-6769	TUBA1B	-8802	LINC00665	-875	LOC285638	2822	ATP9B	9524
XPO6	-9761	CREM	-6768	RANGRF	-8801	MLLT11	-874	CTS8	2823	C9orf156	9531
RIMS1	-9760	UBE2Q1	-6769	SPATA33	-877	SPATA33	-877	LRRC2	2826	APOLA	9532
STX16	-9759	PHLP1P	-6765	ZNF567	-3798	US2APR	-872	GPLD1	2827	CEB1	9536
STM2	-9758	GADD45GIP1	-6763	ENDOG	-8797	ENDOG	-878	COX5B	2829	AFB4	9549
RAPGEF6	-9757	PP3CA	-6762	BLOC156	-3795	RP11-255C15	-870	KIAA1257	/// 2830	FGFR2	9554
DNAJB6	/// TH -9756	HSPBAP1	-6761	UBA2	-3793	RP9	-869	BACE2	2831	FOXP1	9557
SH2B2	-9755	PNPLA8	-6759	PAPOLG	-3792	KIAA0895	-868	PSENI1	2834	ZNF540	9565
RHB	-9753	BRP1	-6757	CEP131	-3791	SNAPC3	-867	LIMK1	2835	BAHC1	9575
TMEM185A	-9751	SNRPD1	-6756	TMEM68	-3790	EBNA1BP2	/// -866	ORSP3	2837	PHRF1	9578
RBM10	-9750	FM11B	-6755	LOC10028745	-865	ORSP3	-865	ODF3	2838	G58B	9581
UBAP2L	-9749	RSN1	-6754	IP08	-3788	TSNAX	-864	LOC10028705	2840	FBLN1	9583
CACNB2	-9748	IPP	-3787	TBC1D30	-863	TBC1D30	-863	LOC10192795	2841	CACNB4	9586
FXO4	-9747	USP7	-862	USP7	-862	IFGN1	-842	IFGN1	2842	FXYD3	9590
CCDC50	-9746	AGAP1	-861	AGAP1	-861	MYCNOS	2855	SELE	2856	RIN2	9594
SLC38A9	-9745	PRR11	-860	PRR11	-860	LIMD2	2844	SELE	2856	ADAMT56	9654
USP9X	-9744	CFP68	-859	CFP68	-859	SHH	2845	LOC389199	2857	CRBP	9683
ZNF665	-9743	CSE1L	-858	CSE1L	-858	DADA	2846	KCNA5	2858	CPD	9690
KIAA0368	-9742	POLD1	-857	POLD1	-857	LOC10050568	2847	OR51B2	2859	SETMAR	9691
IKZF4	-9741	ASPHD1	-856	ASPHD1	-856	TMPP5S13	2848	MRC2	2861	PML	9696
METTL8	-9740	CTNND2	-855								

SPATA7	-9709	GNB1	-6710	SNRPE	-3746	SMC4	-822	CLIC5	2893	LMAN2	9814
PIA54	-9708	LINC00621	-6709	MAZ	-3745	ZNF572	-821	FYXD3	2897	IHH	9816
DR1	-9707	ARFRP1	-6708	CC74	-3744	SNRPE	-820	ZNF595	2898	CEP112	9817
NHLH1	-9706	HNT1	-6707	CN07B	-3743	TRD1	-819	FL37786	2899	HS9B	9833
CCZ1	/// CCZ1	WIF3	-6706	SPR7N	-3742	ZNF512B	-818	LOC1019278E	2902	KCNAB1	9842
RUF3	-9704	DYM	-6705	TEAD1	-3741	RNF24	-817	FOXDA /// FO	2903	EGOT	9855
SOS1	-9702	37500	-6704	LPHN3	-3740	CDC47L	-816	CR936796	2904	ADTRP	9857
RNF165	-9700	RTN4P1	-6703	ACOT7	-3739	CHD2	-815	FAM46C	2905	STAT3	9858
RNF4	-9699	GATC	-6702	CDK5	-3738	ND51	-814	WSP5	2906	BCL2L14	9881
SRR72	-9698	LRN510	-6701	WZ17	-3737	LYRM7	-813	SLC27A5	2907	GN32	9903
FBX09	-9697	BBSA	-6700	ZNF506	-3736	HSPA13	-812	HCRTR2	2908	GYP4	9904
LIN7A	-9696	CBL	-6699	DHRX5	-3735	ZNF74	-811	GSTA3	2909	TP63	9907
LYSMD4	-9695	BALIP2L1	-6698	PARP6	-3734	RADIL	-810	TECTB	2911	PIWIL2	9908
FBXO28	-9694	PPP1R7	-6697	SOXA	-3733	ZNF260	-809	ANKRD29	2913	MMP2	9914
EIF3E	-9692	DRG1	-6696	APEX1	-3732	FBX14	-808	NRP1	2915	UPB1	9918
ZCCHC7	-9691	C20orf8	-6695	ZCCHC7	-3731	TOP2A	-807	CNPF1	2916	ABRA	9919
IBAS7	-9690	PCRN13	-6694	HSPB11	-3730	ZNF591	-806	INOB0D	2917	RAB7A	9922
SMUG1	-9689	GATAD2B	-6693	KATS	-3729	RRM1	-805	LOC1019289E	2918	ZNF208	9925
AP5M1	-9688	MTX1	-6692	ZNF540	-3728	MAD2L2	-804	LOC10192947	2921	SLC7A1	9935
WAC-AS1	-9687	TPG52	-6690	UBE3D	-3727	METTL4	-803	POU2F2	2922	C18orf25	9937
MRB3	-9686	EPC1	-6689	CCDC10	-3726	FAM20B	-802	NRP2	2923	RCN3	9938
ARHGAP18	-9685	DES2	-6688	HCF1	-3725	LOC10192854	-801	IQGAP3	2924	UQC1	9942
GLCC1	-9684	PKORX	-6687	PCGF5	-3724	FAR1	-800	POLR2J2	2927	GNB5	9944
TMEM80	-9683	MIR636 /// SR	-6686	GPS2	-3723	EMC10	-799	SLC22A14	2928	RHOH	9946
PPP3CA	-9682	DNAJC8	-6685	MIR3934 ///	-3722	ANKRD50	-798	GREM2	2929	THR8	9947
AK3	-9681	HSP1-MOB4	-6684	KIAA1279	-3721	Clorf109	-797	LOC93463	2931	PDE1C	9959
PPP6C	-9679	ADK	-6683	TUBB3	-3720	TYMS	-796	MTG2	2932	RNF213	9960
KMT1	-9678	CCDC124	-6682	TRIKK	-3719	TMEM97	-795	BANP2-AS1	2933	DNAH1	9964
RP11-517B11	-9677	AMO1	-6681	SCAMP1	-3718	FLJ10038	-794	UCA1	2934	MPOU1	9968
GZEB	-9676	GNAS	-6680	TIAL1	-3717	PSIP1	-793	ACTN1	2935	ADAM7	9969
RP11-635N19	-9675	PAGR1	-6679	CPD5A	-3716	NBEA	-792	LINC00643	2936	IL12RB1	9974
RNF114	-9674	ZNF10	-6677	PELP1	-3715	CDC47	-791	LOC10050627	2937	MSRB3	9976
ASPH	-9672	RAB31P	-6676	DNAIC10	-3714	RFC2	-790	AQP7 /// LOC	2938	LARP4B	9982
ZMYM2	-9671	FH	-6675	HNRNPAB	-3713	SRSF10	-789	LOC145678	2940	WWTR1	9985
THAP9	-9670	GOLM4	-6674	SMAD1	-3712	UBE2T	-788	CSPG4P1Y	2942	PLEKHG3	9988
KFBP1A /// LC	-9669	SWNCRP	-6673	ZNF398	-3711	LRRCA9	-787	FUT10	2943	RAPGEF6	9994
MLX	-9668	PTAR1	-6672	TRA2B	-3710	SRSF3	-786	FGD5-AS1	2944	ZDHHC21	9995
TMEM167A	-9667	PUM2	-6671	SMN13	-3709	MED19	-785	RPAIN	2945	FAM9B	10001
TRIM37	-9666	PPP2R5E	-6670	PAIC5	-3708	CHERP	-784	MYF6	2947	IL1RL1	10004
PQLC2	-9665	TPG52	-6669	PPP2CA	-3707	WHD01	-783	LINC00672	2948	UHMK1	10014
ANKF1	-9664	SMARCA1	-6668	SNAPC7	-3706	WDR5	-782	SOX6	2949	ANK	10020
SMARCC1	-9663	ARHGEF7	-6667	PAR6B	-3705	ZNF56	-781	JM1D7-PLA2G	2950	MORN1	10028
BRD7	-9662	HMC65	-6666	AC004941.5	-3704	TMEM237	-780	TNFRSF12A	2951	RASGRP2	10030
MFS06	-9661	TOLLIP-AS1	-6664	NOL7	-3703	HNRNPDL	-779	SMTN	2952	TLR4	10032
CNSK1G1	-9660	PRRC2B	-6663	BAG6	-3702	RBAK	-777	DP4	2953	BRM26	10033
CDK12	-9659	CCNY	-6662	FAM126A	-3701	ARMC1	-776	AIP1	2954	MTSL1	10039
STK17B	-9658	PTK10	-6661	PIR2A12A	-3700	PIR2A12A	-775	NCR2	2956	FIND3B /// LC	10043
MED14	-9657	ENO2	-6660	HDHD2	-3699	ADD2	-774	DDPA4	2959	C14orf1	10047
ZNF118	-9656	LOC729683	-6659	KPNAS	-3698	NDUFA4	-773	TMEM241	2960	CNSK1A1	10048
ANAPC4	-9655	AKG	-6658	BC042855 ///	-3697	ZYG11B	-772	STAT5A	2961	HDAC9	10077
ETNK2	-9654	ZNF585A	-6657	POP7	-3696	CBX2	-771	ZNF99	2962	WNT2B	10083
APEH	-9652	LIN37	-6656	PTPRG-AS1	-3695	RTN3	-770	CE3	2963	GULP1	10096
PHF3	-9651	NUPH1	-6655	ATP55	-3694	UN52	-769	TC7L2	2964	MED12	10097
NIN	-9650	LOC10027721	-6654	XCR1L	-3693	PCP4	-768	MRB2	2965	MRB2	10099
CACUL1	-9649	ZNF148	-6653	SPICE1	-3692	UQCRR /// UC	-767	MLANA	2966	ELF3	10104
EMC1	-9648	BLOC156	-6652	URL1	-3691	RANBP2	-766	TOLLIP	2967	GRIN2C	10106
FAM96B	-9647	MPPED2	-6651	ASH2L	-3690	CEP120	-765	TIRAP	2971	KDMS5B	10117
TCF12	-9646	POLR1B	-6650	BRF2	-3689	FAM92A1	-764	GSTTP1	2972	KIF6	10123
BGALNT5	-9645	CXD7C	-6648	ESF1	-3688	DS3	-763	AQP2	2973	SLC25A37	10134
DYNC1L1	-9644	TDRK1	-6647	LARF7	-3687	SYT1	-762	LINC00518	2974	OR4	10140
DAK	-9643	STAR10	-6646	RPP25	-3686	RPRD2	-761	LOC388882	2975	CDK13	10141
RPL7L1 /// W	-9642	NPAL3	-6645	ARL4EP	-3685	FAM98B	-760	LOC10013011	2976	PARD3B	10148
PEBP1	-9641	ZNF12	-6644	UQCRCF5	-3684	HUJRP	-759	RP11-515O17	2979	HIST1H3E	10150
RBBP9	-9640	BAI2	-6643	BAI2	-3683	LYRM2	-758	VIM	2980	NRP2	10155
SRSF1	-9639	ARCTF1	-6642	KCTD7 /// RAI	-3682	WDR75	-757	GTDC1	2981	RBM33	10158
GAB2	-9638	GOSR2	-6641	KPNA1	-3681	FAM71F2	-756	FAM71F2	2982	HR	10160
LSAMP	-9637	TRMT13	-6640	RP11-127820	-3680	KPNA2	-755	MMP24-AS1	2983	CCDC171	10163
MTC1	-9636	PHF13	-6639	CEPB3	-3679	DNAJC9	-754	RNASE7	2984	FAM46C	10165
POLE4	-9635	DIEXF	-6638	ZKSCAN5	-3678	AP3M2	-753	LINC00842	2985	TUB	10166
PDP1	-9634	MCF21-AS1	-6637	TMEM38B	-3677	SAP30	-752	TAGAP	2987	NAP1L4	10178
BACE1	-9631	AGCF1	-6636	MRLP19	-3676	RICK1	-751	KIA0226	2988	ADAM22	10179
LINC01004	-9630	PCP4	-6635	XPO5	-3675	XPO5	-750	BC031255 ///	2989	EF4E	10181
PQLC2	-9629	CCDC59	-6634	WSB2	-3674	NIP2A	-749	Clorf113	2990	ZDHHC21	10190
SHOX2	-9628	SUTRKA	-6633	CCDC142	-3673	RM12	-748	ORS4K4P	2991	SYT12	10198
ATP2B1	-9627	GNPD0A2	-6632	ENOSF1	-3672	KDM1B	-747	LOC10272354	2992	ABCC13	10207
RFP1L5	-9626	RTN2	-6631	METTL2B	-3671	BAZ1B	-746	FKBP11	2993	NBEAP1	10212
CELF4	-9625	UBE2LQ1	-6630	TMEM107	-3670	PHN1	-745	SLC35D1	2994	CLMP	10214
C5orf30	-9624	CNF7	-6629	KIA02022	-3669	ZNF418	-744	LOC1005064C	2995	KIAA1217	10219
TEAD1	-9623	GRIK5	-6628	RC3H2	-3668	RBF0X1	-742	RCE1	2996	ITGB3	10233
TAGLN2	-9622	ZNF708	-6627	SET /// SETSF	-3667	MTERF4	-741	LINC01310	2997	RPL35A	10234
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RFK3	-8934	THOCS	-5944	NUP62CL	-2992	PPM1E	-69	RP11-435O5	3864	CDB6	13399
HGF	-8932	KIF3B	-5943	FANCB	-2992	FANCB	-68	BNM51P6	3866	RALGAP1	13407
TDR2	-8931	RBF20C	-5942	GATS	-2990	MOCL1	-67	IQSEC3	3868	FLT10	13410
RPS21	-8930	THAP9	-5941	GTF3CG	-2989	SUMO1	-66	KIF26B	3870	JPH3	13412
CAPRN1	-8929	UBQLN1	-5940	ALG9	-2988	ARNT2	-65	MVLP1	3871	NDRG2	13420
METTL9	-8928	CENPB	-5939	SCAMP5	-2987	PKIA	-64	PPBP2	3872	UGT1A1 /// U	13421
AGFG1	-8927	CDC23	-5938	APTR	-2986	OSGEP11	-63	TNFRSF11B	3873	SPAG8	13435
LOC10192959	-8926	GABRB3	-5937	RNF20	-2985	COCH	-61	DI02	3875	LOC10192933	13440
NDU9A	-8925	ZMYND8	-5936	PSD3	-2984	ZNF567	-62	BNK2	3876	TADA3	13441
RBMA	-8924	HAUS5	-5935	CBX3	-2983	CKAP5	-60	EPS15L1	3877	KLFE	13445
MACROD2	-8923	TMPO	-5934	WHSC1	-2982	C2orf69	-59	BCL2L14	3878	SPTBN1	13446
SYNM	-8922	PSMC2	-5933	BRAP	-2981	DNAJC6	-58	S100G	3879	KSR1	13452
LOC10050731	-8921	ALKBH2	-5931	DARS	-2980	DBF4	-57	FGF10-AS1	3880	LINC00643	13460
SMDF1	-8920	ZMAT2	-5929	KLHC10	-2979	SRSF12	-56	DCN	3881	RMS2	13464
CSPT1	-8918	ZNF746	-5928	NUDT3	-2978	ARL3	-55	KANK3	3882	MEF2A	13474
KIF38	-8917	ACTR10	-5927	LINC00997	-2977	CAMSAP1	-54	USHBP1	3883	DCN	13481
KAA2018	-8916	KLF13	-5926	RP4-635E18	-2976	TIPIN	-53	DUSP1	3884	XPR1	13494
ADAM22	-8915	CLIP2	-5925	TUBA3BP	-2975	PRIM1	-52	RP11-402D21	3885	ST7-AS2	13516
LOC646778	-8914	CSTF3	-5924	ZNF496	-2974	RP5-93SK16.1	-51	C1orf54	3886	ATP6VD02	13521
FLJ27354	-8913	NUP210	-5923	GRSF1	-2973	COCH	-50	SERPIN81	3887	TNSL	13526
AUNIP	-8912	PUM1	-5922	HSP9AA	-2972	ARPP19	-49	ZNF280A	3888	C17orf89	13527
MAP9K	-8911	CNPY1	-5921	PKN2	-2971	CAMSAP1	-48	CYP2C9	3889	LMIG2	13536
REV1	-8910	NDC1	-5920	TRMT6	-2970	ZNF829	-47	SLC25A28	3891	DNAJC16	13538
PDE9A	-8908	SUN1	-5919	DNMT3A	-2969	SERF1A /// SE	-46	AGTR2	3892	ELK4	13539
ZC3H7A	-8907	CNST	-5918	TFRC	-2968	LOC10192933	-45	PRR26	3893	ADRB3	13544
ZRANB1	-8906	RDX	-5917	SSU72	-2967	RNF5 /// RNF4	-45	ZSCAN20	3894	TC2CD2	13548
TMEM57	-8905	YXCC4	-5916	RFD3	-2966	RFD3	-43	ZNF676	3895	SOX6	13551
RNF208	-8904	RBP4	-5914	TMEM148 ///	-2965	ORC4	-42	KLK4	3896	TMEM45B	13554
RTN4RL1	-8903	ZNF23	-5913	C6orf203	-2963	CEP97	-41	ZFC3H1	3897	MEG3	13555
PP1L6	-8900	TMCC2	-5912	FDX1	-2962	METTL21A	-40	SLC6A4	3899	METTL9	13565
BHLHE22	-8899	SPTBN2	-5911	LMBR1	-2961	CSRP2BP /// P	-39	WN7B	3901	PTBP3	13566
ZFYVE26	-8898	KLF13	-5910	PGAP1	-2960	NPAT	-38	PLEKH71	3902	PRPF31	13573
RABL5	-8897	C1orf80	-5908	RBPJ	-2959	SPAST	-37	HFE	3904	NHSL1	13589
OSER1	-8896	XRCC	-5907	PEX26	-2958	CENPV	-36	SSX2 /// SSX2	3905	CD44	13596
C1orf233	-8895	DOT /// DDTL	-5906	ANAPC7	-2957	KLUH23 /// PH	-35	CNIH4	3906	HNRNPM	13599
NEK2	-8894	ACAA2	-5905	HNRNPM	-2955	C2CD3	-34	ATE1	3908	DERL3	13612
USP22	-8893	TMEM53	-5904	PTPRS	-2954	CENB1	-33	TNFAIP8L2	3909	PRI14L	13614
MPC2	-8892	KPNA4	-5903	RIMS3	-2953	KIF2A	-32	FAM171A2	3910	UNKL	13625
ALVR18	-8891	KDEL1	-5902	ADSL	-2952	MAD2L1	-31	MKNK2	3911	ATP11A-AS1	13626
ATC3DA	-8890	ERCC1	-5901	FCM1	-2951	PTCL17	-30	FCN2	3912	ZFZ1	13627
TRF2	-8889	ATP2C1	-5900	EED	-2950	SMC2	-29	BCD42811 ///	3913	MME	13632
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CNTNAP5	-8887	ZNF253	-5898	GAR1	-2948	CBX3	-27	ADARB1	3919	SMAD3	13638
OCLR	-8886	UBAC1	-5897	HAUS6	-2947	SIMC1	-26	LECT2	3920	IQCE	13645
TMEM40L	-8885	DR1	-5896	ITGAE	-2946	ZNF542P	-25	ERIC3-AS1	3921	LMF1	13646
NOPEY2	-8884	RAB48	-5895	RAMB8	-2945	ELAVL1	-24	HPF4	3922	TMEM151B	13655
COX11	-8883	CIAPIN1	-5894	LOC10272444	-2944	RFAVR2	-23	TFP4A	3923	LRRFIP1	13662
INO80D	-8882	WDR61	-5893	HELO	-2943	AFG3L2	-22	AX747132 ///	3925	MKL2	13669
PSMD11	-8881	ERCC3	-5892	GEMIN2	-2942	YPEL1	-21	LOC10106042	3926	USP33	13672
SLC22A5	-8880	FOXRED2	-5891	ACSL6	-2941	B3GNT1	-20	POU5F2	3927	HGF	13676
ZNRD1	-8879	KPNB1	-5890	SLC38A1	-2940	C2orf44	-19	CST3	3928	PRF38	13681
RAB2B	-8878	TRAF1	-5889	TCERG1	-2939	SUMO1	-18	COL27A1	3929	TRP2	13683
RP40	-8876	YF1B	-5888	ZNF585A	-2938	COCH	-17	SOD3	3930	SEMA6D	13684
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DCTN2	-8874	MRLP9	-5886	DNAJC21	-2936	ZNF606	-15	MOGAT1	3934	TRIO	13694
BABAM1	-8873	NME4	-5885	FAM222A	-2935	LSMS	-14	TM4SF1	3936	MCL1	13698
ZNF564	-8872	LOC642852	-5884	WAC	-2934	TOPBP1	-13	MMP14	3937	C6orf36	13701
MIR313D	-8871	SUN1	-5883	TNRC18	-2933	TNRC18	-12	HSP90A	3938	RUNX2	13705
CKNAB3	-8870	NUDT16L1	-5882	UR1	-2932	RSF1	-11	ACKR4	3939	LAMB4	13711
AGBL5	-8869	SUMO3	-5881	RP3-428L16.2	-2931	SCG3	-10	IL1B	3941	RHOQ	13721
GA2	-8868	LYSMD1	-5879	WHSC1	-2930	TMOD2	-9	SMG7-AS1	3942	ZBTB20	13722
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RP7	-8864	RNF5	-5875	SRSF12	-2927	DPY19L2P2	-6	NCR1	3947	RNRD2	13739
RP252 /// C15	-8863	LOC286367	-5874	SMO5	-2926	CENPV	-5	KLFP	3948	GUCYA1	13742
ANKRD11	-8862	DXK6	-5873	ZNF239	-2925	MSANTD3-TM	-4	SNX33	3949	C19orf66	13747
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BRWD1	-8859	DFFA	-5870	FAM73A	-2922	NTS1C8-RDH1	-1	C1orf56	3952	TACC1	13765
UFPS3A	-8858	KOYL1A2	-5869	ITGB9B	-2921	MAP38X	2	ME024	3953	RAI1	13772
LOC645903	-8857	GZL1	-5868	BKCN1	-2920	GZL1	3	LOC10042275	3955	UDUSF7	13773
NDFIP2	-8856	RBM14-RBM4	-5867	ZNF805	-2919	ND01	4	FAM198B	3956	POLG	13775
CSRN3P	-8855	SAB8	-5866	SMIM8	-2918	OAF	5	SLC6A7	3957	TMEM106A	13776
LSAMP	-8854	RAC1	-5865	GPR180	-2917	TRADD	9	CLDN1	3958	SDCBP2-AS1	13781
CSGALNACT1	-8853	DNAJA2	-5864	SIVA1	-2916	MCTP1	12	NLGN2	3959	DCAF5	13788
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CELF5	-8850	COP58	-5861	NOM1	-2913	F7	18	YSSK6	3962	FAM71B	13803
MCMBP	-8849	ARID4A	-5860	FAM27E2 ///	-2912	TP63	19	ERIC1-AS1	3963	RQCD1	13805
RNF170	-8848	ZWILCH	-5859	ZNF431	-2911	EMP1	20	KDM7A	3964	B4GALT1	13806
C2orf76	-8847	39873	-5858	APBA2	-2909	DNAH12	23	CT55	3967	L3MBTL2	13827
SERTAD4	-8846	RNF165	-5857	TAF2	-2908	CCL20	25	HFE	3968	NFKB2	13831
AKIRIN1	-8845	POU5F1	-5856	CENPD1P1	-2907	MVZAP	27	CYPA411 /// C	3969	PCGEM1	13833
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FLC1	-8843	C10orf82	-5854	YBK1	-2905	ADAMTS9-AS1	33	PPP4R1L	3971	FOXP2	13837
INSIG2	-8841	TM6SF1	-5853	IRGQ	-2904	PEL1	36	PLEKHN1	3972	TMEM170A	13844
ACAD9	-8840	KIAA1430	-5852	HN1L	-2903	FLJ6848	37	KCNJ15	3974	MSX2	13849
IL17D	-8839	MLLTA-AS1	-5851	KPNB1	-2902	LINC00312	38	VNDR10P	3975	TNFRD2	13851
LRRCL1	-8838	ATP11	-5850	RNF41	-2901	RNF41	39	ANKRD30BL ///	3976	ARHGAP24	13856
NUDT5	-8837	ZNF536	-5849	TOPORS	-2900	TYMP	3977	TYMP	3977	DLCL1	13860
POLB	-8836	RP11-839N5	-5848	PPP2R1A	-2899	MIRS193 /// L	42	LOC10192781	3978	CD59	13871
FAM134B	-8835	CTC-428G20.3	-5847	ARHGFB3	-2898	ZNF365	43	UBQLN3	3980	ARHGFE12	13878
LOC10192871	-8834	ARHGDI6	-5846	DNAJC24	-2897	TLRS	44	CDB6	3982	C5orf51	13879
PALM2	-8832	BEZG	-5845	GOPC	-2896	PRGCSA	48	KLK7	3983	DGCR14 /// T5	13882
HDBP8	-8831	GNL2	-5844	COX7A2	-2895	RP11-138A9.1	49	IFNGR1	3984	CDB4	13884
ESD	-8830	SKP1	-5843	MSL1	-2894	WDR59	50	TMPS56	3986	MCL1	13886
RPL38	-8829	FASTKD2	-5842	EFS	-2893	MYOF	53	PRSS3P3	3987	FABP4	13888
SLC39A7	-8828	ZNF626	-5840	ZNF77	-2892	LOC10192861	54	ENTH2D	3988	SLC24A1	13895
SYNRG	-8827	UBE2R2	-5839	YROC	-2891	MVLY	57	RASA3	3989	RBMS3	13899
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ASPM -8790	CDCX7 -5804	SLC3D9 -2856	CA1 104	ZNF552 4032	TJP2 14027
ZNF626 -8789	USP27X -5803	VLPM1 -2855	SERPIN86 106	C18orf12 4033	CHP1 14029
FTBD10 -8788	MRRP16 -5802	KIF21 -2854	KIF21 107	BEST1 4034	BIGALTS 14030
STEGGALNAC4 -8787	CDC82 -5801	DOPEY1 -2853	LOC10065277 108	TMCO4 4037	RHOBT83 14034
NFATC2IP -8785	SKP1 -5800	RBM14 -2852	ARF1 109	SPAG11A /// 4038	ARL10 14036
RSFH108 /// I -8784	MNAT1 -5799	PDCL -2850	P2RX1 110	GPHA2 4040	CYP3A7 /// CY 14040
APOOL -8783	LOC10050654 -5798	VRK3 -2849	RIPK3 111	AX747444 4041	ZBTB20 14042
FBXO22 -8782	MLH1 -5797	KIF2C -2848	PMCHL2 112	ITPB8 4042	ARSD 14043
ARHGAP18 -8781	JADE1 -5795	NCL1 -2847	LOC1003012 113	IL1F10 4043	PRDM15 14045
ZNF529 -8780	XU -5794	MMP4K4 -2846	NEU1 115	SLC12A9 4044	DPH16 14048
UBALD2 -8779	ZBTB10 -5793	KCMF1 -2845	MP2L2 116	CG3CL1 4048	FRAS1 14050
DYNL2 -8778	PGS1 -5792	KPNA1 -2844	PLCD1 117	SH3YL1 4049	ADH4 14053
ATG12 -8777	ROBO2 -5791	CHST9 -2843	LOC10289002 /// 118	GPRG6A 4050	PCNX 14054
ZSCAN26 -8776	FUT9 -5790	BCL7A -2842	ITPR2 120	LOC10192946 4051	NAA30 14058
CEBPZ05 -8775	NLS1 -5789	NM1T -2841	NM1T 121	TBCL100C 4052	LRRFP1 14059
KHLH24 -8774	SMO2 -5788	ARMC8 -2840	ZFP36 122	FGA 4053	BMP91A 14061
NCS1 -8773	TTIC3 /// TTIC3 -5787	LOC1019270 -2839	FOSB 123	HHLA3 4054	ODF3B 14067
MRRP24 /// U -8772	CACNG4 -5786	RAO1 -2838	HFE 124	AHCYL2 4055	CBX2 14080
LOC10192760 -8771	INOB08 /// IN -5785	KHORB53 -2837	LOC284454 /// 125	FGA 4058	SFTPC 14082
DRP2 -8770	ARID1A -5784	PDHX -2836	MMP27 126	CD70 4059	PPM1K 14097
SUB1 -8769	C1orf52 -5783	KPNB1 -2835	RP11-443871 127	SLC12A4 4060	NFASC 14102
VWDE -8768	EXOC5 -5782	BCORCP -2834	LINC01118 128	FBXO28 4061	LRRP2 14111
ZNF493 -8767	ASF1A -5781	POM121 /// I -2833	HFE 131	FLJ11710 4062	DKFZp451A21 14119
SPATC11 -8765	ZNF555 -5780	VAPB -2832	N4BP1 134	DAPK1 4063	EDL3 14121
R5BN1L -8764	CENPB -5779	RRM2 -2830	DES /// SUPT2 135	IL7R 4065	KLK3 14126
STX5 -8763	YELP3 -5778	FLAD1 -2829	TRADO 136	LOC10192815 4066	GPR82 14133
RNF30 -8762	LARC20 -5777	TADA1 -2828	ANKRD20ASP 137	TRPV5 4067	SOMA 14136
ERL3 -8761	CP58 -5776	TM9P9-AS1 -2827	NRA43 138	ATP2C 4069	OCAD1 14137
SLC7A1 -8760	SNHG7 /// SN -5775	KIF5C -2826	RP11-30506.3 139	SYNP02 4070	SAMD1 14139
C12orf4 -8758	PARN -5774	ATA1 -2825	LOC647323 140	HMMR-AS1 4071	ZDHC21 14143
GTF2F1 -8757	RADS1L3-RFL -5773	TOP2B -2824	CR1 144	SP110 4072	CD6 14144
LNK2 -8756	VRK3 -5772	GGH -2823	CNN1 145	SNX29 4073	AKAP10 14148
TRAPPC1 -8755	HPDL -5770	ZNF664 -2822	LOC10050754 146	POM121LIP 4074	ELMO2 14150
PTMA -8754	MRRP21 -5769	GTP21 -2821	ACACB 148	NRA1 4076	C12orf66 14156
39326 -8753	SPAT5 -5768	PHACTR4 -2820	C1orf186 /// I 149	KCNAB1 4077	SLGEC1 14157
CUL4B -8752	HSPA2 -5767	SLC27A2 -2819	CXCL2 151	EPHA3 4078	CYP3A4 14160
PCDH1A /// P -8751	KMT2A -5766	CACNA1B -2818	PODN 152	IRS4 4083	CXCR6 14161
TNX -8750	BMDIN3D -5765	RPE -2817	DIAPH3-AS1 153	KCND3 4084	PCCB 14162
DDC -8749	VP53 -5764	GGP51 -2816	PTGS2 154	SP3 4085	USP32 /// USF 14167
SCSD2 -8748	PAF1 -5763	ENKCA -2815	ENKCA 158	LINC00824 4086	LRR9B 14176
PPP1R8 -8747	BCLAF1 -5762	RFK -2814	IHH 159	KIF9 4087	EH3 14177
BAG4 -8746	NRXN3 -5761	GFPT1 -2813	DBET /// DUX 160	LOC10272485 4088	MTSS1 14179
SUN1 -8745	MRLP36 -5760	PIGL -2812	FOSL2 161	MUCL1 4089	ANKUB1 14184
PGD -8744	EPI1 -5759	PRDM10 -2811	XG /// XGY2 163	ERAP1 4091	FAM83A 14185
ERHC1 -8743	TOR1C -5758	FAM118B -2810	NUDT17 164	RP11-403P17 4092	NELL1 14192
CARHSP1 -8742	NCRP1 -5757	RANBP1 -2809	CHRNA 165	IKZF2 4093	MRE11A 14197
ATP13A1 -8741	RBM23 -2808	ZNF689 -2808	ADHFE1 166	LOC10050731 4094	GREB1 14200
ACSL6 -8740	DUS4 -5755	FAM204A -2807	LINC01448 167	SYNJ2 4098	MCM8 14205
ZNF677 -8739	SRPK2 -5754	SNX13 -2806	ASAP3 170	HEXDC 4099	KDM8 14209
C17orf97 -8738	GREB1 -5753	MKRN1 -2805	SPRN 171	LOC10192741 4100	PAPPA 14213
NONO -8737	KIAA0232 -5752	GOLGA1 -2804	AC092192.1 172	TUBGCP6 4102	ZNF407 14232
UBE2J -8736	NDAUF2 -5751	DKC1 /// MIR -2803	FGF7 173	BCA11 4104	WNT7B 14235
CPED1 -8735	TBF -5750	TRAF5 -2802	WFKS59 174	PPP2R3A 4105	EXL4 14243
GALNT13 -8734	GEMIN2 -5749	DKFZP43407 -2801	FCRL4 176	SMIM24 4106	ATPEV0E1 14252
EF3J -8733	SLC35B4 -5748	RAD23B -2800	LOC10050549 177	MIR124-2HG 4107	HIP1 14255
SFR1 -8732	KFBP7 -5747	CASP8AP2 -2799	RP11-180N14 178	HDAC11 4108	CCDC134 14259
BRD2 -8731	RAP1GAP2 -5746	NIPSNAP3A -2798	SEMA4A 179	FIFAB 4109	C16orf13 14262
GRM8 -8730	NCL -5745	HNRNP38 -2796	LOC283855 180	ORL2 4110	LOC10050731 14269
FHL1 -8729	OCAD1 -5744	KCPKAPK5-A 2795	OCAT 4111	CTC1 4112	GTFP910 /// I 14271
RABPK -8728	ZMYM4 -5743	ANF64 -2794	HAS1 182	CACNA1C 4112	ZBTB37 14272
ZNF397 -8727	RP30 -5742	VWDE -2793	MEDAG 183	SLC35F5 4114	RXR8 14282
RP3-406P24.1 -8726	ITGB1BP1 -5741	FBXO45 -2792	ERP27 184	CLDN10 /// U 4115	DOCK5 14291
G3BP1 -8725	TRIM27 -5740	NETO2 -2790	BC041947 /// 185	DCT 4116	IKZF1 14293
PCGF2 -8724	DDAH1 -5739	SMCR8 -2789	BCLE 186	CECR2 4117	HLDBP 14295
STSSA2 -8723	FBXO22 -5738	TRAF8 -2788	PKD1 -2788	KCHIP1 -2788	COL4 14297
DTNBP1 -8721	DK6 -5737	OSP -2787	DKFZP434K02 188	GPR37L /// I 4119	FAM26F 14317
CTC-471J1.2 -8720	ZNF326 -5736	DOLPP1 -2786	LOC10192764 189	CASP4 4120	SOCCAC3 14319
PLEHA7 -8719	RP1-30M3.5 -5735	SKA3 -2785	TAS2R4 190	CARD14 4121	RBM48 14323
RPIA -8718	SMARCD1 -5734	GNA11 -2784	TRIM15 193	C18orf61 4122	WNT5B 14326
KDM6B -8717	ELAVL3 -5733	TSPAN3 -2783	CNN2 194	ORF104P 4123	PKP4 14334
HEATR1 -8715	SCY3 -5732	LOC10192717 -2782	MGC04103 195	THEG5 4125	SLC43P7 14337
MAREP1 -8714	XPT -5731	SCRN3 -2781	TRIM38 196	KLCL 4128	TRIM69 14342
LOC10272431 -8713	NCAM1 -5730	HNRNPR -2780	ELK4 197	ZNF169 4129	RASGRP2 14347
PCMTD2 -8712	SYCE2 -5729	MBD4 -2779	C1orf61 198	GALNT5 4130	DCN 14352
SUGT1 -8711	ADCY1 -5728	RPA1 -2778	LOC10013069 199	TMPSR52 4131	LOC400794 14358
STAU1 -8710	NRB1 -5727	GTS1E -2777	GAREM 200	AICDA 4132	SMYD2 14359
FAM126B -8709	HNRNPF -5726	ZNF217 -2776	CYC5 201	SNR2 4133	GFGR2 14362
NAB1 -8708	TMED4 -5725	KNSTRN -2775	BAGLT1 202	GNB1L 4136	SNK2 14372
AP5M1 -8707	DUXAP10 /// I -5724	MRLP50 -2774	EHBAP11 203	POLD4 4137	DR1 14373
ALKB4 -8706	DLG3 -5723	CAMK2N2 -2773	APOL6 204	IFNW1 4140	ENDOV 14376
PPPAC -8705	UBE2N -5722	RBBP4 -2772	FGF23 205	LM52 4141	AKR1C2 /// LC 14382
CTMT4 -8704	KIAA2026 -5721	TSPC01 -2771	FOLH1 /// FOI 206	LOC283665 4142	TACB4 14384
FRA51 -8703	ZBTB18 -5720	FAM72A /// I -2770	FU13 207	NR12 4144	NYA 14388
CNCK12 -8702	SAYS11 -5719	MIR55 -2769	LOC414161 208	ADAM18 4145	TMEM223 14390
PTGR2 /// ZNI -8701	ANKRD36BP2 -5718	NSG1 -2768	RP11-700H6.1 210	CD300L8 4146	RAB21 14391
LRRN3 -8699	CBX5 -5717	NME1 -2767	RUNX2 212	RASGRF1 4148	TP53AIP1 14397
NATD1 -8698	MARCKS -5716	ZNF8 -2766	BCLE 214	ZBTB7B 4149	WDR89 14398
FADD -8697	SNIP1 -5715	SVIP -2765	UBE2V2P3 /// 216	AKAP13 4151	C19orf47 14402
TNSL -8696	ZNF629 -5714	PANK2 -2764	FAM58 217	TG 4153	KSR2 14405
DAD2 -8695	SCY3 -5713	LOC10192743 -2763	GAD65B 219	CD207 4155	COL22A2 14407
ZMYND8 -8694	AKO55981 /// -5712	C5orf15 -2762	AKAP7 220	OVOL1 4156	SOX6 14409
HDDC2 -8693	PCDC5 -5711	ING3 -2761	NAMPT 224	LINC00452 4157	MYYH11 14410
LINC00959 -8692	NIPAL3 -5710	NIF3L1 -2760	PTCR4 225	CTC1 4158	LINC00938 14418
SPTLC1 -8691	ARL6 -5709	RBM38 -2759	DCT 226	LOC10192913 4160	EPM2A 14436
GTF3C2 -8690	PANK3 -5708	CO3 -2758	ACSM5 227	C2orf73 4161	R9orf47 14439
LHDC9 -8689	CEP19 -5707	PAIP2 -5707	MIR5183 /// I 228	PAIP2 4164	CARHSP1 14440
TMEM116 -8688	ENHO -5706	FLAD1 -2756	BOLA2 /// LOX 229	ANKDD1A 4165	LOC10192705 14444
TNFRD2 -8687	USP31 -5705	C11orf73 -2755	LG4 230	PTPN5 4166	LRP10 14453
ZFA51 -8686	SLC16A2 -5704	IVD -2754	SLC17A9 232	CERS3 4167	UBR4 14455
WRAP53 -8685	C21orf119 -5703	CEP350 -2753	LOC10099672 235	FLJ2694 /// 4168	TACSTD2 14459
DUS4L -8684	IFIT4 -5702	MTPAP -2752	PMP22 237	SOR10 4169	CAST 14462
RFB1 -8683	METL14 -5701	MEI1 -2751	PAIP1 -2751	KYNU 4170	MAGI2 14466
DLG1 -8682	ARHGEP9 -5700	ANKF1 -2750	SLC15A1 240	SCorf47 4171	ZBTB20 14472
MTG2 -8681	MRRP36 -5699	HMG81 -2749	BAGE2 /// BA1 241	LINC00563 4172	MROH2B 14474
AES -8680	METAP2 -5698	KIA1731 -2748	NAMPT 243	TBL1XR1 4173	LPP 14478
FRMD3 -8679	THUMPD1 -5697	TATDN3 -2747	VSTM4 244	Xorf36 4176	HAUS7 /// TR 14480
FAM208B -8678	APOO -5696	MORNA -2746	CA12 246	LOC25654 4177	Xorf36 14481
RALA -8677	BJF1 -5695	MAJ2 -2745	BP /// LOC14 249	LOC10192891 4178	TM6C 14482
C12orf29 -8676	PPP38 -5694	BRD1 -2744	LOC284294 251	C1orf53 4179	HERC1 14484
RBM41 -8675	ISY1 -5693	GPATCH11 -2743	PYHIN1 252	TAS2R14 4180	AMMECR1 14487
ZNF275 -8674	C6orf48 -5692	SMARCA4 -2742	SLC4A4 253	TCN1 4183	MAP2K6 14488
ZNF44 -8673	MIEF1 -5691	DCAF5 -2741	GAGE1 254	TEX28 4184	LINC00518 14489
AKAP9 -8672	KIAA0391 /// -5690	HIRA -2740	FAXDC2 255	CIB3 4185	IPW /// LOC10 14496
SEC6 -8671	DPD -5689	CYC5 -2739	DNX5 256	LINC0103392 4186	MAPA 14497
MPHOSPH9 -8670	SAMMS0 -5688	SAAL1 -2738	NDUFV1 257	NDUFV1 187	PRDM5 14498
ERLN1 -8669	LARS -5687	ZFP30 -2737	SPRY1 259	SRGAP2 4188	FAM129B 14515
ACLY -8668	MBD6 -5686	GTPBP1 -2736	AKO26714 /// 260	RP56K5 4189	TTL5 14524
EIF2B2 -8667	TTC28 -5685	PSMA4 -2735	MRRP31 261	PRICKLE1 4190	DSTYK 14527
ARHGAP5 -8666	BRCC3 -5684	CCAR2 -2734	HAB1 262	GOT1L1 4191	BRF1 14534
SLC25A39 -8665	ZNF628 -5682	SVIP -2733	LOC613266 264	IL1BRAP 4193	PATL1 14537
BBS1 -8664	WDR34 -5681	TRAF2 -2732	RNF145 265	GNG2 4194	ITGB3 14538
ANOS -8662	MIR6516 /// I 5-5680	C16orf13 -2731	HNF1B 269	CHRNA6 4195	SAV1 14545
LOC389906 -8661	ROR2 -5679	CHAC2 -2730	OTUD5 270	KLKB1 4196	SLC39A3 14547
MAP9 -8660	SHPRH -5678	INIP -2729	SNORD8 272	GJB1 4197	BMP1 14550
SCAMP1 -8659	BTRC -5677	FIBP -2727	DNAI4 273	GSTK1 4200	CREB3L1 14552
KCNMB2 -8658	TRRAP -5676	HDFGRP3 -2726	LOC10050746 274	LINC00588 4201	LMC01 14553
CDC150 -8657	SKOR2 -5674	ENTR2 -2725	XIST 275	ENTR2 275	COA1 14557
ARPC1A -8656	DACT3 -5673	HMG84 -2724	RP11-65L19.4 277	ZNF483 4203	PIGG 14561
HDFFRP2 -8654	AC144652.1 -5672	YTHDF2 -2723	PMCHL1 278	FIGN 4204	ENPP1 14562
PTPRN2 -8652	MYO1B -5671	ZNF10 -2722	KLRG2 279	GPR115 4205	GRIA3 14568
URGPC -8651	TTC28 -5670	BRD2 -2721	CXCR1 280	DCBLD2 4207	TRPM6 14578
STARD9 -8650	NOL4 -5669	POLA2 -2720	SLC2A9 281	CTA-250D10 4208	RAD51-AS1 14609
ZNF111 -8649	TNFR -5668	TMEM129 -2719	GAI4 282	NCAM1 4209	CE26L2 14611
ZNF52P -8648	NSTC3B -5667	S100BP -2718	IGHG1 283	LAMA5-AS1 4210	DNAF1 14614
STRN3 -8647	TOMM22 -5666	AGPS -2717	SP140L 286	LOC339539 4211	TPP2 14618
TMEM41B -8646	RBMX2 -5664	DCUN1D3 288	ZBTB20 288	ZBTB20 4212	EP51L1 14619
CNPY3 -8645	ABHD8 -5663	RAB11A -2715	ABCC3 289	CLK4 4213	LAMA3 14634
ATG4D -8644	LANCL1 -5662	CNPY2 -2714	LOC10265928 290	PDE4DIP 4214	CLASP1 14640
KDM4A -8643	CLA1 -5661	TMEM129 -2713	TSAC -2713	NCAM1 4215	CNBR2 14645
RP511 /// SNK -8642	ZNF8 -5660	SRSF8 -2712	ZFP36L1 294	MIR612 /// N 4216	AC141928.1 14647
EIF4G1 -8641	ZNF451 -5659	FAM213A -2711	LOC285902 /// 295	SP110 4217	CLEC12A 14649
MIF4GD -8639	MYO19 -5658	PANK2 -2			

HSP90A1	-8636	TADA3	-5655	DDX42	-2707	ALS2CL	300	VNN3	4222	DGKA	14671		
C22orf29	/// I	MTA3	-5654	ENPH1	-2706	COMMD10	303	WLS	4223	ORCS	14676		
SN	-8634	MNPD	-5653	PUS3	-2705	NFKB2	304	RP1-170019	:4224	ORBS1	14678		
CL17orf58	-8633	UBN2	-5652	SH3B	-2704	SH3	307	ORF24	4225	SAM9DL	14683		
ATFH	-8632	GCN2	-5651	ZC3H14	-2703	CD40LG	309	RECK	4226	EMLA	14695		
GEMIN7	-8631	SEPS5CS	-5650	CCDC88A	-2702	YBX3	311	RP11-124L9.5	:4228	PRRX1	14703		
GSE1	-8630	PFN2	-5649	GNAQ	-2701	DNAH1	312	SOX9	4229	CLUC5	14706		
FAHD1	-8629	MCM8	-5648	NANP	-2700	DHX8	313	ETV6	4230	CHIC1	14708		
MRPS18C	-8628	WRAP73	-5647	KBTBD2	-2699	DAAM2	314	JDPE	4231	EXOSC2	14724		
HELL1	-8627	ZNF47	-5646	NFRA1	-2698	NFRA1-IT1	316	RAE1	4232	LA52	14731		
SH	-8625	CEP290	-5645	MFHAS1	-2697	IKKBE	317	GRB10	4235	RBM15	14736		
ACOT7	-8624	DWNC2U1	-5644	CBX5	-2696	TYR	320	LMF1	4236	DENND1B	14737		
TMEM106B	-8623	CTPS2	-5643	CADM4	-2695	POM121L9P	321	OGFR	4238	CEACAM3	14748		
CLASP2	-8622	OIP5-AS1	-5642	FGF12	-2694	ANKUB1	322	SH3D19	4239	PDE1C	14750		
COP56	-8621	CHRA1	-5641	TMEM194A	-2693	41153	323	MTBP	4240	FAM84A	14751		
HERC1	-8620	NDVAF1	-5640	CDKN2AIP	-2692	RHOD	326	LOC10013392	4241	ZNF554	14753		
WRPF5	-8619	ORMDL1	-5639	UPF4	-2691	B3GALT1	327	FOSL1	4242	STRN	14756		
MROH7-ITC4	-8618	ZNF253	-5638	F8XB03	-2690	STAR13-AS	330	YES1	4244	NYFC	14757		
TP53	-8617	FTSJ1	-5637	ACAT2	-2689	IL1RN	331	TPP1	4246	ECT2	14771		
IGLON5	-8616	ERF	-5636	LCORL	-2688	FCRL5	332	CPNE8	4247	ZFAND4	14773		
HYOU1	-8615	PP70B0	-5635	DLEU1	-2687	CEACAM1	334	NPTXR	4248	ANHX	14774		
APTX	-8614	C11orf54	-5634	DHXTD1	-2686	SUN5	335	FNBP1	4249	AGFG2	14775		
TOMM20	-8613	GAP93	-5633	ORAI2	-2685	HCCP1	345	CSRP1	4253	TREM2DC2	14776		
DENND1B	-8612	DMAPI1	-5632	MRS2	-2684	LUNC01082	337	Clorf105	4255	ZNF585B	14781		
DNAI4	-8611	FYN	-5631	ENPP4	-2683	LUNC00877	339	EML4	4256	PARVG	14783		
SBP3	-8610	E1F18	-5630	MBD3	-2682	GRIK2	342	SSX3	4257	CCDC14	14786		
KANSL1-AS1	-8609	TUBB8A	/// TL	-5629	SCAMP1	-2681	LOC10106060	341	CD48	4258	SLC8A1	14788	
TRIM23	-8608	ZNHIT2	-5628	HSPA4	-2680	RORA	343	SCD5	4259	TMEM92	14791		
FGD5-AS1	-8606	TRIM27	-5627	TMEM50	-2679	NIPAL2	345	NIPAL2	4261	SLC15A1	14792		
ZYMM5	-8605	APIS	-5626	SMIM7	-2678	GNRHR	346	HSID17B14	4262	C20orf202	14796		
LAMTOR5	-8604	MIR302B	-5624	GLRB	-2677	SH3BP5	347	CAPN5	4263	TENM3	14807		
ATF6	-8603	TUBB4B	-5623	RP4-758J24.5	-2675	LPAR1	348	TRIM22	4264	KCNJ5	14813		
NMRAL1	-8601	MYYN	-5622	ZNF497	-2674	TAGLN	350	LOC10192731	4265	BTRC	14831		
NIN	-8600	E1F1	-5621	DDP2	-2673	EHD4	351	FM06P	4266	SNTB2	14836		
ZNF202	-8599	NRC1	-5620	XPO5	-2672	CASP5	352	GLUL	4267	PWWP2B	14841		
ALDH4A1	-8598	APOL	-5619	LARS	-2671	WAS	353	LPAR5	4268	SLC11A1	14844		
AKO74476	-8597	PUF60	-5618	MARPS18B	-2670	ZNF556	354	MASP2	4269	TNXX	/// TNX1	14845	
MFF	-8596	WRDS	-5617	SEC22A	-2669	RRBP1	355	RP6-91H8.2	4270	ADHA	14847		
CLR1A	-8595	RSBN1	-5615	COG1	-2668	AKO96159	359	RSPH6A	4271	EBP	14856		
ACTR1A	-8594	PDZRN3-AS1	-5614	USP13	-2667	ARL4D	360	ACO10145.4	4272	PRKFB2	14857		
TIMM10	-8593	SLC1	-5613	SNAREC1	-2666	ARHGAP27	363	AK74699	4273	ZF1	14867		
FAM120AOS	-8592	R1OK2	-5612	C11orf59	-2665	KLF2	362	SERPINB1	4274	PROSC	14868		
LSM14A	-8591	ZC3H15	-5611	MTFH02L	-2664	CD1B	366	ANO1	4275	POU2F1	14876		
KDEL1	-8590	SOF2	-5610	SVIP	-2663	UNC13D	367	POM121L12	4277	ZNF425	14882		
METAP1	-8589	SP3	-5609	PHF21B	-2662	KLF8	369	FZD2	4278	DLG1	14884		
NOP16	-8588	MNT	-5608	DCAF17	-2661	LUNC00408	371	SNRPN	4280	UNC19B	14886		
ZNF34	-8587	TEI1	-5607	MIR4745	///	ANKK48	/// AN	372	STAT6	4282	AP2A1	14888	
ZNSCAN5	-8586	GNAL1	-5606	AURKB	-2660	IL34	374	MDM2	4283	WAPAL	14892		
TNF	-8585	ASNA1	-5605	PRPS1	-2658	RP11-496I2.2	375	STON2	4287	MAP4	14897		
PEX5	-8584	SPECCL1	-5604	RAB11FP2	-2657	MDFI	376	RP11-274H2.1	4288	ITPR2	14901		
CDR2	/// LOC:	BOLA3	-5603	TIMM8B	-2656	SLCSA1	377	ZRANB3	4289	LUNC00674	14902		
UBR3	-8582	NRC2	-5602	TFDP2	-2655	KIAA1109	382	ZC3HAV1	4293	CSF1	14910		
SFR1	-8581	ITCH	-5601	CD20	-2654	F0XC2	386	RP11-499E18	4294	CAPN3	14914		
USP16	-8580	S0MC	-5600	ZC3H45	-2653	ALS2CL	387	ITC7A	4295	LUNC01410	14916		
TIMM23B	-8579	ZNF200	-5599	KIF14	-2652	LTF	388	AK747031	4296	MSA46A	14917		
WHSC111	-8578	PDAP1	-5598	PHIP	-2651	GS1-279B7.1	390	HBE1	4297	ZNF551	14918		
YKT6	-8577	NUDC2	-5597	USP1L	-2650	PADI1	391	OCLM	4298	YIF1B	14919		
NBURL	-8576	CAMK4	-5596	PRR12	-2649	FAM83A	392	ZNF443	4299	PM20D2	14920		
DHX34	-8575	SFA1	-5595	FAM24B	-2648	LUNA	393	CASCA	4300	TACS7D2	14921		
ZNF706	-8574	ZNF55	-5594	ATXN7	-2647	ATXN7	394	ATXN7	4301	BAEC2	14922		
ATP6V0C	-8573	SETBP1	-5593	SLC35E1	-2646	TRIM8	395	KCNIP4	4303	MIPOLL	14929		
GNB1	-8572	TBC1D15	-5592	BCIP1	-2645	SHOX	397	GNB3	4304	ATE1	14933		
NAE1	-8571	LUNC01420	-5591	NIFK	-2644	IGLV4-3	/// IG	398	COL6A6	4307	CP	14939	
BC042372	///	CENPJ	-5590	SEORBP1	-2642	ACO07401.2	399	NPY2R	4309	APOL6	14948		
MRPS5	-8569	EFPA1	/// LC:	-5589	GRSF1	-2641	SIDT	401	ATP2A3	4310	ARVCF	14954	
LMO3	-8568	TRK3	-5588	SRFBF7	-2640	LRB1	402	ADH4	4311	ZF1	14955		
DYRK2	-8565	TRIM44	-5587	KLC1	-2639	FLG-AS1	402	LIRC32	4313	FBXL20	14959		
TAM2	-8564	KIFC1	-5586	SVOP	-2638	FAM20A	403	PDCD1	4314	FBXW11	14962		
LRR1	-8563	ZNF264	-5585	RAB11FP2	-2637	A2M	404	ARSK	4315	NOVA1	14963		
SLC30A4	-8562	ELMO2	-5584	MAGEF1	-2636	AP2A1	406	DHX30	4316	ATRX	14967		
HPCA	-8561	MIAT	-5583	RPF2	-2635	NFKB2	408	LSM14B	4317	TCF11L2	14971		
OCS2	-8560	NR2C1	-5582	KIAAN008	-2634	NR2C1	409	ADAM10	4319	CHAB1	14976		
SCRN1	-8559	NOL8	-5581	BAG5	-2633	TAGAP	411	LOC10192844	4320	Clorf161	14977		
PACS2	-8558	LOC101932757	-5580	FMR1	-2632	POE4D	413	IFNE	4321	RAP2A	14978		
DOK6	-8557	RP56KB1	-5579	E1F5B	-2631	RHBDB1	414	LLGL1	4322	GAB1	14982		
FOXK2	-8556	BCRC3	-5578	TRIM32	-2630	RP11-164P12.4	415	PHOSPHO1	4323	ARL17A	/// AR	14992	
RIML8	-8555	DCLE1EA	-5577	MRPL4	-2629	CDX1	416	LOC728099	4325	SRSF3	15002		
VPS13B	-8554	YF1	-5575	CC1	-2628	ANKP972	///	417	417	TCAM1	15006		
RBM11	-8553	ATP11C	-5574	POU3F2	-2627	GRAP	418	LOC101927871	4328	ENG	15013		
TMEM167A	-8552	ITC37	-5573	SLB	-2626	BOLL	419	DPEP2	4330	LARP6	15020		
CNCF	-8551	PIA51	-5571	SLC41A3	-2625	TMEM39A	420	TYRO3P	4331	CDH19	15022		
COMMD5	///	CA11	-5570	3R777	-2624	PGLYRP4	421	MSX2	4332	SAMD10	15026		
FAM658	-8549	FOCAD	-5569	AC	-2623	TMEM92	423	SEEL	4333	FOLR2	15028		
IFT122	/// LC:	PE51	-5568	TARBP2	-2622	FAM71B	424	FAM13A-AS1	4335	MSA46A	15030		
PPP1R35	-8547	ATP11C	-5567	DPY19L1P	-2621	RHOI	425	TM6F7	4325	ZNF672	15038		
PSTPIP1	-8546	CEP89	-5566	SCAI	-2620	FKSG49	426	TACSTD2	4338	MUC13	15046		
CSD1	-8545	GAPDH	-5565	RNF157	-2619	PLA2G4F	427	MMP11	4339	TGF82	15048		
SETD2	-8544	EFTUD2	-5564	GD1	-2618	GLYATL1	/// I	429	429	LGALS13	4340	STGGALNACA	15049
PKM	-8543	CHRNA3	-5563	POLH	-2617	PAX3	431	TNS3	4342	CA12	15051		
AMBR1A	-8542	NAPA	-5562	TSPAN3	-2616	FLT1	432	ATMIN	4344	JMJD7-PLA2G	15056		
PMAA1	-8541	SLC1	-5561	SLC12A1	-2615	SUGT4	434	RIP	4346	POU5F1	15067		
ARBD2	-8540	DNAI12	-5560	ASPHD1	-2614	UNT2M2	/// I	437	437	FAM71C	4347	DOCK1	15071
SLC24A1	-8539	MGAT2	-5559	KIF4A	-2613	LOC10012938	438	FAM65A	4348	TANC2	15082		
HDAC5	-8538	APOM	-5558	ANKHD1	/// I	MYL12A	441	CCDC144A	4349	GOT1L1	15084		
FREL	-8537	PAR2	-5557	C11orf54	-2611	SERTAD1	442	BN1	4350	SCD5	15094		
NMR0D2	-8536	ERAS2	-5556	RIPPLY2	-2610	RUMK1-IT1	445	CD160	4351	PMF22	15096		
RHOT1	-8535	LOC1008906	-5555	LOC1008906	-2609	NARX	446	PTSD	4353	LOC1008906	15098		
AUH	-8534	LIRC57	-5552	NSG1	-2608	STAT6	447	LOC10050687	4354	TTL3	15098		
FYTD1	-8533	NCOR1	-5551	GPR137C	-2607	ATXN1	448	LOC284669	4355	ARL3	15102		
MRP19	-8532	LOC375196	-5550	ILKAP	-2606	EGF	450	SPON1	4356	LUNC01206	15103		
CREB1	-8531	MAP2	-5549	UBXN2A	-2605	MIR612	/// NI	451	451	RIMS4	4357	PLD1	15104
TMEM62	-8530	GP1BB	/// SEP	-5548	DEPDC1	-2604	SLC44A	452	SLC405B1	4361	PIEZO1	15109	
RRP7	-8529	PCAT1	-5547	POLR2B	-2603	GOLM3	453	ACE2	4363	CR11	15111		
39142	-8527	BARO1	-5546	RBM17	-2602	GADD45B	454	SLC11A1	4364	ENG12	15115		
NAT9	-8526	ECHDC1	-5545	PICALM	-2601	FGF2	456	TSPAN8	4366	NDUFA11	15116		
MRPS21	-8525	CACTIN	-5544	YPEL1	-2600	GOLGA6L1	///	458	458	LOC151657	4368	Clorf153	15118
LRR1Q3	-8524	GPAM	-5543	FAM126B	-2599	SNED1	459	RAB31L	4369	DEAF1	15120		
SMIM14	-8523	SRSF10	-5542	TM9SF1	-2598	TPG3	460	SERPINB2	4370	CLIP1	15124		
IND	-8522	PINA-AS1	-5541	BCLAF1	-2597	TMEM63A	461	CFB	4371	Clorf12	15126		
C2orf88	-8521	KCNH2	-5540	NFB9	-2596	HR	462	FRMD8	4372	EHD3	15128		
ATRX	-8520	PTPN9	-5539	PUM2	-2595	POUSF1	/// PI	463	463	STAB2	4373	GNAS	15140
STRN	-8519	MIR6125	/// L	-5538	CCT2	-2593	DRD2	464	PTFR	4374	VPS		

IFT140	-8483	CCDC126	-5503	TMEM128	-2557	FGD2	520	MKRN7P	4419	CCDC82	15349
ACVRS2A	-8482	ACSL6	-5502	SLC9A7	-2556	RB8P8NL	521	PIK3CG2	4420	MYT1	15368
HCVR2A	-8481	MCPH1	-5501	CRYL21	-2555	ATP6AP1L	523	LILRAS	4422	CREBBP	15381
C21orf58	-8480	C16orf13	-5500	TPSNB32	-2544	TPSNB32	524	LINC01013	4423	KLFB	15384
TCF3	-8479	LOC389765	-5499	LOC730101	-2553	CTD-2076M15	525	DEFB127	4425	PSPC1	15386
ORA2	-8478	WDR74	-5498	INT57	-2552	SRD5A2	526	PGC	4426	RARB	15389
TMED1	-8477	TMCC1	-5497	ISY1	-2551	PROM2	528	RNA5EH2B	4428	TMPPRS15	15400
AG03	-8476	RBM12	-5496	BRSK2	-2550	NR2F2-AS1	529	SPHKAP	4429	CEP128	15401
SRM1	-8475	R8BP6	-5495	TMTCA	-2549	SYNP20	530	SEPT5-GP1BB	4430	AXIN2	15407
AC018755.16	-8474	TP15	-5494	AF5F1	-2548	FAM123B	531	FAM123B	4431	TRAF4	15408
RS1	-8473	CHNRB2	-5493	ABAB8780	-2547	CCDC149	532	HCAR3	4432	ASS5	15410
SRP72	-8472	C7orf55-LUC7	-5492	EBF1	-2546	SULTC2	533	PM2	4433	LPCAT2	15411
PPWD1	-8471	C7orf25	/// P5 -5491	NUDT3	/// RP -2545	ADAMT510	534	AX747261	4434	AF3	15416
ZC3H7A	-8470	SIK2	-5490	PPP2R2D	-2544	FGF14-IT1	535	C20orf166	4435	ADAM18	15420
ELF4	-8469	DOX11	-5489	HINT2	-2543	GK-AS1	/// Gk 536	SAMD8	4436	FNDC3B	/// LC 15426
GZF3	-8468	OLFML1	-5488	FAF2	-2542	MIR612	/// NI 537	IL17A	4438	FCRL5	15431
TC30B	-8467	TAFL1B	-5487	MTSL2	-2541	ADAMT56	539	CTNXC2	/// SLC 4439	TBC1D7	15436
RUFY2	-8466	RHBDD2	-5486	GCFC2	-2540	NCOA2	541	PNM5A	4440	TMEM39A	15440
DNM1	-8464	PPP4R2	-5485	ATP6V0E2	-2539	PBOV1	542	LYPD4	4442	MYOF	15445
ED1	-8463	TNRC6A	-5484	AIMP1	-2538	SLC2A14	/// S 543	KIR2DL2	4443	IGHG1	15446
DGL	-8462	ANKHD1	/// A -5483	STAG3L4	-2537	ACKR2	544	NATD1	4444	NUP50	15453
ISLR1	-8461	MAPK19P1L	-5482	PIAS2	-2536	RP11-285F7.2	545	ETV7	4448	LMNA	15454
TMEM106B	-8460	FTY1	-5481	PHIP	-2535	MI02	546	CUBN	4449	INTS6	15456
ARHGFE26	-8459	VDAC3	-5480	HNRNP3A	/// -2534	FZD10-AS1	549	EGFLAM-AS2	4450	PPP2R5C	15466
TCF3	-8458	ELP5	-5479	HEPACAM2	-2533	RAB3GAP2	551	PGM5	4451	PTPRB	15467
RP4-81311.4	-8457	TRIP12	-5478	PHIP	-2532	ZNF736	552	C1orf186	/// 4452	SLC7A2	15471
RHEB	-8456	CASP2	-5477	SHROOM2	-2531	NAAA	553	IPO8	4454	NCAM1	15473
ZNF786	-8455	SMARCC1	-5476	RNF44	-2530	ADAM15	555	D5C3	4455	ITPR2	15482
FAM222B	-8454	BNIP2	-5475	PPP3R1	-2529	FRP2	558	WDRY4	4457	RNF168	15484
ALG10	/// ALG -8453	RAB33B	-5474	PLAGL2	-2528	ITSN1	560	HHLA3	4458	KIF13A	15492
HUWE1	-8452	NDE1	-5473	KNTC1	-2527	SPG20	561	FLJ41170	4459	BPXIP1	15501
HOKA10-HOX	-8451	PRPF40A	-5472	C14orf93	-2526	EGR3	564	RRH	4460	STK35	15504
E1F5B	-8450	RP11-95D17.1	-5471	STAU2	-2525	RBM47	565	PAPOLG	4461	NRP2	15505
SLC16A9	-8449	GRR4	-5470	MDM2	-2524	LOC10272388	566	PRB1	4462	STRN	15511
IMPAD1	-8448	FCF1	-5469	SNRNP25	-2523	STG3	567	LOC1005064	4463	BN1	15521
RLINE	-8447	VPS13A	-5468	XPO1	-2522	CA14	568	CYP2C9	4465	FARS2	15523
FAM111B	-8446	AUP1	-5467	TMX4	-2521	SPRED3	569	SAMHD1	4466	TIAM1	15536
NCKAP1	-8445	SLC35E1	-5465	PHF19	-2520	RNLS	570	BC070118	4467	TMEM116	15542
ZSCAN5A	-8444	PRPS2	-5464	ZNF607	-2519	FOX1	572	C19orf66	4470	ZNRD1	15544
TMEM126B	-8443	C8orf2	-5463	SPAL7	-2518	PKFB2	574	LMAN1	4471	CYP19A1	15546
SUPF7L	-8442	YBK1	-5462	YBK1	-2517	KNAB	576	KNAB	4472	SLC11A1	15553
NFATC2IP	-8441	KHDC2	-5461	HTATSF1	-2516	LOC10050571	577	ULR3B	4475	IFB8	15562
INVS1ABP	-8440	MCUR1	-5460	RP11-30566.4	-2515	ERVFH21-1	578	PYGB	4476	AKO55458	15576
TSEN15	-8439	PIF1	-5459	MASTL	-2514	ENAH	583	LOC283788	4477	TGM4	15578
PDIA6	-8437	TAB2	-5458	CCAR1	-2513	RBMS3	584	AOC4P	4478	ILSRA	15580
ZNF436	-8436	GCAT	-5457	CAPRN1	-2512	LOC10192844	585	PRYR12	4479	NAPEPLD	15582
MARK8	-8435	AGTPBP1	-5456	YBFB1	-2511	LOC101187	586	CARD11	4480	POU2F2	15588
SCARB2	-8434	PHF1	-5455	BOB1	-2510	RP11-812E11	587	ABRA	4481	HNRNPCC	15594
NFYC	-8433	NAP1L4	-5454	ZCCHC17	-2509	ACAP1	588	CD274	4482	GGT1	/// GGT 15604
ITPR1L	-8432	TRIP4	-5453	SLC25A40	-2508	TBC1D27	590	RPH3AL	4483	CNOT4	15611
ATFS	-8431	RBM45	-5452	CKMT2-AS1	-2507	RP1-118J21.2	591	LOC10065295	4486	PGR	15612
NRG1	-8430	ADNP	-5451	KIF2C	-2506	FKSG49	592	MUSTN1	/// I 4488	LMNA	15617
RTN1	-8429	FAM103A1	-5450	SMURF2	-2505	AK093362	/// 595	BAZ2A	4489	ATOH8	15623
RAB39	-8428	TMEM1170A	-5449	BOB1	-2504	BC03266	/// 597	COX6CP2	/// 4491	C12orf45	15624
ZFAND2B	-8427	CNIH4	-5448	XKRC5	-2503	ABO	599	ITGA11	4493	PMP22	15639
HNRNPH1	-8426	KATNB1L	-5447	WDR7	-2502	BTAGE5	/// M 600	MUC3B	4494	SH3BP2	15647
SNX13	-8425	CACNB3	-5446	SUGT1	-2501	SELP	601	PCED1B-AS1	4495	SLC39A8	15664
WDFY3-AS2	-8424	PNO1	-5445	HEATR2	-2500	PRRX2	602	P2RY6	4497	TFE2	15665
Y11	-8423	LINC00461	/// -5444	PSMB7	-2499	UM53-LOC441	603	CSPG4P5	4498	SLC29A2	15669
SELF4	-8422	ACTD20	-5443	KCTD15B	-2498	LINC00911	604	TFE14	4499	IGT82	15672
LRP8	-8421	ACIN1	-5442	NTPCR	-2497	LOC284395	606	BC044611	/// 4500	FLYWCH1	15673
ATAT1	-8420	ELOVL6	-5441	WDR13	-2496	OTUB2	608	SVT2	4501	SMAD2	15675
LRRCC1	-8419	EFNB3	-5440	HAUS2	-2495	PRSS23	610	IAPP	4502	FASN	15679
RDH13	-8418	DOPEY1	-5439	ALFK1	-2494	IFB4	612	IFNA17	4503	FAM208B	15686
POPS	-8417	CYBBE1D2	-5438	ZFPHZ3	-2493	CLIQ1NF9	/// 613	IFNB5	4504	MTMR11	15688
STXBPA	-8416	YBX3	-5437	ZEB2	-2492	YBX3	614	HEXA	4505	FAM16A2	15690
CBX2	-8414	SLC43A3	-5436	CKNMB2	-2491	ALDOA2	615	TNNT3	4506	AXL	15695
ANKRD40	-8413	CDPF1	-5435	CYP51A1	/// I -2490	CA12	616	TGIF1	4508	SLC35A2	15696
PRKAG2-AS1	-8412	TGFS2	-5434	SNAP25	-2489	HLA-DPB1	617	LOC10013064	4510	LMCD1	15709
NUZF2	/// NU -8411	MIR943	/// NI -5433	GTF2A2	-2488	OR7E111P	/// 618	GRPR	4511	NAMPT	15716
MEF2B	-8410	LOC10192793	-5432	C8orf33	-2487	EDN1	619	LOC1005058	4512	LOC10192889	15717
ZDNH2	-8409	ACT3	-5431	MIR33	-2486	DIPK3	/// DP1 620	LINC00354	4513	NSMCE4A	15721
BSG	-8408	TBC1	-5430	APCS	-2485	BMP4	621	BMP4	4515	TMEM165	15722
ALG13	-8407	CCDC15	-5429	KBTBD4	-2484	SLC8A1	622	CIDEA	4516	LOC10192959	15726
TMEM200C	-8406	LMAN2L	-5428	FAM210A	-2483	FCRLB	623	KRT10	4517	PKA	15730
HNRNP18	-8405	SLC10A4	-5427	WDRH1	-2482	LOC10192968	627	ARPP21	4518	CNDP2	15732
TMEM259	-8404	SEN2P	-5426	DFFA	-2481	PTBP1	628	FAM214B	4519	TRIP12	15751
USF9B	-8403	MEAF6	-5425	WDR6	-2480	ZNF624	-2479	FBXL8	4521	C12orf8	15753
CHD6	-8402	ACT5	-5424	TERF1	-2479	CAA	/// CAB / 632	RP11-495P10	4522	CHD7	15757
SZRD1	-8401	AXSL2	-5423	LOC10099651	-2478	FAM129B	633	HHP1-AS1	4523	MSA46A	15763
RCHY1	-8400	C1D	-5422	RAD17	-2477	SH3GL3	635	RTTN	4524	TCTN2	15766
TCF3	-8399	USP42	-5421	ZNF574	-2476	ABCG4	639	SMOCC2	4525	NRG1	15767
DIS3	-8398	DNAI2C	-5420	GUF1	-2475	PRDM1	641	CREB3L1	4527	POE4D	15777
PHL3	-8397	TMEM200B	-5419	RBM12B	-2474	SAPF0L	642	EPAD0NL	4528	GC4A1A	15778
PP36	-8396	CCSA	-5418	CCSA	-2473	CHD9	643	PLAC3	4529	NET	15781
ZNF536	-8395	ZBT82	-5417	TMEM185B	-2472	ZNF577	644	TTL7-IT1	4532	CSRN2P	15781
PBX3	-8394	CNOT7	-5416	TSR1	-2471	LRMP	645	SDPR	4533	PDGFRA	15782
TMEM168	-8393	EWSR1	-5415	ZNF146	-2469	KIR2DS1	646	RP11-297L17	4534	CD109	15785
EBAG9	-8392	LAMTOR5-AS1	-5414	SNRPD3	-2468	FZD4	648	ZNF578	4535	HLA-DOA	15794
NUFIP1	-8391	TRPC1	-5413	RAN	-2467	CCDC14B	649	LINC00663	4538	LRP1	15795
NAP2K4	-8390	AGO2	-5412	BOB1	-2466	BOB1	650	NAA0125	4539	ARSD	15796
TCEA2	-8389	ACL1928.1	-5411	ZNF784	-2465	BGLT3	653	SEPNIN4L3	4541	SIM1	15798
ZNF791	-8388	GDPD1	-5410	CDKN2C	-2464	NACC1	654	NPEPL1	4542	MVK	15803
FRYL	-8387	PAN3-AS1	-5409	TRKH	-2463	MPC1	655	ADD3-AS1	4543	HFE	15810
BBS9	-8386	C11orf83	-5408	DSCAML1	-2462	PLG1B2	656	BNC2	4545	TMEM259	15821
C7orf26	-8385	ZSCAN1B	-5407	BA21B	-2461	LOC10272409	659	IFITM3	4547	FLJ40288	15824
SSCA1	-8384	PPP1R1	-5406	NDFY4	-2465	NDYF1	660	LOC10050736	4548	HFE	15824
TAOK1	-8383	FAM184B	-5405	DNAAF3	-2459	BD34319	/// 661	LOC10050705	4549	HUWE1	15833
BCKDHB	-8382	TM6DNC9	-5404	CFBAZ2	-2458	LOC10272484	662	C4BP4	4550	ME1	15845
MDH1	-8381	VCPKMT	-5403	WDR17	-2457	FKSG49	669	ZNF746	4551	RP11-456O19	15853
AREL1	-8380	MIR1292	/// I -5402	PTPRG	-2456	GSDMD	670	SLC39A12	4553	MMP8	15854
CHMP3	/// RP -8379	SON	-5401	ZNF230	-2455	JUNB	672	CYP4F11	4554	GLS	15855
PTPRG	-8378	MTR	-5400	HNRNPDL	-2454	PROM2	673	NAA0A	4555	NAA0A	15858
TSR1	-8377	CASP2	-5399	CDK1	-2453	FKSG49	674	SLC12A1	4557	PHF20	15860
PCDH9	-8376	HSP90AA1	-5398	AADAT	-2452	XYL72	675	PTGER3	4558	TLOC1	15863
HRH3	-8375	DDX52	-5397	SMARCCAD1	-2451	BC038731	/// 676	ATP6V0D2	4559	PHYKPL	15871
SEC63	-8374	DTWD1	-5396	KLHL2	-2450	LOC10050687	677	ARNT	4561	ADCY2	15883
PCMA2	-8373	PIEZO2	-5395	TMEM246	-2449	AQP5	679	RNF32	4562	CHDH	15885
POK	-8372	ACD	-5394	GLEE	-2448	TRIM34	/// TR 680	VSIG1	4563	EPSS	15887
RAB14	-8371	METTL10	-5392	DIRAS1							

DNAJCS	-8335	CD21	-5355	PPIG	-2411	CLDN17	732	TNKS	4625	COL27A1	16044
GPATCH8	-8334	PTPNS	-5354	CMC2	-2410	VIPR2	733	GRHL2	4626	MKNK1	16046
DNAJC4	-8333	ALOR1B	-5353	TCERG1	-2409	ASPA	734	ZNF429	4629	MUC4	16049
MAVS	-8332	GRBP	-5352	CLF50	/// U	GI2R	736	MORNL	4630	ZNF529	16055
RSMN1L	-8331	FSTL5	-5351	H2BFX	-2407	LOC10192866	739	DIAPH2	4631	ARRB1	16059
NAIP	-8330	SRGAP1	-5350	TMEM18	-2406	PLA2G4A	740	C2CD2	4633	BCAP29	16066
HSPA4L	-8329	RSPH3	-5349	ZNF304	-2405	IKBK6	742	PSEN1	4634	TAGAP	16069
GKAP1	-8328	ARFGF1	-5348	TTL	-2404	ADAP1	743	KIF13A	4636	FGF14	16073
AK2	-8327	SNAPC3	-5347	OARD1	-2403	F2RL3	744	MIR7515	///	CCDC186	16076
FAM120A	-8326	NAK	-5346	NLGN2	-2402	LOC10192776	745	EFNB	4640	KDM3A	16078
UH1	-8325	GZ2	-5345	FLVCR1	-2401	BRD4	746	EHD4	4641	CRABP1	16079
NDUF88	-8324	TUBD1	-5344	LEO1	-2400	PPM1L	747	UPK1B	4645	CDK9	16095
PNK1-AS	-8323	MTHF01	-5343	MTHF01	-2399	ALPK1	748	CCDC184	4646	PAPLN	16099
WNT10A	-8322	E1F1	-5342	NCBP2-AS2	-2398	STAB1	749	CXCR6	4647	SNCA	16110
RARA	-8321	JMJD4	-5341	PARBP8	-2397	RBM33	750	SAT1	4652	POSSB	16117
PTGR1	-8320	SURF2	-5340	FAM161A	-2395	AKR1C2	/// LC 751	IFNAR2	4653	EDRF1	16121
PHF21A	-8319	NUP50	-5339	SET	-2394	LOC10192933	752	LOC644090	///	BC053266	///
FRAT1	-8318	C6orf62	-5337	AIMP1	-2393	SLOC1C1	755	LOC10024077	4657	PSEN1	16127
CNOT8	-8317	PLCXD2	-5336	NDUFS1	-2392	SAMD12	756	LOC642236	4661	PHYKPL	16128
BCAS3	-8315	SEC61A2	-5335	THOC2	-2391	RPS6KA4	757	IGF2BP2	4663	KIF5A	16133
SEC63	-8314	GCSH	/// LOC: -5334	CEP70	-2390	APOB	758	LOC10192905	4664	CD8A	16135
PARG6A	-8313	TMEM74	-5333	RNF14	-2389	CNS151	761	TSSK3	4665	MYO1C	16147
ARID4B	/// RB	WDR51	-5332	UBR7	-2388	SAMSO4	762	HPG2	4666	PXB	16156
SRF7	-8310	ACBD5	-5330	LONRF2	-2387	FER1L4	764	LOC10050644	4667	INPP4B	16162
NSMCE4A	-8309	NAALAD1L	-5329	RBM33	-2386	XPNPPEP1	766	RNF187	4668	KMT2A	16164
TSYPL1	-8308	GSGN2	-5328	CENB1P1	-2385	FAM179A	770	SEBOX	/// VT1	FCRL2	16167
BNIP3	-8307	USP45	-5327	POLR3A	-2384	GP82	772	RNF212B	4675	BMP1	16168
NDUFS5	/// R1	SMURF2	-5326	DOCK7	-2383	KLK6	775	ALOX15B	4674	SLC39A8	16179
EF3B	-8305	ATF5	-5325	SFB4	-2382	RAPGEF3	776	SLK4	4675	SLK4	16205
FEM1A	-8304	H3F3A	/// H31 -5324	SMIM8	-2381	MIR281B	778	RNF187	4677	NABP1L	16206
ATP5B	-8303	PLEKHG4	-5323	C7orf55	-2380	CDH6	779	NTSDC4	4678	R3HC1L	16207
IKZF4	-8302	PIGH	-5322	FLJ37453	-2379	TTC7A	780	CYLD	4679	DYRK1A	16215
PDZD8	-8301	APPB2	-5321	C2CD5	-2378	TCF7L2	781	GRHL1	4683	KLK2	16222
AGD03	-8300	FAM104A	-5319	PAGR3	-2377	FAM201B	/// 783	FMO1	4684	TPMT	16227
ALG6	-8299	WDR61	-5318	BCAS2	-2376	RP11-110C10.785		AGT1	4685	TCF3	16236
TPST	-8298	TRMT61B	-5317	MESANTD3	-2375	KRTAP4-1	787	SPIN2A	4686	ZCCHC14	16239
DIEKF	-8297	FANCA	-5315	DYCN1L	-2374	MIR29A	/// M 788	LMNA	4687	CYP4A11	/// C 16242
USP42	-8296	IPW	/// LOC1C -5314	LRBA	-2373	LOC10050740	790	LOC10192824	4688	NR1I2	16245
RAB27A	-8295	SRP9	-5313	NDUFS4	-2372	CD300LG	792	HPYR1	4689	BCL2L1	16250
GALNT11	-8294	RBN1	-5312	RPL26L1	-2371	HMGCS2	793	CA1	4690	NCKAP1	16256
RRC4	-8293	SF3A1	-5311	SPK2	-2370	795		FAM68P9	4691	CRF9	16259
RP3-522P13.2	-8291	ASXL2	-5310	FAM112B	-2369	CAMK2B	796	LOC440982	///	MASP1	16262
HNRNPDL	-8290	RCTB1	-5309	RBM25	-2368	EHD3	797	PABPC1	4693	ATP10B	16266
SLC39A6	-8289	ABHD13	-5308	PDC13	/// PK -2367	OR12D2	799	ATP1B4	4694	LOC10050663	16269
SAP18	-8288	MIR3656	/// T -5307	ZFP69	-2366	SLOC1C1	802	PPP1R1	4695	UBE2O	16274
HOKA7	-8287	MYSM1	-5306	FAM19A5	-2365	LOC10012919	807	CD109	4696	ANKDD1A	16277
MRF510	-8286	MCL1	-5305	LMNT2	-2364	MET	807	SLC12A3	4698	LOC624852	16281
TEM43	-8285	MAPT	-5304	ZNF141	-2363	STAR	809	LINC00910	4700	CS3	16284
MED8	-8283	LINC00957	-5303	SEMA6A	-2362	LOC10192834	810	NFAM1	4701	COMT	16284
CREBBP	-8282	ZNF891	-5302	REEP1	-2361	SLC2A3	811	SIRPD	4702	C2orf72	16287
MRPL57	-8281	GSR	-5301	TGS1	-2360	H19	/// MIR6: 812	FGD2	4703	PRDM5	16295
SMAD2	-8280	LN78	-5300	NAASO	-2359	NFKBIA	814	FBXO4	/// U 4706	IRGQ	16302
PRPF40A	-8279	SRP14	-5299	SNORA29	/// -2358	ENPP1	814	SIGLEC5	4707	C1orf68	16304
PIA40556	-8278	TMEM4	-5298	MIR47	-2357	MIR47	815	CHRB2	4708	NF58	16306
PARL	-8277	RNMD5B	-5297	SLRP	-2356	RP11-32413.1	817	GSTM5	4709	FUT3	16308
CUEDC1	-8276	LPHN3	-5296	MRPL28	-2355	LOC10012865	819	AMACR	4710	RBPMS	16314
UFL1	-8275	C1QB	-5295	TXNL4A	-2354	PSG5	820	MAPK12	4711	CD84	16320
PUSL1	-8274	SERF1	/// SE -5294	ARLGP1	-2353	ARFGAP2	821	OSBP10	4712	PARP14	16328
SRP54	-8273	CENPD1P1	/// -5293	SKP2	-2352	FLVCR2	823	KLK2	4713	SNR2	16329
FAF4H1B1	-8272	TMEM16	-5292	NPR4	-2351	DNOC1	824	LOC10192691	4714	CD84	16345
C17orf70	-8271	ZNF252P	-5291	AGPAT5	-2350	LOC1000668	825	TAPT1	4718	MLX	16348
FARP2	-8270	CEP78	-5290	RNF3A	-2349	GRIK1-AS2	827	SPTBN1	4719	SOS2	16358
SNX13	-8269	TRNT1	-5289	CACNA1D	-2348	LOC340340	828	TPBG	4720	CARD14	16365
ATRN	-8268	METAP2	-5288	PPP2R5E	-2347	LOC10192911	829	RNF186	4721	SNAMD1	16366
KAT6B	-8267	FAM174A	-5287	STARO7	-2346	BHD2	831	PRDM9	4723	C18orf61	16370
KTSC	-8266	ELOC1	-5286	CAH5E	-2345	FLJ11292	832	FILIP1	4724	NTRK2	16371
LOC10013493	-8264	DCH51	-5284	SRSF3	-2344	IFNA14	833	STYXL1	4725	CHN2	16373
SRSF6	-8263	LOC10012936	-5283	NRXN1	-2343	ARHGFE12	834	ZNF425	4726	SLC29A2	16380
TIMM8A	-8262	PIH1D1	-5282	SYNCRIP	-2342	CTAGE4	/// C1 836	SLC19A3	4727	VAPA	16387
ATL2	-8261	MAPK8	-5281	BLOC156	-2341	LINC01339	838	RHOQ	4729	DPP9	16414
SLC30A5	-8260	PAP1	-5280	CENPF	-2340	LINC00599	/// 839	SLC40A1	4730	SASH1	16418
LOC10012936	-8259	LOC10012936	-5279	HMG1A	/// U -2339	LOC10050804	843	LOC1019285C	4731	ZNF5F11B	16421
ATP5L	-8257	ZSCAN16-AS1	-5278	RALGAP1A	-2338	ZNF287	842	NF287	4732	ARNT	16427
PRR14	-8256	PPM1E	-5277	ZNF202	-2337	DSCAM-AS1	846	CSGALNACT2	4734	AKAP13	16442
PNKP	-8255	CACNB3	-5276	FAM105A	-2336	SOX10	847	FOSL2	4735	XAF1	16449
ATR	-8254	AGBL3	-5275	CLGN	-2334	CDH17	849	BNP2	4736	L3MBTL1	16451
AP52	/// C15 -8253	ENOSF1	-5274	NUP214	-2333	SLC11A1	850	EPOR	4737	SPLM3	16453
RP2	-8252	UBAL2L	-5273	UBAL2	-2332	LOC10192770	872	ARSD	4750	PLKCD2	16514
MIR7114	/// I -8251	DDP3	-5272	ZND4	-2331	NR5F1	879	COL18A1	4751	RNF1	16515
CUL5	-8250	BBIP1	-5271	CDH2	-2330	RP11-456019	853	HTRSA	4740	ACACB	16467
ULK2	-8249	SNRNP	/// SNI -5270	SART3	-2329	MBL2	856	ARVCF	4741	DDX59	16470
ASXL3	-8248	CRYL1	-5269	NSMCE4A	-2328	APOLA4	857	STAB2	4742	PPAP2B	16476
APP4	-8247	PEX14	-5268	FARS8	-2327	LOC10192705	859	LM13	4743	IGF1R	16483
PPP2R4	-8246	CKOCPC2	-5267	PRMT1	-2326	PRDM5	860	CEBPB	4744	IGF2OL2	16484
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GSTM3	-8243	SNN	-5264	DCAF16	-2323	AX746823	865	CPB2	4747	KIAA0226	16503
AKAP17A	-8242	VARS	-5263	UBE2V2	-2322	LINC00478	868	SOX9	4748	TMCO3	16506
TTC13	-8241	ANK1	-5262	ASH1L	-2321	TINAGL1	870	FOXP3	4749	PSMB2	16512
ZNF74	-8240	NARF2	-5260	CERS3	-2320	LOC10192770	872	ARSD	4750	PLKCD2	16514
CH24	-8239	MIR57	-5259	MIR57	-2319	NR5F1	879	COL18A1	4751	RNF1	16515
PRPF40A	-8238	RACS2	-5258	SMC3	-2318	AC007967.3	876	ORLX1	/// OR 4752	CKLK	16517
SYT9	-8237	MAGOH	/// M -5257	RBN1L1	-2317	FAXDC2	878	PLACA	4753	MCFL2	16528
GTFC3	-8236	SYN12BP	/// S' -5256	SLC27A2	-2316	TRIM15	879	S100A5	4754	MYB	16530
ZNF343	-8235	ZBED1	-5254	ZNF777	-2315	RP11-805124	875	CCDC170	4755	LOC10099650	16532
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TTC18	-8233	NCOA1	-5252	APPBP2	-2313	APPBP2	882	ITGA12	4757	ITGA12	16541
MINPP1	-8232	ZNF518B	-5251	SV2A	-2312	VIT	883	JMID1C	4758	ANO1	16576
MED1	-8231	BRD7	-5250	TMF1	-2311	GRIA3	884	MMP13	4759	PHYKPL	16579
GCA	-8230	YIPF5	-5249	CELF1	-2310	KCNIP3	885	LYPD8	4760	GJA9-MYCBP	16580
CASK	-8229	TMEM198	-5248	RPRL1A	-2309	LOC10106060	886	NCOA2	4761	MOCOS	16582
FAM155B	-8227	ECL1	-5247	LOC150776	/// -2308	TAOK1	887	LINC01267	4763	CACUL1	16586
IPRL	-8226	MCD1	-5246	TM64	-2307	HSPB7	888	LINC00474	4764	LPF	16591
CELF4	-8225	ZNF814	-5245	NDUFA7	-2306	HERC2	/// HEI 889	RP11-44F14.8	4765	PCDH7	16593
TECB3-AS1	-8224	MSI2	-5244	ZRANB2	-2305	PI16	890	GPR182	4767	SYNE1	16596
SMAD5	-8223	EXOS	-5243	SGCB	-2304	HTRA	891	NRG1	4769	PSD4	16602
CNOT4	-8222	DNLM	-5242	MEAF6	-2303	MKNK2	893	AC012360.6	4770	NDE1	16603
OPA3	-8221	SZTAR	-5241	BSN	-2302	CYP4Z1	894	LINC157860	4771	GPR180	16605
TDRD3	-8220	ZFANL6	-5240	TM64	-2301	HSPB7	897	LOC10192705	4784	RAD54L2	16607
PTPOC1	-8219	PKS3C	-5239	NDUFS1	-2300	ZNF843	899	RP1-68D18.4	4773	MRO	16629
ABC2	-8218	NUPL2									

MED25 /// MI	-8182	TRPM7	-5200	CLASP1	-2264	PLC82	947	RPS-1039K5.3	4828	HGF	16817		
SH3GL3	-8180	ADCK2	-5199	MRPL37	-2263	LINC01121	948	RBPM5	4832	KDM4C	16823		
FAM120A05	-8179	JADE1	-5198	CAND1	-2262	LRCH3	949	PVRL1	4834	MYO5A	16830		
TPAL	-8178	RBP5	-5197	HADH	-2261	ACTR3	950	ABHD11	4835	GP2	16832		
PEL3	-8177	H2AFY	-5195	GMFB	-2260	LOC388456	951	SLC22A8	4836	ABCC13	16834		
PHRF1	-8176	ARHGAP35	-5194	HMG81	-2259	PKN2	952	ADAMTS9-AS	4837	CTS8	16836		
PCID2	-8175	KIAA0101	-5193	ASB3 /// GPR	-2258	CAST	954	RNA5E3	4838	PTGER3	16837		
CHD1	-8174	SIPA111	-5192	SMARCA4	-2257	NED09	956	TGDS	4839	CD4	16838		
ATG5	-8173	AP301	-5191	TRIM13	-2256	METTL20	957	LCLN1	4840	ARPP21	16842		
FNTA	-8172	ADK	-5190	MPHOSPH10	-2255	LOC10192876	959	A2M-AS1	4841	CSNK1A1	16843		
RBM42	-8171	TMM22	-5189	NUP153	-2254	CDC117	960	TBL1X	4842	LETM1	16844		
ZNF318	-8170	KIZ	-5188	SALL2	-2253	ORSH1	961	KCNJ1	4843	CCDC150	16847		
THOC2	-8169	DACT1	-5187	EHF1C1	-2252	POM121L8P	962	PLEKH02	4844	EHMT2	16848		
SLC4A3	-8168	NKAP	-5186	PXMP2	-2251	CCDC144CP	963	FMN1	4845	F5	16850		
NTT	-8166	SERBP1	-5185	H2AFV	-2250	ACSS2	964	HBB	4847	GPR125	16853		
HAR3 /// LOC	-8165	AGBL5	-5184	AGBL5	-2249	APOR5	965	HMMT	4849	GRIK5	16856		
DAP3	-8163	PCAF1	-5183	HMC9	-2248	GLP1R	967	GSTA1	4852	CITA	16864		
ALKBH5	-8162	LOC10028936	-5182	LRRCA2	-2247	MGIL	968	TEX11	4854	NOS1	16871		
YPR4	-8161	RAB11B-AS1	-5181	BCLAF1	-2246	LOC10013366	969	LINC00690	4855	SCAMP5	16879		
SLC33A1	-8160	CSRN9	-5180	PSME4	-2245	PTGDR	970	TAS2R3	4856	NTRK2	16892		
DPH5	-8159	USP36	-5179	PSMD5-AS1	-2244	C11orf30	971	NAALAD	4857	PARVA	16895		
METTL3	-8158	ARCE1	-5178	NEURL4	-2243	MVP	976	PARDD6G-AS1	4858	ASB14	16896		
MAP2K5	-8157	PREPL	-5177	PREPL	-2242	REG1P	978	ITGB3	4859	TCF11L2	16898		
PKIB	-8155	KLHL9	-5176	FASTK02	-2241	EREG	979	ADAM29 /// I	4860	SLAMF1	16906		
PPP1R3	-8154	GPR98	-5175	KPNB1	-2240	SLC17A7	981	BOC	4861	MLLT6	16913		
LRRC34	-8153	CDKN2D	-5174	DCTN4	-2239	SMO	982	LINC00423	4862	ZFP3612	16920		
TMEM205	-8152	MED7	-5173	C6orf62	-2238	TMPRSS11E	984	SLAMF9	4863	TMEM151B	16921		
UBAP2	-8151	PPAG9	-5172	FOPNL	-2237	MFS07	985	TRABD2B	4864	KIF6	16927		
RIMKB	-8150	BOLA1	-5171	HELLS	-2236	MMP8	986	SIGLEC10	4865	RNAS57	16928		
UQCRC2	-8149	GOLGA2P5	-5170	YWHAE	-2235	LOC10050707	987	HCG22	4866	TMEM132A	16930		
DSTN	-8148	MTFR1L	-5169	CEBP6	-2233	LOC10099628	988	VSTM4	4867	STOM	16934		
TRNL1	-8147	RIMKB	-5168	LPIN2	-2232	CACNA1C	990	MMAA	4868	CEP57L1	16937		
ZNF791	-8145	KPNA1	-5167	TSSC1	-2231	CYP287P	991	DUOXA1	4869	SGTB	16940		
TFPT	-8144	PTRPA	-5166	ZNF416	-2230	ABLUM3	992	MIR142	4870	ADAM22	16953		
PTAR1	-8143	SNRPE	-5165	EFS3-AS1	-2229	TGOLN2	993	TGFB2	4871	NHSL1	16957		
NEK1	-8142	LDZAF1	-5164	GEMIN2	-2228	LOC10192712	995	DGCR14 /// T	4872	POMGN1	16958		
GCDF	-8141	MDH1B	-5163	ZNF689	-2227	LINC00152 ///	996	SP110	4874	ARPP21	16978		
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AUTS2	-8139	PSMD13	-5161	BUB3	-2225	H1FN1	998	SLCG6A	4876	EMP1	16982		
TMEM27	-8138	RP1	-5160	CC73 /// LOC	-2224	PODGRA	999	FLT3	4877	H2AFZ	16984		
CHCHD1	-8137	MAD2	-5159	MPTAN1	-2223	LINC00056	1001	LINC00056	4878	SAMM50	16988		
CRIP1	-8136	AUTS2	-5158	MESDC2	-2222	SP7AN1	1003	SP7AN1	4879	SMPDL3B	16997		
TINF2	-8135	TMEM27	-5157	ZNF271	-2221	TP53I11	1004	CTB-43E15.1	4882	ATP11A-AS1	17003		
YWHAH	-8134	CHCHD1	-5156	COK7B	-2220	PADI1	1006	LOC1027241E	4883	PALMD	17005		
CDC36	-8133	HSPD1	-5155	RC3H2	-2219	AADAC	1008	LOC1019289J	4884	ZNF7	17006		
LOC10272496	-8132	STAU1	-5154	EF3B	-2218	GBG71	1009	GPT	4885	FCAR	17008		
HSPD1	-8131	ZDHHC21	-5153	EF3B	-2218	MUC8	1010	NLGN2	4886	40787	17013		
STAU1	-8130	DDX20	-5152	FAM76A	-2217	FRS1B	1012	ASCL1	4887	RALGAP1	17020		
ZDHHC21	-8129	ALG13	-5151	PAAF1	-2215	RP11-521D12	1012	CES1 /// LOC1	4889	PTPRS	17024		
DDX20	-8128	C2orf43	-5150	CP5F2	-2214	CLASP2	1013	FOXP2	4890	VNN3	17030		
ALG13	-8126	LPH	-5149	HSD17B6	-2213	GPR144	1015	TICRR	4893	BAIAP2-AS1	17043		
C2orf43	-8125	UPAR2	-5148	PTTG3P	-2212	LOC10013482	1016	PTPRB	4894	PECAM1	17045		
LPH	-8124	MIRP39	-5147	ZKSCAN1	-2211	STXB2	1023	PHOX2B	4895	TMEM116	17050		
UPAR2	-8123	ATP11A	-5146	DHX40	-2210	LOC10192736	1022	LOC10192736	4897	LOC10192736	17050		
MIRP39	-8122	GSP11	-5145	CENPD01P1	-2209	ANHX	1019	RG52	4898	AMA3	17058		
C6orf40A	-8121	RAB11FIP4	-5144	GCF2C	-2208	LOC10050560	1020	RASGRP3	4900	LMF1	17070		
ALG13	-8120	ZNF655	-5143	ZNF430	-2207	LOC10193023	1021	C15orf54	4901	RARA	17072		
C2orf43	-8125	COM1D9	-5142	NASP	-2206	LOC10192736	1022	IQSE2	4902	ZNF324B	17083		
LPH	-8124	COM1D9	-5142	NASP	-2206	LOC10192736	1022	IQSE2	4902	ZNF324B	17083		
UPAR2	-8123	MIRP39	-5141	HILPDA	-2205	STXB2	1023	PHOX2B	4895	IFIT2	17091		
MIRP39	-8122	ZNF655	-5140	UTP23	-2204	LOC10192736	1022	LOC10192736	4897	IFIT2	17091		
ATP11A	-8121	GSP11	-5139	COPRS	-2203	CTB-31020.2	-2203	CTB-31020.2	-2203	DEFB107A ///	4903	MYO7B	17100
GSP11	-8120	RAB11FIP4	-5138	CDK2	-2202	LOC441666	1026	MKL2	4906	NCKIP5D	17102		
RAB11FIP4	-8119	ZNF655	-5138	GNPTAB	-2201	GNPTAB	1027	MAP3K8	4907	ASAH2B	17106		
ZNF655	-8118	COM1D9	-5137	AGO1	-2200	NR2	1031	ITGB7	4909	ATFPH	17107		
COM1D9	-8117	ASCC3	-5136	COD3	-2199	LOC10050617	1033	CR936796	4910	LLGL1	17108		
ASCC3	-8116	MAR1	-5135	RECP1	-2198	FLJ21408	1034	C6orf60	4911	TMEM17A	17113		
MAR1	-8115	SLC25A1A	-5134	ADAM22	-2197	PDLIM5	1035	GGT1 /// GGT1	4913	LINC00354	17115		
SLC25A1A	-8114	TMEM261	-5133	HNRNPUL2	-2196	AMHR2	1036	ALDH3B2	4914	METTL22	17117		
TMEM261	-8113	HPCAL1	-5132	SMG9	-2195	DCN	1038	CKAP2	4915	LZTS2	17120		
HPCAL1	-8112	NKAIN1	-5131	GABPB1	-2194	BC053951	1039	LTA	4917	GM2A	17125		
NKAIN1	-8111	PAPOLA	-5129	TSN	-2193	WRP1L	1041	VIL1	4918	CD44	17132		
PAPOLA	-8109	R02D11	-5128	PCX1	-2192	NR2	1042	MIR10A	4920	NCR2	17137		
R02D11	-8108	ZSCAN2	-5127	R3HDM1	-2191	PCDH1	1043	PCDH1	4921	CDC14B	17142		
ZSCAN2	-8107	SLC30A5	-5126	CTA-29F11.1	-2190	FLJ30064	1044	LOC1010604E	4922	SH3GLB2	17143		
SLC30A5	-8106	TWISTNB	-5125	PRKG2	-2189	LAD1	1045	IPO11	4923	EGFR	17145		
TWISTNB	-8105	NFATC3	-5124	USP49	-2188	FNDC4	1046	LMAN1L	4926	C11orf21	17157		
NFATC3	-8104	RPN1	-5123	PLK4	-2187	EVIS	1048	ABCC5	4927	SFT2D1	17159		
RPN1	-8103	SSTA	-5122	FAM149A	-2186	SPANXA1 /// I	1049	IMPAD1	4929	IMPAD1	17161		
SSTA	-8102	YPR4	-5121	DTYMK	-2185	RASD1	1050	LOC10099675	4931	NCDN	17164		
YPR4	-8101	GG42	-5120	UBTDO	-2184	LPAL2	1051	MAT1A	4932	GATA1	17167		
GG42	-8100	FAM208B	-8099	PDE4D	1052	IFITM1 /// IF	4933	IFITM1 /// IF	4933	CNTROB	17171		
FAM208B	-8099	SLC35B3	-8098	PGBD2	1053	PLAC1	4934	PLAC1	4934	RP13-39P12.3	17172		
SLC35B3	-8098	CKMT1A /// C	-8097	JPH2	1055	HLA-DRB1 ///	4935	HLA-DRB1 ///	4935	CYP4B1	17175		
CKMT1A /// C	-8097	SDE2	-8096	UNC00919	1056	CDC42SE2	4936	CDC42SE2	4936	ATP6V1H	17180		
SDE2	-8096	AP3B2	-8094	LOC10272344	1057	ITGB8	4937	ITGB8	4937	SEEL	17182		
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C7orf25 /// P	-8093	HMG83	-8092	ODF3L	1059	LOC1019275E	4939	LOC1019275E	4939	PPAP2B	17191		
HMG83	-8092	INSIG1	-8091	ZNF280B	1062	VMP1	4940	VMP1	4940	NPY2R	17193		
INSIG1	-8091	ZBTB41	-8090	C2orf27A	1063	LINC01268	4941	LINC01268	4941	PITPN1	17202		
ZBTB41	-8090	CTBP1	-8089	SH3GL3	1065	CD44	4942	CD44	4942	LOC400620	17207		
CTBP1	-8089	DKC1 /// MIR	-8088	TLR10	1066	TRP51	4944	TRP51	4944	NCR2	17208		
DKC1 /// MIR	-8088	PPP1R26	-8086	IL37	1067	ETV3	4945	ETV3	4945	LINC00226	17220		
PPP1R26	-8086	SLC35B4	-8085	PLA2R1	1068	MCHR2	4946	MCHR2	4946	WRNP1	17224		
SLC35B4	-8085	BCL2L13	-8084	AC007364.1 /	1071	RP11-55K13.3	4947	RP11-55K13.3	4947	RIMBP2	17235		
BCL2L13	-8084	GIA9 /// GIA9	-8083	CA13 /// LOC1	1073	CCM2L	4948	CCM2L	4948	GEMIN7	17247		
GIA9 /// GIA9	-8083	CUK1	-8082	HLA-DOA	1074	HLA-DOA	1074	C6orf15	4949	LAT2	17250		
CUK1	-8082	ARL9	-8081	ZFP1	1075	ZFP1	1075	LOC10192865	4950	ILRL1	17254		
ARL9	-8081	RUFY2	-8080	LOC10192736	-5102	NOP58	-2166	LOC728040	1079	FGF5	4951		
RUFY2	-8080	TRAP1	-8079	IPO9	-5101	ZBTB10	-2165	ABHD4	1080	ILRL1	4952		
TRAP1	-8079	BAIAP2L1	-8078	PLS1	-5100	RNMD5A	-2164	EEDP1	1082	LOC10192841	4954		
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MORF4L1	-8077	MIR304 /// I	-8075	KIF1B	-5098	SF3B1	-2162	AC004538.3 /	1085	MASP1	4956		
MIR304 /// I	-8075	NPEP5	-8074	MTO1	-5097	MFS09	-2161	STAR05	1086	GLIS3	4957		
NPEP5	-8074	BAHD1	-8073	OLFM1	-5096	BM2	1088	FAM205A ///	4959	FAM205A ///	4959		
BAHD1	-8073	GT2H2 /// G	-8072	MCPH1	-5094	EXOC6	-2158	FMO4	1089	DG592442	4961		
GT2H2 /// G	-8072	INPP5K	-8071	SKA1	-5093	CAD	-2157	GABRR2	1090	MAGEB3	4963		
INPP5K	-8071	KIAA0753	-8070	KRT19	-5092	ZNF439	-2156	ACTR3BP2	1091	RP11-493L12	4964		
KIAA0753	-8070	EFCAB12	-8069	KCTD13	-5091	TMD23	-2155	SPANXA1 /// I	1092				

MCUR1	-8056	MALSU1	-5077	RNF111	-2142	LOC284454 //	1109	CLP	4981	IGF1	17333
SLC37A1	-8055	HMGNC	-5076	STRBP	-2141	HERC2P7	1110	TMEM174	4982	LN37	17340
EF2AK1	-8054	GRIN2C	-5075	PPIG	-2140	ADCY4	1111	UNC101012	4984	SREK1	17342
ZC3H10	-8053	NDFY53	/// P1-	FAC1	-2139	UTS2B	1112	G6PC2	4986	ITSDC2	17345
LARP1B	-8052	KIAA1958	-5073	ZNF548	-2138	MIR22 // Mir	1114	IL16	4988	ESR1	17346
HDAC3	-8051	CAND1	-5072	SNRPC	-2137	COMT	1116	TNFRSF10B	4989	LANCL1	17348
ROGDI	-8050	PUS7	-5071	FBXW2	-2136	GAST	1117	NR1H4	4990	OSGIN2	17351
UBBP1 // UB	-8049	GLT1D1	-5070	TEFM	-2135	NEXN	1118	TRAP	4991	NAAL5	17352
TAS2R14	-8048	HARS2	-5069	TMM21	-2134	TAA9	1119	PTGER3	4993	CAMK2B	17358
NCLDIP2	-8047	NDFY53	-5068	SLC21A3	-2133	SLC21A3	/// 1120	SLC34A2	4994	LOC1013011	17365
BENND5B	-8046	SLC35C2	-5067	BHLHE40	-2132	CH24	1122	LMD1	4995	GNAO1	17366
KPNA3	-8045	POU4F1	-5066	DT01	-2131	FAM201B //	1123	LOC220077	4996	LEPR // LEPR	17367
INO80E	-8044	CECR2	-5065	SCOC	-2130	C4orf17	1124	PPP9	5000	HRASL52	17368
SOX6	-8043	USP12	-5064	CACYPB	-2129	EDA2R	1125	DOCK1	5001	DNAH1	17369
PRR1M	-8042	USMG65	-5063	RPS29	-2128	SSH3	1127	THRB-IT1 //	5002	KIDINS220	17376
FXL3	-8041	FBXW2	-5062	NLK	-2127	LOC10050645	1128	ADIPQ1	5003	COL27A1	17377
RP11-199F11	-8040	LARS	-5061	FKBP1	-2126	PITPNLC1	1130	TRA@ // YM	5005	UBR2	17382
KRBOA	-8039	PRPF31	-5060	TCF3	-2125	ABCBA	1131	PKFKB2	5007	LOC642236	17387
ARIH1	-8038	SFA2	-5059	SRSF3	-2124	SYCP1	1132	LOC57399	5008	EFCAB6	17390
LOC10050654	-8036	KHDRBS1	-5058	RTN3	-2123	LOC286009	1133	PIIRA	5009	MAP7D3	17407
FUZ	-8035	CDC125	-5057	MAGED4 // I-	-2122	SLC25A16	1135	KYNU	5010	LOC10192903	17410
TMT2C	-8033	FAM71E1	-5056	SUZ12 // SU-	-2121	UNC00459 //	1136	GIP	5013	PARP11	17411
PPP1CC	-8032	CTP7F3 // LC	-5055	AARS2 // P-	-2119	TLOC1	1137	MMP21	5014	GPR115	17416
ANKHD1 // A	-8031	MFF	-5054	RPS6KA5	-2118	PTGES	1138	C16orf82	5017	OGFOD1	17428
MCM8	-8030	FAM103A1	-5053	RSF1	-2117	PDE7A	1140	HFE	5018	PTPRD	17429
TRMT5	-8029	CEP72	-5052	RAD17	-2116	IL17RC	1141	SH3RF2	5019	ZBTB37	17433
UNC00115	-8028	SELT	-5051	EDRF1	-2115	ELL2	1142	SLC1A3	5020	APOBEC3G	17434
LYAR	-8027	CHKA	-5050	SAP18	-2114	CFAR // LOC	1143	DSC1	5022	ZNF688	17442
FAM160A2	-8026	TSG101	-5049	PPRKC	-2113	IL1A	1145	LRRC43	5023	BEND7	17464
ZNF2	-8025	NR2F2	-5048	NUF53	-2112	LOC10050686	1146	RG513	5024	LYNX1	17476
GMDS	-8024	NRF1	-5047	NAA25	-2110	MIPOL1	1150	TBX6	5025	MMP14	17496
TOMM5	-8023	ATP5L	-5046	PTBP2	-2109	CDC14A	1151	AC013733.4	5026	SOX17	17508
NRGN	-8022	MYCL	-5045	MIR4745 // I-	-2108	SPATA16	1152	C19orf47	5027	KIR2D51	17512
AKR7A3	-8021	EBP	-5044	VEZT	-2107	LSMBT11	1153	GRP101	5028	EHF	17515
BCR	-8020	CXK16	-5043	CDM2	-2106	FND3B // LC	1154	PSG9	5030	ASMTL-AS1	17525
BAX	-8019	PP5C5	-5042	BUB3	-2105	CLDN8	1155	CR936796	5031	RBM52	17541
RIC8B	-8018	KIDINS220	-5041	DDP10	-2104	MSR8	1158	ZDHHC1	5032	TM4SF1	17555
MAF1	-8017	ING4	-5040	DNM1L	-2103	NR4A1	1160	RBM17	5033	BRD4	17573
ARIH2OS	-8016	BNIP1	-5039	PAK1P1	-2102	CASP10	1161	RABEP2	5034	ENO1	17578
CWF19L2	-8015	NREP	-5038	M2T2A // M-	-2101	AD02	1163	MSL1	5036	POLR2F	17586
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ALDH7A1	-8013	UBA5	-5036	TFPZ2	-2099	BP1FA3	1165	C14orf183	5038	RA11	17589
SMCR8	-8012	ZNF79	-5035	PSMD3	-2098	DKA4	1166	KIF13A	5039	TARP	17590
GTPBP1 // I	-8011	SSBP2	-5034	ZNF416	-2097	MAN1A1	1168	LOC10192877	5040	SMCHD1	17592
ZNF765	-8010	ASB1	-5033	CNPY3	-2096	CAMK1G	1169	AKO21804	5041	KIF6	17596
TAF3	-8009	CADM4	-5032	ZSWIM7	-2095	TRIM10	1170	MSD2	5042	DRP4	17600
SARS	-8007	SCN3A	-5031	RNP18	-2094	TM7C	1171	USF32 // US	5043	CLC1	17604
RNP1T	-8006	SMARCC2	-5030	ZNF664	-2093	KLK10	1172	ITPKC	5044	LOC389834	17610
ZNF571	-8005	DAGLA	-5029	CHST9	-2092	CASP4	1174	ZNF24	5045	WDR19	17611
RP11-452L6.1	-8004	DHX33	-5028	FZD3	-2091	TNR	1175	LOC10192847	5047	GYP4	17620
UQCRI0	-8003	POU3F3	-5027	DDX39A	-2090	CEP41	1176	RP11-764E7.1	5048	SP2	17622
SSBP3	-8002	UBE2J2	-5026	UTP18	-2089	GAS7	1177	IL1R1	5049	CHCHD5	17629
USP46	-8001	ECHDC1	-5025	PPME1	-2088	AGPAT9	1179	ABC2G	5050	PROX214	17635
DNAK16	-7999	FKBP45	-5024	IRX2	-2087	BRP1	1180	PFGB	5051	KIF16B	17642
SPAT5	-7998	SETD81	-5023	ESPL1	-2086	ERAP1	1182	TNFRSF10A	5052	TCF3	17646
AG04	-7997	ATP2A2	-5022	IQCB1	-2085	PAPS52	1183	IGSF10	5053	RASSF4	17652
SNRNP200	-7996	GFMB1	-5021	APAE1	-2084	ADCY2	1184	TFCP2L1	5054	SZRD1	17653
H0X47	-7995	RAM11FP4	-5020	MDI9	-2083	SLC15A2	1185	LOC10192955	5056	SLC15A1	17655
TADA2A	-7994	UNC00667	-5019	MAPKAPK5-A	-2082	PAR5	1186	LOC10192784	5057	APTR	17659
RNP2C	-7993	VPS33	-5018	CDM2	-2106	LOC10192881	1187	LOC10050646	5058	ARID1B	17669
ZSCAN30	-7992	HNRNP1L	-5017	C9orf78	-2080	UNC00265 //	1188	FRMD4B	5059	NAMPT	17673
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AKAP8L	-7990	EMC7	-5015	TME08	-2078	ZNF396	1190	FOXK1	5061	BCL2L14	17686
UNG3	-7989	DRP1	-5014	TRAPP1C3	-2077	S100A10	1191	LOC10027184	5062	SEC63	17688
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PFN1	-7985	NRXN3	-5011	IREB2	-2074	DOHH	1194	GFRA4	5067	LSMEM1	17699
CUL4B	-7984	TTCL14	-5010	THAP10	-2073	SLC7A8	1196	LINC00837	5068	LVPD4	17702
ERGIC2	-7983	MIAT	-5009	C11orf31	-2072	TNP2	1197	VNN1	5069	CFTR	17709
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AKR1N2	-7981	ZK1	-5007	G2E3	-2070	RTN	1200	PTGFR	5072	CLMN	17721
LSTN2	-7980	MRE5	-5006	HRS	-2069	HTRA2	1201	MCP1	5073	PTPS1	17724
PPP4R2	-7979	ESCO1	-5005	RAD23B	-2068	STXP8-AS1	1204	SFRP4	5074	TRAP1	17727
AC006026.13	-7978	HESE	-5004	MKI67	-2067	HGF	1206	CDS3	5075	DEFB19	17732
ZNF346	-7977	MURC	-5003	USP14	-2066	NPAT	1208	LOC400620	5076	TFB2M	17739
SLC14A	-7976	IFT80	-5002	PHF3	-2065	SCARAS	1209	DSC3	5077	CLDN18	17740
YIPF5	-7975	ID4	-5001	TUBB	-2064	NR6A1	1210	LOC10193007	5078	ARHGFE12	17742
MED14	-7974	ZNF554	-4999	PANPBP	-2063	PTGFS	1211	SLC22A2	5080	SLC1A3	17745
PTX2	-7973	EF443	-4998	ZNF431	-2062	C1orf36	1213	CEB2E	5081	POE1C	17750
H2AFX	-7972	CHM	-4997	RS1D1	-2061	ARHGFE28	1214	UBE2W	5083	GABPA	17752
DAPK3 // MI	-7971	THUMP03	-4996	RPS6KA5	-2060	ATXN1	1215	CAMKK2	5084	GF5	17753
RUNX1T1	-7970	TM2D1	-4995	SOX2	-2059	ARRDC2	1216	NUB1	5085	ZNF704	17755
SFY2	-7969	HSPBP1	-4994	LINC01355	-2058	KLK15	1217	SORDL	5086	EPHA3	17756
PPA2	-7968	PHF3	-4993	BRD1	-2057	KIAA1671	1219	KRTAP4-6 //	5088	BUB3	17758
CHD4	-7967	ISCA1	-4992	PRKCB	-2056	LINC01222	1220	CD84	5089	TRAF3	17760
SLC39A9	-7966	SATB1	-4991	ZNF529	-2055	CALM1 // CA	1221	MEG3	5091	BRPF3	17763
BRC3	-7965	PICL2	-4990	KIAA2013	-2054	PDE5A	1223	MAGEA8	5092	LOC10192862	17764
CNIH4	-7964	SLC17A6	-4989	UNC80	-2053	CAPN13	1224	MAN2C1	5093	CEP70	17768
ARL10	-7963	MCYM9	-4988	SMIM11	-2052	CE53	1225	CARS	5095	SMAD4	17771
RAB56	-7962	NDUF8B	-4987	PPP1R3E	-2051	KIAA2018	1226	TFEB	5096	PCDH7	17772
DCNTE	-7961	BTX2 // GTF-	-4986	WDR5	-2050	AOS5458	1229	KIBRA1	5100	TRAF2A	17775
CLorf53	-7960	EBAG9	-4985	ICE1	-2049	SMAD5-AS1	1230	CYP4B1	5101	GKS	17784
ITFG1	-7959	CNHN	-4984	BSYL	-2047	LOC10013045	1231	TACR3	5103	SRPK2	17794
GSKIP	-7958	NHP2L1	-4983	WDR73	-2046	GSN	1232	THAP6	5104	CDH6	17796
DEC11C	-7957	MRAP2	-4982	LINC00938	-2045	CLU1	1233	TRABD	5105	LOC10050645	17797
DPY19L3	-7956	ATP51	-4981	KIF26A	-2044	TLL1	1234	SLCGM4	5106	APOP11	17803
UTX	-7955	PKNA	-4980	TRAF4	-2043	TF11	1235	CTHOS	5109	SKL5	17824
LRP2BP	-7954	SCN3B	-4979	CD320	-2042	FRRS1L	1237	SNCA	5110	PPARA	17807
NELFCD	-7953	SMAD5	-4978	POLR3K	-2041	ERN1	1239	BC034416	5111	DCAF8	17810
NPAT	-7952	ULBP1	-4977	DTL	-2040	LOC389834	1241	RSPH3	5112	KMT2A	17811
EFCAB11	-7951	RBBP4	-4976	CHUK	-2039	ATP2A2	1242	LINC01106 //	5113	SIK2	17818
MRF5P3	-7950	KAT7	-4975	PFAS	-2038	GTSF1L	1244	ACLS5	5114	PABP1	17822
PPP5CB	-7949	NCAN	-4973	PCSK9	-2037	ATRNLL	1247	CCO85B	5115	TRAF2	17824
TMT2C	-7948	PCDH82	-4972	CHRNA3	-2036	MARK2	1248	OTOP2	5116	OTOP2	17825
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BRAP	-7945	C18orf21	-4969	GRP27	-2033	RFPL3	1253	PAPLN	5122	XPNPEP2	17842
SEC11C	-7944	ATF6B	-4968	LYPD6	-2032	MME	1254	SAMD9L	5124	RBP9	17847
LINC00867	-7943	MIR14	-4967	RFBP1	-2031	TNS1	1255	FGFBP1	5125	DST	17852
KIAA0141	-7942	ZFP90	-4966	SOCS7	-2030	AF086219 //	1256	KIF1B	5126	UBE3C	17