

Genes: A2M - ASPH

A2M	ADAMTS17	ALDH6A1	AP1B1
A2ML1	ADAMTS2	ALDH7A1	AP1G1
AAAS	ADAR	ALDOA	AP1S1
AARS1	ADARB1	ALDOB	AP1S2
AARS2	ADAT3	ALG1	AP2M1
AASS	ADCY1	ALG11	AP2S1
ABAT	ADCY5	ALG12	AP3B1
ABCA1	ADD3	ALG13	AP3B2
ABCA12	ADGRG1	ALG14	AP3D1
ABCA2	ADGRV1	ALG2	AP4B1
ABCB6	ADK	ALG3	AP4E1
ABCB7	ADNP	ALG6	AP4M1
ABCC8	ADPRS	ALG8	AP4S1
ABCC9	ADRA2B	ALG9	APC2
ABCD1	ADSL	ALK	APOC3
ABCD3	AFF2	ALKBH8	APP
ABCD4	AFF3	ALMS1	APTX
ABHD12	AFF4	ALOX12B	AQP2
ABHD16A	AFG2A	ALOXE3	ARCN1
ABHD5	AFG2B	ALPL	ARFGEF2
ABI2	AFG3L2	ALS2	ARG1
ACADM	AGA	ALX1	ARHGAP31
ACADS	AGK	ALX3	ARHGAP44
ACADSB	AGMO	ALX4	ARHGEF15
ACAT1	AGO1	AMACR	ARHGEF4
ACBD6	AGO2	AMER1	ARHGEF6
ACD	AGPAT2	AMMECR1	ARHGEF9
ACHE	AGRN	AMPD2	ARID1A
ACO2	AGTR2	AMT	ARID1B
ACOX1	AHCY	AMZ2	ARID2
ACP5	AHDC1	ANAPC5	ARL13B
ACSF3	AHI1	ANG	ARL6
ACSL4	AHNAK	ANK1	ARMC5
ACTA1	AIFM1	ANK2	ARMC9
ACTB	AIMP1	ANK3	ARNT2
ACTG1	AIMP2	ANKH	ARSA
ACTL6A	AKAP11	ANKLE2	ARSL
ACTL6B	AKT1	ANKRD11	ARV1
ACTN1	AKT2	ANKRD12	ARX
ACVR1	AKT3	ANKRD17	ASAH1
ACY1	ALAD	ANKRD26	ASCL1
ADA	ALDH18A1	ANKS1B	ASH1L
ADA2	ALDH1A3	ANO10	ASL
ADAM17	ALDH3A2	ANO3	ASNS
ADAM22	ALDH4A1	ANOS1	ASPA
ADAMTS10	ALDH5A1	ANTXR1	ASPH

Genes: ASPM - CENPE

ASPM	B4GALT7	BRPF1	CASK
ASS1	B4GAT1	BRSK2	CASR
ASTN2	B9D1	BRWD3	CASZ1
ASXL1	B9D2	BSCL2	CAV1
ASXL2	BAG3	BSN	CBL
ASXL3	BAP1	BSND	CBS
ATAD1	BAZ2B	BTAF1	CC2D1A
ATCAY	BBIP1	BTBD2	CC2D2A
ATG7	BBS1	BTD	CCAR2
ATIC	BBS10	BTK	CCBE1
ATL1	BBS12	BTN2A2	CCDC22
ATM	BBS2	BUB1B	CCDC32
ATN1	BBS4	C12orf57	CCDC47
ATP10A	BBS5	C19orf12	CCDC88A
ATP13A2	BBS7	C2CD3	CCDC88C
ATP1A1	BBS9	C2orf69	CCL14
ATP1A2	BCAP31	C3	CCM2
ATP1A3	BCAS3	CA2	CCND2
ATP2A2	BCKDHA	CA8	CCNK
ATP2B2	BCKDHB	CABP2	CCT5
ATP2B3	BCKDK	CACNA1A	CD81
ATP2B4	BCL11A	CACNA1B	CD96
ATP2C2	BCL11B	CACNA1C	CDC42
ATP5F1A	BCOR	CACNA1D	CDC42BPB
ATP5F1E	BCORL1	CACNA1E	CDC6
ATP6AP1	BCS1L	CACNA1G	CDCA7
ATP6AP2	BDH1	CACNA1H	CDH11
ATP6V0A2	BDNF	CACNA1I	CDH15
ATP6V1A	BICRA	CACNA2D1	CDH2
ATP6V1B2	BIN1	CACNA2D2	CDK10
ATP7A	BLM	CACNA2D3	CDK13
ATP8A2	BLNK	CACNB2	CDK16
ATP9A	BLTP1	CACNB4	CDK19
ATPAF2	BMP1	CACNG2	CDK5
ATR	BMP4	CAD	CDK5R1
ATRN	BMPER	CAMK2A	CDK5RAP2
ATRX	BOD1	CAMK2B	CDK6
AUH	BOLA3	CAMK2G	CDK8
AUTS2	BPNT2	CAMTA1	CDKL5
AVPR1A	BPTF	CANT1	CDKN1C
AVPR2	BRAF	CAPN10	CDON
B3GALNT2	BRAT1	CAPRIN1	CDT1
B3GALT6	BRD4	CAPS	CELF2
B3GLCT	BRF1	CARD14	CELF4
B4GALNT1	BRF2	CARS1	CELF6
B4GALT1	BRIP1	CARS2	CENPE

Genes: CEP104 - DARS2

CEP104	CLASP1	COG6	CREBBP
CEP120	CLASP2	COG7	CRIP1
CEP135	CLCF1	COG8	CRIP1
CEP152	CLCN1	COL11A1	CRLF1
CEP164	CLCN2	COL11A2	CRPPA
CEP19	CLCN3	COL18A1	CRTAP
CEP290	CLCN4	COL1A1	CSDE1
CEP41	CLCN6	COL1A2	CSF1R
CEP57	CLDN16	COL25A1	CSMD1
CEP63	CLIC5	COL27A1	CSNK2A1
CEP76	CLIP1	COL4A1	CSNK2B
CEP83	CLN3	COL4A2	CSPP1
CEP85L	CLN5	COL7A1	CSTB
CERS1	CLN6	COLEC11	CTBP1
CERS3	CLN8	COLGALT1	CTC1
CERT1	CLP1	COMT	CTCF
CFAP418	CLPB	COPB2	CTDP1
CHAMP1	CLPP	COQ2	CTDSPL2
CHAT	CLPTM1	COQ4	CTNNA2
CHCHD10	CLTC	COQ5	CTNNB1
CHD1	CMIP	COQ8A	CTNND2
CHD1L	CNKSR2	COQ9	CTSA
CHD2	CNNM2	CORO1A	CTSD
CHD3	CNOT1	COX10	CTSF
CHD4	CNOT2	COX14	CTTNBP2
CHD5	CNOT3	COX15	CTU2
CHD7	CNPY3	COX20	CUL1
CHD8	CNR1	COX4I2	CUL3
CHKB	CNTN2	COX6B1	CUL4B
CHL1	CNTN3	COX7B	CUL7
CHMP1A	CNTN4	COXFA4	CUX1
CHMP2B	CNTN5	CP	CUX2
CHP1	CNTN6	CPA6	CWC27
CHRNA2	CNTNAP1	CPAP	CWF19L1
CHRNA4	CNTNAP2	CPE	CYB5R3
CHRNA2	CNTNAP4	CPLANE1	CYC1
CHRNA2	CNTNAP5	CPLX1	CYFIP1
CHRNA2	COA3	CPS1	CYFIP2
CHST14	COA5	CPT1A	CYP24A1
CHSY1	COA6	CPT1B	CYP27A1
CIB2	COA7	CPT2	CYP27B1
CIBAR2	COA8	CR2	D2HGDH
CIC	COASY	CRADD	DAG1
CILK1	COG1	CRB2	DAGLA
CIT	COG4	CRBN	DARS1
CKAP2L	COG5	CREB3L1	DARS2

Genes: DBH - ETFA

DBH	DLD	DPYSL2	EIF2B3
DBT	DLG1	DPYSL5	EIF2B4
DCAF17	DLG2	DRP2	EIF2B5
DCC	DLG3	DSCAM	EIF2S3
DCDC2	DLG4	DSE	EIF3F
DCHS1	DLGAP1	DSG4	EIF3G
DCPS	DLGAP2	DTNBP1	EIF4A2
DCTN1	DLL1	DUOX2	EIF5A
DCX	DLL4	DUOXA2	ELAC2
DDB1	DLX5	DUSP6	ELAVL3
DDC	DMD	DVL1	ELMO2
DDHD2	DMXL2	DYM	ELN
DDOST	DNA2	DYNC1H1	ELOVL4
DDR2	DNAH1	DYNC1I2	ELP1
DDX10	DNAH10	DYNC2H1	ELP2
DDX11	DNAH5	DYNC2I1	ELP4
DDX3X	DNAH7	DYNC2I2	EMC1
DDX59	DNAH9	DYRK1A	EMG1
DDX6	DNAJC12	EARS2	EML1
DEAF1	DNAJC19	EBAG9	EMX2
DEFB128	DNAJC5	EBF3	ENC1
DEGS1	DNAJC6	EBP	ENO2
DENND5A	DNAJC8	ECHS1	ENTPD1
DEPDC5	DNM1	ECM1	EOGT
DGAT2L6	DNM1L	EDA	EP300
DGUOK	DNM2	EDC3	EP400
DHCR24	DNM3	EDN1	EPB41L1
DHCR7	DNMT1	EDN3	EPG5
DHDDS	DNMT3A	EDNRB	EPHA2
DHFR	DNMT3B	EED	EPM2A
DHPS	DOCK3	EEF1A2	EPRS1
DHTKD1	DOCK6	EEF1D	ERBIN
DHX16	DOCK7	EFHC1	ERCC1
DHX30	DOCK8	EFNB1	ERCC2
DHX37	DOLK	EFNB2	ERCC3
DIAPH1	DONSON	EFR3A	ERCC4
DICER1	DPAGT1	EFTUD2	ERCC5
DIP2A	DPF2	EGF	ERCC6
DIP2B	DPH1	EGR2	ERCC8
DIP2C	DPM1	EHHADH	ERF
DIS3L2	DPM2	EHMT1	ERI1
DISC1	DPM3	EIF2AK1	ERLIN2
DISP1	DPP10	EIF2AK2	ERMARD
DISP3	DPP6	EIF2AK3	ESCO2
DKC1	DPYD	EIF2B1	ESPN
DLAT	DPYS	EIF2B2	ETFA

Genes: ETFDH - GNAI3

ETFDH	FBXO28	FOXRED1	GATA6
ETHE1	FBXO31	FRAS1	GATAD2B
EVC	FBXW11	FREM2	GATM
EVC2	FBXW4	FRG1	GBA1
EXOC2	FBXW7	FRMD4A	GBA2
EXOC7	FCSK	FRMD7	GBE1
EXOC8	FDFT1	FRMPD4	GCC2
EXOSC2	FDXR	FRRS1L	GCDH
EXOSC3	FERRY3	FTCD	GCH1
EXOSC8	FEZF1	FTL	GCK
EXT2	FEZF2	FTO	GCSH
EXTL3	FGD1	FTSJ1	GDF3
EYA1	FGF12	FUBP3	GDF5
EZH2	FGF13	FUCA1	GDI1
EZR	FGF14	FUS	GEMIN4
FA2H	FGF17	FUT8	GEMIN5
FAAH2	FGF3	FXDY2	GFAP
FAM111A	FGF8	G6PC3	GFER
FAM111B	FGFR1	GAA	GFM1
FAM120A	FGFR2	GABBR2	GFM2
FAM234B	FGFR3	GABRA1	GGNBP2
FAM50A	FH	GABRA2	GIGYF1
FANCA	FIBP	GABRA3	GIGYF2
FANCB	FIG4	GABRA5	GJA1
FANCC	FKBP10	GABRA6	GJB1
FANCD2	FKRP	GABRB1	GJC2
FANCE	FKTN	GABRB2	GK
FANCF	FLCN	GABRB3	GLA
FANCG	FLI1	GABRD	GLB1
FANCI	FLNA	GABRG2	GLDC
FANCL	FLNB	GABRG3	GLI2
FAR1	FLRT3	GAD1	GLI3
FARS2	FLVCR1	GALC	GLRA1
FARSB	FLVCR2	GALE	GLRA2
FASN	FMN1	GALNT10	GLRB
FASTKD2	FMN2	GALNT2	GLS
FAT1	FMR1	GALNT9	GLUD1
FAT4	FN1	GALNTL5	GLUL
FBLN1	FNDC3A	GALT	GLYCTK
FBLN5	FOLR1	GAMT	GM2A
FBN1	FOXG1	GAN	GMNN
FBP1	FOXH1	GARS1	GMPPA
FBRSL1	FOXI1	GAS1	GMPPB
FBXL3	FOXP1	GATA1	GNA11
FBXL4	FOXP2	GATA2	GNAI1
FBXO11	FOXP4	GATA3	GNAI3

Genes: GNAL - ITK

GNAL	GRN	HERC2	IARS1
GNAO1	GRXCR2	HESX1	IBA57
GNAQ	GSDME	HEXA	ICA1
GNAS	GSPT2	HEXB	ICE2
GNB1	GSS	HFM1	ICOS
GNB2	GSX2	HGSNAT	IDH2
GNB5	GTF2E2	HHAT	IDS
GNE	GTF2H5	HIBCH	IDUA
GNPAT	GTF2IRD1	HIVEP2	IER3IP1
GNPTAB	GTF3C3	HIVEP3	IFIH1
GNPTG	GTPBP2	HK1	IFNAR2
GNRH1	GTPBP3	HLCS	IFT140
GNRHR	GUF1	HMG20A	IFT172
GNS	GUSB	HMGB1	IFT27
GOLGA2	H1-4	HMGB3	IFT80
GOLGA4	H2BW1	HMGCL	IGBP1
GORAB	H3-3A	HMGCS2	IGF1
GOSR2	H3-3B	HNF1B	IGF1R
GOT2	H4C3	HNMT	IGF2
GP1BB	HACE1	HNRNPA1	IKBKKG
GPAA1	HACL1	HNRNPA2B1	IL12B
GPC3	HADH	HNRNPD	IL17RD
GPC4	HADHA	HNRNPH2	IL1RAPL1
GPD2	HADHB	HNRNPK	IMMP2L
GPHN	HAL	HNRNPR	IMPA1
GPI	HAP1	HNRNPU	INO80
GPKOW	HARS2	HNRNPUL2	INPP5E
GPR101	HAX1	HOMER2	INPP5K
GPSM2	HBA1	HOXA1	INPPL1
GPT2	HCCS	HOXA2	INS
GRAMD1B	HCFC1	HPCA	INSR
GRIA1	HCN1	HPD	INTS1
GRIA2	HCN2	HPDL	INTS2
GRIA3	HCN4	HPRT1	INTS7
GRIA4	HCRT	HPS3	IQSEC1
GRID1	HDAC4	HRAS	IQSEC2
GRID2	HDAC6	HS2ST1	IREB2
GRIK2	HDAC8	HS6ST1	IRF2BPL
GRIK5	HDC	HSD17B10	IRX5
GRIN1	HDLBP	HSD17B4	ISCA2
GRIN2A	HECTD4	HSPD1	ITCH
GRIN2B	HECW2	HSPG2	ITGA3
GRIN2D	HELLS	HTRA1	ITGA7
GRIP1	HENMT1	HTRA2	ITGA9
GRM1	HEPACAM	HUWE1	ITGB3
GRM7	HERC1	HYCC1	ITK

Genes: ITPA - MAPT

ITPA	KCTD13	KRT25	LRMDA
ITPR1	KCTD18	KRT81	LRP1
ITSN1	KCTD3	KRT83	LRP2
IVD	KCTD7	KRT86	LRP4
IYD	KDEL2	KY	LRP5
JAG1	KDM1A	KYNU	LRPPRC
JAM3	KDM2B	L1CAM	LRRC4C
JARID2	KDM3B	L2HGDH	LRRIQ3
JMJD1C	KDM4B	LAMA1	LRRTM4
JMJD7	KDM4C	LAMA2	LSS
KANK1	KDM5A	LAMB1	LTBP2
KANSL1	KDM5B	LAMC1	LTBP4
KARS1	KDM5C	LAMC3	LYRM4
KAT2B	KDM6A	LAMP2	LYRM7
KAT5	KDM6B	LARGE1	LYST
KAT6A	KIAA0232	LARP7	LZTFL1
KAT6B	KIAA0586	LARS1	LZTR1
KAT8	KIDINS220	LARS2	MAB21L1
KATNAL2	KIF11	LAS1L	MAB21L2
KATNB1	KIF14	LBR	MACF1
KCNA1	KIF1A	LDB1	MACROD2
KCNA2	KIF21A	LEMD3	MADD
KCNB1	KIF2A	LENG8	MAF
KCNC1	KIF4A	LEO1	MAGEC1
KCNC3	KIF5A	LEPR	MAGEL2
KCND2	KIF5C	LGI1	MAGI2
KCND3	KIF7	LGI3	MAGT1
KCNE5	KIFBP	LGI4	MAN1A1
KCNH1	KIRREL3	LHX3	MAN1B1
KCNH2	KISS1	LHX4	MAN2B1
KCNJ1	KISS1R	LIAS	MAN2C1
KCNJ10	KLF7	LIFR	MANBA
KCNJ11	KLF8	LIG4	MAOA
KCNJ2	KLHL15	LINGO1	MAP1A
KCNJ6	KLHL7	LINS1	MAP1B
KCNJ8	KMT2A	LIPT1	MAP2K1
KCNK18	KMT2B	LIPT2	MAP2K2
KCNK4	KMT2C	LMAN2L	MAP3K1
KCNK9	KMT2D	LMBRD1	MAP3K15
KCNMA1	KMT2E	LMBRD2	MAP3K7
KCNN3	KMT5B	LMNB1	MAPK1
KCNQ2	KNL1	LMNB2	MAPK10
KCNQ3	KPNA7	LNPK	MAPK8
KCNQ5	KPTN	LONP1	MAPK8IP3
KCNT1	KRAS	LPIN1	MAPRE2
KCNT2	KRIT1	LRCH3	MAPT

Genes: MARS2 - NGF

MARS2	MIPEP	MTRFR	NDST1
MASP1	MITF	MTRR	NDUFA1
MAST1	MKI67	MUC1	NDUFA10
MAT1A	MKKS	MVK	NDUFA11
MATR3	MKLN1	MXRA8	NDUFA12
MBD5	MKS1	MYBL2	NDUFA2
MBD6	MKX	MYCN	NDUFA9
MBNL3	MLC1	MYH10	NDUFAF1
MBOAT7	MLYCD	MYH14	NDUFAF2
MBTPS2	MMAA	MYH3	NDUFAF3
MC2R	MMAB	MYH9	NDUFAF4
MCCC1	MMACHC	MYO18B	NDUFAF5
MCCC2	MMADHC	MYO5A	NDUFAF6
MCM3AP	MMP19	MYO7A	NDUFAF8
MCOLN1	MMUT	MYOT	NDUFB11
MCPH1	MN1	MYT1L	NDUFB3
MDH2	MNX1	N4BP2L1	NDUFB8
MECP2	MOCS1	NAA10	NDUFB9
MED12	MOCS2	NAA15	NDUFS1
MED12L	MOGS	NACC1	NDUFS2
MED13	MORC2	NADK2	NDUFS3
MED13L	MPC1	NAGA	NDUFS4
MED17	MPDU1	NAGLU	NDUFS6
MED23	MPDZ	NAGPA	NDUFS7
MED25	MPL	NAGS	NDUFS8
MED27	MPLKIP	NALCN	NDUFV1
MEF2C	MPV17	NANS	NDUFV2
MEGF10	MRAP	NAPB	NEB
MEGF8	MRE11	NARS1	NECAP1
MEIS2	MRPL10	NARS2	NEDD4L
MET	MRPL3	NAT8L	NEFH
METTL23	MRPS22	NAV2	NEFL
METTL5	MRPS34	NAXD	NEMF
MFF	MS4A1	NAXE	NEU1
MFN2	MSL3	NBEA	NEUROD2
MFRP	MSMO1	NBN	NEXMIF
MFSD2A	MSX2	NCAPD2	NF1
MFSD8	MTFMT	NCAPG2	NFASC
MGAT2	MTHFR	NCDN	NFIA
MGME1	MTHFS	NCKAP1	NFIB
MGP	MTM1	NCKAP1L	NFIL3
MIB1	MTMR2	NCOA1	NFIX
MICU1	MTO1	NCOR1	NFKB1
MID1	MTOR	NDE1	NFKB2
MID2	MTPAP	NDN	NFU1
MIDN	MTR	NDP	NGF

Genes: NGLY1 - PIGB

NGLY1	NSD2	P2RX2	PDX1
NHERF1	NSDHL	P3H1	PEPD
NHLRC1	NSMF	P4HTM	PET100
NHP2	NSRP1	PACS1	PEX1
NHS	NSUN2	PACS2	PEX10
NIN	NT5C2	PAFAH1B1	PEX11B
NINL	NTNG1	PAH	PEX12
NIPBL	NTNG2	PAK1	PEX13
NKAP	NTRK1	PAK2	PEX14
NKX2-1	NTRK2	PAK3	PEX16
NKX2-5	NUAK1	PALB2	PEX19
NKX6-2	NUBPL	PAM16	PEX2
NLGN1	NUDCD2	PANK2	PEX26
NLGN2	NUP107	PANX1	PEX3
NLGN3	NUP155	PARD3B	PEX5
NLGN4X	NUP188	PARD6A	PEX6
NLRP1	NUP62	PARN	PEX7
NLRP3	NUS1	PARS2	PFN1
NME8	NXF5	PAX1	PGAP1
NNT	NYX	PAX2	PGAP2
NODAL	OBSL1	PAX3	PGAP3
NOG	OCA2	PAX5	PGBD5
NONO	OCLN	PAX6	PGK1
NOP10	OCRL	PAX8	PGM2L1
NOTCH1	ODC1	PBX1	PGM3
NOTCH2	OFD1	PC	PHACTR1
NOTCH3	OGDHL	PCBD1	PHB1
NOVA2	OGT	PCCA	PHC1
NPC1	OPA3	PCCB	PHF12
NPC2	OPHN1	PCDH12	PHF2
NPHP1	OPTN	PCDH19	PHF21A
NPHP3	OR4P4	PCGF2	PHF3
NPRL2	ORC1	PCK1	PHF6
NPRL3	ORC4	PCLO	PHF7
NR0B1	ORC6	PCNA	PHF8
NR0B2	OSBPL2	PCNT	PHGDH
NR2F1	OSGEP	PCYT2	PHIP
NR3C2	OTC	PDE4D	PHKA2
NR4A2	OTOGL	PDE6D	PHOX2A
NR5A1	OTUD4	PDGFRB	PHYH
NRAS	OTUD5	PDHA1	PI4KA
NRROS	OTUD6B	PDHB	PIBF1
NRXN1	OTUD7A	PDHX	PIDD1
NRXN2	OTX2	PDP1	PIEZO2
NRXN3	OXR1	PDSS1	PIGA
NSD1	OXTR	PDSS2	PIGB

Genes: PIGC - RBM28

PIGC	PNPLA6	PREPL	PTS
PIGG	PNPLA8	PRF1	PUF60
PIGH	PNPO	PRICKLE1	PUM1
PIGK	PNPT1	PRIMA1	PURA
PIGL	POC1A	PRKACA	PUS1
PIGM	POGZ	PRKACB	PUS3
PIGN	POLA1	PRKAR1A	PUS7
PIGO	POLG	PRKCB	PYCR1
PIGP	POLG2	PRKCD	PYCR2
PIGQ	POLR1C	PRKD1	QARS1
PIGS	POLR1D	PRKG1	QDPR
PIGT	POLR2A	PRKN	QRICH1
PIGU	POLR3A	PRKRA	RAB11A
PIGV	POLR3B	PRMT7	RAB11B
PIGW	POMGNT1	PROC	RAB11FIP4
PIGY	POMGNT2	PRODH2	RAB11FIP5
PIK3AP1	POMK	PROK2	RAB18
PIK3C2A	POMT1	PROKR2	RAB23
PIK3CA	POMT2	PROP1	RAB27A
PIK3R1	PON2	PRPS1	RAB2A
PIK3R2	POP1	PRR12	RAB39B
PIK3R5	PORCN	PRRG4	RAB3GAP1
PISD	POU1F1	PRRT2	RAB3GAP2
PITRM1	POU3F2	PRSS12	RAC1
PLA2G4B	POU3F3	PRUNE1	RAC3
PLA2G6	POU3F4	PSAP	RAD21
PLAA	PPA2	PSAT1	RAD50
PLAC4	PPARG	PSEN1	RAD51
PLCB1	PPIB	PSEN2	RAD51C
PLCB4	PPIL1	PSMB8	RAF1
PLEC	PPM1D	PSMD12	RAI1
PLEKHG2	PPM1K	PSPH	RALA
PLEKHG6	PPP1CB	PTCH1	RALGAPA1
PLG	PPP1R12A	PTCHD1	RALGAPB
PLK4	PPP1R15B	PTDSS1	RANBP17
PLOD3	PPP1R21	PTEN	RARB
PLP1	PPP1R9B	PTF1A	RARS1
PLPBP	PPP2CA	PTH2R	RARS2
PLXNA1	PPP2R1A	PTK7	RASA2
PLXNB1	PPP2R5D	PTPN11	RB1CC1
PMM2	PPP3CA	PTPN23	RBBP8
PMPCA	PPP5C	PTPN4	RBFOX1
PMPCB	PPRC1	PTPRF	RBFOX3
PNKP	PPT1	PTPRQ	RBL2
PNP	PQBP1	PTRH2	RBM10
PNPLA1	PREP	PTRHD1	RBM28

Genes: RBM8A - SLC33A1

RBM8A	RPL35A	SCN9A	SHROOM4
RBPJ	RPL5	SCO1	SIAH1
RDH11	RPS10	SCO2	SIGMAR1
RECQL4	RPS19	SCP2	SIL1
REEP1	RPS23	SCYL1	SIM1
RELN	RPS24	SDCCAG8	SIN3A
RERE	RPS26	SDHA	SIN3B
RETREG1	RPS28	SDHAF1	SIX1
RFT1	RPS29	SDK2	SIX3
RFX3	RPS6KA3	SEC23A	SIX6
RFX4	RPS7	SEC23IP	SKI
RHEB	RRM2B	SEC24D	SLC12A1
RHOBTB2	RSPRY1	SEC31A	SLC12A2
RIC1	RSRC1	SELENON	SLC12A3
RIMS1	RTEL1	SEMA3A	SLC12A5
RIMS2	RTN4IP1	SEMA3E	SLC12A6
RIPK4	RTTN	SEMA5A	SLC13A5
RIPOR2	RUBCN	SEMA6B	SLC16A1
RIT1	RUNX1	SEMA6D	SLC16A2
RLIM	RUNX1T1	SEPSECS	SLC17A5
RMND1	RUSC2	SERAC1	SLC17A9
RMRP	RXR8	SERPINA7	SLC18A2
RNASEH2A	RXYLT1	SERPINF1	SLC19A2
RNASEH2B	RYS2	SERPINH1	SLC19A3
RNASEH2C	SACS	SERPINI1	SLC1A1
RNASET2	SALL1	SET	SLC1A2
RNF113A	SALL4	SETBP1	SLC1A3
RNF125	SAMD9	SETD1A	SLC1A4
RNF13	SAMHD1	SETD1B	SLC22A11
RNF135	SAR1B	SETD2	SLC25A1
RNF168	SASS6	SETD5	SLC25A12
RNF213	SATB1	SETX	SLC25A15
RNF216	SATB2	SF3B4	SLC25A19
RNPC3	SBDS	SFXN4	SLC25A20
RNU4ATAC	SBF1	SGCE	SLC25A22
ROBO2	SC5D	SGSH	SLC25A3
ROGDI	SCAF4	SH2B1	SLC25A4
ROR2	SCARB2	SH3D19	SLC25A42
RORA	SCN10A	SH3TC2	SLC25A5
RORB	SCN11A	SHANK1	SLC26A4
RPGRIP1L	SCN1A	SHANK2	SLC26A8
RPIA	SCN1B	SHANK3	SLC29A3
RPL10	SCN2A	SHH	SLC2A1
RPL11	SCN3A	SHMT2	SLC2A10
RPL15	SCN5A	SHOC2	SLC2A2
RPL26	SCN8A	SHOX2	SLC33A1

Genes: SLC35A1 - TBCD

SLC35A1	SMARCE1	SPOP	SUCLG1
SLC35A2	SMC1A	SPOUT1	SUFU
SLC35A3	SMC3	SPR	SUMF1
SLC35C1	SMCHD1	SPRED1	SUOX
SLC36A2	SMG8	SPRY1	SUPT16H
SLC39A13	SMG9	SPRY2	SURF1
SLC39A14	SMO	SPRY4	SUZ12
SLC39A5	SMOC1	SPTAN1	SV2A
SLC39A8	SMPD1	SPTBN1	SV2B
SLC3A1	SMS	SPTBN2	SV2C
SLC44A1	SMURF2	SPTBN4	SVBP
SLC45A1	SNAI2	SQSTM1	SYN1
SLC46A1	SNAP25	SRCAP	SYNCRIP
SLC4A4	SNAP29	SRD5A3	SYNE1
SLC52A2	SNIP1	SRP54	SYNE2
SLC52A3	SNRPA	SRPRA	SYNE4
SLC5A5	SNRPB	SRPX2	SYNGAP1
SLC5A6	SNRPN	SRRM2	SYNJ1
SLC5A7	SNX14	SSR4	SYNRG
SLC6A1	SNX27	ST3GAL3	SYP
SLC6A17	SOBP	ST3GAL5	SYT1
SLC6A19	SON	ST8SIA2	SYT14
SLC6A20	SORCS3	STAC3	SYT2
SLC6A3	SOS1	STAG1	SZT2
SLC6A8	SOS2	STAG2	TAB2
SLC6A9	SOST	STAMBP	TAC3
SLC7A3	SOX10	STARD7	TACO1
SLC7A5	SOX11	STARD9	TACR3
SLC7A7	SOX2	STEEP1	TAF1
SLC9A1	SOX3	STIL	TAF13
SLC9A6	SOX4	STIM1	TAF2
SLC9A7	SOX5	STRA6	TAF6
SLC9A9	SOX6	STRADA	TANC2
SLF2	SOX9	STS	TANGO2
SLITRK1	SP4	STT3A	TAOK1
SLITRK5	SP7	STT3B	TAOK2
SLITRK6	SPARC	STX11	TARDBP
SLX4	SPART	STX1A	TARS2
SMAD4	SPAST	STX1B	TASP1
SMAD6	SPECC1L	STX3	TAT
SMARCA2	SPEG	STXBP1	TBC1D20
SMARCA4	SPEN	STXBP2	TBC1D23
SMARCB1	SPG11	STXBP5	TBC1D24
SMARCC2	SPG21	STXBP5L	TBC1D2B
SMARCD1	SPG7	STYXL1	TBC1D7
SMARCD2	SPINK5	SUCLA2	TBCD

Genes: TBCE - UFC1

TBCE	TH	TOR1A	TSHZ3
TBCEL	THG1L	TOR1AIP1	TSPAN18
TBCK	THOC2	TP63	TSPAN7
TBK1	THOC6	TPI1	TSPEAR
TBL1XR1	THRB	TPK1	TTC19
TBR1	TIAM1	TPP1	TTC21B
TBX1	TIMM50	TRAF3IP1	TTC5
TBX18	TIMM8A	TRAF7	TTC8
TBX19	TINF2	TRAIP	TTI2
TBX4	TK2	TRAK1	TTN
TBX6	TKT	TRAPPC11	TTPA
TBXA2R	TLE3	TRAPPC12	TUBA1A
TBXAS1	TLK2	TRAPPC2L	TUBA8
TCF12	TLR3	TRAPPC4	TUBB
TCF20	TM4SF20	TRAPPC6A	TUBB1
TCF3	TM9SF4	TRAPPC6B	TUBB2A
TCF4	TMC4	TRAPPC9	TUBB2B
TCF7L2	TMCO1	TREM2	TUBB3
TCN2	TMEM106B	TREX1	TUBB4A
TCOF1	TMEM107	TRH	TUBG1
TCTN1	TMEM114	TRHR	TUBGCP2
TCTN2	TMEM132D	TRIM23	TUBGCP4
TCTN3	TMEM138	TRIM3	TUBGCP6
TDP2	TMEM147	TRIM32	TUSC3
TECPR2	TMEM165	TRIM8	TWIST1
TECR	TMEM175	TRIO	TWIST2
TEK	TMEM216	TRIP12	TWINK
TELO2	TMEM231	TRIT1	TYK2
TENM3	TMEM237	TRMT1	TYMP
TERT	TMEM240	TRMT10A	TYROBP
TET1	TMEM38B	TRNT1	UBA5
TET2	TMEM67	TRPC6	UBASH3A
TET3	TMEM70	TRPM3	UBB
TFAP2A	TMEM94	TRPM6	UBE2A
TFAP2B	TMLHE	TRPS1	UBE2T
TFE3	TMTC3	TRPV4	UBE3A
TFG	TMX2	TRRAP	UBE3B
TG	TNC	TSC1	UBE3C
TGDS	TNFRSF11A	TSC2	UBN2
TGFB1	TNFRSF13C	TSEN15	UBQLN2
TGFB2	TNIK	TSEN2	UBR1
TGFBR1	TNPO2	TSEN34	UBR3
TGFBR2	TNPO3	TSEN54	UBR5
TGIF1	TNR	TSFM	UBR7
TGM1	TNRC6B	TSHB	UBTF
TGM5	TOE1	TSHR	UFC1

Genes: UFM1 - ZSWIM6

UFM1	VPS51	ZBTB11
UGDH	VPS53	ZBTB16
UGP2	VRK1	ZBTB18
ULK1	VWA3B	ZBTB20
ULK4	WAC	ZBTB24
UMPS	WARS2	ZBTB40
UNC13A	WASF1	ZBTB45
UNC13D	WASHC4	ZBTB7A
UNC79	WASHC5	ZC3H14
UNC80	WDFY3	ZC3H4
UPB1	WDFY4	ZC4H2
UPF3B	WDR11	ZDHHHC15
UQCC2	WDR19	ZDHHHC9
UQCC3	WDR26	ZEB1
UQCRB	WDR35	ZEB2
UQCRC2	WDR37	ZFH4
UQCRQ	WDR4	ZFPM2
UROC1	WDR45	ZFYVE26
UROS	WDR45B	ZIC1
USB1	WDR62	ZIC2
USP15	WDR73	ZMIZ1
USP27X	WDR81	ZMYM2
USP7	WFS1	ZMYM3
USP8	WNK1	ZMYND11
USP9X	WNT1	ZMYND8
VAMP2	WNT10B	ZNF136
VAPB	WNT5A	ZNF142
VARA1	WNT7A	ZNF148
VAX1	WRAP53	ZNF292
VCP	WRN	ZNF335
VDR	WWOX	ZNF407
VEZF1	XPA	ZNF41
VILL	XPC	ZNF423
VIPAS39	XPPEP3	ZNF462
VLDLR	XPO5	ZNF526
VMA22	XPO7	ZNF589
VPS11	XRCC4	ZNF592
VPS13A	XYLT1	ZNF674
VPS13B	XYLT2	ZNF711
VPS13C	YAP1	ZNF804A
VPS33B	YARS1	ZNF81
VPS35	YARS2	ZNHIT3
VPS37A	YIF1B	ZSWIM6
VPS45	YRDC	
VPS4A	YWHAG	
VPS50	YY1	