

AAAS	ATM	CAPN1	CRB2	EEFSEC
AARS1	ATOH1	CAPRIN1	CRNKL1	EIF2B1
AARS2	ATP13A2	CASK	CRPPA	EIF2B2
ABCA2	ATP1A2	CBY1	CSF1R	EIF2B3
ABCB7	ATP1A3	CC2D2A	CSGALNACT1	EIF2B4
ABCD1	ATP2B2	CCDC115	CSNK2B	EIF2B5
ABHD12	ATP2B3	CCDC88C	CSPP1	ELFN1
ACBD5	ATP6AP1	CD99L2	CSTB	ELOVL4
ACBD6	ATP6V0A1	CDK5	CTBP1	ELOVL5
ACO2	ATP6V0A2	CENPF	CTDP1	EN1
ADCY5	ATP6V0C	CEP104	CTSA	EOGT
ADGRG1	ATP7B	CEP290	CTSD	EPM2A
ADPRHL2	ATP8A2	CEP41	CTSF	ERCC2
ADPRS	AUH	CEP76	CWF19L1	ERCC3
AFG3L2	B3GALNT2	CHCHD10	CYP27A1	ERCC4
AGA	B3GALT6	CHMP1A	CYP2U1	ERCC5
AGTPBP1	B3GAT3	CHP1	CYP7B1	ERCC6
AHI1	B3GLCT	CHST14	DAG1	ERCC8
ALDH5A1	B4GALNT1	CHST3	DAGLA	ESRRG
ALG1	B4GALT1	CHST6	DARS2	EVC
ALG11	B4GALT7	CHSY1	DCC	EVC2
ALG12	B4GAT1	CILK1	DDHD2	EXOC3L2
ALG14	B9D2	CLCN2	DDOST	EXOSC3
ALG3	BBS1	CLN3	DDX59	EXOSC5
ALG6	BBS10	CLN5	DHCR7	EXOSC8
ALG8	BBS12	CLN6	DHDDS	EXOSC9
ALG9	BBS2	CLN8	DHPS	EXT1
AMPD2	BBS4	CLP1	DHRX	EXT2
ANGPTL3	BBS5	CLPB	DKC1	FA2H
ANO10	BBS7	CLPP	DLAT	FAM149B1
AP1S2	BBS9	COA7	DLG4	FAT2
APOB	BCKDHB	COASY	DNAJC19	FBXL4
APTX	BRAT1	COG1	DNAJC3	FDXR
ARG1	BRF1	COG3	DNAJC5	FEM1C
ARL13B	C12orf4	COG4	DNMT1	FGF12
ARL3	C2CD3	COG5	DOCK3	FGF14
ARL6	C5orf42	COG6	DOLK	FKRP
ARMC9	C9orf72	COG7	DPAGT1	FKTN
ARSA	C17orf80	COG8	DPM1	FLVCR1
ASL	CA8	COQ2	DPM2	FOLR1
ASS1	CACNA1A	COQ4	DPM3	FRMD5
ATAD3A	CACNA1G	COQ5	DPYSL5	FTH1
ATCAY	CACNA2D2	COQ8A	DYNC1H1	FUK
ATG12	CACNB4	COX20	EBF3	FUT8
ATG5	CAD	CP	EDEM3	FXN
ATG7	CAMTA1	CPLANE1	EEF2	G6PC3

GALC	KCNJ10	MRE11A	OPA3	PNKD
GALNT2	KCNN2	MSTO1	OPHN1	PNKP
GALNT3	KCNQ2	MT-ATP6	OTC	PNPLA6
GBA2	KCNQ3	MTCL1	PACS2	PNPT1
GDAP2	KCTD7	MT-CO1	PANK2	POC1B
GEMIN5	KIAA0556	MT-CO2	PAX2	POLG
GFAP	KIAA0586	MT-CYB	PAX6	POLR3A
GFPT1	KIAA0753	MTFMT	PCDH12	POLR3B
GJC2	KIF1A	MT-ND4	PCLO	POLR3K
GLI3	KIF1C	MTPAP	PCNA	POMGNT1
GLRA1	KIF5A	MT-TC	PDE1B	POMGNT2
GLRB	KIF7	MT-TE	PDHA1	POMK
GLS	LAMA1	MT-TG	PDHB	POMT1
GMPPA	LARGE1	MT-TH	PDHX	POMT2
GMPPB	LARS2	MTTP	PDP1	POU4F1
GNE	LETM1	MT-TS2	PDYN	PPT1
GORAB	LFNG	MT-TV	PEX10	PRDM13
GOSR2	LIAS	MT-TW	PEX16	PRDX3
GPAA1	LIG3	MT-TY	PEX2	PRKCG
GRID2	LMNB1	MVK	PEX3	PRNP
GRM1	LNPK	NAA60	PEX6	PRPS1
GRN	LRPPRC	NAGLU	PEX7	PRRT2
GSS	LRRC45	NAXE	PGAP2	PTF1A
HARS1	LRSAM1	NDUF6F6	PGAP3	PTPMT1
HARS2	LSM7	NDUFS2	PGBD5	PTRH2
HEATR5B	MAB21L1	NDUFS4	PGM1	PUM1
HEXA	MAG	NDUFS7	PGM3	RAB3A
HEXB	MAGT1	NDUFS8	PHGDH	RARS2
HIBCH	MAN1B1	NDUFV1	PHYH	RELN
HLCS	MAN2B2	NEU1	PI4KA	RFC1
HMBS	MAPK8IP3	NFASC	PIBF1	RFT1
HPRT1	MARS2	NGLY1	PIGA	RFXANK
HYLS1	MECR	NHLRC1	PIGL	RNF168
IFT74	MFN2	NKX2-1	PIGM	RNF170
INPP4A	MFSD8	NKX6-2	PIGN	RNF216
INPP5E	MGAT2	NOL3	PIGO	RNF220
INTS11	MGME1	NOVA2	PIGS	ROBO3
IRF2BPL	MINPP1	NPC1	PIGT	RORA
ISPD	MKKS	NPC2	PIGV	RPGRIP1L
ITM2B	MKS1	NPHP1	PIGW	RUBCN
ITPR1	MMACHC	NPHP3	PIK3R5	RXYLT1
IVD	MME	NPTX1	PITRM1	SACS
JAM2	MOGS	NUBPL	PLA2G6	SAMD9L
KCNA1	MORC2	NUS1	PLD3	SAR1B
KCNA2	MPDU1	OFD1	PMM2	SCLT1
KCNC3	MPI	OGDHL	PMPCA	SCN1A
KCND3	MRE11	OPA1	PMPCB	SCN2A

SCN8A	STUB1	TTC8
SCYL1	STXBP1	TTI1
SDHA	SUFU	TTPA
SEC23B	SUOX	TUBA1A
SEPSECS	SVBP	TUBA4A
SERAC1	SYNE1	TUBA8
SETX	SYNGAP1	TUBB2A
SH3TC2	SYT14	TUBB2B
SIDT2	TANGO2	TUBB3
SIL1	TBC1D23	TUBB4A
SKOR2	TBCE	TUSC3
SLC13A3	TCTN1	TWNK
SLC17A5	TCTN2	TXN2
SLC1A3	TCTN3	TXNDC15
SLC20A2	TDP1	TYROBP
SLC25A15	TDP2	UBA5
SLC25A46	TECPR2	UBR4
SLC2A1	TERT	UBTF
SLC35A1	TGM6	UCHL1
SLC35A2	THG1L	UGGT1
SLC35C1	TINF2	UNC13A
SLC35D1	TMEM106B	VAMP1
SLC37A4	TMEM107	VLDLR
SLC39A8	TMEM138	VPS13B
SLC44A1	TMEM165	VPS13D
SLC52A2	TMEM17	VPS41
SLC6A19	TMEM199	VPS53
SLC9A1	TMEM216	VRK1
SLC9A6	TMEM218	VWA3B
SMPD1	TMEM231	WARS2
SMPD4	TMEM237	WDPCP
SNAP25	TMEM240	WDR73
SNAPIN	TMEM67	WDR81
SNX14	TOE1	WFS1
SPART	TOGARAM1	WSB2
SPG11	TPP1	WWOX
SPG7	TRAPPC11	XPA
SPR	TRIM32	XRCC1
SPTAN1	TRPC3	XYLT1
SPTBN2	TSEN15	XYLT2
SQSTM1	TSEN2	ZFYVE26
SRD5A3	TSEN34	ZNF423
SSR3	TSEN54	ZNF592
SSR4	TSFM	ZSWIM6
ST3GAL3	TTBK2	
ST3GAL5	TTC19	
STT3A	TTC26	

AAAS	ATP2B2	CBY1	CWF19L1	EXOSC8
AARS2	ATP2B3	CC2D2A	CYP27A1	EXOSC9
ABCA2	ATP6AP1	CCDC115	CYP2U1	EXT1
ABCB7	ATP6V0A1	CCDC88C	CYP7B1	EXT2
ABCD1	ATP6V0A2	CENPF	DAB1	FA2H
ABHD12	ATP7B	CEP104	DAG1	FAM149B1
ACBD5	ATP8A2	CEP290	DAGLA	FAT2
ACBD6	ATXN1	CEP41	DARS2	FBXL4
ACO2	ATXN10	CHCHD10	DCC	FDXR
ADCY5	ATXN2	CHMP1A	DDHD2	FEM1C
ADGRG1	ATXN3	CHP1	DDX59	FGF12
ADPRHL2	ATXN7	CHST14	DHCR7	FGF14
AFG3L2	AUH	CHST3	DHDDS	FKRP
AGA	B3GALNT2	CHST6	DHPS	FKTN
AGTPBP1	B3GALT6	CHSY1	DKC1	FLVCR1
AHI1	B3GAT3	CLCN2	DLG4	FMR1
ALDH5A1	B3GLCT	CLN3	DNAJC19	FOLR1
ALG1	B4GALNT1	CLN5	DNAJC3	FRMD5
ALG11	B4GALT1	CLN6	DNAJC5	FUK
ALG12	B4GALT7	CLN8	DNMT1	FUT8
ALG14	B4GAT1	CLP1	DOCK3	FXN
ALG3	B9D2	CLPB	DOLK	G6PC3
ALG6	BBS1	CLPP	DPAGT1	GALC
ALG8	BBS10	COA7	DPM1	GALNT2
ALG9	BBS12	COASY	DPM2	GALNT3
AMPD2	BBS2	COG1	DPM3	GBA2
ANGPTL3	BBS4	COG3	DPYSL5	GDAP2
ANO10	BBS5	COG4	EBF3	GEMIN5
AP1S2	BBS7	COG5	EDEM3	GFAP
APOB	BBS9	COG6	EEF2	GFPT1
APTX	BCKDHB	COG7	EIF2B1	GJC2
ARL13B	BEAN1	COG8	EIF2B2	GLI3
ARL3	BRAT1	COQ2	EIF2B3	GLRA1
ARL6	BRF1	COQ4	EIF2B4	GLRB
ARMC9	C12orf4	COQ8A	EIF2B5	GLS
ARSA	C2CD3	COX20	ELOVL4	GMPPA
ASL	C9orf72	CP	ELOVL5	GMPPB
ATAD3A	CA8	CPLANE1	EN1	GNE
ATCAY	CACNA1A	CRB2	EOGT	GORAB
ATG5	CACNA1G	CSF1R	EPM2A	GOSR2
ATG7	CACNA2D2	CSGALNACT1	ERCC4	GPAA1
ATM	CAD	CSPP1	EVC	GRID2
ATN1	CAMTA1	CSTB	EVC2	GRM1
ATP13A2	CAPN1	CTBP1	EXOC3L2	GRN
ATP1A2	CAPRIN1	CTDP1	EXOSC3	GSS
ATP1A3	CASK	CTSA	EXOSC5	HARS

HARS2	MGAT2	OPHN1	POMGNT1	SLC20A2
HEATR5B	MGME1	PACS2	POMGNT2	SLC25A15
HEXA	MINPP1	PANK2	POMK	SLC25A46
HEXB	MKKS	PAX2	POMT1	SLC2A1
HIBCH	MKS1	PAX6	POMT2	SLC35A1
HMB5	MMACHC	PCDH12	POU4F1	SLC35A2
HTT	MME	PCLO	PPP2R2B	SLC35C1
HYLS1	MOGS	PDYN	PPT1	SLC35D1
ICK	MORC2	PEX10	PRDM13	SLC37A4
IFT74	MPDU1	PEX16	PRDX3	SLC39A8
INPP5E	MPI	PEX2	PRKCG	SLC44A1
INTS11	MRE11	PEX3	PRNP	SLC52A2
IRF2BPL	MSTO1	PEX6	PRPS1	SLC9A1
ISPD	MT-ATP6	PEX7	PRRT2	SLC9A6
ITM2B	MTCL1	PGAP2	PTF1A	SMPD4
ITPR1	MTFMT	PGAP3	PTRH2	SNAP25
KCNA1	MTPAP	PGM1	PUM1	SNX14
KCNA2	MTTP	PGM3	RARS2	SPART
KCNC3	MVK	PHGDH	RFC1	SPG11
KCND3	NAA60	PHYH	RFT1	SPG7
KCNJ10	NAGLU	PI4KA	RFXANK	SPR
KCNN2	NAXE	PIBF1	RNF170	SPTAN1
KCNQ2	NDUFAF6	PIGA	RNF216	SPTBN2
KCNQ3	NDUFS2	PIGL	RNF220	SQSTM1
KIAA0586	NDUFS4	PIGM	ROBO3	SRD5A3
KIAA0753	NDUFS7	PIGN	RORA	SSR3
KIF1A	NDUFS8	PIGO	RPGRIP1L	SSR4
KIF1C	NDUFV1	PIGS	RUBCN	ST3GAL3
KIF5A	NFASC	PIGT	RXYLT1	ST3GAL5
KIF7	NGLY1	PIGV	SACS	STT3A
LAMA1	NHLRC1	PIGW	SAMD9L	STUB1
LARGE1	NKX2-1	PIK3R5	SAR1B	STXBP1
LARS2	NKX6-2	PITRM1	SCLT1	SUFU
LETM1	NOL3	PLA2G6	SCN1A	SUOX
LIG3	NOP56	PLD3	SCN2A	SVBP
LMNB1	NOVA2	PMM2	SCN8A	SYNE1
LNPK	NPC1	PMPCA	SCYL1	SYNGAP1
LRPPRC	NPC2	PMPCB	SDHA	TBC1D23
LRSAM1	NPHP1	PNKD	SEC23B	TBCE
MAG	NPHP3	PNKP	SEPSECS	TBP
MAGT1	NPTX1	PNPLA6	SERAC1	TCTN1
MAN1B1	NUBPL	PNPT1	SETX	TCTN2
MAN2B2	NUS1	POC1B	SH3TC2	TCTN3
MAPK8IP3	OFD1	POLG	SIL1	TDP1
MARS2	OGDHL	POLR3A	SLC13A3	TDP2
MECR	OPA1	POLR3B	SLC17A5	TECPR2
MFN2	OPA3	POLR3K	SLC1A3	TERT

TGM6	VPS13D
THG1L	VPS41
TINF2	VRK1
TMEM106B	VWA3B
TMEM107	WARS2
TMEM138	WDPCP
TMEM165	WDR73
TMEM199	WDR81
TMEM216	WFS1
TMEM218	WWOX
TMEM231	XRCC1
TMEM237	XYLT1
TMEM240	XYLT2
TMEM67	ZFHX3
TOE1	ZFYVE26
TOGARAM1	ZNF423
TPP1	ZNF592
TRAPPC11	ZSWIM6
TRIM32	
TRPC3	
TSEN15	
TSEN2	
TSEN54	
TSFM	
TTBK2	
TTC19	
TTC8	
TTI1	
TTPA	
TUBA1A	
TUBA4A	
TUBA8	
TUBB2B	
TUBB3	
TUBB4A	
TUSC3	
TYROBP	
TWINK	
TXN2	
TXNDC15	
UBA5	
UBR4	
UBTF	
UCHL1	
VAMP1	
VLDLR	
VPS13B	

Ataksia Laaja

Geenejä 526 kpl

Versio 5

3.10.2024

AAAS	ATP2B3	CC2D2A	CYP2U1	EXT1
AARS2	ATP6AP1	CCDC115	CYP7B1	EXT2
ABCA2	ATP6V0A1	CCDC88C	DAB1	FA2H
ABCB7	ATP6V0A2	CENPF	DAG1	FAM149B1
ABCD1	ATP7B	CEP104	DAGLA	FAT2
ABHD12	ATP8A2	CEP290	DARS2	FBXL4
ACBD5	ATXN1	CEP41	DCC	FDXR
ACBD6	ATXN10	CHCHD10	DDHD2	FEM1C
ACO2	ATXN2	CHMP1A	DDX59	FGF12
ADCY5	ATXN3	CHP1	DHCR7	FGF14
ADGRG1	ATXN7	CHST14	DHDDS	FKRP
ADPRHL2	AUH	CHST3	DHPS	FKTN
AFG3L2	B3GALNT2	CHST6	DKC1	FLVCR1
AGTPBP1	B3GALT6	CHSY1	DLG4	FMR1
AHI1	B3GAT3	CLCN2	DNAJC19	FOLR1
ALDH5A1	B3GLCT	CLN5	DNAJC3	FRMD5
ALG1	B4GALNT1	CLN6	DNAJC5	FUK
ALG11	B4GALT1	CLN8	DNMT1	FUT8
ALG12	B4GALT7	CLP1	DOCK3	FXN
ALG14	B4GAT1	CLPB	DOLK	G6PC3
ALG3	B9D2	CLPP	DPAGT1	GALC
ALG6	BBS1	COA7	DPM1	GALNT2
ALG8	BBS10	COASY	DPM2	GALNT3
ALG9	BBS12	COG1	DPM3	GBA2
AMPD2	BBS2	COG3	DPYSL5	GDAP2
ANGPTL3	BBS4	COG4	EBF3	GEMIN5
ANO10	BBS5	COG5	EDEM3	GFAP
AP1S2	BBS7	COG6	EEF2	GFPT1
APOB	BBS9	COG7	EIF2B1	GJC2
APTX	BCKDHB	COG8	EIF2B2	GLI3
ARL13B	BEAN1	COQ2	EIF2B3	GLRA1
ARL3	BRAT1	COQ4	EIF2B4	GLRB
ARL6	BRF1	COQ8A	EIF2B5	GLS
ARMC9	C12orf4	COX20	ELOVL4	GMPPA
ARSA	C2CD3	CP	ELOVL5	GMPPB
ASL	C9orf72	CPLANE1	EN1	GNE
ATAD3A	CA8	CRB2	EOGT	GORAB
ATCAY	CACNA1A	CSF1R	EPM2A	GOSR2
ATG5	CACNA1G	CSGALNACT1	ERCC4	GPAA1
ATG7	CACNA2D2	CSPP1	EVC	GRID2
ATM	CAD	CSTB	EVC2	GRM1
ATN1	CAMTA1	CTBP1	EXOC3L2	GRN
ATP13A2	CAPN1	CTDP1	EXOSC3	GSS
ATP1A2	CAPRIN1	CTSA	EXOSC5	HARS
ATP1A3	CASK	CWF19L1	EXOSC8	HARS2
ATP2B2	CBY1	CYP27A1	EXOSC9	HEATR5B

HEXA	MINPP1	PANK2	POMK	SLC2A1
HEXB	MKKS	PAX2	POMT1	SLC35A1
HIBCH	MKS1	PAX6	POMT2	SLC35A2
HMBS	MMACHC	PCDH12	POU4F1	SLC35C1
HTT	MME	PCLO	PPP2R2B	SLC35D1
HYLS1	MOGS	PDYN	PRDM13	SLC37A4
ICK	MORC2	PEX10	PRDX3	SLC39A8
IFT74	MPDU1	PEX16	PRKCG	SLC44A1
INPP5E	MPI	PEX2	PRNP	SLC52A2
INTS11	MRE11	PEX3	PRPS1	SLC9A1
IRF2BPL	MSTO1	PEX6	PRRT2	SLC9A6
ISPD	MT-ATP6	PEX7	PTF1A	SMPD4
ITM2B	MTCL1	PGAP2	PTRH2	SNAP25
ITPR1	MTFMT	PGAP3	PUM1	SNX14
KCNA1	MTPAP	PGM1	RARS2	SPART
KCNA2	MTTP	PGM3	RFC1	SPG11
KCNC3	MVK	PHGDH	RFT1	SPG7
KCND3	NAA60	PHYH	RFXANK	SPR
KCNJ10	NAGLU	PI4KA	RNF170	SPTAN1
KCNN2	NAXE	PIBF1	RNF216	SPTBN2
KCNQ2	NDUFAF6	PIGA	RNF220	SQSTM1
KCNQ3	NDUFS2	PIGL	ROBO3	SRD5A3
KIAA0586	NDUFS4	PIGM	RORA	SSR3
KIAA0753	NDUFS7	PIGN	RPGRIP1L	SSR4
KIF1A	NDUFS8	PIGO	RUBCN	ST3GAL3
KIF1C	NDUFV1	PIGS	RXYLT1	ST3GAL5
KIF5A	NFASC	PIGT	SACS	STT3A
KIF7	NGLY1	PIGV	SAMD9L	STUB1
LAMA1	NHLRC1	PIGW	SAR1B	STXBP1
LARGE1	NKX2-1	PIK3R5	SCLT1	SUFU
LARS2	NKX6-2	PITRM1	SCN1A	SUOX
LETM1	NOL3	PLA2G6	SCN2A	SVBP
LIG3	NOP56	PLD3	SCN8A	SYNE1
LMNB1	NOVA2	PMM2	SCYL1	SYNGAP1
LNPK	NPC1	PMPCA	SDHA	TBC1D23
LRPPRC	NPC2	PMPCB	SEC23B	TBCE
LRSAM1	NPHP1	PNKD	SEPSECS	TBP
MAG	NPHP3	PNKP	SERAC1	TCTN1
MAGT1	NPTX1	PNPLA6	SETX	TCTN2
MAN1B1	NUBPL	PNPT1	SH3TC2	TCTN3
MAN2B2	NUS1	POC1B	SIL1	TDP1
MAPK8IP3	OFD1	POLG	SLC13A3	TDP2
MARS2	OGDHL	POLR3A	SLC17A5	TECPR2
MECR	OPA1	POLR3B	SLC1A3	TERT
MFN2	OPA3	POLR3K	SLC20A2	TGM6
MGAT2	OPHN1	POMGNT1	SLC25A15	THG1L
MGME1	PACS2	POMGNT2	SLC25A46	TINF2

TMEM106B	WARS2
TMEM107	WDPCP
TMEM138	WDR73
TMEM165	WDR81
TMEM199	WFS1
TMEM216	WWOX
TMEM218	XRCC1
TMEM231	XYLT1
TMEM237	XYLT2
TMEM240	ZFHX3
TMEM67	ZFYVE26
TOE1	ZNF423
TOGARAM1	ZNF592
TPP1	ZSWIM6
TRAPPC11	
TRIM32	
TRPC3	
TSEN15	
TSEN2	
TSEN54	
TSFM	
TTBK2	
TTC19	
TTC8	
TTI1	
TTPA	
TUBA1A	
TUBA4A	
TUBA8	
TUBB2B	
TUBB3	
TUBB4A	
TUSC3	
TWINK	
TXN2	
TXNDC15	
UBA5	
UBR4	
UBTF	
UCHL1	
VAMP1	
VLDLR	
VPS13B	
VPS13D	
VPS41	
VRK1	
VWA3B	

Ataksia laaja	Geenejä 506 kpl		Versio 4	16.5.2024
AAAS	ATP8A2	CLCN2	DOCK3	GALC
AARS	AUH	CLN5	DOLK	GALNT2
AARS2	B3GALNT2	CLN6	DPAGT1	GALNT3
ABCA2	B3GALT6	CLN8	DPM1	GBA2
ABCB7	B3GAT3	CLP1	DPM2	GDAP2
ABCD1	B3GLCT	CLPB	DPM3	GEMIN5
ABHD12	B4GALNT1	CLPP	DPYSL5	GFAP
ACBD6	B4GALT1	COA7	DYNC1H1	GFPT1
ACO2	B4GALT7	COASY	EBF3	GJC2
ADCY5	B4GAT1	COG1	EDEM3	GLI3
ADGRG1	B9D2	COG3	EEF2	GLRA1
ADPRHL2	BBS1	COG4	EIF2B1	GLRB
AFG3L2	BBS10	COG5	EIF2B2	GLS
AGTPBP1	BBS12	COG6	EIF2B3	GMPPA
AHI1	BBS2	COG7	EIF2B4	GMPPB
ALDH5A1	BBS4	COG8	EIF2B5	GNE
ALG1	BBS5	COQ2	ELOVL4	GORAB
ALG11	BBS7	COQ4	ELOVL5	GOSR2
ALG12	BBS9	COQ8A	EN1	GPAA1
ALG14	BEAN1	COX20	EOGT	GRID2
ALG3	BRF1	CP	EPM2A	GRM1
ALG6	C12orf4	CPLANE1	ERCC4	GRN
ALG8	C2CD3	CRB2	EVC	GSS
ALG9	C9orf72	CSGALNACT1	EVC2	HARS
AMPD2	CA8	CSPP1	EXOC3L2	HARS2
ANGPTL3	CACNA1A	CSTB	EXOSC3	HEATR5B
ANO10	CACNA1G	CTBP1	EXOSC5	HEXA
AP1S2	CACNA2D2	CTDP1	EXOSC8	HEXB
APOB	CACNB4	CTSA	EXOSC9	HIBCH
APTX	CAD	CWF19L1	EXT1	HMBS
ARL13B	CAMTA1	CYP27A1	EXT2	HTT
ARL3	CAPN1	CYP2U1	FA2H	HYLS1
ARL6	CAPRIN1	CYP7B1	FAM149B1	ICK
ARMC9	CASK	DAG1	FAT2	IFT74
ARSA	CBY1	DAGLA	FBXL4	INPP5E
ASL	CC2D2A	DARS2	FDXR	INTS11
ATAD3A	CCDC115	DCC	FEM1C	IRF2BPL
ATCAY	CCDC88C	DDHD2	FGF12	ISPD
ATG5	CENPF	DDX59	FGF14	ITM2B
ATG7	CEP104	DHCR7	FKRP	ITPR1
ATM	CEP290	DHDDS	FKTN	KCNA1
ATP13A2	CEP41	DHPS	FLVCR1	KCNA2
ATP1A2	CHCHD10	DKC1	FMR1	KCNC3
ATP1A3	CHMP1A	DLG4	FOLR1	KCND3
ATP2B3	CHP1	DMXL2	FRMD5	KCNJ10

ATP6AP1	CHST14	DNAJC19	FUK	KCNN2
ATP6V0A1	CHST3	DNAJC3	FUT8	KCNQ2
ATP6V0A2	CHST6	DNAJC5	FXN	KCNQ3
ATP7B	CHSY1	DNMT1	G6PC3	KIAA0586
KIAA0753	NFASC	PMPCA	SEPSECS	TDP1
KIF1A	NGLY1	PMPCB	SERAC1	TDP2
KIF1C	NHLRC1	PNKD	SETX	TECPR2
KIF5A	NKX2-1	PNKP	SH3TC2	TERT
KIF7	NKX6-2	PNPLA6	SIL1	TGM6
LAMA1	NOL3	PNPT1	SLC17A5	THG1L
LARGE1	NPC1	POC1B	SLC1A3	TINF2
LARS2	NPC2	POLG	SLC20A2	TMEM106B
LETM1	NPHP1	POLR3A	SLC25A15	TMEM107
LIG3	NPHP3	POLR3B	SLC25A46	TMEM138
LMNB1	NPTX1	POLR3K	SLC2A1	TMEM165
LNPK	NUBPL	POMGNT1	SLC35A1	TMEM199
LRPPRC	OFD1	POMGNT2	SLC35A2	TMEM216
LRSAM1	OGDHL	POMK	SLC35C1	TMEM218
MAG	OPA1	POMT1	SLC35D1	TMEM231
MAGT1	OPA3	POMT2	SLC37A4	TMEM237
MAN1B1	OPHN1	POU4F1	SLC39A8	TMEM240
MAN2B2	PACS2	PRDM13	SLC44A1	TMEM67
MAPK8IP3	PANK2	PRDX3	SLC52A2	TOE1
MARS2	PAX6	PRICKLE1	SLC9A1	TOGARAM1
MECR	PCDH12	PRKCG	SLC9A6	TPP1
MFN2	PDYN	PRNP	SMPD4	TRAPPC11
MGAT2	PEX10	PRPS1	SNAP25	TRIM32
MGME1	PEX16	PRRT2	SNX14	TRPC3
MINPP1	PEX2	PTF1A	SPART	TSEN15
MKKS	PEX3	PTRH2	SPG11	TSEN2
MKS1	PEX6	PUM1	SPG7	TSEN34
MMACHC	PEX7	RARS2	SPR	TSEN54
MME	PGAP2	RELN	SPTAN1	TSFM
MOGS	PGAP3	RFC1	SPTBN2	TTBK2
MORC2	PGM1	RFT1	SQSTM1	TTC19
MPDU1	PGM3	RFXANK	SRD5A3	TTC8
MPI	PHGDH	RNF170	SSR3	TTPA
MRE11	PHYH	RNF216	SSR4	TUBA1A
MSTO1	PI4KA	RNF220	ST3GAL3	TUBA8
MT-ATP6	PIBF1	ROBO3	ST3GAL5	TUBB2B
MTCL1	PIGA	RORA	STT3A	TUBB3
MTFMT	PIGL	RPGRIP1L	STUB1	TUBB4A
MTPAP	PIGM	RUBCN	STXBP1	TUSC3
MTTP	PIGN	RXYLT1	SUFU	TWINK
MVK	PIGO	SACS	SUOX	TXN2
NAA60	PIGS	SAMD9L	SVBP	TXNDC15
NAXE	PIGT	SAR1B	SYNE1	UBA5
NDUFAF6	PIGV	SCLT1	SYNGAP1	UBTF

NDUFS2	PIGW	SCN1A	SYT14	UCHL1
NDUFS4	PITRM1	SCN2A	TBC1D23	VAMP1
NDUFS7	PLA2G6	SCN8A	TCTN1	VLDLR
NDUFS8	PLD3	SCYL1	TCTN2	VPS13B
NDUFV1	PMM2	SEC23B	TCTN3	VPS13D

VPS41
VPS53
VRK1
VWA3B
WDPCP
WDR73
WDR81
WFS1
WWOX
XRCC1
XYLT1
XYLT2
ZFHX3
ZFYVE26
ZNF423
ZSWIM6