

AAAS	CTNNB1	KDM5C	RETREG1	TUBB4A
ABCD1	CYP27A1	KIDINS220	RHOB	TYROBP
ABHD16A	CYP2U1	KIF1A	RINT1	UBAP1
ACBD6	CYP7B1	KIF1C	RNASEH2B	UCHL1
ACER3	DARS	KIF5A	RNF170	UNC80
ADAR	DDHD1	KLC2	RNU7-1	USP8
AFG3L2	DDHD2	KPNA3	RTN2	VAMP1
AIMP1	DDX3X	L1CAM	SACS	VPS37A
ALDH18A1	DSTYK	LETM1	SAMHD1	WASHC5
ALDH3A2	ELOVL1	LSM7	SARS2	WDR45B
ALK	ENTPD1	LYST	SEC31A	ZFYVE26
ALS2	ERLIN1	MAG	SELENOI	
AMFR	ERLIN2	MAPK8IP3	SERAC1	
AMPD2	EXOSC3	MARS	SETX	
AP4B1	FA2H	MARS2	SHMT2	
AP4E1	FAR1	MED27	SIGMAR1	
AP4M1	FARS2	MMACHC	SLC16A2	
AP4S1	FBXO7	MT-ATP6	SLC1A4	
AP5Z1	FICD	MTHFR	SLC25A15	
ARG1	FLVCR1	MTPAP	SLC25A46	
ARL6IP1	FOLR1	NDUFA12	SLC2A1	
ARSA	FUS	NFU1	SLC33A1	
ATAD3A	FXN	NIPA1	SNAPC4	
ATL1	GAD1	NKX6-2	SOD1	
ATP13A2	GALC	NOTCH1	SOX10	
ATP2B4	GAN	NOTCH3	SPART	
B4GALNT1	GBA2	NRCAM	SPAST	
BCAS3	GBE1	NSRP1	SPATA5L1	
BICD2	GCH1	NT5C2	SPG11	
BLOC1S1	GFAP	OPA3	SPG21	
BORCS8	GJA1	PAH	SPG7	
BSCL2	GJC2	PCYT2	SPR	
BTD	GLDC	PI4KA	SPTAN1	
C12orf65	GLRX5	PLP1	SPTSSA	
C19orf12	GPT2	PNPLA6	STN1	
CACNA1G	HACE1	PNPLA8	SVBP	
CAPN1	HECTD4	POLR3A	TAF1C	
CCDC82	HIKESHI	POLR3K	TAF8	
CCDC88C	HMBS	PPFIBP1	TBCE	
CDK16	HPDL	PRNP	TECPR2	
CHMP3	HSPD1	PSEN1	TFG	
CHP1	IBA57	RAB3A	TH	
CLDN11	IFIH1	RAB3GAP2	TMEM63C	
COASY	INPP4A	RARS	TSPOAP1	
COQ4	IRF2BPL	REEP1	TTN	
CPT1C	KCNA2	REEP2	TUBA4A	

Spastinen parapareesi**Geenejä 115kpl****Versio 2****15.12.2024**

ABCD1	GALC	SLC16A2
ABHD16A	GBA2	SLC1A4
ADAR	GBE1	SLC25A15
AFG3L2	GCH1	SLC25A46
AIMP1	GJC2	SLC2A1
ALDH18A1	GPT2	SLC33A1
ALDH3A2	GRID2	SPART
ALS2	HACE1	SPAST
AMPD2	HIKESHI	SPG11
AP4B1	HSPD1	SPG21
AP4E1	IBA57	SPG7
AP4M1	IRF2BPL	SPR
AP4S1	KDM5C	TECPR2
AP5Z1	KIDINS220	TFG
ARG1	KIF1A	TH
ARL6IP1	KIF1C	TUBB4A
ATAD3A	KIF5A	UBAP1
ATL1	KLC2	USP8
ATP13A2	KLC4	WASHC5
ATP2B4	L1CAM	WDR45B
B4GALNT1	L2HGDH	WDR48
BICD2	LYST	ZFYVE26
BSCL2	MAG	ZFYVE27
BTD	MARS	
C12orf65	MARS2	
C19orf12	MTPAP	
CACNA1G	NIPA1	
CAPN1	NKX6-2	
CDK16	NT5C2	
COASY	OPA3	
CPT1C	PAH	
CTNNB1	PCYT2	
CYP27A1	PGAP1	
CYP2U1	PLP1	
CYP7B1	PNPLA6	
DARS	POLR3A	
DDHD1	POLR3K	
DDHD2	RARS	
DNM2	REEP1	
ENTPD1	REEP2	
ERLIN1	RNASEH2B	
ERLIN2	RTN2	
FA2H	SACS	
FARS2	SARS2	
FXN	SERAC1	
GAD1	SETX	