

Table S1: The gene panel list

L1CAM	PLP1	ATL1	SPAST	CYP7B1	NIPA1	SPG7
KIAA0196	ALDH18A1	SPG11	RTN2	HSPD1	SPG14	ZFYVE26
SPG16	ERLIN2	SPG19	KIF5A	SPG20	ACP33	SLC16A2
SPG23	SPG24	SPG25	B4GALNT1	SPG27	DDHD1	SPG29
KIF1A	REEP1	SPG32	ZFYVE27	SPG34	FA2H	SPG36
SPG37	SPG38	PNPLA6	SPG41	SLC33A1	C19ORF12	GJC2
NT5C2	GBA2	AP4B1	AP5Z1	TECPR2	AP4M1	AP4E1
AP4S1	VPS37A	DDHD2	C12ORF65	CYP2U1	TFG	KIF1C
USP8	WDR48	ARL6IP1	ERLIN1	AMPD2	ENTPD1	ARSI
PGAP1	FLRT1	RAB3GAP2	MARS	ZFR	REEP2	CPT1C
IBA57	BSCL2					