

AARS1	ATPAF2	CNNM2	DYNC1I2	GATAD2B	IREB2	MFF	PACS2	PRICKLE2	SLC12A5	TBC1D24
AARS2	ATRX	CNOT1	DYRK1A	GATM	ITPA	MFSB8	PAFAH1B1	PRIMA1	SLC13A5	TBL1XR1
ABAT	ATXN2	CNPY3	EARS2	GBA	IVD	MICAL1	PAK1	PRODH	SLC16A1	TBX1
ABCC8	AUH	CNTN2	EEF1A2	GCDH	KANSL1	MICOS13	PAK3	PRRT2	SLC16A2	TCF20
ACADS5	BCKDHA	CNTNAP2	EFHC1	GCH1	KARS1	MLYCD	PANK2	PSAT1	SLC19A3	TCF4
ACTL6B	BCKDHB	COL18A1	EHMT1	GCK	KAT6A	MMACHC	PARS2	PSPH	SLC1A2	TCF7L2
ACY1	BCKDK	COL3A1	EIF2S3	GCSH	KCNA1	MOCS1	PAX6	PTCH1	SLC1A3	TGIF1
ADAM22	BCS1L	COL4A1	EIF3F	GFM1	KCNA2	MOCS2	PC	PTEN	SLC25A1	TMEM70
ADGRG1	BRAT1	COL4A2	ELP4	GFM2	KCNB1	MOGS	PCBD1	PTPN23	SLC25A12	TMEM94
ADGRV1	BRD2	COLGALT1	EML1	GLDC	KCNC1	MT-ATP6	PCCA	PTS	SLC25A15	TNRC6A
ADK	BSCL2	COQ2	EMX2	GLRA1	KCND2	MTHFR	PCCB	PURA	SLC25A22	TPP1
ADRA2B	BTD	COQ4	EOMES	GLRB	KCNH1	MTHFS	PCDH12	QARS1	SLC25A42	TRAK1
ADSL	CABP4	COQ8A	EPG5	GLS	KCNJ1	MTOR	PCDH19	QDPR	SLC2A1	TRAPPC2L
AFG3L2	CACNA1A	COQ9	EPM2A	GLUD1	KCNJ10	MTRFR	PCNT	RAB39B	SLC2A2	TREX1
AKT3	CACNA1B	COX10	EPRS1	GLUL	KCNJ11	MT-TK	PDHA1	RAI1	SLC35A2	TRMT1
ALDH3B1	CACNA1D	COX15	ERBB4	GLYCTK	KCNK4	MT-TL1	PDHX	RANBP2	SLC35A3	TRMT44
ALDH4A1	CACNA1E	COX8A	ETFA	GNAO1	KCNMA1	NACC1	PDSS1	RAPGEF2	SLC38A3	TRPM6
ALDH5A1	CACNA1G	CPA6	ETFB	GNB1	KCNQ2	NARS2	PDSS2	RARS2	SLC46A1	TRRAP
ALDH7A1	CACNA1H	CPLX1	ETFDH	GOSR2	KCNQ3	NAXD	PET100	RBFox1	SLC4A10	TSC1
ALDH9A1	CACNA2D2	CPT1A	ETHE1	GOT2	KCNQ5	NAXE	PEX7	RELN	SLC6A1	TSC2
ALG10	CACNB4	CPT2	FARS2	GPC3	KCNT1	NDE1	PGK1	RHOBTB2	SLC6A19	TUBA1A
ALG11	CAD	CRH	FASN	GPHN	KCNT2	NDP	PHACTR1	RNASEH2A	SLC6A5	TUBA8
ALG13	CARS2	CSF1R	FBXO28	GRIA2	KCTD7	NDUFA1	PHF6	RNASEH2B	SLC6A8	TUBB2B
ALKBH8	CASK	CSNK1G1	FCSK	GRIA3	KDM5C	NDUFA2	PHGDH	RNASEH2C	SLC6A9	TWNK
ALPL	CASR	CSTB	FGD1	GRIN1	KDM6B	NDUFAF6	PIGA	RNF13	SLC9A6	UBA5
AMT	CBL	CTSD	FGF12	GRIN2A	KIF5A	NDUFS1	PIGB	ROGDI	SMARCC2	UBE2A
ANKH	CCDC88C	CTSF	FGF13	GRIN2B	KIFBP	NDUFS3	PIGH	RORB	SMC1A	UBE3A
ANKRD11	CCND2	CUL4B	FGFR3	GRIN2D	KMT2D	NDUFS4	PIGM	RSRC1	SMC3	UGDH
AP2M1	CDK19	CUX2	FH	GRN	L2HGDH	NDUFS7	PIGN	RTTN	SMS	UGP2
AP3B2	CDK5RAP2	CYFIP2	FKRP	GSS	LAMA2	NDUFS8	PIGP	RYR3	SNAP29	VAR1
APT	CDKL5	D2HGDH	FKTN	GUF1	LARGE1	NDUFV1	PIGQ	SACS	SOX2	VAR2
ARFGF2	CDON	DALRD3	FLNA	HACE1	LBR	NECAP1	PIGS	SAMD12	SPATA5	VDAC1
ARG1	CELF2	DARS2	FOLR1	HADH	LGI1	NEDD4L	PIGT	SAMHD1	SPTAN1	VPS13A
ARHGEF15	CENPJ	DBT	FOXG1	HCN1	LGI2	NEU1	PIGV	SATB2	SRPX2	VPS13B
ARHGEF9	CEP152	DCX	FOXRED1	HCN2	LIAS	NEUROD2	PIK3R2	SCARB2	ST3GAL3	WDR4
ARV1	CERS1	DDX3X	FRRS1L	HCN4	LMNB2	NEXMIF	PLA2G6	SCN1A	ST3GAL5	WDR45
ARX	CHD2	DEGS1	FTL	HDAC4	LRPPRC	NFASC	PLCB1	SCN1B	STAG1	WDR45B
ASAH1	CHRNA2	DENND5A	GABBR1	HLC5	MACF1	NHLRC1	PLP1	SCN2A	STARD7	WDR62
ASPM	CHRNA4	DEPDC5	GABBR2	HMGCL	MAGI2	NHLRC2	PLPBP	SCN2B	STIL	WWOX
ATAD1	CHRNA7	DHDDS	GABRA1	HNRNPH1	MAPK10	NIPBL	PNKP	SCN3A	STRADA	YEATS2
ATIC	CHRN2	DHFR	GABRA2	HNRNPH2	MAPK8IP3	NPRL2	PNPO	SCN8A	STUB1	YWHAG
ATN1	CIC	DHPS	GABRA3	HNRNPU	MARCHF6	NPRL3	POLG	SCN9A	STX1B	ZBTB11
ATP13A2	CLCN2	DIAPH1	GABRA5	HPD	MAST1	NRXN1	POMGNT1	SCO2	STXBP1	ZEB2
ATP1A1	CLCN4	DLD	GABRB1	HS6ST2	MBD5	NSF	POMT1	SDHA	SUOX	ZIC2
ATP1A2	CLCNKA	DMXL2	GABRB2	HSD17B10	MBOAT7	NTRK2	POMT2	SEMA6B	SURF1	ZNF142
ATP1A3	CLCNKB	DNAJC5	GABRB3	HTRA2	MCPH1	NUP133	PPP2CA	SERPINI1	SYN1	
ATP2A2	CLN3	DNM1	GABRD	IDH2	MDH1	NUP214	PPP3CA	SETBP1	SYNGAP1	
ATP6AP2	CLN5	DNM1L	GABRG2	IER3IP1	MDH2	NUS1	PPT1	SETD5	SYNJ1	
ATP6V0A2	CLN6	DOCK7	GAD1	INSR	ME2	OFD1	PQBP1	SHH	SYP	
ATP6V1A	CLN8	DPYD	GAL	IQSEC1	MECP2	OPHN1	PRDM8	SIK1	SZT2	
ATP7A	CNKSR2	DYNC1H1	GAMT	IQSEC2	MEF2C	P4HTM	PRICKLE1	SIX3	TACO1	

Table S1. Gene panel. Subset of 555 genes involved in epilepsy, established by manual curation for the purpose of monogenic and oligogenic analysis.