Cílená masivní paralelní sekvenace exonů a přilehlých intronových oblastí genů spojených s epilepsiemi:

AARS1, ABAT, ACTL6B, ADAM22, ADAR, ADGRV1, ADNP, ADSL, ALDH4A1, ALDH5A1, ALDH7A1, ALG13, ALG14, AMT, AP3B2, AP4S1, ARHGEF9, ARID1B, ARV1, ARX, ASAH1, ASH1L, ASXL3, ATAD1, ATN1, ATP13A2, ATP1A1, ATP1A2, ATP1A3, ATP6AP2, ATP6V0A1, ATP6V1A, BRAT1, C12orf57, CACNA1A, CACNA1B, CACNA1D, CACNA1E, CACNA1H, CACNA2D2, CACNB4, CAD, CASK, CASR, CDKL5, CERS1, CLCN2, CLCN4, CLCN6, CLN3, CLN5, CLN6, CLN8, CLTC, CNKSR2, CNPY3, CNTN2, CNTN4, CNTNAP2, COG7, COG8, COL4A1, COL4A2, COQ8A, CPA6, CSNK2B, CSTB, CTNND2, CTSD, CTSF, CUX2, CYFIP2, DCX, DENND5A, DEPDC5, DHDDS, DLG1, DLL1, DMXL2, DNAJC5, DNAJC6, DNM1, DNM1L, DOCK7, DPYD, DYRK1A, EEF1A2, EFHC1, EHMT1, EPM2A, FARS2, FGF12, FOLR1, FOXG1, FRRS1L, GABBR2, GABRA1, GABRA2, GABRA5, GABRA6, GABRB1, GABRB2, GABRB3, GABRD, GABRG2, GAL, GALT, GAMT, GATM, GBA1, GCSH, GLDC, GLRA1, GLRB, GNAO1, GOSR2, GPAA1, GPHN, GRIN1, GRIN2A, GRIN2B, GRIN2D, GRN, HCN1, HCN2, HECTD4, HECW2, HNRNPU, HTRA1, CHD2, CHD8, CHRNA2, CHRNA4, CHRNB2, IER3IP1, IQSEC2, IRF2BPL, ITPA, KANSL1, KCNA1, KCNA2, KCNB1, KCNC1, KCNC2, KCNH5, KCNJ10, KCNMA1, KCNQ2, KCNQ3, KCNQ5, KCNT1, KCNT2, KCTD7, LGI1, LIAS, LMNB2, MBD5, MDH2, MECP2, MED13L, MEF2C, MFSD8, MOCS1, MOCS2, MTOR, MYH1, MYT1L, NAA15, NBEA, NECAP1, NEUROD2, NEXMIF, NGLY1, NHLRC1, NLGN3, NOTCH3, NPRL2, NPRL3, NRXN1, NTRK2, NUS1, OPHN1, PACS1, PACS2, PARS2, PCDH19, PHACTR1, PHF6, PIGA, PIGB, PIGC, PIGG, PIGK, PIGN, PIGO, PIGP, PIGQ, PIGS, PIGT, PIGW, PLA2G6, PLCB1, PLPBP, PNKD, PNKP, PNPO, POGZ, POLG, PPP2CA, PPP3CA, PPT1, PRDM8, PRICKLE1, PRICKLE2, PRIMA1, PRODH, PRRT2, PURA, QARS1, RAB11A, RAB39B, RANBP2, RELN, RHOBTB2, RNASEH2A, RNASEH2B, RNASEH2C, RNU2-2, RNU4-2, ROGDI, RORA,RORB, SAMHD1, SCARB2, SCN1A, SCN1B, SCN2A, SCN3A, SCN8A, SCN9A, SEMA6B, SERPINI1, SETD1A, SETD1B, SETD2, SETD5, SGCE, SHANK3, SIK1, SLC12A5, SLC13A5, SLC19A3, SLC1A2, SLC25A12, SLC25A22, SLC2A1, SLC35A2, SLC46A1, SLC6A1, SLC6A5, SLC6A8, SLC9A6, SMC1A, SNAP25, SPTAN1, SRPX2, ST3GAL3, ST3GAL5, STRADA, STX1B, STXBP1, SYN1, SYNGAP1, SYNJ1, SZT2, TBC1D24, TBCK, TBL1XR1, TBR1, TCF4, TPK1, TPP1, TRAK1, TREX1, TRIM8, TRIP12, TRPM6, TSC1, TSC2, TWNK, UBA5, UBE3A, USP7, WARS2, WDR45, WWOX, ZEB2

Rozsáhlejší analýzu genů spojených s epilepsiemi, epileptickými syndromy a neurovývojovými onemocněními je možné provést metodou celoexomové sekvenace.