

Strand Neurodevelopmental Test

Strand Neurodevelopmental test includes
354 genes associated with inherited
neurological disorders



STRAND NEURODEVELOPMENTAL TEST

AARS, ABCC8, ABCC9, ACTB, ACTG1, ADAR, ADRA2B, ADSL, AFG3L2*, AGTR2, AHI1, AKT3, ALDH7A1, ALG12, ALG13, AMT, AP4M1, ARFGF2, ARID1A*, ARL13B, ARSB*, ASAH1, ASNS, ASPA, ASPM, ASXL1, ATP13A2, ATP1A2, ATP1A3, ATP6AP2, ATP6V0A2, ATR, ATRX, B3GNT1, B9D1, B9D2, BANF1, BCOR, BMP4, BRAF*, BRAT1*, BRWD3, BUB1B, CACNA1A, CACNA1G, CACNA1H*, CACNB4, CASC5, CASK*, CASR, CBL, CC2D2A, CDC6, CDK5RAP2, CDKL5, CDON, CDT1*, CENPJ, CEP135, CEP152, CEP290, CEP41, CEP63, CHD2, CHRNA7*, CHRNB2, CLCN2, CLN3, CLN5*, CLN6, CLN8, CNTNAP2, COL4A1, COL4A2, COL6A2, CPA6, CRH*, CSTB, CTSD*, CUL4B, D2HGDH, DAG1, DCX, DHCR7, DIAPH1*, DISP1*, DNAJC5, DNM1*, DNM1L, DPP6*, DRD2, DYNC1H1, DYRK1A, EFHC1, EFTUD2, EIF2B5, EMG1, EMX2, EOMES, ERCC2, ERCC4, ERCC6, ERCC8, ESCO2*, EXOSC3, EZH2*, FARS2, FASN, FGF8*, FGFR3, FIG4, FKRP*, FKTN, FLNA, FLVCR2*, FOLR1, GABBR1*, GABRA1, GABRA6, GABRB3, GABRD*, GABRG2, GALNS*, GATM, GCDH, GFAP*, GLB1, GLDC, GLI2*, GLI3, GNS, GOSR2, GPC3*, GPHN, GPR56, GPSM2, GRIK2, GRIN1, GRIN2A, GRIN2B, GRN, GUSB, HCCS, HCN1*, HEPACAM, HESX1, HGSNAT*, HNRNPU, HRAS, HSD17B10, HYLS1, IDH2*, IDS*, IDUA*, IER3IP1, IFIH1, IGF1R, INPP5E*, IQSEC2*, ISPD*, JRK, KANSL1, KAT6B, KCNA1, KCND2, #KCNH2, KCNJ10, KCNJ2, KCNQ2*, KCNQ3*, KCTD7*, KIAA1279*, KIAA2022, KIF11, KIF7*, KRAS, L1CAM, L2HGDH, LAMA1, LAMB1, LAMC3, #LMNA*, LARGE, LGI1, LIAS, LMNB2, MAGI2*, MAP2K1, MAP2K2*, MBD5, MCPH1, MECP2*, MED12, MED17, MEF2C, MFSD2A, MFSD8, MID1*, MKS1, MLC1, MOCS1, MOCS2, MSMO1, MTHFR, NAGLU*, NBN, NDE1*, NEB, NEDD4L, NEU1, NHEJ1, NHLRC1, NID1, NIPBL, NPHP3, NR2F1*, NRXN1, NSD1, OCLN*, OFD1*, OPA1, OPHN1*, ORC1, ORC4, ORC6, OTX2, PAFAH1B1, PCDH19, PCDHB4, PCNT, PHF6, PHGDH, PIGA*, PIGN, PIGO, PIGV, PIK3CA*, PIK3R2*, PNKP, PNPO, POLG, POMGNT1, POMGNT2, POMT1, POMT2, PPP1R3C, PPT1, PQBP1, PRICKLE1*, PRICKLE2, PRRT2, PSEN1, PTCH1, PTCH2, #PTEN, RAB18, RAB3GAP1, RAB3GAP2, RAD21, RAI1, RARS2, RBBP8, RBFOX1, RELN, RIN2, RNASEH2A, RNASEH2B*, RNASEH2C*, RNF135*, ROGDI*, ROR2, RPGRIP1L, RPL10, RPS6KA3, RYR3, SACS, SAMHD1, SCARB2, SCN1A, SCN1B, SCN2A, SCN3A, SCN4A, #SCN5A*, SCN8A, SCN9A, SEPSECS, SERPINI1, SGSH*, SIX3*, SKI*, SLC12A6, SLC25A19*, SLC25A22, SLC2A1, SLC6A1, SLC9A6, SMARCA4, SMARCB1, SMARCE1, SMC1A, SMC3, SNAP29, SNIP1, SNX10*, SOX2, SPECC1L*, SPTAN1, SRD5A3, SRPX2, ST3GAL3, ST3GAL5*, STIL, STXBP1, SUFU, SYNGAP1, TAF2, TBC1D24, TBL1XR1, TCF4, TCIRG1, TCTN1, TCTN2, TDGF1, TK2*, TMEM138, TMEM216, TMEM237, TMEM67, TPP1, TRAPPC9, TREX1*, #TSC1, TSEN2, TSEN54*, TTC21B, TUBA1A*, TUBA8*, TUBB2B, TUBB3*, TUBGCP4, TUBGCP6, UBE3A, UPF3B*, USP9X, VLDLR, VPS13B, VRK1, WDR45, WDR62, WWOX, YWHAE, ZEB2, ZIC1

*Genes having 85%-95% coverage. All other genes have >95% coverage in this test.

#Genes recommended by ACMG (American College of Medical Genetics and Genomics).

Disclaimer: Gene coverage varies from sample to sample in the NGS runs.