

Liste des 1644 gènes du panel Déficience Intellectuelle et troubles du neurodéveloppement (DI1644_V1.1)

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ELID S3413073

Analyse de 1644 gènes impliqués dans la déficience intellectuelle et les troubles du neurodéveloppement (ELID S3413073) 1644V1.1), liste également disponible sur le site : <https://www.chru-strasbourg.fr/service/unite-de-genetique-moleculaire/> :

AARS1; ABCA2; ABCC9; ABCD1; ABCD4; ABHD16A; ABHD5; ACAD9; ACADS; ACO2; ACOX1; ACSF3; ACSL4; ACTB; ACTG1; ACTL6A; ACTL6B; ACVR1; ACY1; ADAM22; ADAR; ADAR1; ADAT3; ADCY5; ADD3; ADGRG1; ADK; ADNP; ADPRS; ADSL; AFF2; AFF4; AFG3L2; AGA; AGMO; AGO1; AGO2; AGPAT2; AGPS; AGTPBP1; AHCY; AHDC1; AH1; AIFM1; AIMPI; AIM2P; AK1; AKAP6; AKT3; ALDH18A1; ALDH3A2; ALDH4A1; ALDH5A1; ALDH7A1; ALG1; ALG11; ALG13; ALG2; ALG3; ALG6; ALG8; ALG9; ALKBH8; ALS2; AMER1; AMPD2; AMT; ANAPC1; ANK2; ANK3; ANKH; ANKRD11; ANKRD17; ANKS1B; ANO10; APIB1; APIG1; API5; AP1S2; AP2M1; AP3B1; AP4B1; AP4E1; AP4M1; AP4S1; APC2; APTX; ARCN1; AREL1; ARFGEF1; ARHGAP32; ARHGAP32; ARHGAP32; ARID1A; ARID1B; ARID2; ARID2B; ARID6; ARMC9; ARPC4; ARSL1; ARV1; ARX; ASAH1; ASCL1; ASHL1; ASL; ASNS; ASPA; ASPM; ASXL1; ASXL2; ASXL3; ATAD1; ATAD5A; ATG7; ATIC; ATN1; ATP1A1; ATP1A2; ATP1A3; ATP2A2; ATP2B1; ATP5F1; ATP5FIE; ATP6AP2; ATP6VOA1; ATP6VOA2; ATP6V1A; ATP6V1B; ATP7A; ATP8A2; ATP9A; ATR; ATRX; AUH; AUTS2; AVPR2; B3GALT2; B3GALT3; B3GALT7; B3GAT3; B3GALT7; B4GALT1; B4GALT7; B9D1; BAP1; BBS1; BBS10; BBS12; BBS2; BBS4; BBS5; BBS7; BBS9; BCAP31; BCAS3; BCBDHA; BCCKDH; BCCKDH; BCCL1A; BCCL1B; BCOR1L; BCIS1; BLCRA; BLM; BLOC1S1; BOD1; BOLA2; BPTF; BRAF; BRAT1; BRCAl; BRD4; BRF1; BRPF1; BRSK2; BRWD3; BSLC2; BTD; BUB1B; C12orf4; C12orf57; C2orf69; CA2; CA5A; CA8; CACNA1A; CACNA1B; CACNA1C; CACNA1E; CACNA1G; CACNA1I; CACNA1L; CACNA2D1; CACNA2D2; CAD; CAMK2A; CAMK2B; CAMK4; CAMTA1; CAPN10; CAPN15; CAR5; CARS2; CASK; CBL; CBS; CBY1; CC2D1A; CC2D2A; CCBE1; CCDC115; CCDC174; CCDC22; CCDC32; CCDC47; CCDC82; CCDC88A; CCDC88C; CCND2; CDC42; CDC42BPB; CDH11; CDH2; CDK10; CDK13; CDK19; CDK5RAP2; CDK6; CDK8; CDK9; CDKL5; CDON2; CELF2; CEPE1; CEPE1; CEP104; CEP120; CEP135; CEP152; CEP19; CEP290; CEP45; CEP57; CEP63; CEP83; CEP85L; CERT1; CHAMP1; CHD1; CHD2; CHD3; CHD4; CHD5; CHD7; CHD8; CHKA; CHKB; CHMP1A; CHRN2A; CHRN4A; CHRN7A; CHRN8; CIC; CIT; CKAP2L; CLCN2; CLCN3; CLCN4; CLCN6; CLDN11; CLP1; CLPP; CLTC; CNKS1; CNKS2R; CNNM2; CNOT1; CNOT3; CNPY3; CNTNAP1; CNTNAP2; COA8; COASY; COG1; COG5; COG6; COG7; COG8; COL18A1; COL27A1; COL3A1; COL4A1; COLA42; COLEC11; COLGALT1; COPB1; COPB2; COQ2; COQ4; COQ8A; COX10; COX15; CPAP6; CPE; CPLANE1; CPLXI; CPSF5; CRADD; CRBBP; CRIP; CRLLS1; CRPPA; CSDE1; CSF1R; CSGALNACT1; CSNK1G1; CSNK2A1; CSNK2B; CSP1; CSTB; CTBP1; CTCF; CTDP1; CTNN2A; CTNNB1; CTU2; CUL3; CUL4B; CUX1; CUX2; CW27; CWF19L1; CYB5R3; CYFIP2; CYP26B1; CYP27A1; CYP2U1; D2HGDH; DAG1; DARS1; DARS2; DBT; DCAF17; DCC; DCHS1; DCPS; DCX; DDB1; DBD2; DDC; DDHD2; DDDST; DDX23; DDX3X; DDX59; DDX6; DEAF1; DEGS1; DENND5A; DEPD5C; DHC24R; DHC7; DHDS; DHFR; DHPS; DHTKD1; DHX30; DHX37; DIAPH1; DIP2B; DIS3L2; DKC1; DLAT; DLD; DLG3; DLG4; DLL1; DMBT1; DMD; DMPLK; DMXL2; DNAJC12; DNAJC19; DNML1; DNMT3A; DNMT3B; DOCK6; DOCK7; DOHH; DONSON; DPAGT1; DPFT2; DPFI; DPM1; DPP6; DPYD; DPYSL5; DSCAM; DTYMK; DYM; DYNC1H1; DYNC1I2; DYRK1A; EARS2; EBF3; EPB; ECHS1; EDEM3; EED; EEF1A1; EEF1B2; EEF1D; EFL1; EPFB1; EPTD2; EHMT1; EPTD2; EIF2AK2; EIF2AK3; EIF2B1; EIF2B2; EIF2B3; EIF2B4; EIF2B5; EIF3P; EIF3P4; EIF4A2; EIF5A; ELAC2; ELOVL4; ELP2; EMC1; EMC10; EMC1; EMG1; EML1; EMX2; ENPTD1; EP300; EP5G; EP2M4; EP2S1; ERCC1; ERCC2; ERCC3; ERCC4; ERCC5; ERCC6; ERCC6L2; ERCC8; ERF; ERIL1; ESCO2; ETHEL1; EXOSC2; EXOSC3; EXOSC5; EXOSC8; EXOSC9; EXT2; EXTL3; EZH2; FAMI126A; FAM149B1; FAM50A; FANC1D2; FAR1; FARS2; FASTKD2; FAT1; FAT4; FBRL1; FBXL3; FBXL4; FBXO11; FBXO28; FBXW11; FBXW11; FCSK; FDFT1; FXDR; FEM1B; FGDI1; FGFI2; FGFI3; FGFR1; FGFR2; FGFR3; FH; FIBP; FIG4; FITM2; FKRP; FKTN; FLNA; FLVCR1; FMN2; FMR1; FOLR1; FOXG1; FOXP1; FOXP2; FOXP4; FOXRED1; FRA10AC1; FRAS1; FRM04D4; FRMPD4; FRRS1L; FRRS1L; FRY; FTO; FTSJ1; FUCA1; FUCA1; FZD8; GABBR2; GABRA1; GABRA2; GABRA5; GABRB1; GABRB2; GABRB3; GABRG2; GAD1; GALC; GALNT2; GAMT; GAMT; GAN; GATA6; GATA6D2B; GATM; GBAA2; GCH1; GCSH; GDF11; GDI1; GEMIN4; GEMIN5; GFAP; GFER; GMF1; GFM2; GIC2; GK; GLB1; GLDC; GLI2; GLI3; GLR2A; GLS; GLUL; GMNN; GMPPA; GMPPB; GNA1; GNA01; GNAS; GN1B1; GN2B; GN5B; GNPAAT; GNPTB; GNPTG; GNS; GOLG2A; GOSR2; GOT2; GPAA1; GPC3; GPC4; GHPN; GP5M2; GPT2; GRIA1; GRIA2; GRIA3; GRIA4; GRID2; GRIK2; GRIN1; GRIN2B; GRIN2D2; GRIM1; GRIM7; GS; GSX2; GTF2B2; GTF2H5; GTTPBP2; GTTPBP3; GUSB; H1-4; H3-3A; H3-3B; H3F3A; H4C5B; H4C5; H4C6; HACE1; HARS1; HAX1; HCCS; HCFC1; HCIN1; HDAC4; HDAC8; HEATR3; HECW2; HEpacAMe; HERC1; HERC2; HESX1; HGSNT; HIBCH; HID1; HIKESH1; HIVEP2; HK1; HLCs; HMGB1; HMNT; HNRNP; HNRNPD; HNRNPH1; HNRNPH2; HNRNPK; HNRNPR; HNRNPU; HNRNPU2; HOXA1; HPDL; HPRT1; HRS; HS2ST1; HSD17B10; HSD17B4; HSPD1; HTTR2; HTT; HUWE1; IARS1; IDH2; IDS; IDUA; JER3P1; IFIH1; IGFI1; IKBKB; ILJRAPL1; IMPA1; IMPDH2; INPP4A; INPP5E; INPP5K; INTS1; INTS8; IP08; IPP; IQSEC1; IQSEC2; IRF2BPL; IRX5; ISCA2; ISPD; ITCH; ITGAV; ITPA; ITPR1; ITSN1; IVM; JAD2; KANSL1; KARS1; KAT5; KAT6A; KAT6B; KAT8; KATNB1; KATNP1; KCNA1; KCNA2; KCNB1; KCNC1; KCNC2; KCND2; KCND3; KCNH1; KCNJ10; KCNJ11; KCNJ16; KCNK4; KCNK9; KCNMA1; KCNN2; KCNN3; KCNQ2; KCNT1; KCNT2; KCNT7; KDM1A; KDM3B; KDM4B; KDM5A; KDM5B; KDM5C; KDM6A; KDM6B; KIAA0586; KIAA109; KIDINS220; KIF11; KIF14; KIF1A; KIF1BP; KIF2B1; KIF2A; KIF4A; KIF5A; KIF5C; KIF7; KIFBP; KLHL15; KLHL17; KMT2A; KMT2B; KMT2C; KMT2E; KMT5B; KNL1; KPNPA1; KPTN; KRAS; L1CAM; L2HGDH; LAGE3; LAMA1; LAMA2; LAMB1; LAMC3; LAMP2; LARGE1; LARP7; LARS2; LAS1L; LEO1; LGH1; LIAS; LIG4; LINGO1; LINS1; LIP2T; LMBRD1; LMBRD2; LMNB1; LMNB2; LNPK; LONP1; LR2; LRPPLC; LSS; LTBP1; LYRM7; LZTFL1; LZTR1; MAB2L1; MAB2L2; MACF1; MADD; MAG; MAGEL2; MANB1; MANB2; MANB3; MANBA; MAOA; MAP1B; MAP2B; MAP2K1; MAP2K2; MAP2K3; MAPK8IP3; MAPKAPK5; MARS; MAPS1; MAST1; MAST3; MAT1A; MBDS5; MBOAT7; MBTPS2; MC3M2P; MC3M3P; MCOLN1; MCPH1; MDH2; MECP2; MED12; MED12L; MED13; MED13L; MED15; MED17; MED20; MED23; MED24; MED25; MED27; MEF2C; MEGF8; MEIS2; MESD; METTL23; METTL5; MFF; MFSD2A; MGAT2; MGME1; Micos13; MICU1; MID1; MINP1; MIPEP; MIR17HG; MKKS; MLC1; MLYCD; MMAA; MMACHC; MMADHC; MMUT; MN1; MOC5S; MOCS2; MORC2; MPDU1; MPDZ; MPLKIP; MRS; MRE11; MRPS22; MRPS34; MSL; MSTO1; MT-ATP6; MT-CO1; MT-CO2; MT-CO3; MTFMT; MTHFR; MT-ND5; MTO1; MTOR; MTR; MTRFR; MTR; MT-TK; MT-TL1; MT-TL1; MT-TV; MVK; MYCN; MYH10; MYOSA; MYT1L; NAA10; NAA15; NAA20; NACC1; NAGA; NAGLU; NALCN; NANB; NAPS; NARS1; NARS2; NAXD; NAXE; NBEA; NBN; NCAPG2; NCIN; NCKAP1; NCOR1; NDE1; NDUF1; NDUF1A1; NDUF1A2; NDUF1A6; NDUF1F; NDUF1F3; NDUF1F4; NDUF1F5; NDUF1F6; NDUF1F7; NDUF1F8; NDUF1F9; NDUF1F10; NDUF1F11; NDUF1F12; NDUF1F13; NDUF1F14; NDUF1F15; NDUF1F16; NDUF1F17; NDUF1F18; NDUF1F19; NDUF1F20; NDUF1F21; NDUF1F22; NDUF1F23; NDUF1F24; NDUF1F25; NDUF1F26; NDUF1F27; NDUF1F28; NDUF1F29; NDUF1F30; NDUF1F31; NDUF1F32; NDUF1F33; NDUF1F34; NDUF1F35; NDUF1F36; NDUF1F37; NDUF1F38; NDUF1F39; NDUF1F40; NDUF1F41; NDUF1F42; NDUF1F43; NDUF1F44; NDUF1F45; NDUF1F46; NDUF1F47; NDUF1F48; NDUF1F49; NDUF1F50; NDUF1F51; NDUF1F52; NDUF1F53; NDUF1F54; NDUF1F55; NDUF1F56; NDUF1F57; NDUF1F58; NDUF1F59; NDUF1F60; NDUF1F61; NDUF1F62; NDUF1F63; NDUF1F64; NDUF1F65; NDUF1F66; NDUF1F67; NDUF1F68; NDUF1F69; NDUF1F70; NDUF1F71; NDUF1F72; 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