

NGS Panel Portfolio

Benefit from our Medical Expertise and Streamlined Genetic Testing

CENTOGENE has recently added the following Next Generation Sequencing panels and gene updates to its portfolio (01 February 2021). CENTOGENE's NGS panel composition always reflects the clinical relevance to the specific disease phenotype. All of our NGS panels are processed with a standardized quality scheme and internal controls.

Amyotrophic lateral sclerosis panel

ALS2, ANG, C9orf72, CHCHD10, CHMP2B, CSF1R, DCTN1, ERBB4, FIG4, FUS, GRN, HNRNPA1, ITM2B, KIF5A, MAPT, MATR3, NEFH, OPTN, PFN1, PRNP, PRPH, PSEN1, PSEN2, SETX, SIGMAR1, SLC52A3, SOD1, SPG11, SQSTM1, TARDBP, TBK1, TREM2, TUBA4A, UBQLN2, VAPB, VCP

Abnormal mineralization panel

ABCC6, ALPL, ANKH, ANO5, AP2S1, BMP1, CA2, CASR, CLCN5, CLCN7, COL1A1, COL1A2, CREB3L1, CRTAP, CYP27B1, CYP2R1, DMP1, ENPP1, FAH, FGF23, FGFR1, FGFR3, FKBP10, GALNT3, GJA1, GNA11, GNAS, GORAB, HPGD, HRAS, IFITM5, KRAS, LRP5, MBTPS2, MTAP, NOTCH2, NRAS, OCRL, OSTM1, P3H1, P4HB, PHEX, PLEKHM1, PLOD2, PLS3, PPIB, PTSS1, PTH1R, SERPINF1, SERPINH1, SLC26A2, SLC34A1, SLC34A3, SLC9A3R1, SLC20A1, SNX10, SOST, SOX9, SP7, TBXAS1, TCIRG1, TGFB1, TMEM38B, TNFRSF11A, TNFRSF11B, TNFSF11, TYROBP, VDR, WNT1

Ataxia panel

ABC7, ABHD12, ABHD5, ACADVL, ACO2, AFG3L2, AHI1, ALDH5A1, AMACR, ANO10, AP1S2, APTX, ARL13B, ARL6, ARSA, ATCAY, ATN1, ATM, ATP13A2, ATP1A3, ATP2B3, ATP8A2, B9D1, BBS1, BBS12, BSCL2, BTBD9, C12orf65, C19orf12, CA8, CACNA1A, CACNB4, CAMTA1, CASK, CC2D2A, CCDC88C, CEP290, CEP41, CHMP1A, CLCN2, CLN5, CLN6, CLPP, COASY, COQ2, COQ8A, COQ9, COX20, CP, CPLANE1, CSPP1, CWF19L1, CYP27A1, DARS2, DLAT, DNAJC19, DNAJC5, DNMT1, EIF2B1, EIF2B2, EIF2B3, EIF2B4, EIF2B5, ELOVL4, ELOVL5, EXOSC3, FA2H, FBXL4, FGF14, FLVCR1, FTL, FXN, GALT, GBA, GBA2, GFAP, GJB1, GJC2, GOSR2, GRID2, GRM1, GSS, HEPACAM, HEXB, HIBCH, INPP5E, ITM2B, ITPR1, KCNA1, KCNC3, KCND3, KCNJ10, KIF1A, KIF1C, KIF5A, KIF7, LAMA1, LMNB1, LRPPRC, MARS2, MKS1, MLC1, MRE11, MTFMT, MTPAP, MTTT, NDUFAF6, NDUFS1, NDUFS2, NDUFS4, NDUFS7, NDUFV1, NPC1, NPC2, NPHP1, NUBPL, OFD1, OPA1, OPA3, OPHN1, PANK2, PAX6, PDHX, PDSS1, PDSS2, PDYN, PEX10, PEX2, PEX7, PHYH, PLA2G6, PLP1, PNKD, PNKP, PNPLA6, POLG, POLR3A, POLR3B, PRICKLE1, PRKCG, PRRT2, RARS2, RPRG1, RRM2B, RUBCN, SACS, SCN2A, SETX, SIL1, SLC16A2, SLC17A5, SLC1A3, SLC20A2, SLC25A46, SLC2A1, SLC52A3, SLC9A6, SPG11, SPG7, SPR, SPTBN2, STUB1, SYNE1, TCTN2, TGM6, TMEM216, TMEM237, TMEM240, TMEM67, TPP1, TSEN2, TSEN34, TSEN54, TTBK2, TTC19, TTPA, TUBB4A, TWNK, UBA5, VAMP1, VLDLR, VRK1, WDR81, WFS1, WWOX, ZFYVE26

Ataxia comprehensive panel

ABC7, ABHD12, ABHD5, ACADVL, ACO2, AFG3L2, AHI1, ALDH5A1, AMACR, ANO10, AP1S2, APTX, ARL13B, ARL6, ARSA, ATCAY, ATM, ATN1, ATP13A2, ATP1A3, ATP2B3, ATP8A2, ATXN1, ATXN10, ATXN2, ATXN3, ATXN7, ATXN8OS, B9D1, BBS1, BBS12, BEAN1, BSCL2, BTBD9, C12orf65, C19orf12, CA8, CACNA1A, CACNB4, CAMTA1, CASK, CC2D2A, CCDC88C, CEP290, CEP41, CHMP1A, CLCN2, CLN5, CLN6, CLPP, COASY, COQ2, COQ8A, COQ9, COX20, CP, CPLANE1, CSPP1, CWF19L1, CYP27A1, DARS2, DLAT, DNAJC19, DNAJC5, DNMT1, EIF2B1, EIF2B2, EIF2B3, EIF2B4, EIF2B5, ELOVL4, ELOVL5, EXOSC3, FA2H, FBXL4, FGF14, FLVCR1, FTL, FXN, GALT, GBA, GBA2, GFAP, GJB1, GJC2, GOSR2, GRID2, GRM1, GSS, HEPACAM, HEXB, HIBCH, INPP5E, ITM2B, ITPR1, KCNA1, KCNC3, KCND3, KCNJ10, KIF1A, KIF1C, KIF5A, KIF7, LAMA1, LMNB1, LRPPRC, MARS2, MKS1, MLC1, MRE11, MTFMT, MTPAP, MTTT, NDUFAF6, NDUFS1, NDUFS2, NDUFS4, NDUFS7, NDUFV1, NOP56, NPC1, NPC2, NPHP1, NUBPL, OFD1, OPA1, OPA3, OPHN1, PANK2, PAX6, PDHX, PDSS1, PDSS2, PDYN, PEX10, PEX2, PEX7, PHYH, PLA2G6, PLP1, PNKD, PNKP, PNPLA6, POLG, POLR3A, POLR3B, PPP2R2B, PRICKLE1, PRKCG, PRRT2, RARS2, RPRG1, RRM2B, RUBCN, SACS, SCN2A, SETX, SIL1, SLC16A2, SLC17A5, SLC1A3, SLC20A2, SLC25A46, SLC2A1, SLC52A3, SLC9A6, SPG11, SPG7, SPR, SPTBN2, STUB1, SYNE1, TBP, TCTN2, TGM6, TMEM216, TMEM237, TMEM240, TMEM67, TPP1, TSEN2, TSEN34, TSEN54, TTBK2, TTC19, TTPA, TUBB4A, TWNK, UBA5, VAMP1, VLDLR, VRK1, WDR81, WFS1, WWOX, ZFYVE26

Ataxia repeat expansion panel

ATN1, ATXN1, ATXN10, ATXN2, ATXN3, ATXN7, ATXN8OS, BEAN1, CACNA1A, FXN, NOP56, PPP2R2B, TBP

Atypical hemolytic uremic syndrome panel

ADAMTS13, C3, CD46, CD59, CFB, CFH, CFHR1, CFHR2, CFHR3, CFHR5, CFI, CR1, CR2, DGKE, INF2, MMACHC, MMUT, PIGA, PLG, THBD

Blood coagulation panel

ACTN1, ACVRL1, ADAMTS13, ADAMTS2, ANKRD26, AP3B1, BLOC1S3, BLOC1S6, CCM2, CD36, CD40LG, CHST14, COL1A2, COL3A1, COL4A1, CTC1, CYCS, DIAPH1, DTNBP1, EFEMP2, ENG, F10, F11, F13A1, F2, F5, F7, F8, F9, FANCA, FGA, FGB, FGG, FLNA, GATA1, GFI1B, GNE, GP1BA, GP1BB, GP9, HOXA11, HPS1, HPS3, HPS4, HPS5, HPS6, IL2RG, ITGA2B, ITGB3, JAM3, KRIT1, LYST, LYZ, MPL, MYH9, P2RY12, PDCD10, PROC, PROS1, PTPN11, RBM8A, RUNX1, SBDS, SERPINC1, SLC35A1, SLC7A7, SMAD4, STIM1, THBD, VIPAS39, WAS

Bone marrow / Anemia panel

ABC7, ACTN1, ADAMTS13, AK2, ALAS2, AMN, ANK1, ANKRD26, AP3B1, ATM, ATRX, BLM, BLOC1S3, BRCA1, BRCA2, BRIP1, C15orf41, CASP10, CBL, CBLIF, CD36, CD40LG, CDAN1, CENPJ, CEP152, CLCN7, CLPB, CSF3R, CTC1, CUBN, CXCR4, CYB5R3, CYCS, DHFR, DIAPH1, DKC1, DTNBP1, ELANE, EPB42, ERCC4, FANCA, FANCB, FANCC, FANCD2, FANCE, FANCF, FANCG, FANCI, FANCL, FANCM, FAS, FASLG, G6PC3, G6PD, GATA1, GFI1, GFI1B, GLRX5, GNE, GP1BA, GP1BB, GP9, GPI, GSS, HAX1, HBA1, HBA2, HBB, HFE, HOXA11, HPS1, HPS3, HPS4, HPS5, HPS6, HSPA9, IL2RG, ITGA2B, ITGB3, ITK, JAGN1, KLF1, KRAS, LIG4, LPIN2, LYST, MLH1, MPL, MRE11, MSH2, MSH6, MTR, MTRR, MYH9, NBN, NF1, NHP2, NOP10, NRAS, PALB2, PARN, PC, PDHA1, PDHX, PKLR, PMS2, PRF1, PTPN11, PUS1, RAC2, RAD51C, RBBP8, RBM8A, RIT1, RPL11, RPL15, RPL26, RPL27, RPL35A, RPL5, RPS10, RPS17, RPS19, RPS24, RPS26, RPS27, RPS28, RPS29, RPS7, RTEL1, RUNX1, SAMD9, SBDS, SEC23B, SH2D1A, SLC19A2, SLC19A3, SLC25A19, SLC25A38, SLC4A1, SLX4, SPTA1, SPTB, SRP72, STIM1, STX11, STXBP2, TCN2, TERT, TINF2, TP53, TPK1, TRNT1, UBE2T, UNC13D, VPS13B, VPS45, WAS, WRAP53, XIAP, XRCC2, YARS2

BRCA1, BRCA2 panel (germline and somatic)

BRCA1, BRCA2

CentoBreast®

ABRAXAS1, ATM, BARD1, BRCA1, BRCA2, BRIP1, CDH1, CHEK2, DICER1, EPCAM, FANCC, MEN1, MLH1, MRE11, MSH2, MSH6, MUTYH, NBN, PALB2, PMS1, PMS2, PTEN, RAD50, RAD51C, RAD51D, RECQL, SMARCA4, STK11, TP53, XRCC2

CentoCancer®

ABRAXAS1, APC, ATM, AXIN2, BAP1, BARD1, BLM, BMPR1A, BRCA1, BRCA2, BRIP1, CDH1, CDK4, CDKN2A, CHEK2, DICER1, DIS3L2, EPCAM, FANCC, FH, FLCN, GALNT12, HNF1B, HOXB13, KIT, MC1R, MEN1, MET, MITF, MLH1, MLH3, MRE11, MSH2, MSH3, MSH6, MUTYH, NBN, NF1, NTHL1, PALB2, PMS1, PMS2, POLD1, POLE, POT1, PRSS1, PTCH1, PTEN, RAD50, RAD51C, RAD51D, RECQL, RET, RNF43, SDHA, SDHAF2, SDHB, SDHC, SDHD, SMAD4, SMARCA4, STK11, TGFBR2, TP53, TSC1, TSC2, VHL, WT1, XRCC2, XRCC3

CentoCancer® comprehensive

ABRAXAS1, ACVRL1, AKT1, APC, ATM, AXIN2, BAP1, BARD1, BLM, BMPR1A, BRCA1, BRCA2, BRIP1, BUB1B, CASR, CDC73, CDH1, CDK4, CDKN1B, CDKN1C, CDKN2A, CEBPA, CHEK2, CTNNA1, DDX41, DICER1, DIS3L2, EGFR, EPCAM, ETV6, EXT1, EXT2, FANCC, FH, FLCN, GALNT12, GATA2, GPC3, GREM1, HNF1A, HNF1B, HOXB13, HRAS, KIF1B, KIT, MAX, MC1R, MEN1, MET, MITF, MLH1, MLH3, MRE11, MSH2, MSH3, MSH6, MUTYH, NBN, NF1, NF2, NTHL1, PALB2, PDGFRA, PHOX2B, PIK3CA, PMS1, PMS2, POLD1, POLE, POT1, PRKAR1A, PRSS1, PTCH1, PTCH2, PTEN, RAD50, RAD51C, RAD51D, RB1, RECQL, REST, RET, RNF43, RPS20, RUNX1, SAMD9L, SDHA, SDHAF2, SDHB, SDHC, SDHD, SMAD4, SMARCA2, SMARCA4, SMARCB1, SMARCE1, STK11, SUFU, TERT, TGFBR2, TMEM127, TP53, TRIP13, TSC1, TSC2, VHL, WRN, WT1, XRCC2, XRCC3

CentoCardio™

ABCC9, ACTA2, ACTC1, ACTN2, ACVR2B, ACVRL1, AKAP9, ANK2, ANKRD1, ARHGAP31, ATM, B3GAT3, BAG3, BCOR, BMPR2, BRAF, CACNA1C, CACNB2, CALM1, CALM2, CASQ2, CAV3, CAVIN4, CBL, CDH2, CFAP53, CFC1, CHD7, CITED2, CLDN16, CLDN19, CNM2, COL1A1, COL1A2, COL3A1, COL4A1, COL4A2, COL5A1, COL5A2, CREBBP, CRELD1, CRYAB, CSRP3, CTNNA3, DES, DMD, DNAJC19, DOLK, DSC2, DSG2, DSP, DTNA, EFEMP2, EGF, EHMT1, ELN, EMD, ENG, EP300, EVC, EVC2, EYA4, FBN1, FBN2, FHL1, FKTN, FLNA, FLNC, FOXC1, FOXF1, FOXH1, FXYD2,

GAA, GATA4, GATA5, GATA6, GDF1, GDF2, GJA1, GJA5, GLA, GPC3, GPD1L, HCCS, HCN4, HFE, HRAS, HTRA1, ILK, JAG1, JPH2, JUP, KCNA1, KCNA5, KCND3, KCNE1, KCNE2, KCNE3, KCNH2, KCNJ2, KCNJ5, KCNK3, KCNQ1, KDM6A, KMT2D, KRAS, LAMA4, LAMP2, LDB3, LMNA, LZTR1, MAP2K2, MED12, MED13L, MEIS2, MFAP5, MIB1, MMP21, MMP3, MYBPC3, MYH11, MYH6, MYH7, MYL2, MYL3, MYLK, MYLK2, MYO6, MYOZ2, MYPN, NEBL, NEXN, NF1, NIPBL, NKX2-5, NKX2-6, NODAL, NOTCH1, NOTCH2, NOTCH3, NPPA, NR2F2, NRAS, NSD1, PDLIM3, PKD1L1, PKD2, PKP2, PLN, PRDM16, PRKAG2, PRKG1, PSEN1, PSEN2, PTPN11, RAF1, RASA1, RBM10, RBM20, RIT1, RYR2, SALL1, SALL4, SCN10A, SCN1B, SCN2B, SCN3B, SCN4B, SCN5A, SCO2, SDHA, SEMA3A, SGCD, SHOC2, SKI, SLC12A3, SLC22A5, SLC25A4, SLC2A10, SLMAP, SMAD3, SMAD4, SMAD6, SMC3, SNTA1, SOS1, SOS2, SOX2, STRA6, SYNE1, SYNE2, TAB2, TAZ, TBX1, TBX20, TBX5, TCAP, TFAP2B, TGFB2, TGFB3, TGFB1, TGFB2, TLL1, TMEM43, TNNC1, TNNI3, TNNT2, TPM1, TRDN, TREX1, TRIM63, TRPM4, TRPM6, TTN, TTR, VCL, ZEB2, ZFPM2, ZIC3

CentoColon

APC, ATM, AXIN2, BLM, BMPR1A, BRCA1, BRCA2, CDH1, CDKN2A, CHEK2, EPCAM, FLCN, GALNT12, MLH1, MLH3, MSH2, MSH3, MSH6, MUTYH, NBN, NTHL1, PALB2, PMS2, POLD1, POLE, PRSS1, PTEN, RNF43, SMAD4, STK11, TGFB2, TP53, VHL

CentoDysmorph

ABCB6, ABCC6, ACTA1, ACTA2, ACTB, ACTG1, ACVR2B, ADAMTS2, ADAMTSL2, ADGRG1, AFF4, AGPS, AGRN, AKT3, ALDH18A1, ALDH1A3, ALG2, ALPL, AMPD2, ANKH, ANKRD11, ANO5, AP4M1, ARFGF2, ARHGAP31, ARID1A, ARID1B, ARL13B, ARL6, ARSL, ARX, ASPM, ASXL1, ASXL3, ATP6V0A2, ATP7A, ATR, ATRX, B3GALNT2, B3GALT6, B3GAT3, B4GALT7, B4GAT1, B9D1, B9D2, BBS1, BBS10, BBS12, BBS2, BBS4, BBS5, BBS7, BBS9, BCOR, BGN, BIN1, BMP1, BMP4, BMPR1B, BRAF, C8orf37, CANT1, CASK, CASR, CBL, CBS, CC2D2A, CCDC28B, CCM2, CDK5RAP2, CDKN1C, CDON, CENPF, CENPJ, CEP135, CEP152, CEP164, CEP290, CEP63, CFAP53, CFC1, CFL2, CHAT, CHD7, CHMP1A, CHRNA1, CHRN1, CHRND, CHRNE, CHRNG, CHST14, CHSY1, CLCN5, COASY, COL10A1, COL11A1, COL11A2, COL12A1, COL1A1, COL1A2, COL2A1, COL3A1, COL4A1, COL5A1, COL5A2, COL6A1, COL6A2, COL6A3, COL9A1, COL9A2, COL9A3, COLQ, COMP, COX7B, CREB3L1, CREBBP, CRELD1, CRIPT, CRPPA, CRTAP, CUL7, CYP1B1, DAG1, DCX, DDR2, DHCR24, DHCR7, DMP1, DNM2, DOK7, DPAGT1, DSE, DYM, DYNC1H1, DYNC2H1, DYRK1A, EBP, ECE1, ECEL1, EDN3, EDNRB, EFEMP2, EFN1, EFTUD2, EGR2, EIF2AK3, ELN, ENPP1, ERCC1, ERCC2, ERCC5, ERCC6, ERF, ESCO2, EVC, EVC2, EXOSC3, FAS, FBLN5, FBN1, FBN2, FGF23, FGF8, FGFR1, FGFR2, FGFR3, FHL1, FKBP10, FKBP14, FKRP, FKTN, FLCN, FLNA, FLNB, FOXC1, FOXE3, FOXH1, FOXL2, FRAS1, FREM1, FREM2, GBA, GBE1, GDF1, GDF3, GDF5, GDF6, GDNF, GFPT1, GJA1, GLE1, GLI2, GLI3, GMPBP, GNAS, GNPAT, GORAB, GRIP1, HCCS, HDAC8, HESX1, HEXA, HMGB3, HMX1, HRAS, HSPG2, HUWE1, HYL5, IER3IP1, IFITM5, IFT122, IFT140, IFT172, IFT27, IFT43, IFT80, IL11RA, INPP5E, INPPL1, IRF6, ITGB4, KAT6B, KATNB1, KBTBD13, KDM5C, KDM6A, KIF11, KIF2A, KIF5C, KIF7, KIT, KLHL40, KLHL41, KMT2A, KMT2D, KNL1, KRAS, KRIT1, L1CAM, LAMA2, LAMA3, LAMB1, LAMB3, LAMC2, LARGE1, LBR, LEP, LEPR, LIFR, LMNA, LMOD3, LMX1B, LOX, LRP2, LRP5, LZTFL1, LZTR1, MAB21L2, MAGEL2, MAP2K1, MAP2K2, MASP1, MAT2A, MATN3, MBTPS2, MCPH1, MED12, MED17, MEGF8, MEIS2, MEOX1, MFAP5, MFRP, MFSD2A, MITF, MKKS, MKS1, MMP13, MMP21, MMP9, MSMO1, MSX1, MSX2, MTM1, MUSK, MYBPC1, MYCN, MYH11, MYH2, MYH3, MYH8, MYLK, MYO18B, MYO7A, NAA10, NALCN, NDE1, NDP, NEB, NECTIN1, NEK1, NF1, NF2, NHEJ1, NIPBL, NKX2-5, NKX3-2, NODAL, NOG, NOTCH1, NPHP1, NPHP3, NR0B2, NRAS, NRG1, NSDHL, OCRL, OFD1, ORC1, OTX2, P3H1, PAFAH1B1, PAX2, PAX3, PAX6, PCNT, PDCD10, PEX7, PHC1, PHEX, PHF6, PIEZO2, PIGV, PITX2, PKD2, PKHD1, PLK4, PLOD1, PLOD2, PMM2, PNKP, PNPLA6, POMC, POMGNT1, POMGNT2, POMK, POMT1, POMT2, POR, PPARG, PPIB, PQBP1, PRDM5, PRKAR1A, PRKG1, PROM1, PRPH2, PRSS56, PTC1, PTH1R, PTPN11, PYCR1, PYCR2, QARS1, RAB18, RAB23, RAB3GAP1, RAB3GAP2, RAD21, RAF1, RAPSN, RARB, RARS2, RASA1, RASA2, RAX, RBBP8, RBP4, RDH5, RELN, RET, RHO, RIN2, RIT1, RLBP1, ROR2, RPRG1, RPL10, RPS6KA3, RUNX2, RXYLT1, RYR1, SALL1, SALL2, SALL4, SASS6, SATB2, SBDS, SCN4A, SDCCAG8, SELENON, SEPSECS, SERPINF1, SERPINH1, SHH, SHOC2, SHROOM4, SIX3, SIX6, SKI, SLC25A19, SLC26A2, SLC2A10, SLC34A3, SLC35D1, SLC39A13, SLC5A7, SLC9A6, SMAD2, SMAD3, SMAD4, SMAD6, SMARCA2, SMARCA4, SMARCB1, SMARCE1, SMC1A, SMC3, SMCHD1, SMOC1, SNAI2, SOS1, SOS2, SOX10, SOX2, SOX9, SP7, SPRED1, STAMBP, STIL, STRA6, SUMO1, TAF6, TBC1D20, TBC1D24, TBX5, TCF12, TCF4, TCTN2, TCTN3, TENM3, TFAP2A, TGFB2, TGFB3, TGFB1, TGFB2, TGIF1, TK2, TMEM138, TMEM216, TMEM231, TMEM237, TMEM67, TNFRSF11B, TNNI2, TNNT1, TNNT3, TNXB, TOR1A, TP63, TPM2, TPM3, TRIM32, TRIP11, TRMT10A, TRPS1, TRPV4, TSC1, TSC2, TSEN2, TSEN54, TTC21B, TTC8, TUBA1A, TUBA8, TUBB, TUBB2A, TUBB2B, TUBB3, TUBG1, TUBGCP4, TUBGCP6, TWIST1, TYR, UBA1, VAMP1, VIPAS39, VLDLR, VPS13B, VPS53, VRK1, VSX2, WDPCP, WDR19, WDR34, WDR35, WDR60, WDR62, WNT1, WNT5A, WNT7A, YWHAE, ZEB2, ZIC2, ZIC3, ZNF335, ZNF423, ZNF469, AHI1, ARMC4, CCDC103, CCDC114, CCDC151, CCDC39, CCDC40, CCDC65, CCNO, CEP41, CFAP298, CILK1, CPLANE1, CSPP1, DAAAF1, DAAAF2, DAAAF3, DAAAF4, DAAAF5, DNAH11, DNAH5, DNAI1, DNAI2, DNAL1, DRC1, HYDIN, LEFTY2, LRRC6, NEK8, NME8, PDE6D, PKD1L1, RSPH1, RSPH4A, RSPH9, SPAG1, TCTN1, ZMYND10

CentoHear

ABHD12, ACTB, ACTG1, ADCY1, ADGRV1, AIFM1, ANKH, ATP2B2, ATP6V1B1, ATP6V1B2, BCS1L, BDP1, BSND, BTBD, CABP2, CACNA1D, CCDC50, CD151, CD164, CDC14A, CDH23, CDKN1C, CEACAM16, CEP78, CHD7, CHSY1, CIB2, CISD2, CLDN14, CLIC5, CLPP, CLRN1, COCH, COL11A1, COL11A2, COL2A1, COL4A3, COL4A4, COL4A5, COL4A6, COL9A1, COL9A2, COL9A3, CRYM, DCAF17, DCDC2, DIABLO, DIAPH1, DIAPH3, DLX5, DMXL2, DNMT1, DSPP, EDN3, EDNRB, ELMOD3, EPS8, EPS8L2, ESPN, ESRP1, ESRRB, EYA1, EYA4, FDXR, FGF3, FGFR1, FGFR2, FGFR3, FOXI1, GAB1, GATA3, GIPC3, GJA1, GJB2, GJB3, GJB6, GPRASP2, GPSM2, GRHL2, GRXCR1, GRXCR2, GSDME, HARS1, HARS2, HGF, HOMER2, HOXB1, HSD17B4, ILDR1, KARS1, KCNE1, KCNJ10, KCNQ1, KCNQ4, KIT, KITLG, LARS2, LHFPL5, LOXHD1, LRP2, LRTOMT, MAN2B1, MANBA, MARVELD2, MCM2, MET, MGP, MITF, MPZL2, MSRB3, MYH14, MYH9, MYO15A, MYO3A, MYO6, MYO7A, NARS2, NDP, NLRP3, OPA1,

OSBPL2, OTOA, OTOF, OTOG, OTOGL, P2RX2, PAX3, PCDH15, PDZD7, PEX1, PEX26, PEX6, PJVK, PMP22, PNPT1, POLR1C, POLR1D, POU3F4, POU4F3, PRPS1, RDX, RMND1, ROR1, RPS6KA3, S1PR2, SALL1, SALL4, SEMA3E, SERPINB6, SIX1, SIX5, SLC12A1, SLC17A8, SLC19A2, SLC26A4, SLC26A5, SLC29A3, SLC33A1, SLC44A4, SLC52A2, SLC52A3, SLITRK6, SMAD4, SMPX, SNAI2, SOX10, SOX2, SPATA5, STRC, SUCLA2, SUCLG1, SYNE4, TBC1D24, TBX1, TCOF1, TECTA, TFAP2A, TIMM8A, TJP2, TMC1, TMIE, TMPRSS3, TNC, TPRN, TRIOBP, TRMU, TSPEAR, TWNK, TYR, USH1C, USH1G, USH2A, VCAN, WBP2, WFS1, WHRN

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AARS1, AARS2, AASS, ABAT, ABCA12, ABCA3, ABCB11, ABCC8, ABCD1, ABCD3, ABCD4, ACAD8, ACAD9, ACADM, ACADS, ACADSB, ACADVL, ACAT1, ACO2, ACOX1, ACSF3, ACTA1, ACY1, ADA, ADAMTS13, ADAMTSL2, ADAR, ADK, ADNP, ADSL, AGA, AGK, AGL, AGPAT2, AGPS, AGRN, AGXT, AHCY, AICDA, AIFM1, AIMP1, AKAP9, AKR1D1, AKT2, ALAD, ALAS2, ALDH18A1, ALDH3A2, ALDH4A1, ALDH5A1, ALDH6A1, ALDH7A1, ALDOA, ALDOB, ALG1, ALG11, ALG12, ALG13, ALG14, ALG2, ALG3, ALG6, ALG8, ALG9, ALOX12B, ALOXE3, ALPL, ALS2, AMACR, AMN, AMPD1, AMT, ANK1, ANKRD26, ANKS6, ANTXR1, ANTXR2, AP2S1, AP4B1, AP4E1, AP4M1, AP4S1, APOB, APTX, ARG1, ARL6, ARSA, ARSB, ARX, ASAH1, ASL, ASNS, ASPA, ASPM, ASS1, ATIC, ATP1A3, ATP6V0A2, ATP6V1B1, ATP7A, ATP7B, ATP8B1, ATPAF2, ATR, ATRX, AUH, B3GLCT, B4GALT1, BCAP31, BCKDHA, BCKDHB, BCKDK, BCS1L, BDNF, BICD2, BIN1, BLNK, BOLA3, BRAF, BRAT1, BRCA2, BSCL2, BSND, BTD, BTK, C12orf65, CA12, CACNA1C, CACNB2, CALM1, CAMTA1, CASK, CASR, CAST, CAV1, CAV3, CAVIN1, CBS, CCDC103, CCDC114, CCDC78, CD19, CD247, CD320, CD3D, 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F5, F7, F8, F9, FADD, FAH, FANCA, FANCB, FANCC, FANCD2, FANCL, FARS2, FASTKD2, FBN1, FBP1, FBXL4, FGA, FGB, FGFR2, FGFR3, FGG, FH, FIG4, FKBP14, FKRP, FKTN, FOXC1, FOXC11, FOXP3, FOXRED1, FRAS1, FUCA1, G6PC, G6PD, GAA, GALT, GALE, GALK1, GALNS, GALT, GAMT, GAN, GARS1, GATA1, GATM, GBA, GBE1, GCDH, GCH1, GCK, GCSH, GDAP1, GFAP, GFM1, GFPT1, GJA1, GJB2, GJB4, GK, GLA, GLB1, GLDC, GLIS3, GLRA1, GLRB, GLUD1, GLYCK, GMPPB, GNAS, GNE, GNMT, GNPAT, GNPTAB, GP1BA, GP1BB, GP9, GPC3, GPHN, GPSM2, GSS, GUSB, GYS2, HADH, HADHA, HADHB, HAMP, HAX1, HBA1, HBA2, HBB, HCFC1, HESX1, HEXA, HEXB, HGD, HGF, HIBCH, HLCS, HMGCL, HMGCS2, HNF1A, HNF1B, HNF4A, HPD, HPGD, HRAS, HSD17B10, HSD17B4, HSD3B2, HSD3B7, HSPA9, HSPD1, HSPG2, ICOS, IDUA, IER3IP1, IFIH1, IFT172, IGF1, IGF1R, IGHMBP2, IGLL1, IKKB, IL12RB1, IL2RA, IL2RG, IL7R, INS, INSR, INVS, IRF8, ITGA2B, ITGA6, ITGA7, ITGB3, ITGB4, IVD, JAG1, JAGN1, JAK3, JAM3, KAT6A, KAT6B, KBTBD13, KCNE1, KCNH1, KCNH2, KCNJ10, KCNJ11, KCNQ1, KCNQ2, KCNQ3, KCNT1, KCTD7, 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ACTB, ADA, ADAR, AICDA, AIRE, AK2, AP3B1, ARMC4, ATM, BLM, BLNK, BLOC1S3, BTK, C3, CARD11, CASP10, CASP8, CCDC103, CCDC114, CCDC151, CCDC39, CCDC40, CCDC65, CCNO, CD19, CD247, CD3D, CD3E, CD3G, CD40, CD40LG, CD46, CD59, CD79A, CD79B, CD81, CFAP298, CFH, CFI, CFTR, CHD7, CLCN7, CLPB, CORO1A, CR2, CSF2RB, CSF3R, CTC1, CTLA4, CTPS1, CTSC, CXCR4, CYBA, CYBB, DCLRE1C, DGKE, DKC1, DNAAF1, DNAAF2, DNAAF3, DNAAF4, DNAAF5, DNAH11, DNAH5, DNAI1, DNAI2, DNAL1, DOCK8, DRC1, DTNBP1, ELANE, FADD, FAS, FASLG, FGA, FGB, FGG, FOXN1, FOXP3, G6PC3, G6PD, GF11, HAX1, HPS1, HPS3, HPS4, HPS5, HPS6, HYDIN, ICOS, IFIH1, IFNGR1, IFNGR2, IGLL1, IKKB, IKBK, IKZF1, IL12B, IL12RB1, IL12RB2, IL1RN, IL21R, IL2RA, IL2RG, IL7R, IRF8, ISG15, ITK, JAGN1, JAK3, KRAS, LAMTOR2, LIG4, LPIN2, LRBA, LRRC6, LRRC8A, LYST, MAGT1, MALT1, MCM4, MEFV, MOGS, MS4A1, MVK, NBN, NCF1, NCF2, NCF4, NFKB2, NFKBIA, NHEJ1, NHP2, NLRC4, NLRP12, NLRP3, NME8, NOD2, NOP10, NRAS, OFD1, PARN, PEPD, PIK3CD, PIK3R1, PLCG2, PNP, POLE, PRF1, PRKCD, PSTPIP1, PTPRC, RAB27A, RAC2, RAG1, RAG2, RANBP2, RBCK1, RFX5, RNASEH2A, RNASEH2B, RNASEH2C, RORC, RSPH1, RSPH4A, RSPH9, RTEL1, SAMD9, SAMHD1, SBDS, SERPING1, SH2D1A, SLC35C1, SLC7A7, SPAG1, SPINK5, SRP72, STAT1, STAT3, STAT5B, STIM1, STING1, STX11, STXB2, TAZ, TBX1, TCN2, TERT, THBD, TICAM1, TIN2, TLR3, TNFRSF13B, TNFRSF13C, TNFRSF1A, TREX1, TRNT1, TTC7A, TYK2, UNC13D, UNG, VPS13B, VPS45, WAS, WRAP53, XIAP, ZAP70, ZMYND10

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ABCA1, ABCB4, ABCC2, ABCD1, ABCD4, ABCG5, ABCG8, ACAT1, ADA, AGA, AGL, AGPS, AGXT, ALAD, ALAS2, ALDH4A1, ALDOA, ALDOB, ALG3, ALPL, ANTXR2, APOA2, APOA5, APOB, APOC2, APOE, ARG1, ARSA, ARSB, ASAH1, ASL, ASS1, ATP7A, ATP7B, BCKDHA, BCKDHB, BTBD, CBS, CD320, CETP, CLN3, CLN5, CLN6, CLN8, CPOX, CPS1, CPT1A, CTNS, CTS, CTSA, CTSD, CTSK, CYP11B1, CYP17A1, CYP19A1, CYP21A2, DBT, DDC, DHCR7, DIABLO, DLX4, DNAJC5, DPYD, ENO3, ENPP1, EPHX2, ETHE1, FAH, FBP1, FECH, FGF23, FUCA1, G6PC, G6PD, GAA, GALC, GALE, GALK1, GALNS, GALT, GAMT, GATM, GBA, GBE1, GHR, GK, GLA, GLB1, GM2A, GNPAT, GNPTAB, GNPTG, GNS, GUSB, GYG1, GYS1, GYS2, HCFC1, HEXA, HEXB, HFE, HGD, HGSNAT, HJV, HLCS, HMBS, HPD, HPRT1, HSD3B2, HYAL1, IDS, IDUA, ITIH4, IVD, KHK, LAMP2, LCAT, LDHA, LDLR, LDLRAP1, LIPA, LIPC, LIPI, LMBRD1, LPA, LPL, MAN2B1, MANBA, MCOLN1, MFSD8, MMAA, MMAB, MMACHC, MMADHC, MMUT, NAGA, NAGLU, NAGS, NEU1, NPC1, NPC2, OTC, PAH, PCSK9, PDHB, PEX1, PEX10, PEX12, PEX13, PEX14, PEX16, PEX19, PEX2, PEX26, PEX3, PEX5, PEX6, PEX7, PFKM, PGAM2, PGK1, PGM1, PHKA1, PHKA2, PHKB, PHKG2, PKLR, PNPO, POR, PPOX, PPP1R17, PPT1, PRKAG2, PSAP, PYGL, PYGM, RBCK1, SGSH, SI, SLC17A5, SLC22A5, SLC25A13, SLC25A15, SLC25A20, SLC25A36, SLC2A1, SLC2A2, SLC2A3, SLC37A4, SLC3A1, SLC3A2, SLC40A1, SLC6A19, SLC6A8, SLC7A7, SLC7A9, SLCO1B1, SLCO1B3, SMPD1, SUMF1, TAT, TFR2, TPP1, UGT1A1, UMPS, UROD, UROS

CentoMito® Genome

MT-ND1, MT-ND2, MT-CO1, MT-CO2, MT-ATP8, MT-ATP6, MT-CO3, MT-ND3, MT-ND4L, MT-ND4, MT-ND5, MT-ND6, MT-CYB, MT-TF, MT-RNR1, MT-TV, MT-RNR2, MT-TL1, MT-TI, MT-TQ, MT-TM, MT-TW, MT-TA, MT-TN, MT-TC, MT-TY, MT-TS1, MT-TD, MT-TK, MT-TG, MT-TR, MT-TH, MT-TS2, MT-TL2, MT-TE, MT-TT, MT-TP

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AARS2, AASS, ABAT, ABCB6, ABCB7, ABCD1, ABCD3, ACACA, ACAD8, ACAD9, ACADM, ACADS, ACADSB, ACADVL, ACAT1, ACO2, ACOX1, ACSF3, ACSL4, AFG3L2, AGK, AGXT, AIFM1, AK2, ALAS2, ALDH18A1, ALDH2, ALDH3A2, ALDH4A1, ALDH5A1, ALDH6A1, ALDH7A1, AMACR, AMT, APTX, ATIC, ATP5F1A, ATP5F1E, ATP7B, ATPAF2, ATXN2, AUH, BAX, BCKDHA, BCKDHB, BCKDK, BCL2, BCS1L, BOLA3, BRIP1, BTD, C12orf65, CA5A, CASP8, CAT, CAVIN1, CEL, CHCHD10, CISD2, CLPB, CLPP, COA5, COA6, COA8, COASY, COMT, COQ2, COQ4, COQ6, COQ8A, COQ8B, COQ9, COX10, COX14, COX15, COX20, COX4I2, COX6A1, COX6B1, COX7B, CPOX, CPS1, CPT1A, CPT1C, CPT2, CRBN, CYB5A, CYB5R3, CYC1, CYCS, CYP11A1, CYP11B1, CYP11B2, CYP24A1, CYP27A1, CYP27B1, D2HGDH, DARS2, DBT, DGUOK, DHCR24, DHODH, DHTKD1, DIABLO, DLAT, DLD, DMGDH, DMPK, DNA2, DNAJC19, DNAJC3, DNM1L, EARS2, ECHS1, ELAC2, EPHX2, ETFA, ETFB, ETFDH, ETHE1, FAH, FARS2, FASTKD2, FBXL4, FECH, FH, FKBP10, FOXRED1, FTH1, FXN, GARS1, GATM, GCDH, GCSH, GDAP1, GFER, GFM1, GFM2, GK, GLDC, GLRX5, GLUD1, GLYCK, GPI, GPT2, GPX1, GRHR, GSR, GTPBP3, HADH, HADHA, HADHB, HAMP, HARS2, HAX1, HCCS, HIBCH, HINT1, HK1, HLCS, HMBS, HMGCL, HMGCS2, HOGA1, HSD17B10, HSD17B4, HSD3B2, HSPA9, HSPD1, HTRA2, IARS2, IBA57, IDH2, IDH3B, ISCA2, ISCU, IVD, KARS1, KIF1B, KRT5, L2HGDH, LARS2, LIAS, LIPT1, LONP1, LRPPRC, LYRM7, MAOA, MARS2, MCCC1, MCCC2, MCEE, MFN2, MGME1, MICU1, MIP, MLH1, MLYCD, MMAA, MMAB, MMACHC, MMADHC, MMUT, MOCS1, MPC1, MPV17, MRPL3, MRPL44, MRPS16, MRPS22, MSRB3, MTFMT, MTO1, MTPAP, MTRR, MUTYH, NADK2, NAGS, NARS2, NBAS, NDUFA1, NDUFA10, NDUFA11, NDUFA12, NDUFA2, NDUFA9, NDUFAF1, NDUFAF2, NDUFAF3, NDUFAF4, NDUFAF5, NDUFAF6, NDUFB11, NDUFB3, NDUFB9, NDUFS1, NDUFS2, NDUFS3, NDUFS4, NDUFS6, NDUFS7, NDUFS8, NDUFV1, NDUFV2, NFU1, NNT, NTHL1, NUBPL, OAT, OGDH, OGG1, OPA1, OPA3, OTC, OXCT1, P4HB, PAM16, PANK2, PARK7, PC, PCCA, PCCB, PCK2, PDHA1, PDHB, PDHX, PDK3, PDP1, PDSS1, PDSS2, PDX1, PET100, PEX11B, PHYH, PINK1, PKLR, PNPLA8, PNPO, PNPT1, POLG, POLG2, PPOX, PRODH, PTRH2, PTS, PUS1, PYCR1, PYCR2, QDPR, RARS1, RARS2, RDH11, RMND1, RNASEH1, RNASEL, RPIA, RPL35A, RPS14, RRM2B, SARS2, SBDS, SCO1, SCO2, SDHA, SDHAF1, SDHAF2, SDHB, SDHC, SDHD, SECISBP2, SERAC1, SFXN4, SLC16A1, SLC19A3, SLC25A1, SLC25A12, SLC25A13, SLC25A15, SLC25A19, SLC25A20, SLC25A22, SLC25A3, SLC25A38, SLC25A4, SLC25A46, SLC9A6, SNAP29, SOD1, SOD2, SPG7, SPR, SPTLC2, STAR, SUCLA2, SUCLG1, SUGCT, SUOX, SURF1, TACO1, TARS2, TCIRG1, TFR2, TIMM8A, TK2, TMEM126A, TMEM70, TMLHE, TPI1, TPK1, TRMU, TRNT1, TSFM, TTC19, TUBB3, TUFM, TWNK, TYMP, UNG, UQCC2, UQCRB, UQCRC2, UQCRCQ, VARS2, WDR81, WF51, XPNPEP3, YARS2 + CentoMito Genome

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ABCB11, ABCB4, ABCC2, ACTN4, ACVR2B, AGPS, AHI1, AIPL1, AKR1D1, ALDOB, ALG8, ALPL, ANKH, ANKS6, ANO5, ANOS1, AP2S1, ARHGAP31, ARHGAP31, ARL13B, ARL6, ARMC4, ARSL, ATP6V0A4, ATP6V1B1, ATP8B1, ATR, B9D1, B9D2, BBS1, BBS10, BBS12, BBS2, BBS4, BBS5, BBS7, BBS9, BCS1L, BICC1, BMP1, BMPR1B, BSND, C8orf37, CA2, CABP4, CANT1, CASP10, CASR, CC2D2A, CCDC103, CCDC114, CCDC151, CCDC28B, CCDC39, CCDC40, CCDC65, CCNO, CD2AP, CDKN1C, CENPF, CENPJ, CEP152, CEP164, CEP290, CEP41, CEP63, CFAP298, CFAP53, CFC1, CFTR, CHD7, CHSY1, CILK1, CLCN5, CLCNKA, CLCNKB, CLDN16, CLDN19, CNGA3, COL10A1, COL4A1, COL4A3, COL4A4, COL4A5, COL9A3, COMP, COQ2, COQ6, COQ8B, COQ9, CPLANE1, CRB1, CRELD1, CRTAP, CRX, CSPP1, CTNS, CUBN, CUL3, CYP7B1, DDR2, DGKE, DGUOK, DHCR7, DMP1, DNAAF1, DNAAF2, DNAAF3, DNAAF4, DNAAF5, DNAH11, DNAH5, DNAI1, DNAI2, DNAL1, DRC1, DUSP6, DYM, DYNC2H1, EBP, EIF2AK3, ENPP1, ESCO2, EVC, EVC2, FAH, FAS, FASLG, FEZF1, FGF17, FGF23, FGF8, FGFR1, FKBP10, FLNB, FLRT3, FSHB, FXN4, GDF1, GDF5, GFM1, GHR, GLA, GLI2, GLI3, GLIS2, GNA11, GNAS, GNPAT, GNRH1, GNRHR, GUCY2D, HAMP, HESX1, HEXA, HFE, HNF1B, HNF4A, HS6ST1, HSD11B2, HSD3B7, HSPG2, HYDIN, HYLS1, IFITM5, IFT122, IFT140, IFT172, IFT27, IFT43, IFT80, IL17RD, IMPDH1, INF2, INPP5E, INPPL1, INVS, IQCB1, ITGA3, JAG1, KCNJ1, KCNJ10, KCNJ13, KCNJ5, KIF7, KISS1, KISS1R, KLHL3, LAMB2, LBR, LCA5, LCT, LEFTY2, LEP, LEPR, LHB, LHX3, LHX4, LIFR, LMX1B, LRAT, LRP5, LRRC6, LZTFL1, MAGI2, MATN3, MCEE, MERTK, MKKS, MKS1, MMAA, MMAB, MMADHC, MMP13, MMP21, MMP9, MMUT, MPV17, MYH9, MYO7A, NBAS, NEK1, NEK8, NEUROG3, NKX2-5, NKX3-2, NME8, NMNAT1, NODAL, NOG, NOTCH2, NPC1, NPC2, NPHP1, NPHP3, NPHP4, NPHS1, NPHS2, NROB1, NROB2, NR3C2, NSDHL, NSMF, OCRL, OFD1, OTX2, P3H1, PAX2, PCSK1, PDE6D, PDSS2, PEX1, PEX10, PEX12, PEX2, PEX26, PEX5, PEX6, PEX7, PHEX, PHF6, PKD1L1, PKD2, PKHD1, PLCE1, PLOD2, PMM2, PNPLA6, POLG, POLR3B, POMC, POU1F1, PPARG, PPIB, PRKAR1A, PROK2, PROKR2, PROM1, PROP1, PRPH2, PTH1R, RBBP8, RD3, RDH12, RDH5, RHO, RLBP1, RMND1, ROR2, RPE65, RPGRIP1, RPGRIP1L, RRM2B, RSPH1, RSPH4A, RSPH9, RUNX2, SALL1, SALL4, SBDS, SCARB2, SCNN1A, SCNN1B, SCNN1G, SDCCAG8, SEMA3A, SERPINA1, SERPINF1, SERPINH1, SLC12A1, SLC12A3, SLC25A13, SLC25A15, SLC26A2, SLC26A3, SLC2A2, SLC34A1, SLC34A3, SLC35D1, SLC4A1, SLC4A4, SLC4A1B1, SLC4A1B3, SMPD1, SOX10, SOX2, SOX3, SOX9, SPAG1, SPATA7, SPINT2, SPRY4, TAC3, TACR3, TBX5, TCTN1, TCTN2, TCTN3, TFR2, TJP2, TMEM138, TMEM216, TMEM231, TMEM237, TMEM67, TNFRSF11B, TRIM32, TRIP11, TRMU, TRPC6, TRPS1, TRPV4, TSC1, TSC2, TTC21B, TTC8, TULP1, UGT1A1, VHL, VIPAS39, WDPCP, WDR11, WDR19, WDR34, WDR35, WDR60, WDR73, WNK1, WNK4, WNT5A, WNT7A, WT1, ZIC3, ZMYND10, ZNF423

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ABCB11, ABCB4, ABCC2, ACTN4, ACVR2B, AGPS, AHI1, AIPL1, AKR1D1, ALDOB, ALG8, ALPL, ANKH, ANKS6, ANO5, ANOS1, AP2S1, ARHGAP31, ARHGADIA, ARL13B, ARL6, ARMC4, ARSL, ATP6V0A4, ATP6V1B1, ATP8B1, ATR, B9D1, B9D2, BBS1, BBS10, BBS12, BBS2, BBS4, BBS5, BBS7, BBS9, BCS1L, BICC1, BMP1, BMPR1B, BSND, C8orf37, CA2, CABP4, CANT1, CASP10, CASR, CC2D2A, CCDC103, CCDC114, CCDC151, CCDC28B, CCDC39, CCDC40, CCDC65, CCNO, CD2AP, CDKN1C, CENPF, CENPJ, CEP152, CEP164, CEP290, CEP41, CEP63, CFAP298, CFAP53, CFC1, CFTR, CHD7, CHSY1, CILK1, CLCN5, CLCNKA, CLCNKB, CLDN16, CLDN19, CNGA3, COL10A1, COL4A1, COL4A3, COL4A4, COL4A5, COL9A3, COMP, COQ2, COQ6, COQ8B, COQ9, CPLANE1, CRB1, CRELD1, CRTAP, CRX, CSPP1, CTNS, CUBN, CUL3, CYP7B1, DDR2, DGKE, DGUOK, DHCR7, DMP1, DNAAF1, DNAAF2, DNAAF3, DNAAF4, DNAAF5, DNAH11, DNAH5, DNAI1, DNAI2, DNAL1, DRC1, DUSP6, DYM, DYNC2H1, EBP, EIF2AK3, ENPP1, ESCO2, EVC, EVC2, FAH, FAS, FASLG, FEZF1, FGF17, FGF23, FGF8, FGFR1, FKBP10, FLNB, FLRT3, FSHB, FXYD2, GDF1, GDF5, GFM1, GHR, GLA, GLI2, GLI3, GLIS2, GNA11, GNAS, GNPAT, GNRH1, GNRHR, GUCY2D, HAMP, HESX1, HEXA, HFE, HNF1B, HNF4A, HS6ST1, HSD11B2, HSD3B7, HSPG2, HYDIN, HYLS1, IFITM5, IFT122, IFT140, IFT172, IFT27, IFT43, IFT80, IL17RD, IMPDH1, INF2, INPP5E, INPPL1, INVS, IQCB1, ITGA3, JAG1, KCNJ1, KCNJ10, KCNJ13, KCNJ5, KIF7, KISS1, KISS1R, KLHL3, LAMB2, LBR, LCA5, LCT, LEFTY2, LEP, LEPR, LHB, LHX3, LHX4, LIFR, LMX1B, LRAT, LRP5, LRRC6, LZTFL1, MAGI2, MATN3, MCEE, MERTK, MKKS, MKS1, MMEA, MMAB, MMADHC, MMP13, MMP21, MMP9, MMUT, MPV17, MYH9, MYO7A, NBAS, NEK1, NEK8, NEUROG3, NKX2-5, NKX3-2, NME8, NMNAT1, NODAL, NOG, NOTCH2, NPC1, NPC2, NPHP1, NPHP3, NPHP4, NPHS1, NPHS2, NR0B1, NR0B2, NR3C2, NSDHL, NSMF, OCRL, OFD1, OTX2, P3H1, PAX2, PCSK1, PDE6D, PDSS2, PEX1, PEX10, PEX12, PEX2, PEX26, PEX5, PEX6, PEX7, PHEX, PHF6, PKD1, PKD1L1, PKD2, PKHD1, PLCE1, PLOD2, PMM2, PNPLA6, POLG, POLR3B, POMC, POU1F1, PPARG, PPIB, PRKAR1A, PROK2, PROKR2, PROM1, PROP1, PRPH2, PTH1R, RBBP8, RD3, RDH12, RDH5, RHO, RLBP1, RMND1, ROR2, RPE65, RPRGIP1, RPRGIP1L, RRM2B, RSPH1, RSPH4A, RSPH9, RUNX2, SALL1, SALL4, SBDS, SCARB2, SCNN1A, SCNN1B, SCNN1G, SDCCAG8, SEMA3A, SERPINA1, SERPINF1, SERPINH1, SLC12A1, SLC12A3, SLC25A13, SLC25A15, SLC26A2, SLC26A3, SLC2A2, SLC34A1, SLC34A3, SLC35D1, SLC4A1, SLC4A4, SLCO1B1, SLCO1B3, SMPD1, SOX10, SOX2, SOX3, SOX9, SPAG1, SPATA7, SPINT2, SPRY4, TAC3, TACR3, TBX5, TCTN1, TCTN2, TCTN3, TFR2, TJP2, TMEM138, TMEM216, TMEM231, TMEM237, TMEM67, TNFRSF11B, TRIM32, TRIP11, TRMU, TRPC6, TRPS1, TRPV4, TSC1, TSC2, TTC21B, TTC8, TULP1, UGT1A1, VHL, VIPAS39, WDPCP, WDR11, WDR19, WDR34, WDR35, WDR60, WDR73, WNK1, WNK4, WNT5A, WNT7A, WT1, ZIC3, ZMYND10, ZNF423

CentoNeuro™

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RNASEH2C, RNASET2, RNF135, RNF170, ROGDI, ROR2, RPGRIP1L, RPIA, RPL10, RPS6KA3, RRM2B, RTN2, RUBCN, RXYLT1, RYR1, SACS, SALL1, SAMHD1, SASS6, SATB2, SBDS, SBF1, SBF2, SCARB2, SCN10A, SCN1A, SCN1B, SCN2A, SCN3A, SCN4A, SCN5A, SCN8A, SCN9A, SCO1, SCO2, SDCCAG8, SDHA, SDHAF1, SDHB, SDHD, SEC23B, SELENON, SEMA3A, SEPSECS, SERAC1, SERPINI1, SETBP1, SETD2, SETX, SGCA, SGCB, SGCD, SGCE, SGCG, SGSH, SH3TC2, SHANK2, SHH, SHOC2, SHROOM4, SIGMAR1, SIK1, SIL1, SIX3, SIX6, SKI, SLC12A3, SLC12A5, SLC12A6, SLC13A5, SLC16A1, SLC16A2, SLC17A5, SLC19A3, SLC1A2, SLC1A3, SLC20A2, SLC22A5, SLC25A1, SLC25A12, SLC25A13, SLC25A15, SLC25A19, SLC25A20, SLC25A22, SLC25A3, SLC25A4, SLC25A46, SLC27A4, SLC2A1, SLC2A10, SLC30A10, SLC33A1, SLC35A1, SLC35A2, SLC35A3, SLC35C1, SLC3A1, SLC4A1, SLC4A4, SLC52A3, SLC5A7, SLC6A1, SLC6A3, SLC6A5, SLC6A8, SLC6A9, SLC7A7, SLC9A6, SLC9A9, SLC10B3, SMAD4, SMARCA2, SMARCA4, SMARCB1, SMARCE1, SMC1A, SMC3, SMCHD1, SMN1, SMN2, SMPD1, SMS, SNAI2, SNAP29, SNCA, SNCB, SNIP1, SNTA1, 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AAAS, ABCB11, ABCC6, ABCC8, ABCD1, ACADM, ACADS, ACADSB, ACADVL, ACAT1, ACOX1, ADA, ADAMTS2, ADAR, ADGRG1, AGA, AGL, AGPS, AGXT, AIRE, ALDH3A2, ALDH7A1, ALDOB, ALG6, ALPL, AMT, AP1S1, AP3B1, AR, ARSA, ARSB, ASL, ASNS, ASPA, ASS1, ATM, ATP13A2, ATP6V1B1, ATP7B, BBS1, BBS10, BBS12, BBS2, BBS4, BBS7, BBS9, BCKDHA, BCKDHB, BCS1L, BLM, BSND, BTD, CANT1, CAPN3, CBS, CDH23,

CEP290, CERKL, CFTR, CHAT, CHM, CHRNE, CLN3, CLN5, CLN6, CLN8, CLRN1, CNGA3, CNGB3, COL4A3, COL4A4, COL4A5, COL7A1, COLQ, CPT1A, CPT2, CRB1, CRPPA, CTNS, CTSD, CTSF, CTSK, CYP11B1, CYP11B2, CYP17A1, CYP19A1, CYP1B1, CYP21A2, CYP27A1, CYP27B1, DBT, DCLRE1C, DHCR7, DHDDS, DKC1, DLD, DMD, DNAH5, DNAI1, DNAI2, DNAJCS, DOK7, DPYD, DYSF, EDA, EDAR, ELP1, EMD, ERCC2, ETFA, ETFB, ETFDH, ETHE1, EXOSC3, EYS, F11, F8, F9, FAH, FAM161A, FANCA, FANCC, FANCG, FH, FKR, FKTN, FMR1, G6PC, G6PD, GAA, GALC, GALE, GALK1, GALNT3, GALT, GAMT, GBA, GBE1, GCDH, GCSH, GDF5, GFPT1, GJB1, GJB2, GJB6, GLA, GLB1, GLDC, GNE, GNPAT, GNPTAB, GNPTG, GNS, GORAB, GRHPR, GRN, GUCY2D, HADH, HADHA, HADHB, HAX1, HBA1, HBA2, HBB, HEPACAM, HEXA, HEXB, HGD, HGSNAT, HJV, HLCS, HMGCL, HOGA1, HPRT1, HPS1, HPS3, HPS4, HPS5, HPS6, HSD17B3, HSD17B4, HSD3B2, IDS, IDUA, IL2RG, IVD, KCNJ11, KCTD7, L1CAM, LAMA3, LAMB3, LAMC2, LARGE1, LCA5, LHCGR, LIFR, LIPA, LIPH, LIPH, LOXHD1, LPL, LRPPRC, LYST, MAN2B1, MCCC1, MCCC2, MCOLN1, MED17, MEFV, MFSB8, MKKS, MKS1, MLC1, MAAA, MMAB, MMADHC, MMUT, MPI, MPL, MPV17, MRE11, MTHFR, MTM1, MTPP, MYO7A, NAGLU, NAGS, NBN, NDUFAF6, NEB, NPC1, NPC2, NPHS1, NPHS2, NTRK1, OPA3, OTC, PAH, PCCA, PCCB, PCDH15, PDHA1, PDHB, PEPD, PET100, PEX1, PEX10, PEX12, PEX2, PEX26, PEX6, PEX7, PFKM, PHGDH, PKHD1, PMM2, POLG, POMGNT1, POMT1, POMT2, PPT1, PRPS1, PSAP, PUS1, PYGL, PYGM, RAB23, RAG1, RAG2, RAPSN, RARS2, RDH12, RNASEH2A, RNASEH2B, RNASEH2C, RPE65, RS1, RTEL1, SACS, SAMD9, SAMHD1, SBDS, SEPSECS, SERPINA1, SGCA, SGCB, SGCG, SGSH, SLC12A3, SLC12A6, SLC17A5, SLC22A5, SLC25A15, SLC26A2, SLC26A4, SLC35A3, SLC39A4, SLC4A11, SLC6A8, SMN1, SMPD1, ST3GAL5, STAR, STS, SUMF1, TAT, TCIRG1, TECPR2, TFR2, TGM1, TH, TMEM216, TPP1, TREX1, TRIM37, TSEN2, TSEN34, TSEN54, TTC8, TTN, TTPA, UBR1, UGT1A1, USH1C, USH2A, VPS13A, VPS53, VRK1, XPA, XPC, ZFYVE26

CentoSkin

ABCA12, ALDH18A1, ALOX12B, ALOXE3, AP1S1, APCDD1, ATP6V0A2, ATP7A, CDSN, CERS3, CHST8, CLDN1, COL17A1, COL7A1, CSTA, CYP4F22, DSG1, DSG4, DSP, DST, EBP, EFEMP2, ELN, ERCC2, ERCC3, EXPH5, FBLN5, FERMT1, FLG, GJB2, GJB3, GJB4, GTF2H5, HR, ITGA3, ITGA6, ITGB4, JUP, KRT1, KRT10, KRT14, KRT2, KRT5, KRT71, KRT74, LAMA3, LAMB3, LAMC2, LIPH, LIPN, LORICRIN, LPAR6, MMP1, MPLKIP, NIPAL4, PEX7, PHYH, PKP1, PLEC, PNPLA1, POMP, PYCR1, RPL21, SLC27A4, SNAP29, SNRPE, SPINK5, ST14, STS, SUMF1, TGM1, TGM5

CentoVision

ABCA4, ABCB6, ABHD12, ACO2, ACVR1, ADAM9, ADGRV1, AFG3L2, AGK, AHI1, AIPL1, ALDH18A1, ALDH1A3, AP3B1, APTX, ARL13B, ARL6, ASB10, ATF6, AUH, B9D1, B9D2, BBS1, BBS10, BBS12, BBS2, BBS4, BBS5, BBS7, BBS9, BCOR, BEST1, BFSP1, BFSP2, BLOC1S3, BLOC1S6, BMP4, C12orf65, C1QTNF5, C8orf37, CA4, CABP4, CACNA1F, CACNA2D4, CANT1, CC2D2A, CCDC28B, CDH23, CDH3, CDHR1, CEP164, CEP290, CEP41, CERKL, CHD7, CHM, CHMP4B, CIB2, CISD2, CLCN7, CLN3, CLN5, CLN6, CLN8, CLPB, CLRN1, CNGA1, CNGA3, CNGB1, CNGB3, CNNM4, COL11A1, COL11A2, COL2A1, COL4A1, COL9A1, COL9A2, COL9A3, COX7B, CPLANE1, CRB1, CRX, CRYAA, CRYAB, CRYBA1, CRYBA4, CRYBB1, CRYBB2, CRYBB3, CRYGB, CRYGC, CRYGD, CRYGS, CSPP1, CTC1, CTDP1, CTNNB1, CTSD, CYP1B1, CYP27A1, DGUOK, DHDDS, DKC1, DNA2, DNAJC19, DNM1L, DTNBP1, EDN3, EDNRB, EFEMP1, ELOVL4, ENPP1, EPHA2, ERCC1, ERCC2, ERCC5, ERCC6, EYA1, EYS, FAM126A, FAM161A, FLVCR1, FOXC1, FOXE3, FOXL2, FRAS1, FREM1, FREM2, FSCN2, FTL, FYCO1, FZD4, GALE, GALK1, GALT, GBA, GCNT2, GDF3, GDF6, GJA1, GJA3, GJA8, GNAT2, GNPTG, GPR143, GRIP1, GRN, GUCA1A, GUCA1B, GUCY2D, HCCS, HESX1, HEXA, HGSNAT, HK1, HMX1, HPS1, HPS3, HPS4, HPS5, HPS6, HSF4, HTRA2, IDH3B, IFT140, IFT172, IFT27, IMPDH1, IMPG2, INPP5E, IQCB1, KCNJ13, KCNV2, KIF11, KIF7, KIT, KLHL7, LCA5, LEMD2, LEP, LEPR, LIM2, LMX1B, LOXL1, LRAT, LRMDA, LRP2, LRP5, LSS, LTBP2, LYST, LZTFL1, MAB21L2, MAF, MAK, MC1R, MERTK, MFN2, MFRP, MFSB8, MIP, MITF, MKKS, MKS1, MLPH, MYH9, MYO5A, MYO7A, MYOC, NAA10, NDP, NF2, NHS, NMNAT1, NPHP1, NPHP3, NPHP4, NR0B2, NR2F1, NRL, NTF4, OCA2, OCRL, OFD1, OPA1, OPA3, OPN1LW, OPN1MW, OPTN, OSTM1, OTX2, P3H2, PAX2, PAX3, PAX6, PCARE, PCDH15, PDE6A, PDE6B, PDE6C, PDE6G, PDE6H, PDZD7, PEX1, PEX2, PEX7, PHF6, PHYH, PIK3R5, PITPNM3, PITX2, PITX3, PLA2G5, PNKP, PNPLA6, POLG, POLG2, POMC, POMGNT1, PPARG, PPT1, PQBP1, PRCD, PRKCG, PROM1, PRPF3, PRPF31, PRPF6, PRPF8, PRPH2, PRPS1, PRSS56, RAB18, RAB27A, RAB3GAP1, RAB3GAP2, RARB, RAX, RAX2, RBP3, RBP4, RD3, RDH12, RDH5, RGR, RGS9, RGS9BP, RHO, RIMS1, RLBP1, ROM1, RP1, RP1L1, RP2, RPE65, RPGR, RPGRIP1, RPGRIP1L, RRM2B, RS1, RTN4IP1, SAG, SBF2, SDCCAG8, SEMA4A, SERAC1, SETX, SHH, SIL1, SIX3, SIX6, SLC16A12, SLC24A5, SLC25A4, SLC25A46, SLC33A1, SLC45A2, SLC9A6, SMCHD1, SMOC1, SNAI2, SNRNP200, SNX10, SOX10, SOX2, SPATA7, SPG7, STRA6, TBC1D20, TBK1, TCIRG1, TCTN1, TCTN2, TCTN3, TDRD7, TENM3, TFAP2A, TIMM8A, TIMP3, TK2, TMEM126A, TMEM138, TMEM216, TMEM231, TMEM237, TMEM67, TMEM70, TNFRSF11A, TNFSF11, TOPORS, TPP1, TRIM32, TRNT1, TSPAN12, TTC21B, TTC8, TTPA, TULP1, TWNK, TYMP, TYR, TYRP1, UNC45B, USH1C, USH1G, USH2A, VCAN, VIM, VPS13B, VSX2, WDCPCP, WDR19, WDR36, WFS1, WHRN, ZIC2, ZNF423, ZNF513

Ciliopathies panel

ACVR2B, AGPS, AHI1, ALPL, ANKH, ANO5, ARHGAP31, ARL13B, ARL6, ARMC4, ARSL, ATR, B9D1, B9D2, BBS1, BBS10, BBS12, BBS2, BBS4, BBS5, BBS7, BBS9, BMP1, BMP1B, C8orf37, CANT1, CASR, CC2D2A, CCDC103, CCDC114, CCDC151, CCDC28B, CCDC39, CCDC40, CCDC65, CCNO, CDKN1C, CENPF, CENPJ, CEP152, CEP164, CEP290, CEP41, CEP63, CFAP298, CFAP53, CFC1, CHSY1, CILK1, CLCN5, COL10A1, COL9A3, COMP, CPLANE1, CRELD1, CRTAP, CSPP1, DDR2, DHCR7, DMP1, DNAAF1, DNAAF2, DNAAF3, DNAAF4, DNAAF5, DNAH11, DNAH5, DNAI1, DNAI2, DNAL1, DRC1, DYM, DYNC2H1, EBP, EIF2AK3, ENPP1, ESCO2, EVC, EVC2, FGF23, FKBP10, FLNB, GDF1, GDF5, GLI2, GLI3, GNAS, GNPAT, HEXA, HSPG2, HYDIN, HYLS1, IFITM5, IFT122, IFT140, IFT172, IFT27, IFT43, IFT80, INPP5E, INPL1, KIF7, LBR, LEFTY2, LEP, LEPR, LIFR, LRP5, LRRC6, LZTFL1, MATN3, MKKS, MKS1, MMP13, MMP21, MMP9, MYO7A, NEK1, NEK8, NKX2-5, NKX3-2, NME8, NODAL, NOG, NPHP1, NPHP3, NR0B2, NSDHL, OFD1, P3H1, PDE6D, PEX7, PHEX, PHF6, PKD1L1, PKD2, PKHD1, PLOD2, PMM2, PNPLA6, POMC, PPARG, PPIB, PRKAR1A, PROM1,

PRPH2, PTH1R, RBBP8, RDH5, RHO, RLBP1, ROR2, RPKG1P1L, RSPH1, RSPH4A, RSPH9, RUNX2, SALL1, SALL4, SBDS, SDCCAG8, SERPINF1, SERPINH1, SLC26A2, SLC34A3, SLC35D1, SOX9, SPAG1, TBX5, TCTN1, TCTN2, TCTN3, TMEM138, TMEM216, TMEM231, TMEM237, TMEM67, TNFRSF11B, TRIM32, TRIP11, TRPS1, TRPV4, TTC21B, TTC8, WDPCP, WDR19, WDR34, WDR35, WDR60, WNT5A, WNT7A, ZIC3, ZMYND10, ZNF423

Congenital adrenal hyperplasia panel

CYP11A1, CYP11B1, CYP17A1, CYP21A2, HSD3B2, POR, PRKAR1A, STAR

Connective tissue and related disorders panel

ABCC6, ACTA2, ADAMTS2, ADAMTSL2, ALDH18A1, ATP6V0A2, ATP7A, B3GALT6, B3GAT3, B4GALT7, BGN, CBS, CHST14, COL11A1, COL11A2, COL12A1, COL1A1, COL1A2, COL2A1, COL3A1, COL5A1, COL5A2, COL9A1, COL9A2, COL9A3, CREB3L1, DSE, EFEMP2, ELN, FBLN5, FBN1, FBN2, FKBP14, FLCN, FLNA, FOXE3, GORAB, ITGB4, KCNJ13, LAMA3, LAMB3, LAMC2, LOX, LRP2, MAT2A, MBTPS2, MED12, MFAP5, MYH11, MYLK, NOTCH1, PLOD1, PRDM5, PRKG1, PYCR1, RIN2, SKI, SLC2A10, SLC39A13, SMAD2, SMAD3, SMAD4, SMAD6, SP7, TGFB2, TGFB3, TGFB1, TGFB2, TNXB, VCAN, WNT1, ZNF469

Dementia panel

ALS2, ANG, APOE, APP, ARSA, ATL1, ATP7B, ATXN2, BSCL2, C9ORF72, CHCHD10, CHMP2B, CP, CSF1R, DCTN1, ERBB4, FIG4, FTL, FUS, GRN, HEXA, HNRNPA1, HSPD1, ITM2B, KIF5A, MAPT, MATR3, NEFH, NOTCH3, NPC1, OPTN, PANK2, PFN1, PRNP, PRPH, PSEN1, PSEN2, REEP1, SETX, SIGMAR1, SLC52A3, SNCA, SOD1, SORL1, SPAST, SPG11, SQSTM1, TARDBP, TBK1, TREM2, TUBA4A, TYROBP, UBE3A, UBQLN2, VAPB, VCP, WASHC5

Diabetes and obesity panel

ABCA1, ABCC8, ACAT1, ACSF3, AFF4, AGL, AKT2, ALDOA, ALDOB, ALG1, ALG11, ALG12, ALG13, ALG2, ALG3, ALG6, ALG8, ALG9, APOA1, APOA5, APOB, APOC2, APOE, ARL13B, ARL6, ATP6V0A2, B4GALT1, BBS1, BBS10, BBS12, BBS2, BBS4, BBS5, BBS7, BBS9, BDNF, BLK, C8orf37, CC2D2A, CCDC28B, CEL, CEP164, CEP290, CHD2, CISD2, COG1, COG4, COG5, COG6, COG7, COG8, CP, CREBBP, CUL4B, CYP27A1, DDOST, DHDDS, DOLK, DPM1, DPM2, DPM3, DYRK1B, EIF2AK3, ENO3, ENPP1, EPM2A, FBP1, FOXP3, G6PC, GAA, GATA6, GBE1, GCK, GHR, GLI3, GLIS3, GLUD1, GMPPA, GNAS, GNE, GPIHBP1, GYG1, GYS1, GYS2, HADH, HEXA, HMGCL, HMGCS2, HNF1A, HNF1B, HNF4A, IER3IP1, IFT172, IFT27, INPP5E, INS, INSR, KCNJ11, KIF7, KLF11, LAMP2, LARGE1, LDHA, LDLR, LDLRAP1, LEP, LEPR, LIPA, LIPE, LPL, LZTFL1, MAGEL2, MAN1B1, MC4R, MGAT2, MKKS, MKS1, MOGS, MPDU1, MPI, MPV17, MTPP, MYO5A, MYO7A, NDN, NEUROD1, NEUROG3, NGLY1, NHLRC1, NPHP1, NPHP3, NR0B2, NTRK2, OFD1, OXCT1, PAX4, PC, PCK1, PCNT, PCSK1, PCSK9, PDX1, PFKM, PGAM2, PGK1, PGM1, PHF6, PHKA1, PHKA2, PHKB, PHKG2, PMM2, PNPLA6, POMC, PPARG, PRKAG2, PROM1, PRPH2, PTF1A, PYGL, PYGM, RAB23, RAI1, RBCK1, RDH5, RFT1, RFX6, RHO, RLBP1, RPKG1P1L, RPS6KA3, SDCCAG8, SIM1, SLC16A1, SLC19A2, SLC2A2, SLC35A1, SLC35A2, SLC35C1, SPG11, SRD5A3, SSR4, STT3A, STT3B, TMEM165, TMEM67, TRIM32, TTC21B, TTC8, TUSC3, UCP2, UCP3, VPS13B, WDPCP, WFS1, ZFP57

Dystonia panel

ADAR, ADCY5, ANO3, ARSA, ATM, ATP13A2, ATP1A3, ATP7B, BCAP31, BTBD9, C19orf12, CACNA1B, CBS, CLN3, CLN5, CLN6, CLN8, COASY, COL6A3, CP, CTSB, CTSF, D2HGDH, DCAF17, DDC, DNAJC5, ECHS1, FA2H, FTL, FUCA1, GALC, GALT, GAMT, GATM, GCDH, GCH1, GLB1, GM2A, GNAL, GRN, HPCA, HPRT1, KCNMA1, KCTD17, KCTD7, MCEE, MFSD8, MAAA, MMAB, MMADHC, MMUT, NPC1, NPC2, PAH, PANK2, PLA2G6, PLP1, PNKD, POLG, PPT1, PRKN, PRKRA, PRRT2, RELN, RNASEH2A, RNASEH2B, RNASEH2C, SAMHD1, SERAC1, SGCE, SLC19A3, SLC20A2, SLC2A1, SLC30A10, SLC6A3, SLC6A8, SPR, SUCLA2, TH, THAP1, TIMM8A, TOR1A, TPP1, TREX1, TUBB4A, VPS13A, WDR45, XK

Epilepsy panel

AARS1, AARS2, ABCC8, ABCD1, ABCD3, ACAD9, ACADM, ACADS, ACADVL, ACOX1, ACY1, ADA, ADAMTSL2, ADAR, ADGRG1, ADSL, AFG3L2, AGA, AGK, AGPS, AIFM1, AIMP1, ALDH3A2, ALDH5A1, ALDH7A1, ALDOB, ALG1, ALG11, ALG12, ALG13, ALG2, ALG3, ALG6, ALG8, ALG9, AMT, ANTXR2, AP3B1, AP4B1, AP4E1, AP4M1, AP4S1, APP, APTX, ARG1, ARHGFB9, ARSA, ARSB, ARV1, ARX, ASAH1, ASL, ASPA, ASS1, ATM, ATP13A2, ATP1A2, ATP6V0A2, ATP7A, ATP7B, ATPAF2, AUH, B3GALNT2, B3GLCT, B4GALT1, BCAP31, BCKDHA, BCKDHB, BCS1L, BEST1, BOLA3, BRAT1, BTBD9, C12orf65, C19orf12, CA5A, CACNA1A, CACNA1H, CACNB4, CASK, CAV1, CDKL5, CERS1, CHD2, CHRNA2, CHRNA4, CHRN2, CLCN2, CLCN4, CLDN16, CLDN19, CLN3, CLN5, CLN6, CLN8, CLPP, CNNM2, CNTNAP2, COA8, COASY, COG1, COG4, COG5, COG6, COG7, COG8, COL11A2, COL2A1, COL4A1, COL4A2, COQ2, COQ8A, COQ9, COX10, COX15, COX20, COX6B1, CP, CPA6, CPS1, CPT1A, CPT2,

CSF1R, CSTB, CTC1, CTNS, CTSA, CTSC, CTSD, CTSF, CTSK, CYP27A1, CYP2U1, CYP7B1, D2HGDH, DAG1, DARS2, DBT, DCAF17, DDOST, DEPDC5, DGUOK, DHCR7, DHDDS, DKC1, DLAT, DLD, DNAJC5, DNM1, DNM1L, DOCK7, DOLK, DPAGT1, DPM1, DPM2, DPM3, DPYD, DYM, DYRK1A, EARS2, ECHS1, EEF1A2, EFHC1, EGF, EIF2B1, EIF2B2, EIF2B3, EIF2B4, EIF2B5, EPM2A, ERCC6, ETFA, ETFB, ETFDH, ETHE1, F2, F5, FA2H, FAH, FAM126A, FARS2, FASTKD2, FBN1, FBXL4, FGF12, FH, FHL1, FOLR1, FOXG1, FOXRED1, FRRS1L, FTL, FUCA1, FXVD2, GAA, GABRA1, GABRB3, GABRD, GABRG2, GALC, GALNS, GALT, GAMT, GAN, GBA, GBE1, GCDH, GCSH, GFAP, GFER, GFM1, GFM2, GFPT1, GJA1, GJB1, GJC2, GLA, GLB1, GLDC, GLUD1, GLUL, GM2A, GMPPA, GNAO1, GNE, GNPAT, GNPTAB, GNPTG, GNS, GOSR2, GPC3, GRIN1, GRIN2A, GRIN2B, GRN, GTPBP3, GUF1, GUSB, HADHA, HADHB, HCFC1, HCN1, HEPACAM, HEXA, HEXB, HGSNAT, HIBCH, HLCS, HMGCL, HMGCS2, HNRNPU, HRAS, HSD17B4, HSPD1, HTRA1, HYAL1, IARS2, IBA57, IDS, IDUA, IFIH1, IQSEC2, ISCA2, ITPA, IVD, JAG1, JAM3, KCNA1, KCNA2, KCNB1, KCNC1, KCNJ10, KCNMA1, KCNQ2, KCNQ3, KCNT1, KCTD7, KIF5A, L2HGDH, LAMA2, LAMB1, LAMP2, LARGE1, LDB3, LGI1, LIAS, LIPA, LIPT1, LMNB1, LRPPRC, LYRM7, LYST, MAGT1, MAN1B1, MAN2B1, MANBA, MARS2, MBD5, MCCC1, MCCC2, MCOLN1, MECP2, MED17, MEF2C, MFN2, MFS2D8, MGAT2, MGME1, MLC1, MLPH, MMAA, MMAB, MMACHC, MMADHC, MMUT, MOCS1, MOCS2, MOGS, MPDU1, MPI, MPV17, MRPL44, MRPS22, MTFMT, MTHFR, MTOR, MTR, MYO5A, MYOT, NAGA, NAGLU, NAGS, NARS2, NBAS, NDUFA1, NDUFA10, NDUFA11, NDUFA12, NDUFA2, NDUFA9, NDUFAF1, NDUFAF2, NDUFAF4, NDUFAF5, NDUFAF6, NDUFS1, NDUFS2, NDUFS3, NDUFS4, NDUFS6, NDUFS7, NDUFS8, NDUFV1, NDUFV2, NECAP1, NEDD4L, NEU1, NFU1, NGLY1, NHLRC1, NOTCH3, NPC1, NPC2, NRXN1, NUBPL, OAT, OCLN, OCRL, OPA1, OPA3, OTC, PAH, PANK2, PC, PCCA, PCCB, PCDH19, PDHA1, PDHB, PDHX, PDP1, PDSS1, PDSS2, PET100, PEX1, PEX10, PEX11B, PEX12, PEX13, PEX14, PEX16, PEX19, PEX2, PEX26, PEX3, PEX5, PEX6, PEX7, PGK1, PGM1, PHYH, PIGA, PIGO, PIGV, PLA2G6, PLCB1, PLCG2, PLP1, PMM2, PNKP, PNPO, PNPT1, POLG, POLG2, POLR3A, POLR3B, PPT1, PRICKLE1, PRODH, PRRT2, PSAP, PSEN1, PTS, PURA, PYCR2, QARS1, QDPR, RAB27A, RAI1, RARS1, RARS2, RBFOX1, RELN, RFT1, RNASEH2A, RNASEH2B, RNASEH2C, RNASET2, ROGDI, RPIA, RRM2B, SAMHD1, SCARB2, SCN1A, SCN1B, SCN2A, SCN3A, SCN8A, SCN9A, SCO1, SCO2, SDHA, SDHAF1, SDHB, SDHD, SEC23B, SERAC1, SERPINI1, SGCE, SGSH, SIK1, SLC12A3, SLC12A5, SLC13A5, SLC16A2, SLC17A5, SLC19A3, SLC1A2, SLC22A5, SLC25A1, SLC25A12, SLC25A13, SLC25A15, SLC25A20, SLC25A22, SLC25A3, SLC25A4, SLC2A1, SLC35A1, SLC35A2, SLC35C1, SLC6A1, SLC6A8, SLC7A7, SLC9A6, SMC1A, SMPD1, SNTA1, SOX10, SPART, SPG11, SPG7, SPTAN1, SRD5A3, SSR4, ST3GAL3, ST3GAL5, STAT1, STT3A, STT3B, STX1B, STXB1, SUCLA2, SUCLG1, SUMF1, SUOX, SURF1, SYN1, SYNE1, SYNGAP1, SYNJ1, SZT2, TACO1, TBC1D24, TBCE, TCF4, TGFB1, TIMM8A, TINF2, TK2, TMEM126A, TMEM165, TMEM70, TPK1, TPP1, TREM2, TREX1, TRPM6, TRPV4, TSC1, TSC2, TSFM, TTC19, TUBB4A, TUFM, TUSC3, TWNK, TYMP, TYROBP, UBE3A, UMPS, UQCRCQ, WDR45, WFS1, WWOX, ZEB2, ZFYVE26

Infertility panel

ANOS1, AR, ARL13B, ARL6, BBS1, BBS10, BBS12, BBS2, BBS4, BBS5, BBS7, BBS9, BMP15, C8orf37, CATSPER1, CC2D2A, CCDC28B, CEP164, CEP290, CFTR, CHD7, DUSP6, ENPP1, FEZF1, FGF17, FGF8, FGFRL1, FLRT3, FMR1, FSHB, FSHR, GNRH1, GNRHR, HESX1, HEXA, HFE, HS6ST1, IFT172, IFT27, IL17RD, INPP5E, KIF7, KISS1, KISS1R, LEP, LEPR, LHB, LHCGR, LHX3, LHX4, LZTFL1, MKKS, MKS1, MYO7A, NPHP1, NPHP3, NR0B1, NR0B2, NR5A1, NSMF, OFD1, PCSK1, PHF6, PNPLA6, POLR3B, POMC, POU1F1, PPARG, PROK2, PROKR2, PROM1, PROP1, PRPH2, RDH5, RHO, RLBP1, RPGRIP1L, SDCCAG8, SEMA3A, SOX10, SOX2, SOX3, SPRY4, SRY, TAC3, TACR3, TMEM67, TRIM32, TTC21B, TTC8, TUBB8, WDPCP, WDR11, ZP1

Intellectual disability panel

ABAT, ABCD1, ACE, ACSL4, ACTB, ACTG1, ACTN4, ADA, ADAR, ADCY5, ADGRG1, ADK, ADNP, ADSL, AFF2, AHI1, AIMP1, AKAP9, AKT3, ALDH18A1, ALDH5A1, ALDH7A1, ALG11, ALG13, ALX4, AMPD1, AMPD2, AMT, ANK2, ANK3, ANKRD11, AP1S1, AP1S2, AP3B1, AP4B1, AP4M1, ARFGEF2, ARHGEF10, ARHGEF6, ARHGEF9, ARID1A, ARID1B, ARL13B, ARX, ASAH1, ASCL1, ASPM, ASXL1, ASXL3, ATP13A2, ATP1A3, ATP6AP2, ATP6V0A2, ATP7A, ATP8A2, ATR, ATRX, AUTS2, B3GALNT2, B4GAT1, B9D1, B9D2, BBS4, BCAP31, BCKDK, BCOR, BCS1L, BDNF, BLOC1S3, BLOC1S6, BRAF, BRCA2, BRWD3, C12orf57, C12orf65, C19orf12, CA2, CA8, CACNA1A, CACNA1C, CACNA1D, CACNA1F, CACNA1H, CACNB2, CAMTA1, CARD11, CASK, CBS, CC2D1A, CC2D2A, CCDC40, CCDC88C, CDH15, CDK5RAP2, CDKL5, CDON, CENPF, CENPJ, CEP135, CEP152, CEP290, CEP41, CEP63, CHD2, CHD7, CHD8, CHMP1A, CHRM3, CIB2, CLCN4, CLIC2, CLN8, CNGB3, CNTNAP2, COASY, COL4A1, CPLANE1, CPT2, CRADD, CRBN, CREBBP, CRIPT, CRPPA, CSPP1, CTC1, CTNNA3, CTNNB1, CUL3, CUL4B, CUL7, CYB5R3, CYP11B1, CYP27A1, DARS2, DCAF17, DCX, DDC, DDX3X, DHCR7, DKC1, DLG3, DNM1, DOCK8, DPYD, DRD3, DST, DTNBP1, DYM, DYNC1H1, DYRK1A, EDN3, EDNRB, EEF1A2, EFTUD2, EHMT1, EIF2B1, EIF2B2, EIF2B3, EIF2B4, EIF2B5, EIF4E, ELOVL4, EMX2, EP300, EPB41L1, ESRRB, ETFB, EXOSC3, FAM126A, FANCB, FBN1, FGA, FGD1, FGFR2, FGFR3, FH, FKR, FKTN, FLNA, FLVCR1, FMR1, FOLR1, FOXC1, FOXG1, FOXL2, FOXP1, FOXP2, FTL, FTO, FTSJ1, G6PD, GABRB3, GAD1, GAMT, GATM, GCK, GDI1, GDNF, GFAP, GIGYF2, GJC2, GK, GLI2, GLRB, GMPPA, GMPPB, GNAO1, GNAS, GPC3, GPHN, GPT2, GPX1, GRIA3, GRID2, GRIK2, GRIN1, GRIN2A, GRIN2B, GRIP1, HBB, HCCS, HCFC1, HCN1, HDAC4, HDAC8, HEPACAM, HERC2, HNRNPU, HOXA1, HPRT1, HPS1, HPS4, HPS5, HPS6, HRAS, HSD17B10, HSPD1, HUWE1, HYDIN, IDS, IER3IP1, IFIH1, IGBP1, IGF1, IGF1R, IL1RAPL1, INPP5E, INVS, IQSEC2, IRX5, ITGA7, ITGB3, ITPR1, JAG1, KANK1, KAT6A, KAT6B, KATNB1, KCNB1, KCNC1, KCNC3, KCND3, KCNJ10, KCNK9, KCNMA1, KCNQ2, KCNQ3, KDM5C, KDM6A, KIF11, KIF1A, KIF5C, KIF7, KIRREL3, KMT2A, KMT2C, KMT2D, KNL1, KRAS, L1CAM, LAMA1, LAMA2, LAMB1, LAMC3, LAMP2, LARGE1, LEP, LINS1, LMX1B, LRBA, LRP2, LZTR1, MAGEL2, MAGT1, MAN1B1, MAOA, MBD5, MBTPS2, MCCC2, MCM4, MCPH1, MECP2, MED12, MED13L, MED17, MED23, MEF2C, MEGF10, MEIS2, MET, MFRP, MFS2D2A, MGAT2, MIB1, MID1, MITE, MKKS, MKS1, MLC1, MPDZ, MSMO1, MTHFR, MTM1, MTOR, MTR, MYCN, MYO5A, NAA10, NAGA, NALCN, NDE1, NDP, NDST1, NDUFA1, NECTIN1, NEXMIF, NF1, NFIX, NHEJ1, NHS, NIPA1, NIPBL, NLGN3, NLGN4X, NOTCH2, NPHP1, NPHP3, NR2F1, NR3C2, NRXN1, NSD1, NSDHL, NSUN2, NTRK1, NXF5, OCLN, OCRL, OFD1, OPHN1, ORC1, OTC, PFAH1B1, PAH, PAK3, PANK2, PAX3, PAX6, PCDH15, PCDH19, PCNT, PDE6D, PDHA1, PEX1, PEX10, PEX11B, PEX12, PEX13, PEX14, PEX16, PEX19, PEX2, PEX26, PEX3, PEX5, PEX6, PEX7, PGAP1, PGK1, PHC1,

PHF6, PHF8, PIGA, PIGL, PIGN, PIGO, PIGV, PIK3R2, PITX2, PLA2G6, PLCB1, PLK4, PLN, PLP1, PNKP, POGZ, POLR3A, POLR3B, POMGNT1, POMGNT2, POMK, POMT1, POMT2, PORCN, POT1, PPOX, PPT1, PQBP1, PRICKLE1, PRKN, PRODH, PRPS1, PRSS12, PTCH1, PTEN, PTPN11, PTPRC, PTS, PURA, PYCR1, PYCR2, QARS1, RAB18, RAB39B, RAB3GAP1, RAB3GAP2, RAD21, RAI1, RARS2, RBBP8, RBF1, RBFOX1, RBM10, RELN, RET, RIMS1, RNASEH2A, RNASEH2B, RNASEH2C, ROGDI, ROR2, RPGRIP1L, RPL10, RPS6KA3, RXYLT1, SALL1, SAMHD1, SASS6, SATB2, SBF1, SCN1A, SCN2A, SCN4A, SCN8A, SCN9A, SCO2, SDCCAG8, SDHA, SEPSECS, SETBP1, SETD2, SGCA, SHANK2, SHH, SHROOM4, SIL1, SIX3, SLC12A5, SLC16A2, SLC25A12, SLC25A15, SLC25A19, SLC27A4, SLC2A1, SLC35A2, SLC35A3, SLC4A4, SLC6A1, SLC6A3, SLC6A8, SLC7A7, SLC9A6, SLC9A9, SLCO1B3, SMAD4, SMARCA2, SMARCA4, SMARCB1, SMARCE1, SMC1A, SMC3, SMPD1, SMS, SNAI2, SNAP29, SNIP1, SOBP, SOD1, SOX10, SOX2, SOX3, SPAST, SRD5A3, ST3GAL3, STAMBP, STIL, STRA6, STXB1, SYN1, SYNE1, SYNGAP1, SYNJ1, SYP, TAF2, TAF6, TBC1D20, TBC1D24, TBCE, TBL1XR1, TBX1, TCF4, TCTN1, TCTN2, TCTN3, TECP, TECTA, TFAP2A, TGIF1, THRA, TIMM8A, TINF2, TMCO1, TMEM138, TMEM216, TMEM231, TMEM237, TMEM67, TMLHE, TPO, TRAPPC9, TREX1, TRMT10A, TRPC6, TSC1, TSC2, TSEN2, TSEN34, TSEN54, TSPAN7, TTC21B, TTI2, TTN, TUBA1A, TUBA8, TUBB2B, TUBB3, TUBB4A, TUBGCP4, TUBGCP6, TUSC3, TYR, UBE2A, UBE3A, UBR1, UPF3B, USH2A, USP9X, VDR, VLDLR, VPS13B, VPS53, VRK1, WAC, WDR45, WDR62, WDR81, WNT1, WNT5A, WWOX, YWHAE, ZBTB18, ZDHHC9, ZEB2, ZFYVE26, ZIC2, ZIC3, ZNF335, ZNF41, ZNF423, ZNF711, ZNF81

Myeloid tumor panel

ASXL1, ATM, CBL, CDKN2A, CEBPA, CREBBP, DNMT3A, ETV6, EZH2, FLT3, GATA2, HRAS, IDH1, IDH2, JAK2, KIT, KRAS, NF1, NOTCH1, NPM1, NRAS, PDGFRB, PHF6, PTPN11, RAD21, RUNX1, SF3B1, SMC1A, SMC3, SRSF2, STAG2, TET2, TP53, U2AF1, WT1

Neuromuscular panel

AARS1, ABHD5, ACAD9, ACADM, ACADVL, ACTA1, AGL, AGRN, AHCY, AIFM1, ALDOA, ALG14, ALG2, AMPD1, ANO5, ARHGEF10, ARHGEF9, ASAH1, ATL1, ATP2A1, ATP7A, B3GALNT2, B4GAT1, BAG3, BICD2, BIN1, BSCL2, CACNA1S, CAPN3, CASK, CAV1, CAV3, CCDC78, CFL2, CHAT, CHCHD10, CHKB, CHRNA1, CHRNB1, CHRND, CHRNE, CHRNG, CHST14, CLCN1, CNTN1, COL12A1, COL6A1, COL6A2, COL6A3, COLQ, COQ2, COX6A1, CPT2, CRPPA, CRYAB, CSRP3, CTDP1, DAG1, DCTN1, DES, DGUOK, DHCR24, DHTKD1, DMD, DMPK, DNA2, DNAJB2, DNAJB6, DNMT2, DNMT1, DOK7, DPAGT1, DPM1, DPM2, DPM3, DYNC1H1, DYSF, ECEL1, EGR2, ELP1, EMD, ENO3, ERCC5, ERCC6, ETFA, ETFB, ETFDH, EXOSC3, EXOSC8, FBLN5, FBN2, FBXO38, FGD4, FHL1, FIG4, FKBP10, FKR, FKTN, FLNC, GAA, GAN, GARS1, GBA, GBE1, GDAP1, GFPT1, GJB1, GLE1, GLRA1, GLRB, GMPPB, GNB4, GNE, GPHN, GYG1, GYS1, HADHA, HADHB, HINT1, HK1, HNRNPDL, HOXD10, HRAS, HSPB1, HSPB3, HSPB8, HSPG2, IGHMBP2, INF2, ISCU, ITGA7, KARS1, KAT6B, KBTBD13, KCNA1, KCNE3, KIF1A, KIF1B, KIF5A, KLHL40, KLHL41, LAMA2, LAMB2, LAMP2, LARGE1, LDB3, LDHA, LIMS2, LITAF, LMNA, LMOD3, LPIN1, LRSAM1, MAGEL2, MAMLD1, MARS1, MATR3, MED25, MEGF10, MFN2, MICU1, MPV17, MPZ, MTM1, MTMR14, MTMR2, MUSK, MYBPC1, MYBPC3, MYH2, MYH3, MYH7, MYH8, MYO18B, MYOT, MYPN, NALCN, NDRG1, NEB, NTRK1, OPA1, OPA3, PDK3, PFKM, PGAM2, PGK1, PGM1, PHKA1, PIEZO2, PLEC, PLEKHG5, PLOD2, PMM2, PMP22, PNPLA2, POLG, POLG2, POMGNT1, POMGNT2, POMK, POMT1, POMT2, PREPL, PRKAG2, PRPS1, PRX, PYGM, QARS1, RAB7A, RAPSN, RBCK1, REEP1, RETREG1, RRM2B, RXYLT1, RYR1, SBF1, SBF2, SCN4A, SELENON, SGCA, SGCB, SGCD, SGCE, SGCG, SH3TC2, SIL1, SLC12A6, SLC16A1, SLC22A5, SLC25A1, SLC25A20, SLC25A46, SLC5A7, SLC6A5, SMCHD1, SMN1, SMN2, SPEG, SPG11, SPTLC1, SPTLC2, SUCLA2, SYNE1, SYNE2, TAZ, TCAP, TFG, TGFB3, TK2, TMEM43, TNNT2, TNNT1, TNNT3, TNPO3, TOR1A, TPM2, TPM3, TRAPPC11, TRIM2, TRIM32, TRPV4, TSEN2, TSFM, TTN, TWNK, TYMP, UBA1, VAMP1, VAPB, VCP, VIPAS39, VRK1, WNK1, XK, YARS1

Noonan- RASopathies panel

BRAF, CBL, HRAS, KAT6B, KRAS, LZTR1, MAP2K1, MAP2K2, NF1, NF2, NRAS, PTPN11, RAF1, RASA2, RIT1, SHOC2, SMARCB1, SOS1, SOS2, SPRED1, TSC1, TSC2

Pancreatitis panel

ABC4, APC, APOA5, APOC2, ATM, BMPR1A, BRCA1, BRCA2, CASR, CDKN2A, CFTR, CPA1, CTSC, EPCAM, GPIHBP1, LPL, MEN1, MLH1, MSH2, MSH6, PALB2, PMS2, PRSS1, SMAD4, SPINK1, STK11, TP53, UBR1, VHL

Parkinson disease panel

ATP13A2, ATP1A3, ATP6AP2, ATP7B, C19orf12, DCTN1, DNAJC6, FBXO7, FTL, FUS, GBA, GCH1, GRN, HTRA2, LRRK2, MAPT, PANK2, PARK7, PINK1, PLA2G6, PRKN, PRKRA, RAB39B, SLC20A2, SLC30A10, SLC6A3, SNCA, SNCB, SPR, SYNJ1, TH, TMEM230, UCHL1, VPS13A, VPS35, WDR45

Pulmonary panel

ABCA3, ABCC8, ACVRL1, AP3B1, ASCL1, BLOC1S3, BLOC1S6, BMPR1B, BMPR2, CAV1, CCDC39, CCDC40, CFTR, CHAT, CHRNA1, CHRN1, CHRND, CHRNE, COLQ, CSF2RA, CSF2RB, DKC1, DNAAF1, DNAAF2, DNAH11, DNAH5, DNAH9, DNAI1, DNAI2, DNAL1, DOCK8, DTNBP1, ECE1, EDN3, EFEMP2, EIF2AK4, ELN, ENG, FBLN5, FBN1, FLCN, FOXF1, GDF2, GDNF, GLRA1, HPS1, HPS3, HPS4, HPS5, HPS6, ITGA3, KCNA5, KCNK3, MECP2, NF1, NFU1, NKX2-1, NME8, NOP10, NOTCH3, PARN, PHOX2A, PHOX2B, POLD1, RAPSN, RASA1, RET, RSPH1, RSPH4A, RSPH9, RTEL1, SARS2, SCN4A, SCNN1A, SCNN1B, SCNN1G, SERPINA1, SFTPA2, SFTPB, SFTPC, SLC6A5, SLC7A7, SMAD4, SMAD9, SMPD1, STAT3, STRA6, TERT, TINF2, TSC1, TSC2, ZEB2

Solid tumor panel

Coverage of full coding regions for: ABL1, AKT1, AKT2, AKT3, APC, AR, ARID1A, ASXL1, ATM, ATR, ATRX, BAP1, BRAF, BRCA1, BRCA2, CDH1, CDK12, CDK4, CDKN1B, CDKN2A, CDKN2B, CHEK1, CHEK2, CREBBP, CSF1R, CTNNA1, DDR2, EGFR, ERBB2, ERBB3, ERBB4, EZH2, FANCA, FANCD2, FANCI, FBXW7, FGFR1, FGFR2, FGFR3, FGFR4, GNA11, GNAQ, GNAS, HNF1A, HRAS, IDH1, IDH2, KDR, KEAP1, KIT, KMT2A, KMT2C, KMT2D, KRAS, MAP2K1, MAP2K2, MEN1, MET, MLH1, MPL, MRE11, MSH2, MSH6, MTOR, NBN, NF1, NF2, NFE2L2, NOTCH1, NOTCH2, NOTCH3, NRAS, NTRK3, PALB2, PDGFRA, PIK3CA, PIK3R1, PMS2, POLE, PTCH1, PTEN, PTPN11, RAD50, RAD51, RAD51B, RAD51C, RAD51D, RB1, RBM10, RET, RIT1, RNF43, SETD2, SLX4, SMAD4, SMARCA4, SMARCB1, SMO, SPOP, SRC, STK11, TP53, TSC1, TSC2, TSHR, VHL

Hotspot analysis for: ALK, ARAF, AXL, BTK, CBL, CCND1, CDK6, ERCC2, ESR1, FLT3, FOXL2, GATA2, H3-3A, H3C2, JAK1, JAK2, JAK3, KNSTRN, MAGOH, MAP2K4, MAPK1, MAX, MDM4, MED12, MYC, MYCN, MYD88, NTRK1, NTRK2, PDGFRB, PIK3CB, PPP2R1A, RAC1, RAF1, RHEB, RHOA, ROS1, SF3B1, STAT3, TERT, TOP1, U2AF1, XPO1

Spastic paraplegia panel

ABCD1, ALDH18A1, ALS2, AMPD2, AP4B1, AP4E1, AP4M1, AP4S1, AP5Z1, ARL6IP1, ATL1, ATP13A2, B4GALNT1, BICD2, BSCL2, C12ORF65, C19orf12, CCT5, CYP2U1, CYP7B1, DDHD1, DDHD2, ENTPD1, ERLIN1, ERLIN2, EXOSC3, FA2H, FARS2, GBA2, GJC2, HSPD1, IBA57, KDM5C, KIF1A, KIF1C, KIF5A, L1CAM, MAG, MARS1, NIPA1, NT5C2, PGAP1, PLP1, PNPLA6, RAB3GAP2, REEP1, REEP2, RTN2, SACS, SLC16A2, SLC33A1, SPART, SPAST, SPG11, SPG21, SPG7, TECPR2, TFG, TTR, USP8, VAMP1, VPS37A, WASHC5, ZFYVE26, ZFYVE27

OncoDx

APC, ATM, BARD1, BLM, BMPR1A, BRCA1, BRCA2, BRIP1, CDH1, CDK4, CDKN2A, CHEK2, EPCAM, FH, FLCN, HNF1A, HNF1B, HOXB13, MC1R, MEN1, MET, MTF, MLH1, MRE11, MSH2, MSH6, MUTYH, NBN, NTHL1, PALB2, PMS1, PMS2, POLD1, POLE, POT1, PRSS1, PTCH1, PTEN, RAD50, RAD51C, RAD51D, RET, SDHA, SDHAF2, SDHB, SDHC, SDHD, SMAD4, STK11, TP53, TSC1, TSC2, VHL, WT1, XRCC2, XRCC3

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