

BAT-25; BAT-26; BAT-40; C8orf34; DPM1; CFH; LAS1L; CFTR; KRIT1; ALS2; CASP10; AK2; KDM1A; ZMYND10; SLC25A13; SLC4A1; CALCR; HCCS; HOXA11; ACSM3; CREBBP; MPO; PON1; ABCB4; ITGA3; LAMP2; ITGA2B; CRLF1; MAP3K14; ABCC8; CACNA1G; DLX6; AGK; USH1C; IFRD1; COX10; ELAC2; ADIPOR2; PROM1; PAFAH1B1; DNAH9; CD79B; SCN4A; PAX6; CACNA2D2; PIGQ; SELE; SYN1; CDKL5; TFAP2B; ADAM22; CELSR3; NFIX; PKD1; RHOBTB2; PAX7; MASP2; IYD; POMT2; FUZ; IDS; BTK; HFE; MKS1; ABHD5; KAL1; RNF216; TTC19; ANLN; DCN; TYROBP; BRCA1; ERCC1; MBTPS2; EXTL3; NR1H4; ELOVL5; PGM3; POLR3B; MAMLD1; CAPN1; COX15; WAS; MATR3; ISL1; ATP2C1; IGF1; CNTN1; AGPS; ATP1A2; CYP24A1; SNAI2; HGF; SAMD4A; RUNX3; MRE11A; SLC7A9; SPAST; CPS1; C8B; FHL1; GABRA1; NDUFS1; ABCC2; TYMP; SEC63; VIM; FAS; RNASET2; AGPAT4; MIPEP; IFNGR1; B4GALT7; ANK1; NUP160; MUSK; GRN; ARHGAP31; NR2E3; PNPLA6; IFT88; PEX3; MYOC; VCL; RFC1; TBC1D23; CUL3; OTC; CASR; NSUN2; AGA; VCAN; CDH1; DNAH5; C6; PNKP; BEST2; CTNS; TNC; TDP1; SPATA7; MED17; AP2S1; USH2A; TG; BARX2; ZIC2; ADRB1; CTNNA1; PHKA2; EPHA3; DSG2; OFD1; CP; KIAA0556; DTNBP1; XK; ROS1; CC2D2A; RRM2B; GUCA1A; VPS13D; COL9A2; KITLG; ERCC8; TNFRSF9; SRD5A2; ELN; ARID1B; NEDD4L; FXP3; HEXB; KIAA2022; RAD51; CYBA; PLEKHA5; ALX4; NRIP2; LAMA3; KCNQ1; SDCCAG8; KIF1B; SYNE2; GALC; KCNH2; CYFIP2; TAB2; EIF2AK2; TRAF3IP2; PKP2; F7; LAMC2; SEC61A1; TBXAS1; ALDH18A1; CTDPI; WNK1; CREB3L3; PIGV; COL11A1; ACAA1; WNT8A; CDH3; POLD1; RPL18; CASP8; DLX3; NGFR; CDON; TNPO3; RFXANK; CTSB; SLC12A2; ABCA7; POU1F1; PMS1; NTHL1; GNAI3; OAT; PKN2; NTN1; ERBB3; KARS; MYLK; ; COL17A1; ; SMARCD1; ; SLC9A3; ; ATXN3; ; FGFR2; ; FECH; ; MYO9A; ; PHKA1; ; TNFRSF1A; ; ROGDI; ; ATP2B3; ; PDK3; ; HYAL2; ; HDAC4; FGFR3; COASY; ACSL4; FTSJ1; REEP1; TTC7A; IFT80; PYGM; PITX1; NUP133; VPS35; BCL3; ABCC9; TGFB3; PIGB; GNB5; RAB27A; LRP6; GUCY2C; IKBKAP; SPTB; FGF10; GBA2; ASNS; CNGB1; CHAT; EIF2B3; TCOF1; CDC42; SLC12A3; RPL31; WDR1; ATP6AP1; TCF3; ACTN1; ZFYVE26; LIMS2; SPEG; ALDH3A2; TFRC; AFF4; SMC1A; HSD17B10; TRNT1; ACADVL; EVC; NDE1; MRV1; TP63; CLCN4; SDHA; SMARCE1; ABCB11; PTGS2; IGF2BP2; GLI2; NOTCH3; EED; SNCB; BCS1L; LMAN1; SLC12A1; KCNQ2; SEMA3A; SEMA3C; ACAT1; FGF4; SLC25A3; ACTB; WDR62; DLG1; RAB7A; PAX2; PTPN23; MLH1; UNG; SLC46A1; PLXNA2; NT5C2; GPC4; ARHGEF1; STXB2; ACTL6B; NFKB2; PAK3; DCX; TYR; POLD3; ACTN2; UBE2A; FGFR1; ARAF; MCCC1; NEBL; ACER3; EDN1; SLC1A3; LIPE; OPHN1; KIF22; PGM1; DNM2; RIMS1; KEAP1; SLC4A4; SMARCA2; SRCAP; PSEN1; CPOX; RBL1; IGSF9B; CFHR2; AP4E1; COL4A4; OSTM1; IMPG2; MEF2C; PTPRC; CACNA1S; PKP1; UBA5; LRP2; ATP8B1; FYB; DLG3; GSK3B; RNF13; PALB2; BCKDHB; GRHL2; PLOD1; PIBF1; OXCT1; FAT1; CHMP2B; ZMPSTE24; GSTP1; APOB; GCKR; HADHA; CAD; CD59; ATRX; FCN1; MECOM; HACE1; MAP3K4; ABCB1; WNT11; DDHD2; ORC1; ATG16L1; POMGNT1; RAD54L; EIF2AK1; NME8; EPDR1; SNX10; FAT2; HUWE1; MTMR2; FTL; PIGS; ADAMTS2; MMP2; GNAO1; L2HGDH; GNAS; DNM1L; PTHLH; SLC6A14; GNA11; DNMT3B; TGDS; COQ9; SLC4A11; F11; TMEM230; OAS1; TBX5; FUS; IGBP1; GANAB; NECAP1; LTBP4; SPTLC1; CCNK; SI; SPG21; DNAJB11; THPO; GNPTG; MCOLN1; EFNB1; AARS; PLEKHG2; DLL3; POU4F3; NLRC4; LAMB1; SLC26A4; SLC26A3; DLD; ABCC6; ITGA6; MLTK; SMPX; FH; MYO15A; NLRP1; PITPNM3; ORC6; CPA1; ESR1; MYH7; CEBPE; OSGEP; RNF31; HECTD1; RPGRIP1; TINF2; TRPM7; CAPN3; PHGDH; COL9A3; UNC13D; TGFB2; CDC45; COMT; CECR1; CDC6; AAAS; MSH2; ARCN1; TMEM38B; PTGS1; DFNB31; PDE6C; CWF19L1; BLNK; MYO3A; TREM2; EFHC1; CDC5L; ITPR3; DSP; IFT74; JAK2; IL12RB1; ABL1; NRP1; MYO9B; STX1B; HSD3B7; MTAP; ARVCF; LZTR1; SMARCB1; SPECC1L; PRODH; CRYBB3; SLC25A1; TRIOBP; CRYBB1; SOX10; DEPDC5; SLC5A1; CYP2D6; FBXO7; SBF1; NEFH; CHKB; MCM5; ARSA; PDGFB; APOL1; MYH9; IFT27; NCF4; CSF2RB; IL2RB; EP300; ACO2; TRMU; MLC1; COCH; AP4S1; POLE2; SOS2; NIN; PYGL; DDHD1; GSTZ1; KIAA0586; SPTLC2; DICER1; MTHFD1; VRK1; TRIP11; PABPN1; SRP54; CHD8; PCK2; NFKBIA; GSS; MMP9; ABHD12; GINS1; CD40; IFT52; HNF4A; STK4; SALL4; BMP7; DNAJC5; TUBB1; CHRNA4; EEF1A2; NDUFAF5; SLC52A3; RSPO4; PROKR2; MYLK2; SEC23B; FERMT1; PDYN; PLCB4; SAMHD1; NOP56; IDH3B; JAG1; SNTA1; CHMP4B; CST3; AHCY; LPIN2; SMCHD1; MYOM1; RNF125; MIB1; RBBP8; TBL1X; GPR143; MID1; ALG13; CHRDL1; XIAP; STAG2; F9; ABCD1; CCDC22; CACNA1F; SYP; PLS3; OPN1LW; SLC35A2; PQBP1; RS1; EMD; TAZ; RAB40AL; PGK1;

GATA1; MAGT1; SMS; PHEX; RP2; CD40LG; FGD1; PORCN; MAGED2; KLF8; SRPX2; ZDHC15; DRP2; GLA; FGF14; ACP5; FGF9; SGCG; SLC25A15; CLN5; HSF4; CORO1A; PHKB; NUP93; ZNF423; DHODH; ACD; USB1; ESRP2; FA2H; AXIN1; NPRL3; MLYCD; CRISPLD2; TSC2; LMF1; FOXF1; CLCN7; STUB1; MEFV; CRYM; EARS2; SALL1; TOX3; RBL2; RPGRIP1L; IL21R; AAGAB; HERC1; TRIP4; MTFMT; AP3B2; FAH; HOMER2; CEP152; OCA2; TGM5; DMXL2; SPG11; BLOC1S6; CSPP1; RP1; CA2; EYA1; NBN; POP1; JPH1; GDAP1; NDRG1; IL7; TRPS1; SPAG1; SLC39A14; NEFL; ARHGEF10; MCM4; ASAH1; MAN2B1; GYS1; LHB; TUBB4A; SARS2; CLPTM1; ERCC2; RNASEH2A; AMH; RETN; DMPK; MED25; TNNT1; DYRK1B; GPI; AKT2; PRX; TGFB1; MYH14; CD79A; LIM2; RPS19; ETFB; CRX; TYK2; ATP1A3; MEGF8; GRIN2D; CCDC114; LIG1; GCDH; KLF1; DNASE2; MAST1; PRPF31; JAK3; SLC5A5; PIK3R2; COMP; MAG; HAMP; SCN1B; ERF; ETHE1; CDK6; DNAH11; DLX5; DFNA5; ATP6V0A4; CAV1; MET; WNT2; DNAJB6; HOXA2; BRAT1; TSPAN12; HOXA13; FKBP14; GARS; CHCHD2; HSPB1; CYP3A5; TAF6; AIMP2; TFR2; PAX4; PPP1R17; IMPDH1; TMEM106B; EZH2; CEP41; SFRP4; AHR; GLI3; PRKAG2; AEBP1; GCK; LHX2; FKTN; TGFB1; C5; LHX6; DNM1; ENG; DOCK8; KANK1; KCNT1; MPDZ; LHX3; DDX58; GLIS3; SETX; EXOSC3; DVL1; GATA3; HPS1; PHYH; ERLIN1; CUBN; RBP3; CDH23; MICU1; BMPR1A; ACTA2; LIPA; TLX1; C10orf2; FBXW4; FGF8; PITX3; ARHGAP21; SUFU; ANKRD26; ACBD5; MAP3K8; DKK1; SMC3; SHOC2; DNAJC12; LIG1; CRYBA1; WNT3; ASPA; RAD51C; TRIM37; GOSR2; PNPO; GALK1; ENO3; PFN1; CHRNE; RAI1; NUP88; C1QBP; BLMH; SMARCD2; B9D1; PEX12; HNF1B; NAGLU; CNTNAP1; DLX4; COL1A1; SGCA; EFTUD2; PRKAR1A; YWHAE; RANGRF; SLC9A3R1; MYH3; VTN; PMP22; FOXN1; UNC119; PHOX2B; GNRHR; NFKB1; MANBA; MAPK10; IL2; CPE; WFS1; FRG1; SEPSECS; TRIM2; SLC2A9; FBXW7; NKX3-2; UGDH; CRYAB; CTSC; TECTA; UNC93B1; FOXRED1; CPT1A; CCND1; FOLR1; APOA5; APOC3; CEP164; IL10RA; CBL; PVRL1; PDHX; SLC1A2; CD81; SOX6; AIP; NDUFS8; TCIRG1; EXPH5; HPS5; VWF; COQ5; MVK; CYP27B1; MYF6; KRT18; WNT5B; TRPV4; MYL2; CUX2; KCNA1; CDKN1B; SCNN1A; EIF2B1; VDR; RAB5B; NUP107; KRR1; GNB3; TPI1; GNPTAB; ATN1; GYS2; LDHB; AICDA; COX6A1; COL12A1; TDP2; DSE; RSPH4A; MAK; PAK1IP1; GCNT2; FAM65B; SASH1; OPRM1; FANCE; TULP1; RHAG; SOD2; PHACTR1; ICK; GLP1R; BACH2; RAB23; FBXL4; SIM1; BVES; COL9A1; ALDH5A1; GMNN; EYA4; SNX3; PEX7; ZBTB24; FIG4; EPM2A; SLC39A7; SMOC2; CCND3; TBP; GUCA1B; PRPH2; IMPG1; VEGFA; WISP3; LAMA4; FAM46A; CLIC5; TBX18; C7; GHR; NNT; LOX; SPARC; HMGCR; HAND1; PDE8B; GRM6; ITK; THG1L; ARSB; IL12B; MSH3; GABRG2; LMNB1; PRLR; RAD50; NUP155; FGF1; NR3C1; LIFR; C9; RARS; PDGFRB; EHHADH; CLDN16; ARL6; NPHP3; PCCB; UBE3A; BCHE; PDCD10; WNT5A; COL7A1; FGF12; GNAT1; TFG; HYAL1; GNB4; GBE1; UMPS; SLC41A3; ATP6V1A; MRPL3; ACVR2B; KLHL24; TNNC1; CLCN2; EIF4G1; DGUOK; ZAP70; POMC; OTOF; GPD2; MPV17; EIF2B4; APC2; IFIH1; RPS15; MOGS; NDUFS7; AUP1; HTRA2; LOXL3; ACADL; EFEMP1; FANCL; FN1; STAT1; GLS; ELMOD3; KCNJ13; GGCX; ST3GAL5; HSPE1; PRKAG3; IL1R1; FHL2; ABCB6; SLC5A7; TPO; TAF1B; DCAF17; RAB3GAP1; SLC25A12; DLX2; LCT; DARS; SLC1A4; SOS1; KYNU; WIPF1; ORC4; THADA; TIA1; KISS1R; SUMO1; ATP6V1B1; MSH6; SPR; ALMS1; PRRX1; DHCR24; SCP2; CEP104; NPHS2; PARK7; OPRD1; AMPD2; LAMTOR2; MEF2D; DOCK7; DNAJC6; LEPR; MFN2; PRG4; NCF2; SLC35D1; RPE65; AMPD1; CTH; TNNT3; CFHR3; PLEKHM2; ADPRHL2; WARS2; EXOC8; GNPAT; TBCE; MTR; KCNQ4; AKT3; ACADM; LPHN2; SDHB; GBP1; ECE1; HMGCL; GALE; CR2; CD46; PRPF3; LEPRE1; SLC2A1; MPL; PTCH2; PRDX1; SLC19A2; ABCD3; FASLG; DARS2; IRF6; DHDDS; ARID1A; CENPF; MESDC2; CTSD; COLEC11; STK11; KMT2A; APOA1; KPTN; KIF14; TNNT2; DDX59; ATF6; CRYGD; TTR; ELOVL4; TNFAIP3; ARG1; TMEM5; FOXO3; CASQ2; PKD2; ABCG2; RAB3GAP2; WDR35; CCND2; FGF23; SATB2; TRPM6; TJP2; WDR34; GLE1; TRIM32; INVS; GALNT12; DENND1A; ALG2; CSF3R; KDSR; IFT43; NPC2; DNAL1; IRF2BPL; LTBP2; MLH3; TTLL5; ABCD4; TGFB3; ESRRB; EIF2B2; COQ6; DNMT3A; EPCAM; SLC17A5; CNM1; HELLS; TCTN3; WDR11; HOXB1; MSX2; GORAB; KCNJ5; MASTL; TNFSF11; UFM1; ELF1; SMAD9; EXOSC8; TGFB1; SIL1; MYOT; TMPO; CLU; CHRNA2; EPHX2; TARDBP; TBX4; LRAT; PYROXD1; KCNJ8; LHX4; CSTA; GJA8; MAPK8IP1; PEX16; GJB6; GJA3; PIK3CA; LIAS; GPSM2; CXCR4; ACVR2A; FLT3; OCRL; TBX22; PLG; COPA; SERAC1; ANXA11; LDB3; RPL5; BBS9; PMS2; KLHL7; FAM126A; INHBA; TWIST1; DNAI1; AKR1D1; SFTPA1; NEUROG3; PLA2; CHST3; BICC1; EGR2; IFT81; ACADS; CDKN2C; ATP7B; OPTN; TSFM; HOXC13; DBH; COL10A1; USP45; PLP1; SERPINA7; TTC21B; KCNJ2; EXOSC9; B9D2; ADCK4; C4BPA; C4BPB; MC3R; SLC12A5; VAPB; ATP5E; ARFGF2; EDN3; SNAI1; STX16; PCK1; MTRR; PEPD; IQSEC2; STAMBP; MCEE; NDP; USP9X; F13A1; SLC17A3; SLC17A1;

SERPINB6; XPO5; PEX6; AARS2; RPS10; MOCS1; GNMT; COL21A1; CDKN1A; SOX4; ATXN1; RUNX2; GCM2; MYRF; WNT1; BBS2; GOT2; SLC10A2; UPF3B; NDUFA1; BMP4; SOX9; MYH2; NUP85; MSTO1; PAX8; POLR1B; GRIA3; CD70; C3; OPA3; RTN2; PANK2; CD93; NKX2-2; RBCK1; BMP2; FLRT3; OVOL2; MKKS; BFSP1; ITPA; MAX; GDF5; CEP250; KDM5C; UROD; ST3GAL3; XRCC3; F10; COX6B1; THRA; RRAS; ASL; SBDS; WNK4; PRKCG; GLIS2; CFP; ELK1; SIX1; WDR60; AVPR2; MAP2K2; NXF5; TIMM8A; PPCS; BCL11B; MASP1; TRPV5; IDUA; SMARCA4; TUBA4A; ECHS1; AKAP9; POR; PEX1; SGCE; KDR; ADORA2A; IGLL1; RAC2; KRT17; POT1; FOXP2; FLNC; SMO; FEZF1; PDE11A; GAD1; HOXD13; GDF2; EIF2AK4; TTBK2; DLL4; IVD; CLN6; VPS13C; LOXL1; KCNC1; CSRP3; AIPL1; KIF1C; LRRC6; AJUBA; NRL; RHBDF2; ARHGEF6; FGF13; TNNI3; GAMT; KCNA5; DOCK6; LDLR; PRKCSH; PVRL2; APOE; GADD45G; DPP6; RPL36; KIF1A; GTPBP3; COLGALT1; QRSL1; ACTN4; ARPC1B; FCHO1; SCO2; TRPM4; SAG; TNNT3; TNNI2; H19; COL5A1; ATXN10; CYP2E1; GATA5; OSBPL2; ASS1; PRDM12; POMT1; DNMT1; SLC6A8; DKC1; C12orf65; CASZ1; HSD17B3; UBA1; SYNE1; LATS1; ZNF341; ACS2; EDA2R; ARHGEF9; GFAP; PYY; ATP6V1E1; CHMP1A; SLC34A1; F12; NFATC1; PPT1; ABCB7; KCNC3; PDLIM4; RPL27; PSMC3IP; G6PC; DIAPH1; BARX1; NPHP4; CKMT2; RARA; CHD1L; PEX11B; RBM8A; FSHB; PDHA1; MCCC2; CHSY1; NR0B2; RHPN2; C19orf12; GCH1; MATN3; GAS2L2; RAF1; PPARG; INPP5K; SERPINF1; POPDC3; ITGB4; GUCY2D; DLG4; VPS13B; REEP2; SNAP25; RIN2; CRP; DCAF8; IGHMBP2; MMACHC; TOE1; MUTYH; BHMT2; AP3B1; KANK4; PDE6A; POMP; SCO1; DSTYK; DCLK1; SPG20; RFXAP; KL; IRS4; TBC1D8B; PDE6B; MYH11; MORC2; LARGE; MYO18B; ATP13A3; KRAS; SPINK5; SBF2; RRAS2; HSD17B4; DPF2; MEN1; VHL; MEIS2; TRPM1; GNAT2; TSHB; HMGCS2; PTPN22; WNT2B; NOTCH2; NGF; AP4B1; KIDINS220; MYCN; LPIN1; LDHA; IL6ST; FST; CFHR4; CDC73; CRB1; CFHR5; RAX; IL2RA; KCTD1; DOCK2; SOX5; SLC01B1; LRP4; MYBPC3; DDB2; SOX3; MTNR1B; PUM1; YARS; DSC2; DSG1; DTNA; FHOD3; GIF; TCN1; C5AR2; PDGFRA; COL4A2; ERCC5; APC; WDR36; AGTPBP1; ADAM19; HNF1A; TBX3; MTO1; SNX14; MRAP2; LCA5; PRPH; AVIL; AMHR2; ITGA7; RDH5; KRT85; CDK4; B4GALNT1; KRT7; HNRNPA1; MIP; AHI1; STX11; DYSE; GNS; AGT; GLUL; SP110; MRPL44; CHRND; PAX3; SLC19A3; DNAJB2; WNT10A; CYP27A1; ARMC9; TMEM127; EDAR; EPC2; ISCU; SLC41A2; FLNB; RNASEH2B; TBC1D4; SUCLA2; ITM2B; SPRY2; NUDT15; EDNRB; IL6; ZDHHC4; CCM2; NKX2-1; ALPK3; CIB2; BRIP1; SCN2A; BLK; GATA4; EPRS; VPS45; IL10; KCTD3; IL1RN; IL36RN; BIN1; HS6ST1; CDK9; SMC2; STXBP1; ALDOB; BAAT; DPM2; GABBR2; NR5A1; XPA; RPL35; LMX1B; MYC; PLAA; IL11RA; APTX; GRHRP; CNPY3; TFAP2A; RIPK1; TUBB2B; HMGA1; TPMT; TLR2; MYO7A; NARS2; TTPA; SULF1; NEK1; SORL1; TRPC6; MMP20; C11orf70; YAP1; SLC37A4; RDX; FXD2; MMP13; MAPKB1; DUOX1; STRA6; CYP19A1; ARHGAP29; DBT; IFT172; EPT1; HADHB; ADCY3; PNPT1; DYNC2LI1; LHCGR; CYP11B1; ABCG5; PREPL; SLC3A1; FBXO11; SIX3; LRPPRC; TRIM54; CYP2C9; CYP2C8; KIF11; ARL3; CEP55; ENTPD1; PLCE1; DBR1; FAM149B1; ASCC1; ZNF365; RPS24; DNA2; MYPN; SMARCA1; BARD1; STAT4; MSTN; CARF; HECW2; IDH1; CHRNA1; SLC40A1; USP8; SPPL2A; HCN4; SEMA7A; ARHGAP24; IL21; FGF2; BBS7; BMPR1B; PRDM5; FRAS1; SCARB2; PPA2; LEF1; HADH; EGF; PPP3CA; FBN2; PDE6H; ETV6; YARS2; FGD4; PRICKLE1; VAMP1; CD27; PEX5; COL2A1; TMEM19; PTPRQ; DUSP6; POC1B; ASCL1; MMAB; PDX1; SUOX; CCDC65; ACVRL1; SMARCC2; BRCA2; RB1; VPS33A; DIAPH3; RDH12; FBLN5; WARS; NIPA2; SLC12A6; TCF12; DUOX2; FGF7; CDAN1; PSTPIP1; ETFA; SCAPER; TPM1; IGF1R; CYP11A1; BBS4; CYP1A1; ADAMTS17; CYP1A2; POLG; RLBP1; FANCI; EFTUD1; PMM2; ARMCS; PARN; FTO; ADAMTS18; GCSH; MBTPS1; IRF8; GALNS; UNC45B; VPS53; ARSG; G6PC3; CLTC; PTRH2; AFG3L2; GATA6; GREB1L; NPC1; SLC13A5; WRAP53; PIK3R5; TP53; CCDC40; ARHGDIA; TMC6; CARD14; TBCD; DYM; SMAD4; TNFRSF11A; CBLN2; ERBB2; FKBP10; CACNA1A; NFIC; COL6A1; SOD1; COL6A2; SIK1; SCYL1; APP; AKT1; ADAMTS10; SLC6A3; CAPN10; NLRP12; FBN3; PRDM16; CELA2A; EPHA2; PEX14; RPL11; FCN3; HSPG2; BCL10; LMO4; GJA5; ADCY10; PVRL4; PPOX; SDHC; CASQ1; XPR1; TOR1AIP1; HMCN1; RORC; SF3B4; ECM1; ADAMTS14; CTSK; RFX5; SYT14; KCNH1; TPM3; HAX1; RIT1; PKLR; ACTA1; LYST; DEGS1; LEFTY2; PSEN2; PYCR2; LBR; WNT9A; EPHX1; REN; SOX13; SYT2; OSR1; GALM; ABCG8; CALM2; RPS27A; WDPCP; ASXL2; SNRNP200; NPHP1; LIPT1; CNGA3; SCN1A; CDCA7; DLX1; HSPD1; UNC80; SUMF1; DIS3L2; FANCD2; POMGNT2; IL17RD; SLC25A26; COL8A1; NR1I2; AMT; CCDC39; ILDR1; EIF2B5; SLC26A1; GC; SNCA; TBCK; CISD2; ANK2; PDGFC; CYP4V2; NDUF56; PIK3R1; BHMT; RASA1; BDP1; MEGF10; GABRB2; FBXO38; GLRA1; NHP2; TBC1D7; FARS2; CDKAL1; KLHL3; DCDC2; MUT; PHIP; RARS2; EGFR; MDH2; SLC12A9; NLGN4X; CASK; KDM6A; MSN;

HDAC8; SLC16A2; ZNF41; NONO; EBP; IL2RG; ZNF711; PRPS1; IGSF1; GPC3; NSDHL; RPL10; GNRH1;  
 STAR; PROSC; ERLIN2; DPYS; LRP12; RSPO2; SLC39A4; VLDLR; NFIB; CDKN2B; CDKN2A; C9orf72;  
 SIGMAR1; CEP78; NTRK2; C9orf3; ZNF462; CRB2; ALAD; ASTN2; SURF1; LRSAM1; INPP5E; NOTCH1;  
 CACNA1B; PDSS1; ZEB1; CDHR1; RGR; POLR3A; GLUD1; ANKRD1; VAX1; TCF7L2; CYP17A1; NKX6-2;  
 CNNM2; SERPING1; C11orf73; SERPINH1; CAPN5; DRD2; ATM; ST14; HYOU1; TMEM138; TMC2;  
 ROM1; B3GAT3; CHEK1; SCN2B; JPH2; FERMT3; VPS51; ALDOA; HMGA2; MMP3; CNKSR2; PCDH15;  
 ADRA2A; CCT5; PTS; FREM2; SEC24D; ITPR1; CACNA2D4; CACNA1C; THRB; EXT2; TMEM18; NUBPL;  
 VIPAS39; SCLT1; PTPRO; EPS8; ACAD8; QDPR; MMAA; NR3C2; AKR1C2; ADAM17; FLI1; KCNJ1;  
 SLC25A4; NBAS; GUF1; GABRA2; SACS; CENPJ; GFRA1; DST; BAG3; HSPB8; GRID2; EPG5; G6PC2; PTH;  
 DCLRE1C; CCDC50; PFKM; DSPP; DMP1; GPD1L; GJA1; CCNO; SAR1B; SLC16A12; BMP3; HNRNPDL;  
 GRM1; MARVELD2; PLOD2; ZIC1; HNRNPU; RANBP2; MERTK; SCN3A; CD8A; CFDP1; CHD1; DGKE;  
 CACNA2D1; SEMA3D; DNAAF1; ANKH; FAM105B; ROBO4; ROBO3; FAM134B; UCHL1; DISP1; WNT3A;  
 PPP1R3A; PDLIM3; TMPRSS15; ADAMTS1; TSEN2; XPC; FLCN; PIEZO2; CYP2U1; ZFYVE27; SLC16A1;  
 SLC7A7; NUP205; TTN; VSIG4; OTOA; TMEM237; SLC26A2; Rraga; RASA2; RMND1; RAB39B; AFF2;  
 GRIP1; VPS37A; KIF5A; NAT2; GNAQ; MMP16; ADK; KCNMA1; ALX3; NDUFAF6; DRAM2; TSPAN7;  
 RPGR; FGF18; GDF6; PTDSS1; PPP2R2B; HK1; PHF6; NODAL; KAT6B; AIFM1; FBXO32; NSMCE2;  
 PHKG2; ZIC3; BUB1B; PDE6D; GHRL; SLC6A1; KLHL40; C8A; NRG1; CPT2; MMP14; GATAD1; CACNA1D;  
 ARSE; KIT; HYDIN; MYO1E; APPL1; CREB3L1; BRAF; SLC34A2; ACAN; WDR19; DRC1; RAB28; PEX10;  
 SKI; LDLRAP1; SLC30A2; TRIM63; GRHL3; HPD; CNNM4; DZIP1L; FANCC; MRAS; CUL4B; SLC13A3;  
 SHROOM4; KCNB1; TSR2; ALAS2; USF1; EDA; FGF17; PINK1; NDUFS2; APOA2; MPZ; WNT9B; EPB41;  
 ALG8; SYNJ1; IFNAR2; IFNGR2; HOXB13; C1QC; KCNE2; RUNX1; ACTC1; CLDN14; HLCS; ADIPOR1;  
 ATP13A2; PSMB4; C1R; UBR1; ACE; AGRP; RLTPR; NPR2; GNE; CALM3; CCDC28B; VMA21; TMPRSS3;  
 RSPH1; CBS; CRYAA; G6PD; CSTB; AIRE; C21orf2; ITGB2; LSS; MCM3AP; PCNT; ADAMTS13; FCN2;  
 SPTBN4; NEK8; CD3G; FLAD1; VPS11; ADAR; CHRN2; ANO10; LMNA; CCR5; NBEAL2; PTH1R; MYL3;  
 FGFR4; CYP3A4; NACC1; CYP11B1; RECQL4; SQSTM1; DVL3; AP2M1; PCYT1A; BDH1; NPHS1; FDXR;  
 ACOX1; NAGS; LEMD2; RPL26; CCDC78; TBC1D24; CLPB; LRP5; COA7; PARS2; BSND; SEPNI1; JAK1;  
 CTRC; FBLIM1; MATN1; SDC3; ALPL; WNT4; IL23R; MYSM1; NEXN; LHX8; NTNG1; GF11; KCNT2; AGL;  
 NLRP3; DDR2; PEX19; NCSTN; FLVCR1; B3GALNT2; PEX13; NEUROD1; ACTG2; ADCK3; SGCB; INHBB;  
 BBS5; SMARCA1; MSX1; ERCC3; BOLA3; TGFA; CRYGC; GABRB1; ALPI; ANTXR2; COL6A3; EOGT;  
 LMOD3; POGLUT1; ATP1A1; PROK2; STK36; CCDC141; IHH; TGFB2; SERPINI1; SUCLG1; SPTA1;  
 SLC2A2; CTLA4; ICOS; ALB; ATXN7; PRICKLE2; ADAMTS9; PPM1K; CLRN1; PTX3; HESX1; SLMAP;  
 IL17RC; MTMR14; GYG1; HPS3; RYK; ZNF513; LZTFL1; FYCO1; IFT122; RHO; BAP1; RNF168; CLDN19;  
 AIMP1; SGMS2; ATRIP; SPRY1; MFSD8; PITX2; HPGD; ITGA2; MOCS2; SLC45A2; NDUFAF2; NIPBL;  
 GPR98; SLC25A46; AGGF1; NDUFS4; SCGB3A2; SPINK1; CARTPT; TLR3; TERT; PDSS2; TBX20; HCN1;  
 RP9; KCNK5; SHH; COL1A2; PGAM2; CTSB; SOX17; DLC1; ADCY1; PEX2; RAD21; SLC30A8; TNFRSF11B;  
 PHKG1; HEATR2; OXR1; NOS3; CDK5; ALDH7A1; OSR2; BAALC; FZD6; FREM1; TMEM67; KIAA0196;  
 UBAP1; ABCA1; PRKACG; FXN; CPA6; TMC1; HGSNAT; HNRNPK; TRPV6; ANKS6; FBP1; CYBB; PCDH19;  
 PIGA; ATP7A; VCP; BRWD3; GPR101; WRN; TSHR; CFL2; INPPL1; PHOX2A; MBL2; GJB2; HEPACAM;  
 DNAAF2; TTC8; OTX2; NSD1; PMPCA; FRMD7; TSC1; GF11B; HPRT1; RET; NSMF; CYP2C19; OTOGL;  
 SLC39A13; RAPSNI; SLC6A5; CACNB2; HTRA1; LIPC; SPRED1; GPT2; AMN; FBN1; HPS6; GABRB3;  
 SGPL1; PCBD1; CLMP; SCN3B; C2; SMPD1; ILK; TPP1; RAG1; ATP9B; TUB; A2ML1; BEAN1; TK2; MC4R;  
 PLEKHA7; B2M; PPIB; FAM111A; KIF7; PLIN1; SCNN1G; NAV2; CLPX; TAC3; MYO1A; STX3; SCG5;  
 GREM1; EPB42; TGM6; SMAD3; MARS; PBX3; GOLGA2; COQ4; CCDC103; PRRX2; COQ7; NOD2;  
 LOXHD1; IGF2; CDK12; RBFOX3; CD3D; MYO5B; STIM1; PRRT2; VKORC1; CA4; GPX4; CDT1; KMT2D;  
 TUBA1A; AQP2; AXL; SPINT2; DNAAF3; EEF2; SEMA6B; NXN; TRPV3; KRT1; ACER1; CD320; CABP2;  
 NDUFV1; TBX10; TMC8; SOST; ABCA3; SDHAF2; BEST1; FTH1; BSCL2; C2CD3; RPSA; CTNBN1; FADD;  
 LTBP3; RBPJ; LMBRD1; KCNV2; FOXI1; MMADHC; MPLKIP; SCN11A; FILIP1L; TAP1; RHOH; SCNN1B;  
 HR; TNXB; SFTPC; BMP1; HFE2; MYL1; TRAPPC11; COL3A1; SLC20A2; CRYGA; STAT3; ADAM9; GDNF;  
 AXIN2; VWA3B; IL7R; DNAJC21; TET2; TCTN2; GFM1; SFTPB; MAT2A; CEP120; COL4A3; MAP2K1;  
 IRS1; MECP2; ROR2; AR; CHST14; ARMC4; CPT1C; PCSK9; SH3TC2; ADRB2; HSPB3; NROB1; IL1RAPL1;  
 P2RY12; UMOD; SLC33A1; ARL13B; SCN9A; MGMT1; ZEB2; GJB1; HINT1; NFU1; ANTXR1; CKAP2L;

AGPAT2; GP9; RAC3; UGP2; BTB; TACR3; P2RY1; WNT10B; GUSB; ZFPM2; YWHAG; NIPA1; FOXD4;  
 CHRN1; MRAP; FAM161A; GLB1; CRTAP; CNGB3; UBB; FOS; EMX2; SP7; SEMA3E; HARS; KRT6C;  
 KRT74; KISS1; ARL6IP1; IRX1; CDH2; IRX2; SIX2; STAT2; SLC26A5; SGCD; MURC; LMOD2; BFSP2; FSHR;  
 CEL; PPM1D; TMEM43; TSEN34; TRH; TANC2; PKHD1; ALK; MTM1; INSR; JAGN1; TMEM126A;  
 TMEM126B; TRIM8; UGT2B7; GAA; CANT1; KCNK3; CHD7; ESCO2; CLCN5; KCND3; NAT1; KSR2;  
 POLR1C; EFTDH; NEUROD2; FGG; FGA; FGB; DNAI2; PIK3CD; PLEKHG5; ANO5; GPHN; PAH; GATM;  
 CTPS1; COL8A2; C3AR1; PTEN; RPS7; PRNP; RAB33B; LAMB2; QARS; KLF11; EIF2AK3; CYCS; MALT1;  
 CLEC7A; DPAGT1; ALG14; MYOZ2; CLP1; RSPH9; AGXT; FIBP; HCFC1; RASGRP1; EFEMP2; CYP7B1;  
 DHCR7; RNASEH2C; MYD88; SLC22A13; PHF8; HPSE2; REL; EVC2; COQ2; ADAMTS20; IQCB1; C1QB;  
 C1QA; NDNF; DAG1; DAB1; ARV1; GMPPB; CHD2; CCDC41; PC; NMNAT1; SLC19A1; STAT5B; JUP;  
 RNF213; SPTBN2; RAX2; TCAP; CEP19; CTSF; MSRB3; LEMD3; FAM174A; PRPF8; EXO1; LIG4; TRHR;  
 ZCCHC12; CNTNAP2; BBS1; MYO1H; KY; SLCO2A1; B3GNT1; LEP; RPL15; HRAS; SRP72; FZD4; CA5A;  
 KLC2; SLC22A1; ATR; DSG4; DES; RAG2; TRAF6; PCCA; DCTN2; NPPA; DOLK; CST6; PROP1; SMAD2;  
 PCSK1; LPL; KCNE3; CABP4; ALG10B; UCP3; UCP2; ERCC4; SUGCT; TMEM70; C1orf172; TSPEAR; A2M;  
 DOK7; TPRN; KCNE1L; FOXG1; HSD11B2; DCAF4L2; LMNB2; FOXC2; BDNF; ACSF3; GRIN1; SOX11;  
 TYMS; C8G; MTHFR; SIX5; ACER2; WDR73; POLE; SCN4B; RPS6KA3; PUS1; MAN1B1; KCNA2; SAMD9L;  
 TGIF1; CD19; PTRF; SLC25A22; TBL1XR1; GBA; ACAD9; IL17RA; PNPLA2; SUMO4; CD151; FAM20C;  
 PVRL3; KIAA0195; SOX12; KCNJ10; RPS27; ADAMTSL1; NDUFAF3; DALRD3; SH2B1; PLEC; HTR1A;  
 GLDC; AMBN; SLC25A20; CA8; ERBB4; MAF; SUZ12; THBD; C17orf62; CTC1; TMEM107; DPM3;  
 CYP11B2; FUCA1; CALR; C2orf71; PTPN11; HLA-DQB1; GATA2; ARID3B; PACS2; ELMOD2; SLC17A8;  
 CIITA; GIPC3; NRXN1; BBS10; PUF60; TH; F2; PRKRA; ALX1; FZD2; MCFD2; KCNE1; NRIP1; PRF1;  
 AGTR2; DEFB112; GREM2; D2HGDH; BBS12; NQO1; FKRP; SLC25A42; CHRM2; EHMT1; ADIPOQ;  
 NPM1; DHTKD1; TMEM132E; SYNE4; SOX2; RNF135; SGSH; FANCB; SETD2; TMIE; ZBTB20; SLC35C1;  
 IBA57; USH1G; IDH2; NOP10; ERCC6L2; TSEN54; RAD51B; CRYGB; EXT1; ATP6AP2; AP1S2; C1S; CLN8;  
 CACNB4; KCNK4; BGN; ORAI1; GLRX5; CAV3; SATB1; CSF1R; TRAK1; PLCB1; GPIHBP1; LCK; COL18A1;  
 RPL35A; CEP63; PYCR1; ABAT; NKX2-5; NEB; GPC6; FANCF; CHST6; CTNNA3; BCOR; RIPK4; LRIT3;  
 GRIN2A; COA5; TANGO2; RP1L1; NOG; TBK1; KREMEN1; TRAP; CHEK2; FOXL2; TUBA8; MAATS1;  
 SCN5A; SH2D1A; ACTG1; DENND5A; DIABLO; VPS33B; LRTOMT; KCNQ3; TACSTD2; PRKD1; CSF1;  
 COLEC10; PLA2G6; TXNRD2; SLITRK6; TMEM173; MED12; SEPT9; GSTT1; AMER1; ATL3; PIGW;  
 CLCNKB; JAG2; WT1; USP18; DGAT1; RFX6; ROBO2; F8; SLC24A3; NDNL2; PURA; MC2R; GP1BA;  
 SFTPA2; SCN10A; TCN2; ATP6V0A2; PARK2; RAD51D; KRT6B; STAC3; MUC1; PDE6G; PRKG1; PBX1;  
 SNAI3; NRG3; KCNQ5; SLC52A2; PIGP; IKZF1; PCYT2; POMK; PTCH1; BICD2; GRK1; NDUFA13; KRT5;  
 CYP2R1; CYP4F2; WWOX; POLR1D; EDARADD; GABRA5; RXRA; TRDN; KRT3; PCLO; CLCNKA; NF2;  
 LYRM7; FSCN2; KCNK18; TNFRSF4; KRT16; KRT14; PDZD7; MAPT; FGF3; ESPN; TMPRSS6; TMEM216;  
 MITF; DYNC2H1; KRT12; CIDEC; MAGI2; KCNJ11; COL4A1; IFT140; CYP26C1; NHLRC1; ISG15; SPRY4;  
 SLC18A3; GABRD; NHEJ1; FANCA; SECISBP2; ADH1A; FANCM; CARD9; P2RX2; UBQLN2; CLCN1;  
 WNT7B; EYS; COL4A5; AGRN; NHS; OTOG; CHM; CERKL; HBA2; CLN3; DPYD; UROS; ZDHHC9; ADRB3;  
 SLX4; GPR179; LRRK2; GJB3; NYX; RELN; FAM111B; LITAF; ARID2; BLOC1S3; SP6; MAOA; MYBPC1;  
 PAX5; TDRD7; HLA-DRB1; MYT1; PLEKHG4; ACADSB; TMEM63A; SEMA4A; RYR1; ATP2A1; NLGN3;  
 CD55; LONP1; PTPN1; EPHB4; CRYBA4; TRAPPC2; GDAP2; TPK1; SLC6A9; MME; CACNA1H; LAMA2;  
 XRCC2; MYO6; MKL1; MMP1; ADH1B; TCF4; SLC30A10; TECPR2; NF1; HLA-DQA1; GM2A; POU3F4;  
 CHRNA; ADA; SCN8A; LAMB3; FLNA; SRGAP1; CASP4; WDR45; DTHD1; IGF2R; NPSR1-AS1; DYNC1H1;  
 PGAP1; SRC; SERPINA1; KANK2; RAD54B; SYNGAP1; BLM; SLC22A5; HTT; C5AR1; CYP2B6; COL13A1;  
 SLC2A10; MYO5A; ELANE; COL4A6; TOPORS; ENPP1; FAR1; C5orf42; MFAP5; MYH6; SPTAN1; NMB;  
 RPS26; PSAP; LHFPL5; CFD; ZNF81; ATAD3A; FAM49A; SLC22A12; NRAP; SPG7; PLCG2; VPS13A;  
 IRAK4; TUBA3C; CD2AP; HIBCH; SZT2; CACNA1E; SLC29A3; CARD11; HYLS1; MYL4; GFPT1; NTRK1;  
 TPM2; ATL1; CNGA1; PLN; CTNND1; SLC34A3; RD3; LRBA; AKR1C4; RYR2; TAT; CALM1; LPA;  
 FAM19A2; TTC37; PAPSS2; SLC9A6; FAN1; ABCA4; CEP290; F5; EGFL6; MUC2; MTOR; PNP; PAX9;  
 LRRC10; GK; CD247; GJC2; OPA1; CD3E; TSEN15; L1CAM; KIAA0753; NOS1AP; DMD; NAGA;  
 KIAA1279; RORB; MIR96; SNORD118; INF2; GP1BB; CR1; FCGR3A; HSD3B1; HSD3B2; RBM20; GDI1;  
 FOXO6; MAFB; TRAF3IP1; GIGYF2; BMPR2; COL11A2; COL5A2; PSMB8; TAP2; PBX2; DFNB59; SKIV2L;

SDHD; SLC44A4; NEU1; VARS; MBD5; MICA; CDSN; ZFP57; MRPL53; ATXN2; DCTN1; TCTN1; GRXCR2; PRSS1; TMEM231; TMEM240; SDHAF1; PSENEN; CFI; SAMD9; KRT6A; CPT1B; TECRL; DNAJC19; IFITM5; HBA1; HLA-A; COLQ; MIR140; IGHM; TCTEX1D2; CRYGS; NRAS; CHUK; LCAT; HEXA; PPP1CB; LAT; TREX1; RPS29; EMP2; CEACAM16; GALT; PRCD; ANG; BBIP1; FAM187A; ISPD; PEX26; GRXCR1; MIR17HG; GAB4; HMX1; GCGR; PAM16; FANCG; AP4M1; PPP2R2A; MYBPHL; CERS1; PLEKHM1; ZNF469; ERCC6; DLG1-AS1; DHFR; TRAC; ATXN8OS; DIRC3; CYP21A2; TAPBP; TMEM114; TWIST2; RPS28; KBTBD13; MCIDAS; JRK; HLA-B; APOC2; SLFN14; IRGM; KLHL41; ADSL; TNFRSF13B; AQP1; SUMO1P1; PISD; HOGA1; AMACR; UGT1A1; AP5Z1; STRC; KCTD7; IL10RB; CFB; LEFTY1; WDR65; ACY1; CFHR1; HBB; CRYBB2; MARS2; BCKDHA; FMN1; CHCHD10; ZNF674; PRKDC; MAGEL2; INS; CYP2A6; APOPT1; DYX1C1; HMBS; POLG2; GATC; RTE1; MC1R; TUBB3; ITGB3; GH1; FRRS1L; GAN; RNU4ATAC; FSBP; FDX1L; CALR3; KCNQ1OT1; RMRP; TERC; GRIN2B;