

Supplemental Material

Genes included in the NGS Panel

A2ML1, AACT, ABCA1, ABCB1, ABCC9, ABCG5, ABCG8, ACE, ACTA2, ACTC1, ACTN2, ADAMTS10, ADAMTS9, ADAMTSL4, ADCY5, ADD1, ADRA2A, ADRB1, ADRB2, AGT, AGTR1, AKAP9, ANK2, ANKRD1, APOA1, APOA5, APOB, APOC2, APOE, ARHGAP31, ARL6, ATP11A, B3GAT3, BAG3, BBIP1, BBS1, BBS10, BBS12, BBS2, BBS4, BBS5, BBS7, BBS9, BCL11A, BRAF, C2CD4B, C8orf37, CACNA1C, CACNA2D1, CACNB2, CALM1, CALM2, CASQ2, CAV3, CBS, CCDC115, CDC123, CAMK1D, CDKAL1, CDKN2A, CDKN2B, CENTD2, CEP290, CETP, CHCHD9, CHD7, CITED2, CLCNKB, COL1A2, COL3A1, COX1, COX2, CREB3L3, CRY2, CRYAB, CSRP3, CTNNA3, CUL3, CX37, CYP11B1, CYP11B2, CYP27A1, CYP2C19, CYP2C9, CYP2D6, CYP3A4, CYP7A1, DES, DGKB, DHCR7, DLL4, DMD, DOCK6, DOLK, DSC2, DSG2, DSP, DUSP9, DYNC2L1I, ELN, EOGT, ESRI, EVC, EVC2, FADS1, FBN1, FBN2, FHL2, F2, FKTN, FLNC, FN3K, FOXE3, FTO, F5, F8, G6PC2, GATA4, GATA5, GATAD1, GCK, GCKR, GDF1, GIPR, GJA5, GLI1, GLIS3, GNAS, GPD1L, GPIHBP1, HCN4, HFE, HHEX, IDE, KIF11, HK1, HMGA2, HMGCR, HNF1A, HNF1B, HRAS, IFT172, IFT27, IGF1, IGF2BP2, IL-10, IL-1A, IL1B, IL1RN, IL-6, INF, INS, INSR, ITGB3, JAG1, JAZF1, JPH2, JUP, KAT6B, KCNA5, KCND3, KCNE1, KCNE2, KCNE3, KCNE5, KCNH2, KCNJ11, KCNJ2, KCNJ5, KCNJ8, KCNQ1, KDM6A, KLF14, KLHL3, KMT2D, KRAS, LAMA4, LAMP2, LDB3, LDLR, LDLRAP1, LIPA, LIPC, LIPI, LMF1, LMNA, LPL, LTBP2, LZTR1, MADD, MAP2K1, MAP2K2, MFAP5, MKKS, MKS1, MTHFR, MTNR1B, MTPP, MYBPC3, MYH11, MYH6, MYH7, MYL2, MYL3, MYL4, MYLK, MYPN, NAT2, NEBL, NEXN, NKX2-5, NKX2-6, NOS1AP, NOS3, NOTCH1, NOTCH2, NPHP1, NPPA, NR3C2, NRAS, NUP155, OFD1, PAI-1, PCSK9, PITX2, PKP2, PLN, PLOD1, PPARG, PRC1, PRDM16, PRKAG2, PRKG1, PROX1, PSEN1, PSEN2, PTPN11, RAF1, RANGRF, RAP1A, RAP1B, RASA2, RBM20, RBPJ, RIT1, RRAS, RTN1, RYR2, SAR1B, SCAP, SLC2A10, SCN10A, SCN1B, SCN2B, SCN3B, SCN4B, SCN5A, SCNN1B, SCNN1G, SDCCAG8, SDHA, SEMA3E, SGCD, SHOC2, SKI, SLC12A1, SLC12A3, SLC2A10, SLC2A2, SLC30A8, SLMAP, SMAD3, SNTA1, SOS1, SOS2, SPTA1, SREBP-2, TAF1A, TAZ, TBX5, TCAP, TCF7L2, TGFB2, TGFB3, TGFBRI, TGFBRII, TMEM195, THADA, TMEM199, TMEM43, TMPO, TMPRSS6, TNF, TNNC1, TNNI3, TNNT2, TNXB, TP53INP1, TPM1, TRPM4, TRDN, TRIM32, TSPAN8, TTC8, TTN, TTR, TXNRD2, USF1, VCL, VEGF, VPS13C, WDPCP, WFS1, WNK1, WNK4, ZBED3, ZFAND6, ZFPM2