

Table S2 Candidate regions and genes detected using all methods

Groups	Ways	Chromosomes	Gene
CLR		1	<i>PHLPP1, ZCCHC2, TNFRSF11A, RELCH, PIGN, NEDD4L, MC4R, PRKN, SLC44A1, KANK1, UTRN, HIVEP2, GCHI, SYNE2</i>
		2	<i>ANO3, ARHGAP26, MATR3, PAIP2, IMM1P1, DNAJC24, CCDC73, EIF3M, FGF3, SYT8, TNNI2, LTO1, CCND1, FGF4, TH, FGF19, PTPRJ, LSP1, PRR33, TNNT3, OR4B1, DPP3, PELI3, INS, CNOT6, GFPT2, MAPK9, INCENP, RASGEF1C</i>
		4	<i>THEM6, PSCA, LYNX1, LYPD2, COL22A1, ADGRB1, JRK, RPS20, LYN, MOS, SPAG17, WDR3, GDAP2</i>
		5	<i>GGA1, LGALS2, GAS2L3, NRIH4, MGAT3, TAB1, POLR3H, ACO2, PHF5A, TOB2, TEF, ZC3H7B, RANGAP1, CHADL, L3MBTL2, EP300, SHIS48, SREBF2</i>
		6	<i>CAMTA1, PLEKHF1, C19orf12, FTO, RPGRIP1L, ROR1, KIF1B</i>
		7	<i>CEP128, RGS6, GMDS, PHACTR1, RANBP9, EXOC2, AP3S2, ARPIN, WRNIP1, SERPINB1, SERPINB9, CIMIP3, GUCA1A, GUCA1B, MRPS10</i>
		8	<i>PPM1K, RAPIGDS1, STPG2, PDGFC</i>
		9	<i>VWC2, ZPBP, TPR</i>
		10	<i>GPR158, DHTKD1, UPF2, PROSER2, ECHDC3, NEK7</i>
		11	<i>ERCC5, METTL21EP, CLYBL, ZIC5, ZIC2, PCCA, CYSLTR2, ATP12A, ATP8A2, PAN3, FLT1</i>
		12	<i>CSF3, PSMD3, FBXO47, CASC3, MSL1, NR1D1, THRA, MED24</i>
		13	<i>SYNPR, EPHB1, RIPK4, PRDM15, C2CD2, UMODL1, MIS18A, URB1, SLC25A38, CTDSP1, CACNA2D3</i>
		14	<i>AUH, NFIL3, ROR2, SLC18A1, KAT6B, DUSP29, TCERG1L, BNIP3, JAKMIP3, MGMT, EBF3, GLRX3, HPSE2, CNNM1, SORCS1, LBX1, CCDC172, CCDC186, VWA2, AFAP1L2, CNNM2, NT5C2, ABLIM1, ATRNL1, GFRA1</i>
		15	<i>PROC, MAP3K2, CALCRL, TFPI, GULP1, AGAP1, STK39</i>
		16	<i>DOCK2, INSYN2B, SLIT3</i>
		18	<i>JAZF1, CPVL, ZNF800, GRM8, DPP6</i>
CG		1	<i>IFN-ALPHA-15, IFN-OMEGA-6, ASTN2, IFN-DELTA-10, SFT2D1, ANKRD6, LYRM2, MDN1, BACH2</i>
		2	<i>SLCO4C1, SLCO6A1, INSC, GALNT18, SLC25A48, TRPC7, SPOCK1, FAM13B, WNT8A, NME5, BRD8, KIF20A, CDC23, GFRA3, CDC25C, FAM53C, KDM3B, REEP2, EGR1, ARHGAP26, ETF1, HSPA9, CTNNA1, NR3C1, SMIM32, ARSB, DMGDH, BHMT2, LGALS12, PLAAT5</i>
		3	<i>MFSD2B, UBXN2A, RBFox1, SDR42E2, VWA3A, MOSMO, PDZD9, UQCRC2, EIPRI, MYT1L, WDPCCP</i>
		4	<i>COL22A1, MOV10, CAPZA1, MED30, TSPYL5, SCYL3, F11R</i>
		5	<i>CPSF6, LYZ, YEATS4, SGSM3, ADSL, TNRC6B, FAM83F, GRAP2, ENTHD1, PPFIBP1, SMC02, BMAL2</i>
		6	<i>CDH13, ADGRL2, KLF17, ARMH1, TMEM53, RNF220, PIK3R3, MAST2, PRDM16, TSHZ3, ZNF536, CCDC102A, ADGRG5, ID3, MT3, ADGRB2, PDIK1L, CD52, CRYBG2, PEF1, COL16A1, ZNF683, TINAGL1, SLC9A1, WDTIC1, NLRP12, DHDDS, HMG2, PLA2G5, PLA2G2A, PLA2G2D, PLA2G2F, RPL11, FBXO2, FBXO6, MAD2L2, DRAXIN,</i>
		7	<i>SLCO3A1, CCDC85C, RAD51B</i>
		8	<i>TAPT1, RNF150, PPP3CA, IQCM, MCUB, SGCB, SPATA18, ATP8A1</i>
		9	<i>SOSTDC1, LRRC72, ANKMY2, BZW2, PPP1R9A, CNTN5, DYNC1I1, SLC25A13, RPU5D4, FAM118B, SCN3B, ZNF202, OR6X1, OR10G6, RC3H1, RABGAP1L, TRIM77, NAALAD2, CENPF, PTPN14, SMYD2, PROX1, PTGS2, PLA2G4A, KCNK2, STEAP4, ZNF804B, MAPKAPK2, IL19, IL20</i>
		10	<i>WDR64, CHML, USP6NL</i>
		11	<i>VWA8</i>
		12	<i>MMD, ANKFN1, BPTF, C17orf58, KPNA2</i>
		13	<i>UMODL1, ABCG1, NAALADL2</i>
		14	<i>PRKG1, GALNTL6, MSRA, PRSS51, ADAMDEC1, ADAM7, PTPN20, FRMPD2</i>
		15	<i>MROH2A, KIF1A, AGXT</i>
		16	<i>ITGA1, ITGA2, SNX18, HSPB3</i>
		17	<i>SLC52A3</i>
		18	<i>DPP6</i>
nSL		1	<i>IFN-ALPHA-15, IFN-OMEGA-6, IFN-ALPHA-9, IFN-DELTA-5, HACD3, IFN-DELTA-10, INTS14, SLC24A1, LMAN1, PRKN, IGF1R, AK8, SPACA9, LAMC3, AIF1L, OLFM1, STKLD1, CACFD1, SLC2A6</i>
		2	<i>MACROH2A1, TGFBI, SMAD5, TRPC7, SPOCK1, WNT8A, NME5, KDM3B, REEP2, EGR1, ARHGAP26, ETF1, NR3C1, SMIM32, MARK2, MACROD1, OTUB1, OVOL1, AP5B1, KAT5, COX8A, NAA40, RNASEH2C, LGALS12, PLAAT5, SPDYC, ZFPL1, CDCA5, NAALADL1, SAC3D1, SNX15, ARL2, CAPN1</i>
		3	<i>RHOB, DNAJC27, ADCY3, RABGEF1, KCTD7, TPST1, MICALL2, GPER1, ELFN1, SPRED2, ANTXR1</i>
		4	<i>COL22A1, GBP2, GBP1, RGS20, ATP6V1H, CHD1L, CAPZA1, ST7L, CTTNBP2NL, KCND3, ATP1A1, XCL1, TBX19, TADA1, POGK, KIFAP3, SCYL3, FIRRM, METTL18, GPR161, CD247, POU2F1</i>
		5	<i>WASHC3, DRAM1, SYCP3, CHPT1, PMCH, PARPBP, NUP37, WNT7B, ATXN10, RBX1, XPNPEP3, ST13, MCHRI, TCF20, CYP2D6</i>
		6	<i>SPIRE2, FANCA, ZDHHC7, ATP2C2, WFDC1, KCNG4, ADAD2, TAF1C, DNAAF1, HSDL1, MBTPS1, KLF17, EIF2B3, PTCH2, BTBD19, DYNLT4, PLK3, BEST4, KIF2C, ARMH1, RNF220, DMAP1, PIK3R3, MAST2, GPBP1L1, FTO, TESK2, ZSWIM5, UROD, TSHZ3, COLEC12, THOC1, USP14, ROCK1</i>
		7	<i>TSHR, GTF2A1, RNF182, MBOAT1, GMDS, BLOC1S5, EEF1E1, PPP1R3G</i>

	8	LDB2, NR3C2, UCHL1, ATP8A1
	9	ZPBP, SPMIP7, TMEM183A, PPFIA4, MYOG, GRAMD1B, SCN3B, OR6T1, CENPF, PTPN14, SMYD2, TENM4, PROX1, PACC1, HMCN1, PGM2L1, CHRDL2, RNF169, ODR4, PDC, OR51F2, OR52R1, OR51F1, IL19, IL20
	10	SUSD4, DISP1, WDR64, ITIH5, GREM2
	11	DGKH, VWA8, EPSTI1, NBEA, STK24, PCCA, RB1, LPAR6, ATP8A2
	12	TEKT1, SLC43A2, SCARF1, RILP, PRPF8, SMYD4, RPA1, PAFAH1B1, CLUH, ASB16, HROB, HDAC5, MYBBP1A, GGT6, UBTf, UBE2G1, ATXN7L3, TMUB2, NOL11, BPTF, C17orf58, KPNA2, PTPN1, ELAC2
	13	TMPRSS3, PRDM15, C2CD2, UMODL1, ABCG1, UBASH3A, CAPN7, SH3BP5, RFTN1, UBE2E2, CBR3, DOP1B, NAA50, USF3, TP63, DLG1, ASB14, DNAH12
	14	MED13L, SEMA4D, ROR2, GLRX3
	15	TUBGCP5, SCTR, MGAT5, MDH1B, FASTKD2, ARHGAP15, AGAP1, KIF1A, AGXT
	16	TENT4A
	17	PCMI, ASAH1, SHLD1, DNAAF9
	18	ZNF800, PTPRN2, WDR86, NUB1, GIMAP4, PAXIP1, DPP6
	2	TRPC7, SMIM32, SMAD5, HSD17B12
	3	RPLA, FER1L5, LMAN2L, CNM4, CNM3, ANKRD23, ANKRD39, SEMA4C, TMEM131, VWA3B, CRACDL, NPAS2, RPL31, TBC1D8, MAP4K4, IL1R2, IL1R1, IL1RL2, IL1RL1, IL18R1, IL18RAP, SLC9A4, SLC9A2, POU3F3, MRPS9, C2orf49
	4	TRPS1
	5	GALNT4, POC1B
	6	ARMH1, KIF2C, BEST4, PLK3, DYNLT4, BTBD19, PTCH2, EIF2B3
XP-EHH		C4orf54, DAPPI, LAMTOR3, DNAJB14, H2AZ1, SMIM43, EXOSC9, CCNA2, BBS7, TRPC3, BLTP1, ADAD1, IL2, IL21, BBS12, FGF2, NUDT6, AFG2A, SPRY1, ANKRD50, FAT4, INTU, SLC25A31, HSPA4L, PLK4, MFSD8, ABHD18, LARP1B, PGRMC2, JADE1, SCLT1, C4orf33, PCDH10, TBC1D9
	9	VWC2, PROX1, HDAC9, SNX13
	10	ZNF658, MOB3B, GREM2, CHML
	14	ARID5B, EBF2
	16	FBXL7
	1	SOCS6, RITN, SCAI, PPP6C, RABEPK, HSPA5, GAPVD1, ASS1, FUBP3, GPR107, NCS1
	2	RANBP3, CAPS, VMAC, NDUFA11, SAFB, SAFB2
	3	NEURL3, ITPRIPL1, SNRNP200, CIAO1, TMEM127, STARD7, ARID5A, NCAPH, RSAD2, CMPK2, RNF144A
	4	MYC, AGO2, CHRA1, TRAPPC9, MEF2D, RPS20, LYN, MOS, SPAG17, NOTCH2, IGSF3, CD58
	5	TMTC2, CRY1, ARHGAP8, PRR5, GTSE1, TTC38, CDPF1, PPARA, TBC1D22A, CERK, GRAMD4, CELSR1, ZC3H7B, RANGAP1, CHADL, L3MBTL2, EP300
	6	CMTM4, CKLF, CMTM2, DYNC1L2, TERB1, CDH5, BEAN1, TK2, COTL1, ADAD2, TAF1C, DNAAF1, HECTD3, EIF2B3, ZSWIM5, UROD, DLGAP1, TGIF1
	7	ATXN1, GUCA1B, MRPS10, TRERF1
	8	FAM184B, NCAPG, LCORL, PPM1K, PKD2, ABCG2, METAP1, EIF4E, MTTP, TRMT10A, C4orf17, ADH4, ADH5, CNGA1, NIPAL1, PAQR3, BMP2K, NAA11, GLRB, GRIA2, GASK1B, TMEM144, RXFP1, C4orf46, ETFDH, PPID, FNIP2, RAPGEF2
CLR	9	TPK1, CACNA2D1, HGF, SEMA3C, SEMA3D, SEMA3E, PTPN14, SMYD2, PROX1, RPS6KC1, ANGEL2
	10	THNSL1, ENKUR, PRTFDC1, CUL2, DHTKD1, UPF2, PROSER2, ECHDC3, ARHGAP21, KIAA1217, ZNF782, ZNF510, PRXL2C, HABP4, ZNF367, SLC35D2
	11	HSPH1
	12	SREBF1, RAI1, CACNG4, CACNG1, HELZ, DRG2, GID4, ATPAF2, DRC3, TOM1L2, LLGL2, JPT1, NT5C, ARHGAP44, ELAC2, NUP85, SPECC1, AKAP10, ULK2, SLC47A2, ALDH3A2, SLC47A1, RNF112, MFAP4, MAPK7, B9D1, EPN2, FAM83G, SHMT1, FLII, LLGL1, ALKBH5, SUMO2, MYO15B, SLC5A10
Cooperl	13	COL6A5, TBC1D5, NR1D2, CTDSPL
	15	PTPN4, KLKB1, SORBS2, MAIP1, LRP1B, SPATS2L, ARL4C, C2orf69, TYW5
	16	DOCK2, INSYN2B
	17	ADAM3A, ADAM18, IDO1, MACROD2
	18	WDR91, TMEM140, AGBL3, CALD1, DGK1, RHEB, TRBV27
	1	CNKSR3, MTHFD1L
	2	SNX2, SNX24, PPIC, MEGF10, NELL1, CHSY3, CXCL14, SLC25A48, IL9, LECT2, TGFB1, SMAD5, TRPC7, SPOCK1, KLHL3, MYOT, PKD2L2, FAM13B, WNT8A, NME5, BRD8, KIF20A, CDC23, GFRA3, CDC25C, FAM53C, ARHGAP26, CTNNA1, NR3C1, DNAJC18, ECSCR, EPB41L4A, ENC1, ARHGEF28, COL23A1
	3	DNAH6, GTF2IRD1, GTF2I, CUX1, SLC35F6, KCNK3, EML6, PRKCB, CHP2, ERN2, EIPR1
iHS	4	FER1L6, TRAPPC9, ZNHIT6, TTF2, CD101, CD2, IGSF3, MAB21L3, CASQ2, VANGL1, SYT6, NHLH2
	5	ANO6, SYT1, CRADD, XRCC6, DESI1, BCAT1, SSPN, ITPR2
	6	CDH8, NDRG4, SETD6, CNOT1, SLC38A7, GOT2, MMEL1, TTC34, ST3GAL3, TESK2, TOE1, MUTYH, HPDL, ZSWIM5, NFIA, ADGRG3, DRC7, KATNB1, KIFC3, ZNF319, USB1, MMP15
	7	CARMIL1, PKHD1, ADGRF5, SUPT16H, RPGRIP1, NUTM1, NOP10, SLC12A6, BCL11B, ABHD4, DAD1, TRAV4, OR6J1, OR4E1, OR4E2, GPSM3, NOTCH4, SLA-DQB1, HLA-DOB, HLA-DRA, GPX6, BTNL2

		8	<i>RNF150, TSPAN5, MCUB, FAM53A, TMEM129, FGFR3, LETM1, ZFYVE28, CFAP99, RNF4, FAM193A, TNIP2, SH3BP2, ADD1, MSANTD1, RGS12, HGFAC, LRPAP1, HMX1, SLBP</i>
		9	<i>CRPPA, LRRC72, ANKMY2, BZW2, TSPAN13, AGR2, AHR, GRAMD1B, STK33, DSCAML1, OR51A7, OR51T1, DLG2</i>
		11	<i>UPF3A, ATP11A, MCF2L, NALF1, SLAIN1, OBII, CCDC122, ENOX1</i>
		12	<i>MAP2K4, FOXK2, NARF, CYBC1, HEXD</i>
		13	<i>ULK4, TRAK1, CCK, LYZL4, VIPR1, SEC22C, ZNF662, POMGNT2, SNRK, ANO10</i>
		15	<i>SPAG16, NGEF, NEU2, TMEM163</i>
		17	<i>MKKS, IKBKB, POLB, GDAP1L1, FITM2, SPTLC3, ISM1, MACROD2, KIF16B, TCF15, SCRT2, SRXN1</i>
		18	<i>MINDY4, GHRHR, GPR37, MDFIC</i>
		1	<i>CNKS3, TTLL11, NDUFA8, MORN5, RBM18, MRRF, ASTN2, RAB14, EYA4, NTNG2, CFAP77, BARHL1, DDX31, AK8</i>
		2	<i>NELL1, CXCL14, LECT2, TGFBI, SMAD5, TRPC7, SPOCK1, KLHL3, MYOT, FAM13B, GFRA3, CDC25C, FAM53C, ARHGAP26, NR3C1, DNAJC18, ECSCR, NEUROG1, PKN1, DDX39A, ADGRE5, NWD1, SMIM7, MED26, SLC35E1, CHERP, C19orf44, CALR3, EPSI5L1, KLF2, CACNA1A, MAST3, OSBP, RPS6KA4, ZFTA, LGALS12, PLAAT5, SFI</i>
		3	<i>ADGRF3, HADHB, HADHA, ZNF713, SEPTIN14, CARD11, ACTB, FSCN1, RNF216, BABAM2, TMC7, HS3ST4, COQ7, ROCK2, ITPR1P2, SLC1A4</i>
		4	<i>MTF2, DIPK1A, LAMTOR5, SLC16A4, RBM15, SLC6A17, CD2, IGSF3, MAB21L3, VANG1, NHLH2</i>
		5	<i>KITLG, PTPRQ, IRAK3, TMPO, PHF21B, GTSE1, TTC38, CDPF1, PP4A, FBLN1, CRACR2A, CELSR1, TRMU, EP300, SMIM45, CENPM, TNFRSF13C, ITPR2</i>
		6	<i>CDH8, FGGY, FAAH, DMBX1, KNCN, SLC6A9, CCDC24, B4GALT2, ATP6V0B, DPH2, HECTD3, EIF2B3, PTCH2, BTBD19, DYNLT4, PLK3, BEST4, ARMH1, TMEM53, RNF220, SPATA6, NSUN4, TESK2, TOE1, MUTYH, HPDL, ZSWIM5, TMEM275, NFIA, JAK1, CACHD1, COLEC12, THOC1, USP14, GREB1L, ESCO1, CPNE2, PSME3IP1, HMGB4</i>
nSL		7	<i>FOXN3, CARMIL1, ABHD17C, CEMIP, SALL2, METTL3, TOX4, RAB2B, CHD8, RPRIP1, ZNF219, ARHGEF40, SETD3, CCNK, BAZ1A, CFL2, APIG2, THTPA, ZFH2, MYH7, MYH6, CMTM5, IL25, EFS, SLC22A17, PABPN1, PPP1R3E, HOMEZ, C14orf93, AJUBA, HAUS4, OXAIL, NRG4, OR10G3, RIPK1, BPHL, BCL2L2, FARS2, DNAH8, ADPGK</i>
		8	<i>CC2D2A, FBXL5, CPEB2, UCHL1, GLRB, PPP2R2C, STX18, SLC2A9, RAB28</i>
		9	<i>DGKB, AGMO, MEOX2, TPK1, ETS1, RABGAP1L, CACYBP, RUNDC3B, ELAPOR2, GRM3, TSKU, ACER3, HBB, HBE1, OR51B5, HHAT, OR51A7, OR51T1, OR51V1, OR51M1</i>
		10	<i>KCTD3, ESRRG, THNSL1, ITIH5, CCNY, FZD8, MSRB2</i>
		11	<i>VWA8, ENOX1, IPO5</i>
		12	<i>MED9, RASD1, CEP95, DDX5, POLG2, DNAH9, MAP2K4</i>
		13	<i>NEK11, RAB5A, PP2D1, KAT2B, UBE2E1, NKIRAS1, CTNBN1, ULK4, CTDSP1, VILL, PLCD1, DLEC1, MYD88, ACAA1</i>
		14	<i>AGT, COG2, SRGN, VPS26A, ROR2, LPL, CPXM2, NKX1-2, LHPP, FAM53B, XPNPEP1, ADD3</i>
		15	<i>C2orf76, SPAG16, ATG16L1, SAG, DGKD, MAIP1, TRPM8, AGAP1, USP40, SATB2</i>
		16	<i>EXOC3, SLC9A3, SEMA5A</i>
		17	<i>SLCO4A1, GATA5, PLCB4, IKBKB, POLB, DKK4, VDAC3, SLC20A2, MACROD2, PCSK2, ANKRD60</i>
		18	<i>PDE1C, FAM221A, UPP1</i>
		1	<i>PRKN, SCAF8, MTHFD1L, TXLNB, HECA, TRDN, CLVS2, DPH6, CDC26, PRPF4, RNF183, WDR31, BSPRY, HDHD3, ALAD, POLE3, COL27A1, TLR4</i>
		2	<i>FNBP4, AGBL2, ACCS, ACCSL, ALKBH3, HSD17B12, TTC17, API5, TRPC7</i>
		3	<i>ARID5A, NEURL3, SNRNP200, CIAO1, TMEM127, STARD7, SH3RF3</i>
		4	<i>COL14A1</i>
		5	<i>LTA4H</i>
		6	<i>CDH8, EIF2B3, PTCH2, BTBD19, DYNLT4, PLK3, BEST4, KIF2C, ARMH1, TMEM53, RNF220</i>
		7	<i>DICER1</i>
XP-EHH		8	<i>SETD7, RAB33B, NOCT</i>
		9	<i>DGKB, AGMO, MEOX2, CRPPA, SOSTDC1, LRRC72, ANKMY2, BZW2, TSPAN13, AGR2, AHR, SNX13, HDAC9, SEMA3E, SMYD2, PROX1</i>
		10	<i>CHML, GREM2</i>
		12	<i>CACNG4, CACNG1, HELZ, PSMD12, PITPNC1, BPTF, C17orf58, SMURF2, CEP95, DDX5, POLG2, MILR1, PECAM1, PMP22, TEK3</i>
		13	<i>DPH3, OXNAD1</i>
		15	<i>KCNH7, FIGN, COL4A3</i>
		16	<i>CTNND2, BRIX1, NUDCD2, CCNG1</i>
		18	<i>MKLN1</i>
		1	<i>APBA2, ENTREP2, TRPM1, TAB2, PIGB, RAB27A, PIGBOS1, PNLD1, MRPL18, TCP1, ACAT2, FND1, IGF2R, RANBP6, ERMP1, RIC1, PDCC1LG2, CD274, PLGRKT, BNIP2, INSL6, JAK2, FAM81A, AK3, CDC37L1, OTUD7A, KLF13, USP20, FNBP1, GPR107, NCSI</i>
		2	<i>AFF4, IFTAP, TRAF6, PRR5L, TRIM44, PAMR1, SLC1A2, FOSL1, FIBP, CTSW, EFEMP2, DRAP1, C11orf68, CCDC85B</i>
Topigs	CLR	3	<i>LRRTM4, SOCS5, SLC8A1, RABGEF1, KCTD7, TPST1, VKORC1L1, ZNF713, SEPTIN14, SBDS</i>
		4	<i>EYA1, COL22A1, SLC25A24, AMPD2, GNAT2, GNAI3, AMIGO1, CYB561D1, ATXN7L2, SYPL2, PSMA5, SORT1, MYBPHL, PSRC1, CELSR2, MAGI3, CSMD3, GPR61, SPAG1, POLR2K, FBXO43</i>

	5	<i>NEDD1, GNPTAB, DRAM1, SPIC, ARL1, UTP20, NUP37, CERK, GRAMD4, CELSR1, SMIM10L1</i>
	6	<i>CCDC178, ASXL3, PKD1L2, C16orf46, CENPN, FGGY, RNF11, CCNE1, PATJ, MIER1, DNAI4, ABHD3, MIB1</i>
	7	<i>TJAP1, LRRC73, YIPF3, POLR1C</i>
	8	<i>CC2D2A, FBXL5, DHX15, FAM184B, NCAPG, LCORL, PDLIM5, SMARCAD1, PRMT9, TMEM184C, RASL11B, SCFD2, SGCB, SPATA18, MAP9, TLL1, TMEM192, GUCY1A1, GUCY1B1, ASIC5, TDO2, CTSO, ETFDH, PPID, MAN2B2</i>
	9	<i>ACBD6, MTNR1B, TENM4, DLG2</i>
	11	<i>IPO5, FNDC3A, POMP, SLC46A3</i>
	12	<i>ALOX15B, ALOX12B, ALOXE3, HES7, PER1, VAMP2, LLGL2, TSEN54, CASKIN2, TMEM94, SEPTIN9, WBP2, UNC13D, UNK, SEC14L1, GUCY2D</i>
	13	<i>CPNE4, NEK11, RFTN1, UBE2E1, NKIRASI, CNOT10, TRIM71, CCR4, GLB1, CCDC13, HIGD1A, DNAH12, CTDSPL, VILL, PLCD1, DLEC1, MYD88, ACAA1</i>
	14	<i>MAPKAPK5, GPR26, DOCK1, ASCC2, MTMR3, BTA1F1, CPEB3, FGFBP3</i>
	15	<i>PECR, XRCC5, PDLIM3, FAM237A, DYTN, HDAC4, TWIST2</i>
	16	<i>TNPO1, TTC1, ADRA1B, SEMA5A, TAS2R1</i>
	17	<i>MTUS1, PCM1, ASAH1, SLC23A2, GPCPD1, TRMT6, MCM8, CRLS1, FERMT1, CEBPB, RSPO4</i>
	18	<i>DGKI, PTPRN2</i>
	1	<i>COL19A1, COL9A1, ULBP1, ARMC2, CD164, ZBTB24, CCDC170, ARMT1, AKAP12, MTHFD1L, SLC16A10, IYD, PPP1R14C, KATNA1, GINM1, PPIL4, ZC3H12D, TAB2, ENTREP1, PGM5, TMEM252, PIP5K1B, TJP2, ZBTB43, CXCL14, NEUROG1</i>
	2	
	3	<i>THUMPD2, TMEM178A, RBFOX1, TMEM248, DCDC2C</i>
	4	<i>FAM135B, TRAPPC9, KCNK9, KCND3</i>
	5	<i>SLC38A2, IGFBP6, SOAT2, CSAD, ZNF740, ITGB7, RARG, PAWR, RPS19BP1, ATF4, MGAT3, TAB1, SYNGR1, RPL3, MRTFA, SGSM3, TNRC6B, FAM83F, GRAP2, KCNJ4</i>
	6	<i>IFI44L, IFI44, FHOD3, TPGS2, KIAA1328, CDKN2C, FAF1, NFIA, ACTN4, ADGRG1, ADGRG3, CCDC102A, ADGRG5, PSMD7, WWP2, RYR1</i>
	7	<i>TMC3, PPP1R36, SLCO3A1, TMEM63C, SETD3, CCNK, CCDC85C, OLF42-1, GABBR1, DST, TRIM38, OLF42-3, H2AC4</i>
	8	<i>SLC34A2, TSPAN5, PLA2G12A, CASP6, MCUB</i>
iHS	9	<i>PIWIL4, OR51C1P, OR51E1, TRIM68, RRM1, TENM4, RPS6KC1, KCNK2, TRAF5, RCOR3, MYO7A, OR51L1, OR51G1, OR51G2, OR51A7, OR51T1, OR51S1, OR51F2, OR52R1, OR51F1, OR51E2, OR52M1</i>
	10	<i>JCAD, BEND7, GAD2, NEBL, USP6NL</i>
	11	<i>GPC5</i>
	12	<i>SLC39A11, DNAH9, CANT1, LGALS3BP, USP36, CYTH1, DNAH17</i>
	13	<i>FHIT, SLC4A7, THRB</i>
	14	<i>GALNTL6, ADRA1A, CLU, SCARA3, CCDC25, PBK, ADAM28, ADAMDEC1, ADAM7, HECTD2, POLE, P2RX2, NOC4L, DDX51, EP400, ADGRD1, GALNT9</i>
	15	<i>EPHA4, COL4A3, SGPP2, TENM3, WWC2, MDH1B, FASTKD2, ARHGAP15, ADAM23, DYTN, TRAF3IP1, HES6, PER2, ASB1, RBM44, RAMP1, SCLY, ESPNL, KLHL30</i>
	16	<i>ITGA1, ARL15, CCDC152, LMBRD2, SKP2, NADK2, CDH12, TIMD4, DNAH5, CIQTNF2, CCNJL, TTC1, ADRA1B</i>
	17	<i>LSM14B, PSMA7, SS18L1, SLC7A2, ANK1, PTGIS, DEFB121, DEFB128, DEFB127, DEFB116, DEFB123, COX4I2, BCL2L1, DUSP15, TTLL9</i>
	18	<i>WNT2, ST7, FOXP2</i>
	1	<i>CCDC170, ARMT1, IYD, ZC3H12D, TAB2, UST, SASHI, TCF12, LEO1, UHRF2, RANBP6, IL33, SPATA6L, SLC1A1, GLIS3, CDC37L1, PLPP6, RALGPS1, RXRA, USP20, FNBP1, NCS1, HMCN2</i>
	2	<i>MACROH2A1, CXCL14, NR3C1, NEUROG1, HBEGF, SLC4A9, TMC06, IK, WDR55, HARS1, DND1, HARS2, OSBP, C2CD4C</i>
	3	<i>SLC8A1, C2orf68, TMEM150A, RNF181, VAMP5, VAMP8, GGCX, MAT2A, ATF7IP2, GRIN2A, RBFOX1, TTYH3, LFNG, KPNA7</i>
	4	<i>STXBP3, KCND3, DDX20, INKA2, RAPIA, PKHD1L1, CSMD3, SPAG1</i>
	5	<i>PAH, CDK17, ELK3, TMCC3, MGAT3, TAB1, MRTFA, SGSM3, TNRC6B, FAM83F, GRAP2</i>
	6	<i>DYNLRB2, CDKN2C, FAF1, FOXO6, SCMH1, SLFNL1, CTPS1, NFIA, ADGRG1, ADGRG3, CDH3, ADAMTS18, TNFRSF1B, ACTL8, CAPZB, NBL1, TMC04, SH2D5, HP1BP3, EIF4G3</i>
	7	<i>TTC7B, AK7, LGMN, GOLGA5, CHGA, GFOD1, DST, SCGN, HMGAI, SMIM29, H2AC1, H2BC1, NUDT3</i>
nSL	8	<i>UGT8, USP46, STK32B, CRMP1, EVC2, STX18, OTOP1, RGS12, DRD5</i>
	9	<i>CD34, OPCML, ARHGEF5, PPFIA4, CDK14, TNR, GRM5, NOX4, RPS6KC1, GUCY1A2, KCNK2, SOX13, ETNK2, AQP11, CLNS1A</i>
	10	<i>PHYH, MCM10, OPTN, APBB1IP, ENKUR, PRTFDC1, SMYD3, WDR37, IDI1, GTPBP4, PARD3, DNAJC1, MLLT10, NEBL, ARHGAP21, KIAA1217, DDX39, CAMSAP2, KIF14</i>
	11	<i>CARS2, ING1, SLAH3, PCDH8, DGKH, VWA8, ELF1, SUGT1, GPC6, DCT, METTL21C, SLC10A2, FARP1</i>
	12	<i>LHX1, AATF, KRT32, KRT31, NF1, KRT40, KRT39, SPNS3, NTN1, STX8, RPL38, TTYH2, CSNK1D, SLC16A3, SLC39A11, PIRT, TEK3, LRRC75A, TRPV2, UBB, PIGL</i>
	13	<i>FHIT, PTPRG, CLSTN2, RBP2, RASA2, PMAP-23</i>
	14	<i>ROR2, DOCK1</i>
	15	<i>DLGAP2, TENM3, WWC2, CDKN2AIP, ING2, CLDN22, MDH1B, NEU4, ADAM23, FAM237A, DYTN, THAP4, ATG4B, DTYMK, ING5, D2HGDH, GAL3ST2, PDCD1, DUSP28, ASB1, KIF1A, AGXT, CHN1</i>
	16	<i>SRD5A1, NSUN2, CIQTNF2, CCNJL, TTC1, ADRA1B</i>

XP-EHH	17	<i>ZMAT4, SLC7A2, MTUS1, PCMI, ASAH1, ANK1, CHRNA3, CHRNA6, THAP1, FNTA, POMK, ZHX3, TOX2, CDH4, ADRA1D, COX4I2, BCL2L1, MYLK2, FOXS1, DUSP15</i>
	18	<i>VOPPI, KBTBD2, NUDCD3, CFTR, NCAPG2, PTPRN2, LMBR1, PAXIP1, DPP6, ZYX, FAM131B, CLCN1, PRSS2, PRSS58, TAS2R39</i>
	1	<i>RGS17, LRP11, PCMT1, NUP43, SCAF8, LATS1, KATNA1, GINM1, PPIL4, ZC3H12D, TAB2, TLR4, ELP1, PTPN3, COL27A1, ACTL7B, ACTL7A, REPS1, ECT2L, CCDC28A, NHSL1, CITED2, TXLNB, HECA, ABRACL</i>
	2	<i>TCF7, SKP1, PPP2CA, CDKL3, UBE2B, MCC, DCP2, APC, REEP5, SRP19, CNTF, LPXN, AGBL2, OR5B21, OR5B3, ZFP91</i>
	4	<i>XKR4, NTRK1, INSRR, PKLR, HCN3, CLK2, SCAMP3, ENTREP3, GBA1, MTX1, THBS3</i>
	5	<i>SOCS2, CACNA1I, RPL3, PDGFB, GRAP2, ENTHD1</i>
	6	<i>CDH8, NOL4, AXL, HNRNPUL1</i>
	7	<i>PRIM2, COL21A1, VPS52, RPS18, B3GALT4, WDR46, PFDN6, RGL2, TAPBP</i>
	8	<i>ADD1, MFSD10, NOP14, GRK4</i>
	9	<i>TRIM77, NAALAD2, CHORDC1, FOLH1B</i>
	10	<i>CEP170, SDCCAG8, WDR64, CHML, MALRD1, PLXDC2</i>
	11	<i>SPART, CCNA1</i>
	12	<i>WFIKK2, ARL4D</i>
	14	<i>PGBD5, GALNT2, DISC1, EBF2, ATRNL1</i>
	15	<i>COL4A3, NCKAP5, GPR39, NRG1, WRN, PURG, PPP2CB, UBXN8, GSR, GTF2E2, SMIM18, RBPMS</i>
	16	<i>TENM2, CTNND2, ADAMTS16</i>
	17	<i>SLC20A2</i>
	18	<i>DGKI, PTN, MRPS33</i>