Cluster: 1 donor donor 1 tissue plate\_number 2 stage 3 2 sample tissue cluster IL7R Blood IL7R LTB AC116533.1 AC079250.1 RPL35P5 BTG1 RPL23AP42 RPS21 RPS12 RPS12 RPL13 RPL13P12 TXNIP Thymus plate\_number LCE508 LCE509 LCE511 LCE512 TXNIP ZFP36L2 LCE513 JAK1 HNRNPU EEF1A1P13 MTND4P24 LCE514 stage S1 (CD4+/CD161-) LDHA HSPA5 S2 (CD4-/CD161-) HSPA5 CANX PIK3IP1 SPATA13 LGALS8 UBN1 TSC22D3 WAPL RAD9A ZMYND11 TSPAN32 LINC01138 TMEM30A CRYBG1 S3 (CD4-/CD161+) Unknown sample Blood.1 Blood.2 Blood.3 Thymus.1 TMEM30A CRYBG1 TRMT10C ATAD2B NOL9 PARP11 DPP4 PCGF5 TMEM192 Thymus.2 Thymus.3 cluster 1 2 IFNG-AS1 NINJ1 NPTN GMEB1 3 4 Sig MID1IP1 CLDN15 No AC105052.4 CCDC142 IFT27 RPL23AP37 RGS1 CISH RAB11FIP3 AC013470.3 FAM241A AL138721.1 MXRA7 MXRA7 TSPAN17 PPP1R13B TACO1 LIN7B SAAL1 AACS CR1 TSNARE1 AC078846.1 KLHI 25 KLHL25 KIT ALG11 ALG11 MATN2 PRSS35 AC092650.1 AC243654.2 AL161891.1 RASSF8-AS1 RASSF8-AS AC104791.2 PTGER2 CCL3L1 IRX3 FBXL15 GTSE1 DBF4P1 TEX261 RPL23AP64 ADAM19 APAF1 SYNGR2 RFC4 RFC4 NELFB DUSP16 TMEM134 HAT1 HPRT1 METAP1 ATF7IP2 CD69 SDAD1 RPL12P19

Cluster: 2 donor donor tissue plate\_number 2 stage 3 sample 2 cluster tissue SNORD3B-1 Blood SNORD3C SNORD3A SNORD3B-2 Thymus SNORD3B-; RPL27A AL161787.1 AL591846.1 CCL5 IFITM2 NKG7 HCST plate\_number LCE508 LCE509 LCE511 LCE512 S100A4 TOMM7 SRGN LCE513 LCE514 AHNAK CD74 S100A6 stage S1 (CD4+/CD161-) **GNLY** JUN S2 (CD4-/CD161-) B2M S3 (CD4-/CD161+) FLNA IRF1 LINC00861 Unknown LINC00861 CD81 5\_8S\_rRNA\_ENSG00000277739.1 RNA5-8SN5 PYHIN1 LYAR LITAF IL18RAP PRF1 HLA-H EFHD2 SLAME7 sample Blood.1 Blood.2 Blood.3 Thymus.1 Thymus.2 Thymus.3 IL2RB PLAAT4 cluster MIAT HOPX GLIPR1 1 2 EHD1 CCDC107 LINC01871 3 4 TGFBR3
ABHD17AP6
TAGAP
TMC01
SNORD13
MT1XP1
SELENOK
SERPINB9
PTGER4
PTMS
KEAP1
CCNDBP1
FGFBP2
CPD
TGFBR1
RASSF2 Sig No Yes RASSF2 USP28 S1PR5 SLC15A4 PLEKHG3 RIOX2 ADRB2 SEMA4C FCGR3A FCGR3B TIMM22 TIMM22 TGIF1 CRIP1 CYTH3 PRR5L PACSIN1 PLCG2 CLDND2 GLYCTK PRSS23 GMPPB AC090543.1 AL356488.3 AL356488. BLOC155 ANXA2P2 WWC3 HSPA1A PSMG2 CX3CR1 GZMB GZMH ARHGEF3 MT2A ID2 CST7 CD247 GZMA LAPTM5 HLA-B HLA-C

Cluster: 3 donor donor 1 tissue 4 plate\_number 2 stage 3 2 sample cluster tissue AC114801.3 Blood MT-RNR2 MTRNR2L12 MTRNR2L8 Thymus MTRNR2L8 MT-ND2 MT-ND1 MTND1P23 NPIPB4 NPIPB5 NPIPB11 NPIPB3 NPIPB13 MT-TD MTCO1P40 HSP90AA1 PRRC2C SON plate\_number -2 LCE508 LCE509 LCE511 LCE512 LCE513 LCE514 stage PRRC2C SON SEPTIN6 MT-ND4 MT-ND3 MT-CYB MT-CO1 MTCO1P12 MT-CO2 MT-CO2 MT-CO3 S1 (CD4+/CD161-) S2 (CD4-/CD161-) S3 (CD4-/CD161+) Unknown sample Blood.1 MT-ATP6 MTATP6P1 Blood.2 ANP32B XAF1 KMT2E Blood.3 Thymus.1 MLLT6 SRSF11 N4BP2L2 Thymus.2 Thymus.3 ANKRD36B ANKRD36C ANKRD36C PRPF38B BPTF AKAP9 RBM25 cluster 1 2 MACF1 AC092683.1 NBPF10 NBPF20 3 4 Sig CCDC88C HSP90AA2P No EIF5B NIPBL Yes ASH1L GOLGA4 CEP350 NEMF ST3GAL1 BDP1 VHL ABCF1 RNF149 MALAT1 RABEP1 AC017116.2 DOCK10 CCZ1 MTR DMTF1 SERBP1P5 DDX39B VPS53 RAF1 NFIC NDUFS1 PNKP AC027290.2 ZDHHC18 ATF6B MRPL47 BX890604.2 EIF5P1 PIGG ARHGAP5 OSBPL2 NT5DC1 TMEM116 AC097376.3 DALRD3 PPP3CB-AS1 SERPINB6 SLC35C1 RN7SL246P HOXA6 PCNX2 AGAP12P CCDC88B ARID4A MATK COX17 GOLGA8B TRIM56 PPP1R12A BTN3A2 SCAF11 SRSF7

Cluster: 4 donor donor 1 tissue plate\_number 2 stage 3 sample 2 cluster tissue AC078817.1 Blood AL121871.1 RPL26P19 RPL10P16 Thymus RPL10P16 EEF1A1P6 EEF1A1 ACTB ACTG1 RPL24P4 BCL11B H3F3AP6 H3F3AP6 H3F3AP6 H3F3AP6 H3F3AP4 RPS20P14 ATP5F1E MYL6 LEF1 SOX4 CD3D ATP5MGP3 ATP5MG TRBC1 RPS7P14 plate\_number LCE508 LCE509 LCE511 LCE512 LCE513 LCE514 stage S1 (CD4+/CD161-) S2 (CD4-/CD161-) S3 (CD4-/CD161+) Unknown RPS7P14 RPL23P2 sample PPIAP42 PPIAP29 PPIAP29 Blood.1 Blood.2 PPIAP22 PPIAP31 NACA3P NACA2 SEPTIN9 IKZF2 Blood.3 Thymus.1 Thymus.2 Thymus.3 IKZF2 AC112191.2 MSI2 SUMO2 DGKA RHOH MYL6B cluster 1 2 RGS10 NUCB2 RTKN2 ACTN1 MTF2 3 4 Sig HSPB1 Yes HSPB1P1 HSPB1P2 HSPB1P2 MFHAS1 SMPD3 TESPA1 PTEN RUNX1 ADAMTS10 HIPK2 H3F3BP1 CHMP7 SPINT2 **THEMIS** RPIA IL6ST CHST2 MAL MAST4 SMIM24 LIMS2 CHI3L2 MME CD1A LRRN3 LRRN3 LINC01307 AP000344.1 CELF5 IGHV1OR15-1 MIR181A1HG NREP TCF12 LGALS9 TCF3 TLAM1 GNAO GNAQ SNHG32 TOX MARCKSL1 PGM2L1 HNRNPA1P30 AIF1 CUX1 BCL6 RPL22P2 ID3 CASC15 JARID2 TOX2 CCR9 LCP2 GAPDHP65 COX7CP1 STMN1 MIR1244-2 MIR1244-4