

Supplementary Table S2. Signature genes list

Signature	T cell proliferation
Genes	ABL1 AGER AIF1 ANXA1 ARG1 ARG2 ARMC5 BAXBCL6 BID BMI1 BMP4 BTN2A2 BTN3A1 CADM1 CARD11 CASP3 CBLB CCDC88B CCL19 CCL5 CCND3 CCR2 CD151 CD1D CD209 CD24 CD274 CD276 CD28 CD3E CD40LG CD46 CD55 CD6 CD70 CD80 CD81 CD86 CEBPB CLCCLEC4G CLECL1P CORO1A CR1CRTAM CTLA4 CTNNB1 CTPS1 DHPS DLG1 DLG5 DNAJA3 DOCK2 DOCK8 EBI3 EFNB1 ELF4 EPO ERBB2 FADD FKBP1B FOXP3 FOXP3 FYNGLMN GPAM GPNMB HAVCR2 HES1 HHLA2 HLA-A HLA-DMB HLA-DPA1 HLA-DPB1 HLA-DRB1 HLA-E HLA-G HMGB1 ICOSLG IDO1 IGF1 IGF2 IGFBP2 IHH IL10IL12B IL12RB1 IL15IL18IL1A1IL1BIL2 IL20RB IL21IL23A IL23R IL27IL2RA IL4 IL4I1 IL6 IL6ST IRF1 ITCH JAK2 KITLG LEP LGALS3 LGALS9 LGALS9B LGALS9C LILRB1 LILRB2 LILRB4 LIPALMBR1L LMO1 LRRC32 MAD1L1 MALT1 MAPK8IP1 MARCHF7 MIR181C MIR21 MIR30B MSN NCK1 NCK2 NCKAP1L NCSTN NDFIP1 P2RX7 PAWR PDCD1LG2 PDE5A PELI1 PIK3CG PLA2G2A PLA2G2D PLA2G2E PLA2G2F PLA2G5 PNPPPP3CA PPP3CB PRDX2 PRKAR1A PRKCQ PRNP PSMB10 PTPN22 PTPN6 PTPRC PYCARD RAC2 RASAL3 RASGRP1 RC3H1 RC3H2 RIPK2 RIPK3 RPS3 RPS6 SASH3 SCGB1A1 SCRIB SDC4 SELENOK SFTPD SH2D2A SH3RF1 SHH SLAMF1 SLC11A1 SLC4A2 SLC7A1 SOS1 SOS2 SPNSPTA1 STAT5B SYKTFRC TGFBR2 TMEM131L TMIGD2 TNFRSF13C TNFRSF14 TNFRSF1B TNFRSF21 TNFRSF4 TNFRSF9 TNFSF13B TNFSF14 TNFSF18 TNFSF4 TNFSF8 TNFSF9 TP53 TRAF6 TSPAN32 TWSG1 TYK2 VCAM1 VSIG4 VSIR VTCN1 WNT4 XCL1 ZAP70 ZBTB7B ZP3 ZP4
Source	https://www.gsea-msigdb.org/gsea/msigdb/human/geneset