

Supplementary Table 2. The genes sorted into functional groups.

T cell specific genes	
Regulators of T cell activation (23)	CD2, CD276, CD47, DPP4, CD3D, CD3E, CD3G, CD4, CD7, CD80, CD86, CD8A, CD8B, FOXP3, ICOSLG, IRF4, LAG3, LCK, MAP3K7 (TAK1), MICB, NCK1, TNFSF14, VAV1.
T cell Proliferation (10)	CD28, CD3E, ICOSLG, IL1B, IL10, IL12B, IL18, NCK1, RIPK2, TNFSF14.
Differentiation (19)	ADA, APC, BCL2, BLM, CD1D, CD2, CD27 (TNFRSF7), CD4, CD80, CD86, EGR1, IL12B, IL15, IL2, IRF4, NOS2 (iNOS), PTPRC, SOCS1.
Polarisation (24)	CCL3, CCR1, CCR2, CCR3, CCR4, CCR5, CD274, CD28, CD4, CD40LG (TNFSF5), CSF2 (GM-CSF), CXCR3, CXCR4, IFNG, IL12A, IL12RB1, IL12RB2, IL18R1, IL2, IL4, IL4R, IL5, TGFB1.
Regulators of Th1 & Th2 development (15)	CD2, CD40 (TNFRSF5), CD5, CD7, CSF2 (GM-CSF), IFNG, IL10, IL12A, IL13, IL3, IL4, IL5, TLR2, TLR4, TLR9.
Regulators of Th1 & Th2 differentiation (16)	CD28, CD40 (TNFRSF5), CD40LG (TNFSF5), CD86, IFNG, IL12A, IL12B, IL12RB1, IL12RB2, IL18, IL18R1, IL2, IL2RA, IL4, IL4R, IL6.
B cell specific genes	
Antigen-dependent B cell activation (10)	CD28, CD4, CD40 (TNFRSF5), CD40LG (TNFSF5), CD80, FAS (TNFRSF6), FASLG (TNFSF6), IL10, IL2, IL4.
Other genes involved in B cell activation (7)	ADA, CXCR5, ICOSLG, IL6, IL7, MS4A1, TGFB1.
B cell proliferation (7)	BCL2, CD27 (TNFRSF7), CD40 (TNFRSF5), CD81, IL10, IL7, PTPRC.
B cell differentiation (8)	ADA, AICDA, BLNK, CD27 (TNFRSF7), IL10, IL11, IL4, RAG1.
Other immune cells	
Macrophage activation (4)	IL13, IL4, TLR1, TLR6
Neutrophil activation (1)	IL8
Natural Killer Cell activation (4)	CD2, IL12A, IL12B, IL2
Leukocyte Activation (1)	CXC3L1