

## Human Th1 & Th2 Responses PCR Array

### Th1 Genes:

Th1 Markers: CCR5, CXCR3, IFNG, STAT4, TBX21.

Th1 Immune Response: CCR2, CD80, EBI3, IL12B, IL18, IL1RL1 (ST2), IL27, IL27RA, IL4R (CD124), SLC11A1, SOCS5, TLR4, TLR6, TNFSF4, VEGFA.

Other Th1-Related Genes: CD28, CD40LG (TNFSF5), CSF2 (GM-CSF), HAVCR2, IL12RB2, IL18R1, IL2, IL2RA, IRF1, SOCS1, STAT1, TNF.

**Cell-Mediated Immunity:** BCL6, CD27 (TNFRSF7), CD28, CD40LG (TNFSF5), IFNG, IL10, IL12B, IL2, IL27RA, IL4, IL7R, LTA (TNFB), PTPRC, SLC11A1, STAT6, TBX21, TLR4, TNF, TNFSF4.

### Th2 Genes:

Th2 Markers: CCR4, GATA3, IL13, IL25 (IL17E), IL2RA (CD25), IL4, IL4R (CD124), IL5, STAT6.

Th2 Immune Response: BCL6, CCR2, CD86, IL10, IL18, IL27RA, IL6, SOCS5, TNFSF4.

Other Th2-Related Genes: CCL11 (Eotaxin), CCL5 (RANTES), CCL7 (MCP-3), CCR3, CEBPB, GFI1, GPR44, ICOS, IL13RA1, IL1R1, IL9, IRF4, JAK1, MAF, NFATC1, NFATC2, PCGF2 (RNF110).

**Humoral Immunity:** CD28, EBI3, IFNG, IL6, IL7, LTA (TNFB), TNF.

**CD4+ T Cell Markers:** CD27 (TNFRSF7), CD4, CD40LG (TNFSF5), CD80, CD86, CREBBP, CTLA4, FASLG (TNFSF6), IL15, IL6, IL6R, IL7, JAK2, LAG3, LAT, MAPK8 (JNK1), PTPRC, TGFB3, TNFRSF8, TNFRSF9, TNFSF4 (OX40L), TYK2, YY1.

**Other Genes Involved in Inflammatory Response:** JAK2, LTA (TNFB), SPP1 (Osteopontin).

**Other Genes Involved in Immune Response:** IL3, SFTPD.