

Human Antiviral Response PCR Array

Toll-Like Receptor Signaling:

Receptors and Chaperones: CTSB, CTSL1, CTSS, TLR3, TLR7, TLR8, TLR9.

Downstream Signaling: CHUK (IKK α), FOS, IKBKB, IRAK1, IRF3, IRF5, IRF7, JUN, MAP2K1 (MEK1), MAP2K3 (MEK3), MAP3K7 (TAK1), MAPK1 (ERK2), MAPK14 (p38 MAPK), MAPK3 (ERK1), MAPK8 (JNK1), MYD88, NFKB1, NFKBIA (I κ B α /MAD3), RELA, RIPK1, SPP1, TBK1, TICAM1 (TRIF), TNF, TRAF3, TRAF6.

Responsive Genes: CCL3 (MIP-1A), CCL5 (RANTES), CD40 (TNFRSF5), CD80, CD86, CXCL10 (INP10), CXCL11 (I-TAC/IP-9), CXCL9 (MIG), IFNA1, IFNA2, IFNB1, IL12A, IL12B, IL15, IL1B, IL6.

Nod-Like Receptor Signaling:

Receptors and Signaling: AIM2, CARD9, CASP1 (ICE), HSP90AA1, MEFV, NLRP3, NOD2, OAS2, PSTPIP1, PYCARD (TMS1/ASC), PYDC1 (POP1), SUGT1.

Responsive Genes: IL1B, IL18.

RIG-I-Like Receptor Signaling:

Receptors and Chaperones: CYLD, DAK, DDX58 (RIG-I), DHX58 (LGP2), IFIH1 (MDA5), ISG15 (G1P2), TRIM25.

Downstream Signaling: ATG5, AZI2, CASP10 (MCH4), CASP8 (FLICE), CHUK (IKK α), DDX3X, FADD, IKBKB, IRF3, IRF7, MAP3K1 (MEKK1), MAP3K7 (TAK1), MAPK14 (p38 MAPK), MAPK8 (JNK1), MAVS, NFKB1, NFKBIA, PIN1, RELA, RIPK1, TBK1, TNF, TRADD, TRAF3, TRAF6.

Responsive Genes: CXCL10 (INP10), IFNA1, IFNA2, IFNB1, IL12A, IL12B, IL8.

Type-I-Interferon Signaling and Response:

Signaling Pathway: IFNA1, IFNA2, IFNAR1, IFNB1, STAT1.

Interferon-Stimulated Genes (ISGs): APOBEC3G, IL15, ISG15 (G1P2), MX1, TLR3.