

Human HIV Host Response PCR Array
HIV Receptors & Natural Ligands: CCL2 (MCP-1), CCL4(MIP-1B), CCL5 (RANTES), CCR5, CD4, CXCL12 (SDF1), CXCR4.
Cellular Cofactors Involved in HIV Infection:
<u>Viral Genome Replication:</u> APOBEC3G, CD209, HTATSF1.
<u>Inflammatory Response:</u> CCR2, CCR3, CCR4.
<u>Antimicrobial Humoral Response:</u> CCR2, YY1.
<u>Apoptosis:</u> EP300, LTBR, PTK2B.
<u>Cell Cycle:</u> CCNT1, CDK7, CDK9, EP300, RBL2, SMARCB1.
<u>Cell Proliferation:</u> CDK7, CDK9, PTK2B.
<u>Cell Adhesion:</u> CCR3, CD209, PTK2B.
<u>Transcription Factors & Regulators:</u> APEX1, BCL11B, CCNT1, CREBBP, EP300, HMGA1, HTATSF1, NFATC1, RBL2, SMARCB1, TFCEP2, TSG101, YY1.
<u>Other Genes:</u> BANF1, BTRC, CBX5, CD247 (CD3Z), COPS6, ELANE, LTBR , PPIA, TRIM5, VPS4A, XPO1.
Innate Immune Response:
<u>Humoral Response:</u> IL12B, IL1B, KLRD1, XCL1.
<u>Response to Virus:</u> CCL4 (MIP-1B), CCL5 (RANTES), CCL8 (MCP-2), CXCL12 (CSF1), IFNB1, TNF.
<u>Inflammatory Response:</u> CCL2 (MCP-1), CCL3 (MIP-1A), CCL4 (MIP-1B), CCL5 (RANTES), CCL8 (MCP-2), CXCL12 (SDF1), IL10, IL1B, IL8, SERPINA1, TNF.
<u>Natural Killer Cell Activation:</u> IFNB1, IL12B, IL2.
<u>Defense Response Against Pathogens:</u> CD69, CX3CL1, IFNA1, IFNB1, IFNG.

Cell Adhesion: CCL2 (MCP-1), CCL4 (MIP-1B), CCL5 (RANTES), CD44, CX3CL1, CXCL12 (CSF1), IL8, SELL (LECAM1), TNF.

Other Genes: CD74, CR2, IFNG, IL16, MBL2, PRDX1, SERPINC1 (ATIII), SLPI, TGFB1, TNFRSF1B.

Immune Evasion: CD4, FCAR, MAP3K5.

Cellular Proteins Induced or Activated by HIV Infection:

Apoptosis: BAD, BAX, BCL2, CASP3, CASP8 (FLICE), CDKN1A (p21CIP1/WAF1), GADD45A, NFKBIA (I?Ba/MAD3), STAT1, TNFSF10 (TRAIL).

Cell Cycle: BAX, BCL2, CDK9, CDKN1A (p21CIP1/WAF1), GADD45A, IRF1, STAT1.

Cell Proliferation: BCL2, CDK9, CDKN1A (p21CIP1/WAF1), IRF2.

