

Oligo GEArray® Human Autoimmune and Inflammatory Response Microarray

HybTube Format Cat. No. [OHS-803](#)
HybPlate Format Cat. No. [EHS-803](#)

Description

The Oligo GEArray® Human Autoimmune and Inflammatory Response Microarray profiles the expression of 440 genes involved in the autoimmunity and inflammation immune responses. It represents expression of inflammatory cytokines, chemokines, and their receptors. It contains genes related to cytokine metabolism and the production of cytokines. Genes involved in cytokine-cytokine receptor interactions are also included. Thoroughly researched panels of genes involved in the acute-phase response, inflammatory response, and humoral immune responses are represented as well. Through a simple side-by-side hybridization experiment you can determine differential gene expression between your samples.

Functional Gene Groupings

Cytokines:

Chemokines: CCL1, CCL11, CCL13, CCL16, CCL17, CCL18, CCL19, CCL2, CCL20, CCL21, CCL22, CCL23, CCL24, CCL25, CCL26, CCL27, CCL28, CCL3, CCL3L1, CCL4, CCL4L1, CCL5, CCL7, CCL8, CKLF, CX3CL1, CXCL1, CXCL10, CXCL11, CXCL12, CXCL13, CXCL14, CXCL2, CXCL3, CXCL5, CXCL6, CXCL9, CYP26B1, IL13, IL8, PF4V1, PPBP, PXMP2, XCL1.

Other Cytokines: AREG, BMP1, BMP2, BMP3, BMP7, CAST, CD40LG, CER1, CKLFSF1, CKLFSF2, CLC, CSF1, CSF2, CSF3, CTF1, CXCL16, EBI3, ECGF1, EDA, EPO, ERBB2, ERBB2IP, FAM3B, FASLG, FGF10, FGF12, FIGF, FLT3LG, GDF2, GDF3, GDF5, GDF6, GDF8, GDF9, GLMN, GPI, GREM1, GREM2, GRN, IFNA1, IFNA14, IFNA2, IFNA4, IFNA8, IFNB1, IFNE1, IFNG, IFNK, IFNW1, IFNWP2, IK, IL10, IL11, IL12A, IL12B, IL15, IL16, IL17, IL17B, IL17C, IL17D, IL17E, IL17F, IL18, IL19, IL1A, IL1B, IL1F10, IL1F5, IL1F6, IL1F7, IL1F8, IL1F9, IL1RN, IL2, IL20, IL21, IL22, IL23A, IL24, IL26, IL27, IL28B, IL29, IL3, IL32, IL4, IL5, IL6, IL7, IL9, INHA, INHBA, INHBB, KITLG, LASS1, LEFTY1, LEFTY2, LIF, LTA, LTB, MDK, MIF, MUC4, NODAL, OSM, PBEF1, PDGFA, PDGFB, PRL, PTN, SCGB1A1, SCGB3A1, SCYE1, SDCBP, SECTM1, SIVA, SLC01A2, SLURP1, SOCS2, SPP1, SPRED1, SRGAP1, THPO, TNF, TNFRSF11B, TNFSF10, TNFSF11, TNFSF13, TNFSF13B, TNFSF14, TNFSF15, TNFSF18, TNFSF4, TNFSF7, TNFSF8, TNFSF9, TRAP1, VEGF, VEGFB, YARS.

Cytokine Receptors:

Cytokine Receptors: CNTFR, CSF2RA, CSF2RB, CSF3R, EBI3, EPOR, F3, GFRA1, GFRA2, GHR, IFNAR1, IFNAR2, IFNGR1, IFNGR2, IL10RA, IL10RB, IL11RA, IL12B, IL12RB1, IL12RB2, IL13RA1, IL13RA2, IL15RA, IL17R, IL17RB, IL18R1, IL1R1, IL1R2, IL1RAP, IL1RAPL2, IL1RL1, IL1RL2, IL20RA, IL21R, IL22RA1, IL22RA2, IL28RA, IL2RA, IL2RB, IL2RG, IL31RA, IL3RA, IL4R, IL5RA, IL6R, IL6ST, IL7R, IL8RA, IL8RB, IL9R, LEPR, LIFR, MPL, OSMR, PRLR, TTN.

Chemokine Receptors: BLR1, CCL13, CCR1, CCR10, CCR2, CCR3, CCR4, CCR5, CCR6, CCR7, CCR8, CCR9, CCRL1, CCRL2, CX3CR1, CXCR3, CXCR4, CXCR6, IL8RA, IL8RB, XCR1.

Cytokine Metabolism: APOA2, ASB1, AZU1, B7H3, CD28, CD4, CD80, CD86, EBI3, GLMN, IL10, IL12B, IL17F, IL18, IL21, IL27, IL4, INHA, INHBA, INHBB, IRF4, NALP12, PRG3, S100B, SFTPD, SIGIRR, SPN, TLR1, TLR3, TLR4, TLR6, TNFRSF7, TNFSF15.

Cytokine Production: APOA2, ASB1, AZU1, B7H3, CD28, CD4, CD80, CD86, EBI3, GLMN, IL10, IL12B, IL17F, IL18, IL21, IL27, IL4, INHA, INHBA, INHBB, INS, IRF4, NALP12, NFAM1, NOX5, PRG3, S100B, SAA2, SFTPD, SIGIRR, SPN, TLR1, TLR3, TLR4, TLR6, TNFRSF7.

Other Genes involved in Cytokine-Cytokine Receptor Interaction: ACVR1, ACVR1B, ACVR2, ACVR2B, AMH, AMHR2, BMPR1A, BMPR1B, BMPR2, CCR1, CD40, CRLF2, CSF1R, CXCR3, IL18RAP, IL23R, LEP, TGFB1, TGFB2, TGFB3, TGFB1R, TGFB2R, TNFRSF1A, TNFRSF1B, TNFRSF21, TNFRSF8, TNFRSF9, XCR1.

Acute-Phase Response: AHSG, APCS, APOL2, CEBPB, CRP, F2, F8, FN1, IL22, IL6, INS, ITIH4, LBP, PAP, REG-III, SAA2, SAA3P, SAA4, SERPINA1, SERPINA3, SERPINF2, SIGIRR, STAT3.

Inflammatory Response: ADORA1, AHSG, AIF1, ALOX5, ANXA1, APOA2, APOL3, ATRN, AZU1, BCL6, BDKRB1, BLNK, C3, C3AR1, C4A, CCL1, CCL11, CCL13, CCL16, CCL17, CCL18, CCL19, CCL2, CCL20, CCL21, CCL22, CCL23, CCL24, CCL25, CCL26, CCL3, CCL3L1, CCL4, CCL4L1, CCL5, CCL7, CCL8, CCR1, CCR2, CCR3, CCR4, CCR7, CD14, CD40, CD40LG, CD74, CD97, CEBPB, CHST1, CIAS1, CKLF, CRP, CX3CL1, CXCL1, CXCL10, CXCL11, CXCL12, CXCL13, CXCL14, CXCL16, CXCL2, CXCL3, CXCL5, CXCL6, CXCL9, CYBB, DOCK2, EPHX2, F11R, FOS, FPR1, GPR68, HDAC4, HDAC5, HDAC7A, HDAC9, HRH1, ICEBERG, IFNA2, IL10, IL10RB, IL13, IL17, IL17B, IL17C, IL17D, IL17E, IL17F, IL18RAP, IL1A, IL1B, IL1F10, IL1F5, IL1F6, IL1R1, IL1RAP, IL1RN, IL20, IL22, IL31RA, IL5, IL8, IL8RA, IL8RB, IL9, IRAK2, IRF7, ITCH, ITGAL, ITGB2, KNG1, LTA4H, LTB4R, LY64, LY75, LY86, LY96, MEFV, MGLL, MIF, MMP25, MYD88, NALP12, NCR3, NFAM1, NFATC3, NFATC4, NFE2L1, NFKB1, NFRKB, NFX1, NMI, NOS2A, NR3C1, OLR1, PAP, PARP4, PLA2G2D, PLA2G7, PRDX5, PREX1, PRG2, PRG3, PROCR, PROK2, PTAFR, PTGS2, PTPRA, PTX3, REG-III, RIPK2, S100A12, S100A8, SAA2, SCUBE1, SCYE1, SELE, SERPINA3, SFTPD, SN, SPACA3, SPP1, STAB1, SYK, TACR1, TIRAP, TLR1, TLR10, TLR2, TLR3, TLR4, TLR5, TLR6, TLR7, TLR8, TLR9, TNF, TNFAIP6, TOLLIP, TPST1, VPS45A, XCR1.

Humoral Immune Response: BATF, BCL2, BF, BLNK, C1R, C2, C3, C4A, CCL16, CCL18, CCL2, CCL20, CCL22, CCL3, CCL7, CCR2, CCR6, CCR7, CCRL2, CCRL2, CD1B, CD1C, CD22, CD28, CD40, CD53, CD58, CD74, CD86, CLC, CR1, CRLF1, CSF1R, CSF2RB, CXCR3, CYBB, EBI3, FADD, GPI, IL10, IL12A, IL12B, IL12RB1, IL13, IL18, IL1B, IL2, IL26, IL4, IL6, IL7, IL7R, IRF4, ITGB2,



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LTF, LY86, LY9, LY96, MAPK11, MAPK14, MCP, NFKB1, NR4A2, PAX5, POU2AF1, POU2F2, PTAFR, RFXANK, S100B, SERPING1, SFTPD, SLA2, TNFRSF7, XCL1, XCR1, YY1.

Storage Conditions

Please check the kit components immediately after you receive this package. SuperArray is only responsible for missing items reported within two (2) business days of receipt.

GEMArray microarrays are shipped at ambient temperature enclosed in either a HybTube or ExpressPak Storage Box. They should be stored at -20°C upon receipt.

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