

Human Atherosclerosis PCR Array
Response to Stress:
<u>Inflammatory Response:</u> CCL2, CCL5, CCR1, CCR2, IL1R1, IL1R2, ITGB2, NFKB1, NOS3, SELE, SPP1, TNF.
<u>Response to Oxidative Stress:</u> APOE, CCL5, SOD1.
<u>Response to Pests, Pathogens or Parasites:</u> CCL2, CCR2, CSF2, FN1, IL4, ITGB2, TNF.
<u>Response to Virus:</u> CCL5, IFNAR2, TNF.
<u>Response to Wounding:</u> CCR1, CCR2, CTGF, FN1, PDGFB, TNF, VWF.
<u>Other Genes Related to Stress Response:</u> IFNG, PPARG, VEGFA.
Apoptosis:
<u>Anti-apoptosis:</u> BCL2, BCL2A1, BCL2L1, BIRC3, CCL2, CFLAR, FAS (TNFRSF6), IL1A, IL2, NFKB1, SERPINB2, SPP1, TGFB1, TNF, TNFAIP3.
<u>Induction of Apoptosis:</u> APOE, BAX, BID, CFLAR, FAS (TNFRSF6).
<u>Other Genes Related to Apoptosis:</u> IL5, ITGB2.
Blood Coagulation and Circulation:
<u>Blood Coagulation:</u> FGA, ITGA2, LPA, SERPINE1.
<u>Circulation:</u> APOA1, APOB, APOE, COL3A1, ELN, ENG, LPA, LPL, NPY.
<u>Platelet Activation:</u> PDGFA, PDGFB, PDGFRB, VWF.
<u>Regulation of Blood Pressure:</u> ACE, FGA.
Adhesion Molecules:
<u>Cell-cell Adhesion:</u> CD44, CDH5, ICAM1, ITGB2, SELE, SELL, TNF, VCAM1, VEGFA.
<u>Cell-matrix Adhesion:</u> CD44, ITGA2, ITGA5, ITGAX, ITGB2, SPP1.
<u>Other Genes Involved in Adhesion:</u> CCL2, CCL5, CCR1, CTGF, ELN, ENG, FN1, LAMA1, SELPLG, THBS4, TNC, VWF.
Extracellular Molecules:
<u>ECM Protease Inhibitors:</u> LPA, SERPINB2, SERPINE1.
<u>ECM Proteases:</u> ACE, MMP1, MMP3.
<u>Extracellular Matrix (ECM) Structural Constituents:</u> COL3A1, ELN, FN1.
<u>Other Extracellular Molecules:</u> ADFP, APOA1, APOB, APOE, CCL2, CCL5, CSF2, CTGF, FGA, FGF2, HBEGF (DTR), IFNAR2, IFNG, IL1A, IL2, IL3, IL4, IL5, LAMA1, LIF, LPL, NPY, PDGFA, PDGFB, SPP1, THBS4, TNC.
Lipid Transport and Metabolism:
<u>Cholesterol Metabolism:</u> ABCA1, APOA1, APOB, APOE, IL4, LDLR.
<u>Fatty Acid Metabolism:</u> FABP3, LPL, PPARA, PTGS1.

<u>Lipid Transport:</u> ABCA1, APOA1, APOB, APOE, FABP3, LDLR, LPA, LPL, MSR1.
<u>Lipoprotein Metabolism:</u> APOA1, APOE, LDLR, LPL.
<u>Steroid Metabolism:</u> NR1H3, PPARA, PPARD, PPARG, RXRA.
<u>Other Genes Related to Lipid Metabolism:</u> PLIN2, APOE, LPA.
Cell Growth and Proliferation:
<u>Growth Factors and Receptors:</u> CSF2, KDR, PDGFRB, SPP1.
<u>Negative Regulation of Cell Proliferation:</u> BCL2, FABP3, IL1A.
<u>Positive Regulation of Cell Proliferation:</u> CSF1, FGA, FGF2, HBEGF (DTR), IL2, IL3, IL5, LIF, VEGFA.
<u>Regulation of the Cell Cycle:</u> FGF2, IL1A, PDGFA, PDGFB, TGFB1, TGFB2, VEGFA.
<u>Other Genes Involved in Cell Growth and Proliferation:</u> CTGF, ELN, IFNG, IL4, NPY.
Transcription Regulators:
<u>Nuclear Receptors:</u> NR1H3, PPARA, PPARD, PPARG, RXRA.
<u>Other Transcription Regulators:</u> EGR1, KLF2, NFKB1, TNF, TNFAIP3.