

Oligo GEArray® Mouse Atherosclerosis Microarray

HybTube Format Cat. No. OMM-038
HybPlate Format Cat. No. EMM-038

Description

The Oligo GEArray® Mouse Atherosclerosis Microarray profiles the expression of 113 key genes involved in atherosclerosis. This array contains genes involved in the many biological processes involved in atherosclerosis including blood coagulation, circulation, cell-adhesion, stress response, lipid transport and metabolism, cell growth, proliferation and apoptosis. Through a simple side-by-side hybridization experiment you can determine differential gene expression between your samples.

Functional Gene Groupings

Response to Stress:

Inflammatory Response: Apoa2, Ccl11, Ccl2, Ccl20, Ccl5, Ccr1, Ccr2, Cxcl1, Ifng, Il1a, Il1b, Il2, Itgb2, Pparg, Selp, Spp1, Tgfb1, Tnf.

Response to Pest, Pathogen or Parasite: Fn1, Il10, Il2, Il4, Il6, Spp1.

Other Genes Related to Stress Response: Apoe, Bax, Bcl2l1, Sod1, Sod2.

Apoptosis:

Anti-apoptosis: Bcl2, Bcl2l1, Birc3, Il10, Spp1, Vegfa.

Induction of Apoptosis: Apoe, Bax, Tnfrsf6.

Other Genes Related to Apoptosis: Bcl2a1a, Bid, Cflar, Ifng, Il6, Nfkb1, Sod1, Tnfaip3.

Blood Coagulation and Circulation: Apoe, F7, Npy, Ptgs1, Ptgs2, Vwf.

Adhesion Molecules:

Cell-cell Adhesion: Cdh5, Icam1, Icam2, Vcam1.

Cell-matrix Adhesion: Ctgf, Itga2, Itga5, Itgax, Itgb2, Itgb3, Itgb5, Itgb7, Spp1.

Other Genes Involved in Adhesion: Cd36, Cd44, Eng, Fn1, Lama1, Scarb1, Sele, Sell, Selp, Selpl, Snn, Thbs4.

Extracellular Matrix (ECM) Molecules:

ECM Protease Inhibitors: F7, Serpinb2, Serpine1.

ECM Proteases: Ace, F7, Mmp13, Mmp1a, Mmp3, Mmp9, Serpinb2, Serpine1.

Extracellular Matrix Structural Constituents: Col3a1, Eln, Lama1.

Other Extracellular Molecules: Apoa1, Apoa2, Apoa4, Apoe, Ccl11, Ccl2, Ccl20, Ccl5, Cdh5, Csf1, Csf2, Csf3, Ctgf, Cxcl1, Dtr, Eng, Fga, Fgb, Fgf2, Fn1, Icam2, Ifnar2, Ifng, Il10, Il13, Il1a, Il1b, Il1r1, Il1r2, Il1r1l, Il2, Il3, Il4, Il5, Il6, Il7, Itga2, Itga5, Itgb2, Itgb5, Itgb7, Kdr, Lcat, Ldlr, Lif, Lpl, Npy, Pdgfa, Pdgfb, Pdgfrb, Ptgs1, Ptgs2, Sele, Selp, Selpl, Spp1, Tgfb1, Tgfb2, Tgfb3, Thbs4, Tnc, Vcam1, Vegfa, Vwf.

Lipid Transport and Metabolism:

Cholesterol Metabolism: Abca1, Apoa1, Apoa2, Apoa4, Apoe, Il4, Lcat, Ldlr, Soat2.

Fatty Acid Metabolism: Apoa2, Apob, Lypla1, Ppara, Ptgs1, Ptgs2.

Lipid Transport: Abca1, Adfp, Apoa1, Apoa2, Apoa4, Apob, Apoe, Fabp3, Ldlr, Lpl, Msr1.

Lipoprotein Metabolism: Abca1, Apoa1, Apoa2, Apoa4, Apoe, Ldlr, Lpl, Msr1, Olr1.

Steroid Metabolism: Nr1h3, Ppara, Ppard, Pparg, Rxra, Soat2.

Cell Growth and Proliferation:

Growth Factors and Receptors: Csf1, Csf2, Csf3, Ctgf, Cxcl1, Dtr, Fgf2, Il10, Il1a, Il1b, Il2, Il3, Il4, Il5, Il6, Il7, Kdr, Lif, Pdgfa, Pdgfb, Pdgfrb, Spp1, Tgfb1, Tgfb2, Tgfb3, Vegfa.

Regulation of the Cell Cycle: Fgf2, Il1a, Il1b, Pdgfa, Pdgfb, Tgfb1, Tgfb2, Tgfb3, Vegfa.

Other Genes Involved in Cell Growth and Proliferation: Eln, Eng, Fn1, Ifnar2, Ifng, Itga5, Itgb3, Ppard.

Regulators of Transcription:

Nuclear Receptors: Nr1h3, Ppara, Ppard, Pparg, Rxra.

Other Regulators of transcription: Ccl5, Egr1, Ifnar2, Ifng, Klf2, Nfkb1, Sod2.

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.

GEArray 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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References

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