Human Nitric Oxide Signaling Pathway PCR Array
Nitric Oxide Biosynthesis:
Oxidoreductases: NOS1 (nNOS), NOS2 (iNOS), NOS3 (eNOS), NQO1.
Nitric Oxide Biosynthesis Regulation: DYNLL1, GLA, HSP90AB1 (HSPCB), IL10, INS, NOS1AP.
Other Genes: AKT1, ARG2, DDAH2, DYNLL1, EGFR, GCH1, GCHFR.
Genes Induced by Nitric Oxide: CDKN1A (p21CIP1/WAF1), IL8, JUN, VEGFA.
Genes Suppressed by Nitric Oxide: CCNA1, MYB, TROAP.
Nitric Oxide Signaling Pathway: CAMK1, DLG4 (PSD95), GRIN2D, NOS1 (nNOS), PPP3CA, PRKAR1B, PRKCA.
Superoxide Metabolism:
Superoxide Release: ALOX12, DUOX1, DUOX2, NOX5, PRG3.
Oxidoreductases: ALOX12, DUOX1, DUOX2, NOS2, NOX5, SOD1, SOD2, SOD3.
Peroxidases: DUOX1, DUOX2.
Other Genes: CCS, NCF1, NCF2, PREX1.
Response to Oxidative Stress:
Anti-Apoptosis: MPO, MTL5, NME5, PRDX2, RNF7.
Antioxidants: APOE, MT3, SELS, SOD1, SOD3, SRXN1.
Glutathione Peroxidases: GPX1, GPX2, GPX3, GPX4, GPX5, GPX6.
Oxidoreductases: CAT, EPX, GPX1, GPX2, GPX3, GPX4, GPX5, GPX6, LPO, MPO, MSRA, PRDX2, PRDX6, SOD1, SOD2, SRXN1, TPO, TXNRD2.
Peroxidases: CSDE1, CYGB, EPX, GPR156, LPO, MPO, PRDX2, PRDX5, PRDX6 (AOP2), TPO, TTN.
Transcription Regulators: CSDE1, FOXM1, GLRX2, SCRT2, SIRT2, SOD2.
Other Genes: ATOX1, DUSP1 (PTPN16), GSS, KRT1, MBL2, NUDT1, OXR1, PNKP, PRNP, SCARA3, SEPP1, SGK2.