

SUPPLEMENTARY MATERIALS

Table S1. List of oxidative stress genes.

Symbol	Description	GeneBank
<i>AKRIC2</i>	Aldo-keto reductase family 1, member C2 (dihydrodiol dehydrogenase 2; bile acid binding protein; 3-alpha hydroxysteroid dehydrogenase, type III)	NM_001354
<i>ALB</i>	Albumin	NM_000477
<i>ALOX12</i>	Arachidonate 12-lipoxygenase	NM_000697
<i>AOX1</i>	Aldehyde oxidase 1	NM_001159
<i>APOE</i>	Apolipoprotein E	NM_000041
<i>ATOX1</i>	ATX1 antioxidant protein 1 homolog (yeast)	NM_004045
<i>B2M</i>	Beta-2-microglobulin	NM_004048
<i>BAG2</i>	BCL2-associated athanogene 2	NM_004282
<i>BNIP3</i>	BCL2/adenovirus E1B 19kDa interacting protein 3	NM_004052
<i>CAT</i>	Catalase	NM_001752
<i>CCL5</i>	Chemokine (C-C motif) ligand 5	NM_002985
<i>CCS</i>	Copper chaperone for superoxide dismutase	NM_005125
<i>CYBB</i>	Cytochrome b-245, beta polypeptide	NM_000397
<i>CYGB</i>	Cytoglobin	NM_134268
<i>DHCR24</i>	24-dehydrocholesterol reductase	NM_014762
<i>DUOX1</i>	Dual oxidase 1	NM_175940
<i>DUOX2</i>	Dual oxidase 2	NM_014080
<i>DUSP1</i>	Dual specificity phosphatase 1	NM_004417
<i>EPHX2</i>	Epoxide hydrolase 2, cytoplasmic	NM_001979
<i>EPX</i>	Eosinophil peroxidase	NM_000502
<i>FHL2</i>	Four and a half LIM domains 2	NM_001450
<i>FOXM1</i>	Forkhead box M1	NM_021953
<i>FTH1</i>	Ferritin, heavy polypeptide 1	NM_002032
<i>GCLC</i>	Glutamate-cysteine ligase, catalytic subunit	NM_001498
<i>GCLM</i>	Glutamate-cysteine ligase, modifier subunit	NM_002061
<i>GLA</i>	Galactosidase, alpha	NM_000169
<i>GPX1</i>	Glutathione peroxidase 1	NM_000581
<i>GPX2</i>	Glutathione peroxidase 2 (gastrointestinal)	NM_002083
<i>GPX3</i>	Glutathione peroxidase 3 (plasma)	NM_002084
<i>GPX4</i>	Glutathione peroxidase 4 (phospholipid hydroperoxidase)	NM_002085
<i>GPX5</i>	Glutathione peroxidase 5 (epididymal androgen-related protein)	NM_001509
<i>GPX6</i>	Glutathione peroxidase 6 (olfactory)	NM_182701
<i>GPX7</i>	Glutathione peroxidase 7	NM_015696
<i>GSR</i>	Glutathione reductase	NM_000637
<i>GSS</i>	Glutathione synthetase	NM_000178
<i>GSTP1</i>	Glutathione S-transferase pi 1	NM_000852

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<i>GSTZ1</i>	Glutathione transferase zeta 1	NM_001513
<i>GTF2I</i>	General transcription factor Iii	NM_001518
<i>HGDC</i>	Human Genomic DNA Contamination	SA_00105
<i>HMOX1</i>	Heme oxygenase (decycling) 1	NM_002133
<i>HPRT1</i>	Hypoxanthine phosphoribosyltransferase 1	NM_000194
<i>HSP90AA1</i>	Heat shock protein 90kDa alpha (cytosolic), class A member 1	NM_001017963
<i>HSPA1A</i>	Heat shock 70kDa protein 1A	NM_005345
<i>KRT1</i>	Keratin 1	NM_006121
<i>LHPP</i>	Phospholysine phosphohistidine inorganic pyrophosphate phosphatase	NM_022126
<i>LPO</i>	Lactoperoxidase	NM_006151
<i>MB</i>	Myoglobin	NM_005368
<i>MBL2</i>	Mannose-binding lectin (protein C) 2, soluble	NM_000242
<i>MGST3</i>	Microsomal glutathione S-transferase 3	NM_004528
<i>MPO</i>	Myeloperoxidase	NM_000250
<i>MPV17</i>	MpV17 mitochondrial inner membrane protein	NM_002437
<i>MSRA</i>	Methionine sulfoxide reductase A	NM_012331
<i>MT3</i>	Metallothionein 3	NM_005954
<i>NCF1</i>	Neutrophil cytosolic factor 1	NM_000265
<i>NCF2</i>	Neutrophil cytosolic factor 2	NM_000433
<i>NCOA7</i>	Nuclear receptor coactivator 7	NM_181782
<i>NOS2</i>	Nitric oxide synthase 2, inducible	NM_000625
<i>NOX4</i>	NADPH oxidase 4	NM_016931
<i>NOX5</i>	NADPH oxidase, EF-hand calcium binding domain 5	NM_024505
<i>NQO1</i>	NAD(P)H dehydrogenase, quinone 1	NM_000903
<i>NUDT1</i>	Nudix (nucleoside diphosphate linked moiety X)-type motif 1	NM_002452
<i>OXR1</i>	Oxidation resistance 1	NM_181354
<i>OXSRI</i>	Oxidative-stress responsive 1	NM_005109
<i>PDLIM1</i>	PDZ and LIM domain 1	NM_020992
<i>PNKP</i>	Polynucleotide kinase 3'-phosphatase	NM_007254
<i>PRDX1</i>	Peroxiredoxin 1	NM_002574
<i>PRDX2</i>	Peroxiredoxin 2	NM_005809
<i>PRDX3</i>	Peroxiredoxin 3	NM_006793
<i>PRDX4</i>	Peroxiredoxin 4	NM_006406
<i>PRDX5</i>	Peroxiredoxin 5	NM_181652
<i>PRDX6</i>	Peroxiredoxin 6	NM_004905
<i>PREX1</i>	Phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 1	NM_020820
<i>PRNP</i>	Prion protein	NM_183079
<i>PTGR1</i>	Prostaglandin reductase 1	NM_012212
<i>PTGS1</i>	Prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)	NM_000962
<i>PTGS2</i>	Prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)	NM_000963

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<i>PXDN</i>	Peroxidasin homolog (Drosophila)	NM_012293
<i>RNF7</i>	Ring finger protein 7	NM_014245
<i>RPLP0</i>	Ribosomal protein, large, P0	NM_001002
<i>SCARA3</i>	Scavenger receptor class A, member 3	NM_182826
<i>SEPP1</i>	Selenoprotein P, plasma, 1	NM_005410
<i>SFTPD</i>	Surfactant protein D	NM_003019
<i>SIRT2</i>	Sirtuin 2	NM_012237
<i>SLC7A11</i>	Solute carrier family 7 (anionic amino acid transporter light chain, xc-system), member 11	NM_014331
<i>SOD1</i>	Superoxide dismutase 1, soluble	NM_000454
<i>SOD2</i>	Superoxide dismutase 2, mitochondrial	NM_000636
<i>SOD3</i>	Superoxide dismutase 3, extracellular	NM_003102
<i>SPINK1</i>	Serine peptidase inhibitor, Kazal type 1	NM_003122
<i>SQSTM1</i>	Sequestosome 1	NM_003900
<i>SRXN1</i>	Sulfiredoxin 1	NM_080725
<i>STK25</i>	Serine/threonine kinase 25	NM_006374
<i>TPO</i>	Thyroid peroxidase	NM_000547
<i>TRAPPC6A</i>	Trafficking protein particle complex 6A	NM_024108
<i>TTN</i>	Titin	NM_003319
<i>TXN</i>	Thioredoxin	NM_003329
<i>TXNRD1</i>	Thioredoxin reductase 1	NM_003330
<i>TXNRD2</i>	Thioredoxin reductase 2	NM_006440
<i>UCP2</i>	Uncoupling protein 2 (mitochondrial, proton carrier)	NM_003355
<i>VIMP</i>	Selenoprotein S	NM_203472