

**Table S1.** Fold regulation values of genes obtained from PCR array genes expression analysis.

Gene Symbol	Gene Name	Fold Regulation		
		PC3	DU145	PNT2
<i>ALB</i>	Albumin	-5.90	1.01	-2.85
<i>ALOX</i>	Arachidonate 12-lipoxygenase	-1.17	5.79	-32.08
<i>AOX</i>	Aldehyde oxidase 1	-327.15	0.85	6.21
<i>APOE</i>	Apolipoprotein E	-5.90	1.61	-44.03
<i>ATOX1</i>	ATX1 antioxidant protein 1 homolog (yeast)	-33.60	0.80	1520.85
<i>BNIP3</i>	BCL2/adenovirus E1B 19kDa interacting protein3	-1.72	0.82	7.10
<i>CAT</i>	Catalase	12.54	1.11	-234.14
<i>CCL5</i>	Chemokine (C-C motif) ligand 5	-3.93	1.04	-2.37
<i>CCS</i>	Copper chaperone for superoxide dismutase	-40.60	1.42	12.08
<i>CYBB</i>	Cytochrome b-245, beta polypeptide	-3.04	1.78	-555.50
<i>CYGB</i>	Cytoglobin	-22.67	7.28	-7.30
<i>DHCR24</i>	24-dehydrocholesterol reductase	-49.20	3.91	66.64
<i>DUOX1</i>	Dual oxidase 1	-123.73	2.92	-1740.04
<i>DUOX2</i>	Dual oxidase 2	-10.80	5.75	-691.86
<i>DUSP1</i>	Dual specificity phosphatase 1	-1592.59	1.50	15.93
<i>EPHX2</i>	Epoxide hydrolase 2, cytoplasmic	-22.13	1.39	-367.91
<i>EPX</i>	Eosinophil peroxidase	-1.35	7.35	-82.53
<i>FOXM1</i>	Forkhead box M1	-514.00	1.64	1.91
<i>FTH1</i>	Ferritin, heavy polypeptide 1	-26499.59	0.96	3778.05
<i>GCLC</i>	Glutamate-cysteine ligase, catalytic subunit	-1.28	0.80	54.19
<i>GPX1</i>	Glutathione peroxidase 1	-54916.93	1.03	176.72
<i>GPX2</i>	Glutathione peroxidase 2 (gastrointestinal)	-5.55	1.41	-56.74
<i>GPX3</i>	Glutathione peroxidase 3 (plasma)	-2.20	2.37	-622.77
<i>GPX4</i>	Glutathione peroxidase 4 (phospholipid hydroperoxidase)	-16.40	1.41	1.70
<i>GPX5</i>	Glutathione peroxidase 5 (epididymal androgen-related protein)	-4.79	3.63	-10617.12
<i>GSR</i>	Glutathione reductase	-3.95	17.30	-42.72
<i>GSS</i>	Glutathione synthetase	-2217.57	1.02	137.20
<i>GSTP1</i>	Glutathione S-transferase pi 1	-279.77	0.93	1595.93
<i>GSTZ1</i>	Glutathione transferase zeta 1	12.54	0.96	-229.56
<i>HSPA1A</i>	Heat shock 70kDa protein 1A	59.05	3.56	-30.00
<i>KRT1</i>	Keratin 1	-5.90	0.91	-41.11
<i>LPO</i>	Lactoperoxidase	-5.90	0.02	-24.06
<i>MB</i>	Myoglobin	-3.65	1.04	-3.24
<i>MBL2</i>	Mannose-binding lectin (protein C) 2, soluble	78.98	0.02	-116.46
<i>MPO</i>	Myeloperoxidase	4429.08	0.77	-34270.58
<i>MPV</i>	MpV17 mitochondrial inner membrane protein	-2616.80	1.10	9.39
<i>MSRA</i>	Methionine sulfoxide reductase A	7.73	0.99	2.92
<i>MT3</i>	Metallothionein 3	29222.46	2.58	-29920.91
<i>NCF1</i>	Neutrophil cytosolic factor 1	-10.75	2.27	2.24
<i>NCF2</i>	Neutrophil cytosolic factor 2	-1.01	1.63	1.65
<i>NOS2</i>	Nitric oxide synthase 2, inducible	-5.67	0.57	-252.01

<i>NOX4</i>	NADPH oxidase 4	274.71	0.91	-30911.60
<i>NOX5</i>	NADPH oxidase, EF-hand calcium binding domain 5	1.11	2.21	-1.31
<i>NUDT1</i>	Nudix (nucleoside diphosphate linked moiety X)-type motif 1	-733.34	1.08	77.60
<i>PDLIM1</i>	PDZ and LIM domain 1	-442.55	0.83	18.36
<i>PRDX1</i>	Peroxiredoxin 1	-13.16	1.09	325.23
<i>PRDX2</i>	Peroxiredoxin 2	-34851.86	1.04	19.49
<i>PRDX3</i>	Peroxiredoxin 3	-2.28	0.69	35.82
<i>PRDX4</i>	Peroxiredoxin 4	-2.86	0.81	156.57
<i>PRDX5</i>	Peroxiredoxin 5	-62.60	1.04	2.31
<i>PRDX6</i>	Peroxiredoxin 6	-9.48	0.77	1.73
<i>PRNP</i>	Prion protein	-65.64	0.85	3.48
<i>PTGS1</i>	Prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)	-1.42	1.29	-43.04
<i>PTGS2</i>	Prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)	-7.28	2.32	-2.63
<i>RNF7</i>	Ring finger protein 7	1.62	0.58	1.55
<i>VIMP</i>	Selenoprotein S	-40.87	0.64	1.93
<i>SEPP1</i>	Selenoprotein P, plasma, 1	-2.13	0.52	-51.11
<i>SFTPD</i>	Surfactant protein D	79.11	1.24	-17.30
<i>SIRT2</i>	Sirtuin 2	608.29	4.23	-4412.90
<i>SOD1</i>	Superoxide dismutase 1, soluble	10.88	0.93	-2.13
<i>SOD2</i>	Superoxide dismutase 2, mitochondrial	-313.87	1.44	484.88
<i>SOD3</i>	Superoxide dismutase 3, extracellular	-48.50	2.70	-1.87
<i>SQSTM1</i>	Sequestosome 1	-376.14	1.23	150.80
<i>SRXN1</i>	Sulfiredoxin 1	7.52	2.36	-6.59
<i>TPO</i>	Thyroid peroxidase	2.77	125.15	-24.06
<i>TTN</i>	Titin	14.11	4.59	-2924.12
<i>TXNRD2</i>	Thioredoxin reductase 2	595.72	1.96	-580.28
<i>UCP2</i>	Uncoupling protein 2 (mitochondrial, proton carrier)	-5.01	1.45	-2.40
<i>AKR1C2</i>	Aldo-keto reductase family 1, member C2 (dihydrodiol dehydrogenase 2; bile acid binding protein; 3-alpha hydroxysteroid dehydrogenase, type III)	-1.27	1.12	-19.04
<i>BAG2</i>	BCL2-associated athanogene 2	17.33	0.68	-146.77
<i>FHL2</i>	Four and a half LIM domains 2	12.92	1.06	1.42
<i>GCLM</i>	Glutamate-cysteine ligase, modifier subunit	-30.28	0.88	4.25
<i>GLA</i>	Galactosidase, alpha	-66.78	0.88	-1.97
<i>HMOX1</i>	Heme oxygenase (decycling) 1	-68.47	1.07	5.04
<i>HSP90AA1</i>	Heat shock protein 90kDa alpha (cytosolic), class A member 1	-14312.07	0.84	932.67
<i>LHPP</i>	Phospholysine phosphohistidine inorganic pyrophosphate phosphatase	9.91	1.01	-6.82
<i>NCOA7</i>	Nuclear receptor coactivator 7	121.44	1.63	-338.55
<i>NQO1</i>	NAD(P)H dehydrogenase, quinone 1	-62.40	0.90	113.45

<i>PTGR1</i>	Prostaglandin reductase 1	2.67	0.97	5.73
<i>SLC7A11</i>	Solute carrier family 7 (anionic amino acid transporter light chain, xc- system), member 11	1.27	2.26	-3.24
<i>SPINK1</i>	Serine peptidase inhibitor, Kazal type 1	-14.55	1.11	-24.06
<i>TRAPPC6A</i>	Trafficking protein particle complex 6A	-25.79	0.84	8.15
<i>TXN</i>	Thioredoxin	-17.89	0.72	582.92
<i>TXNRD1</i>	Thioredoxin reductase 1	-5.90	0.87	69.26