Table S2: Differentially expressed genes at day 7 of nitrite therapy

Gene Name	Accession #	ratio	SEM	P Value
Matrix metallopeptidase 13	NM_008607	47.04	0.064	0.047
Secreted frizzled-related protein 2	NM_009144	16.54	0.034	0.033
Chemokine (C-C motif) ligand 8	NM_021443	12.03	0.012	0.032
RIKEN cDNA 1500015O10 gene	BB426248	10.41	0.026	0.024
Complement component 2 (within H-2S)	NM_013484	8.98	0.046	0.005
Paired related homeobox 2	AK019971	8.9	0.064	0.049
Matrix metallopeptidase 3	NM_010809	7.88	0.032	0.031
Adiponectin, C1Q and collagen domain containing	NM_009605	7.84	0.003	0.017
Collagen triple helix repeat containing 1	AK003674	7.82	0.007	0.045
CDNA sequence AB124611	BM246462	7.3	0.037	0.043
Lymphocyte cytosolic protein 2	BC006948	6.28	0.038	0.041
Proteoglycan 4 (megakaryocyte stimulating factor, articular superficial zone protein)	NM_021400	5.96	0.003	0.023
Perilipin	BB144871	5.71	0.021	0.036
Chondroadherin	NM_007689	5.62	0.008	0.021
ESTs	BG067883	5.49	0.057	0.003
expressed sequence AW743884	BB114398	5.45	0.007	0.045
Phosphoenolpyruvate carboxykinase 1, cytosolic	AW106963	5.29	0.023	0.025
Sushi-repeat-containing protein, X-linked 2	BC028307	5.23	0.01	0.049
Protein tyrosine phosphatase, receptor type, O	NM_011216	5.12	0.017	0.021
CD52 antigen	NM_013706	5.08	0.006	0.045
PYD and CARD domain containing	BG084230	4.97	0.013	0.048
expressed sequence AI323359	AI323359	4.84	0.004	0.046
Twist gene homolog 1 (Drosophila)	NM_011658	4.77	0.044	0.04
Protein tyrosine phosphatase, receptor type, F	BF235516	4.76	0.015	0.038
Transcribed locus	AV223337	4.64	0.031	0.008
Integrin, beta-like 1	BC020152	4.54	0.004	0.003
Thrombospondin 1	AI385532	4.44	0.002	0.038
Collagen, type XI, alpha 1	NM_007729	4.43	0.011	0.018
Coiled-coil domain containing 80	BG074158	4.38	0.007	0.011
Complement component 4B (Childo blood group)	NM_009780	4.34	0.005	0.026
Angiopoietin-like 7	BC023373	4.27	0.005	0.035
Solute carrier family 41, member 2	BC026874	4.24	0.026	0.018
Fatty acid desaturase 3	BE652876	4.24	0.02	0.025
Terf1 (TRF1)-interacting nuclear factor 2	BM238063	4.19	0.039	0.018
Transcribed locus	AK012530	4.05	0.024	0.006
Cell death-inducing DFFA-like effector c	BB221402	3.99	0.02	0.01
Alport syndrome, mental retardation, midface hypoplasia and elliptocytosis chromosomal region gene 1 homolog (human)	BM235514	3.95	0.034	0.046
Stearoyl-Coenzyme A desaturase 1	NM_009127	3.94	0.001	0.049
Parathyroid hormone receptor 1	BC013446	3.89	0.024	0.033
Transcribed locus	BB631473	3.8	0.031	0.011
Transcribed locus	AV341509	3.8	0.027	0.013
fibromodulin	AV290700	3.76	0.003	0.009
3-phosphoglycerate dehydrogenase	AA561726	3.68	0.011	0.027
Transcribed locus	BB549310	3.64	0.022	0.041
Leukocyte-associated Ig-like receptor 1	AK017222	3.64	0.021	0.04

Tenomodulin	AF291655	3.63	0.001	0.03
Matrix metallopeptidase 14 (membrane-inserted)	NM_008608	3.53	0.001	0.05
Fibulin 1	NM_010180	3.43	0.014	0.038
Nuclear receptor binding protein 2	BC012437	3.42	0.008	0.023
Interferon, alpha-inducible protein 27	AY090098	3.32	0.002	0.005
Tumor necrosis factor, alpha-induced protein 8	NM_134131	3.31	0.009	0.044
Transcribed locus	BB164127	3.28	0.019	0.049
Protein kinase, cAMP dependent regulatory, type II beta	BB216074	3.28	0.015	0.021
phosphatidylethanolamine binding protein 1	AK008037	3.28	0.03	0.049
RIKEN cDNA 1200002N14 gene	BC021433	3.27	0.006	0.043
KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 3	NM_134090	3.25	0.005	0.046
LIM domain and actin binding 1	C81400	3.14	0.004	0.027
Fatty acid desaturase 2	NM_019699	3.12	0.016	0.022
Chemokine (C-X-C motif) ligand 9	NM_008599	3.11	0.008	0.017
G-protein signalling modulator 2 (AGS3-like, C. elegans)	BC021308	3.1	0.01	0.044
RIKEN cDNA E130112L23 gene	BI412259	3.08	0.013	0.009
Nicotinamide N-methyltransferase	AK006371	3.08	0.005	0.038
Leucine-rich repeat kinase 1	BC027199	3.08	0.007	0.035
Prostaglandin I2 (prostacyclin) synthase	NM_008968	3.06	0.005	0.001
Receptor (TNFRSF)-interacting serine-threonine kinase 1	AA186144	3.05	0.009	0.039
Interferon regulatory factor 7	NM_016850	3.05	0.005	0.022
Transferrin	AF440692	3.04	0.003	0.028
RIKEN cDNA 2610528G05 gene	BB530515	3.02	0.003	0.025
Transcribed locus	BB420529	3.01	0.018	0.042
Ras association (RalGDS/AF-6) domain family member 2	AK018504	2.99	0.013	0.042
ESTs	AU067733	2.97	0.026	0.027
Adenomatosis polyposis coli down-regulated 1	BB770932	2.96	0.015	0.005
Interleukin 2 receptor, gamma chain	L20048	2.95	0.005	0.039
DCN1, defective in cullin neddylation 1, domain containing 5 (S. cerevisiae)	BE824946	2.92	0.027	0.014
Myosin IXb	NM_015742	2.91	0.006	0.031
Collagen, type I, alpha 2	BF227507	2.91	0.0001	0.031
Connective tissue growth factor	NM_010217	2.89	0.001	0.03
Solute carrier family 39 (metal ion transporter), member 6	BB825002	2.86	0.005	0.036
RIKEN cDNA 9030425E11 gene	BG072972	2.84	0.006	0.033
Adenosine monophosphate deaminase 2 (isoform L)	AV330806	2.84	0.009	0.043
tropomyosin 3, gamma	AV311925	2.81	0.008	0.037
Ring finger protein 26	BC004739	2.8	0.011	0.018
RIKEN cDNA 2610002J02 gene	AV218922	2.8	0.01	0.032
Collagen, type XXIII, alpha 1	AI429655	2.79	0.014	0.036
Biglycan	BC019502	2.76	0.0001	0.049
Ceramide kinase	BI905090	2.75	0.009	0.044
ATPase, class V, type 10A	BM249532	2.75	0.025	0.02
Myosin IE	AK018649	2.74	0.007	0.038
Ring finger protein 135	AK010429	2.67	0.012	0.026

RIKEN cDNA 3321401G04 gene	BF228051	2.67	0.017	0.033
ESTs	BM220188	2.67	0.033	0.046
ABI gene family, member 3 (NESH) binding protein	BC026627	2.67	0.003	0.03
Serine (or cysteine) peptidase inhibitor, clade B, member 1a	AF426024	2.66	0.002	0.048
Microtubule associated monoxygenase, calponin and LIM domain containing 1	NM_138315	2.65	0.012	0.032
Caspase 4, apoptosis-related cysteine peptidase	NM_007609	2.65	0.014	0.033
Transcribed locus	BM951910	2.64	0.01	0.028
SPC24, NDC80 kinetochore complex component, homolog (S. cerevisiae)	BF577722	2.63	0.021	0.028
Transcribed locus	AI481392	2.62	0.015	0.01
Transcribed locus	BF662057	2.61	0.008	0.047
Matrix metallopeptidase 2	BF147716	2.61	0.001	0.04
Guanine nucleotide binding protein (G protein), alpha inhibiting 1	BQ174580	2.61	0.007	0.0001
Solute carrier family 1 (neutral amino acid transporter), member 5	NM_009201	2.6	0.003	0.03
G-protein signalling modulator 1 (AGS3-like, C. elegans)	BC026486	2.59	0.018	0.042
Serine (or cysteine) peptidase inhibitor, clade F, member 1	NM_011340	2.58	0.0001	0.026
ESTs	BB017018	2.58	0.019	0.002
Forkhead box P1	BG962849	2.57	0.012	0.049
CD163 antigen	NM_053094	2.57	0.006	0.008
Cardiotrophin-like cytokine factor 1	BB825816	2.57	0.033	0.031
Frizzled homolog 2 (Drosophila)	BB371406	2.56	0.008	0.043
RIKEN cDNA 1110018H23 gene	AK003777	2.55	0.011	0.04
Endothelin receptor type A	AW558570	2.55	0.01	0.04
Amine oxidase, copper containing 3	NM_009675	2.52	0.004	0.042
Immunoglobulin superfamily, member 8	AF411055	2.51	0.005	0.028
Granulin	AV166504	2.5	0.0001	0.045
S-phase kinase-associated protein 2 (p45)	AV259620	2.49	0.017	0.01
Mitochondrial ribosomal protein S6	BM729431	2.49	0.004	0.005
Kruppel-like factor 16	NM_078477	2.48	0.013	0.013
Tubulin, beta 5	BG064086	2.47	0.003	0.05
ESTs	AW553802	2.47	0.017	0.044
Prickle-like 2 (Drosophila)	BQ177191	2.45	0.01	0.007
MAM domain containing 2	AK004794	2.45	0.006	0.038
Septin 5	AF033350	2.44	0.007	0.024
Transcribed locus	BB275943	2.43	0.002	0.021
Cell division cycle associated 4	AF322238	2.43	0.006	0.033
Echinoderm microtubule associated protein like 5	BB650819	2.42	0.022	0.045
Procollagen C-endopeptidase enhancer protein	BB250811	2.41	0.0001	0.039
CDNA sequence BC023892	BE687858	2.41	0.005	0.034
Wnt inhibitory factor 1	BC004048	2.4	0.022	0.009
Transmembrane protein 206	NM_025864	2.4	0.02	0.028
Keratocan	NM_008438	2.39	0.004	0.019
Neurobeachin like 1	BB022773	2.38	0.015	0.024
Interferon activated gene 204	NM_008329	2.38	0.015	0.037
S100 calcium binding protein A10 (calpactin)	AV295650	2.37	0.001	0.033

Protein phosphatase 1H (PP2C domain containing)	AU040848	2.37	0.01	0.037
Solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5	C81442	2.36	0.002	0.05
Myelin basic protein expression factor 2, repressor	U13262	2.36	0.017	0.006
Transcribed locus	BG061923	2.35	0.011	0.026
SH3 domain protein D19	NM_012059	2.34	0.002	0.049
Follistatin	NM_008046	2.33	0.007	0.024
Guanidinoacetate methyltransferase	AF015887	2.32	0.001	0.037
ESTs	AI987844	2.31	0.011	0.022
Signal peptide, CUB domain, EGF-like 2	BI133839	2.3	0.005	0.013
ESTs	BB361398	2.3	0.016	0.026
Transcribed locus	BM241342	2.27	0.011	0.024
Chordin-like 1	AV144145	2.27	0.013	0.021
Myosin, heavy polypeptide 9, non-muscle	NM_022410	2.25	0.002	0.044
Transcribed locus, strongly similar to NP_001019474.1 Lix1 homolog (mouse)-like [Rattus norvegicus]	BM502719	2.24	0.003	0.05
Transcribed locus	AV352768	2.24	0.018	0.035
Ubiquitin specific peptidase 7	BM247366	2.23	0.006	0.006
Transcribed locus	BB218653	2.23	0.01	0.034
RIKEN cDNA 4933407H18 gene	BB476293	2.23	0.004	0.005
Transmembrane protein 120A	AV069499	2.22	0.007	0.025
Transcribed locus	BM234702	2.22	0.012	0.034
SEC14 and spectrin domains 1	AV276619	2.22	0.005	0.011
Ubiquitin associated protein 2-like	AA833196	2.2	0.033	0.001
Transcribed locus	BQ033755	2.2	0.015	0.049
Integrin beta 3	AV352983	2.19	0.02	0.042
Growth differentiation factor 10	L42114	2.19	0.005	0.004
Transcribed locus	AV235415	2.18	0.014	0.02
Tissue factor pathway inhibitor	AF004833	2.18	0.006	0.039
Ring finger protein 215	C77903	2.18	0.006	0.032
Rho GTPase activating protein 18	BB667215	2.18	0.005	0.02
Neurotrophic tyrosine kinase, receptor, type 2	AK018789	2.17	0.006	0.007
Coiled-coil domain containing 102A	BB375402	2.17	0.012	0.049
Ankyrin repeat domain 29	AV370837	2.17	0.014	0.034
Zinc finger, CCHC domain containing 11	BG060248	2.16	0.017	0.014
Transcribed locus	AK017223	2.16	0.015	0.011
Pleckstrin homology domain containing, family O member 1	NM_023320	2.16	0.002	0.034
Glycoprotein m6b	AF254879	2.16	0.004	0.038
Transcribed locus	BM243944	2.15	0.016	0.029
Transcribed locus	BM239436	2.14	0.025	0.026
Ring finger protein 213	AW556558	2.14	0.001	0.022
RIKEN cDNA 4933439C10 gene	AV205521	2.14	0.012	0.038
ESTs, Weakly similar to RIKEN cDNA 5730493B19 (Mus musculus) (M.musculus)	AU040379	2.14	0.012	0.005
ATPase, Ca++ transporting, cardiac muscle, slow twitch 2	BG063183	2.14	0.015	0.022
TYRO3 protein tyrosine kinase 3	AB000828	2.13	0.034	0.029
RIKEN cDNA 1110034A24 gene	BB815668	2.13	0.015	0.009

Transmembrane protein 68	BC016240	2.12	0.006	0.016
Sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3B	NM_009153	2.12	0.007	0.038
Protein kinase N1	AI463328	2.12	0.007	0.045
Insulin-like growth factor binding protein 4	BB787243	2.12	0.0001	0.019
expressed sequence AA407331	AA407331	2.12	0.014	0.038
RNA binding motif protein 43	BC003333	2.11	0.009	0.047
expressed sequence AI197429	BI082172	2.11	0.013	0.04
CDNA sequence BC067047	BB794978	2.11	0.003	0.011
BTB and CNC homology 2	BB529913	2.11	0.013	0.04
Kelch domain containing 5	BB795533	2.1	0.009	0.026
Carbohydrate (N-acetylgalactosamine 4-0) sulfotransferase 14	AK011230	2.1	0.004	0.019
Rho GTPase activating protein 4	NM_138630	2.09	0.018	0.027
Phosphodiesterase 3B, cGMP-inhibited	AV270888	2.09	0.004	0.024
NLR family, CARD domain containing 5	AV277444	2.09	0.01	0.031
La ribonucleoprotein domain family, member 6	NM_026235	2.09	0.014	0.01
Zinc finger with KRAB and SCAN domains 3	BQ084812	2.07	0.006	0.031
ESTs	BB115513	2.07	0.016	0.031
ESTs	BB541054	2.07	0.016	0.049
Transcribed locus	AV230978	2.06	0.015	0.025
HpaII tiny fragments locus 9c	NM_008307	2.06	0.009	0.033
ESTs	BB162048	2.06	0.016	0.015
Transcribed locus	BB414446	2.05	0.002	0.023
Interleukin 6 signal transducer	BI102913	2.05	0.002	0.008
3-ketodihydrosphingosine reductase	AK018155	2.05	0.005	0.048
Transcribed locus	BB034265	2.04	0.004	0.049
Transcribed locus	AK017680	2.04	0.006	0.017
Single-stranded DNA binding protein 2	AK005150	2.04	0.015	0.012
Signal transducer and activator of transcription 1	AW214029	2.04	0.006	0.042
Ras-related associated with diabetes	NM_019662	2.04	0.005	0.042
Nischarin	BB025231	2.04	0.003	0.019
Lysophosphatidic acid receptor 1	U70622	2.04	0.003	0.019
Diacylglycerol kinase, eta	AV276089	2.03	0.011	0.036
Transcribed locus	AV340292	2.02	0.025	0.0001
Transcribed locus	AV272196	2.02	0.013	0.04
Poly (ADP-ribose) polymerase family, member 14	BC021340	2.02	0.004	0.009
Histocompatibility 2, T region locus 23	NM_010398	2.02	0.001	0.017
Frequenin homolog (Drosophila)	BE990928	2.02	0.003	0.045
Dedicator of cytokinesis 8	NM_028785	2.02	0.006	0.043
Cyclin D1	NM_007631	2.02	0.002	0.032
Tia1 cytotoxic granule-associated RNA binding protein-like 1	BM122619	2.01	0.003	0.022
matrilin 2	BB338441	2.01	0.006	0.025
Epidermal growth factor receptor pathway substrate 8	NM_007945	2	0.003	0.044
Inhibitor of Bruton agammaglobulinemia tyrosine kinase	BM250711	0.5	0.002	0.037
Transcribed locus	AW546142	0.498	0.003	0.018
Transcribed locus	AV236736	0.498	0.01	0.002
progestin and adipoQ receptor family member III	AK018174	0.498	0.01	0.021

Kelch domain containing 6	AK014702	0.495	0.011	0.011
Xenotropic and polytropic retrovirus receptor 1	AV337591	0.493	0.002	0.047
Potassium voltage gated channel, Shab-related subfamily, member 1	BB324482	0.488	0.002	0.016
Myosin, heavy polypeptide 1, skeletal muscle, adult	AJ002522	0.488	0.001	0.044
RIKEN cDNA 1190003M12 gene	AK004474	0.485	0.006	0.022
Ariadne ubiquitin-conjugating enzyme E2 binding protein homolog 1 (Drosophila)	BB354785	0.485	0.004	0.047
Fas (TNF receptor superfamily member 6)	BG976607	0.483	0.001	0.001
Glutamic pyruvate transaminase (alanine aminotransferase) 2	BG069993	0.481	0.0001	0.025
Transcribed locus	AK018397	0.472	0.004	0.031
ESTs, Weakly similar to ZF90 MOUSE ZINC FINGER PROTEIN 90 (M.musculus)	C76431	0.472	0.016	0.008
Transcribed locus	BB081359	0.469	0.007	0.005
Gene model 967, (NCBI)	AW457804	0.469	0.007	0.012
Patatin-like phospholipase domain containing 8	BB076314	0.467	0.003	0.012
Zinc finger protein 644	AU015726	0.465	0.009	0.025
Insulin-like growth factor 2 mRNA binding protein 3	BG092043	0.461	0.002	0.032
Solute carrier family 7 (cationic amino acid transporter, y+ system), member 2	BF533509	0.455	0.01	0.018
AF4/FMR2 family, member 1	BB586268	0.455	0.008	0.034
Transcribed locus	C79043	0.452	0.002	0.006
Kinesin family member 21A	BB342219	0.45	0.002	0.044
Glycerol-3-phosphate dehydrogenase 1 (soluble)	BC019391	0.45	0.0001	0.041
UEV and lactate/malate dehyrogenase domains	NM_016855	0.441	0.006	0.001
G protein-coupled receptor 137C	BQ175524	0.433	0.008	0.001
D-aspartate oxidase	BC006690	0.433	0.001	0.03
Adenylate kinase 1	BE373450	0.431	0.007	0.037
ESTs	BB165757	0.418	0.009	0.025
Minichromosome maintenance complex component 9	AV312905	0.413	0.005	0.021
ESTs, Moderately similar to I49130 reverse transcriptase - mouse (M.musculus)	BB080140	0.412	0.007	0.031
Sortilin-related receptor, LDLR class A repeats-containing	BI648081	0.391	0.004	0.015
RIKEN cDNA 3222402P14 gene	BB283973	0.391	0.0001	0.023
Protein kinase, cAMP dependent regulatory, type II alpha	AV112640	0.366	0.001	0.028
Pregnancy-specific glycoprotein 28	AF113598	0.36	0.004	0.006
Cytochrome P450, family 4, subfamily x, polypeptide 1	BB171122	0.358	0.017	0.029
Nicotinamide phosphoribosyltransferase	AW989410	0.357	0.002	0.042
Melanin-concentrating hormone receptor 1	BE647763	0.35	0.008	0.014
TEA domain family member 1	BB546942	0.347	0.009	0.017
ESTs	BB821700	0.344	0.01	0.009
Murine (DBA2) mRNA fragment for gag related peptide	BB662083	0.339	0.002	0.027
Aquaporin 4	AW489155	0.336	0.004	0.03
Transmembrane protein 106B	AK018015	0.333	0.013	0.042
Solute carrier family 38, member 4	AK003626	0.321	0.0001	0.048
Transcribed locus, strongly similar to NP_062686.1 ring-box 1 [Mus musculus]	AV038578	0.299	0.003	0.025

Calcium/calmodulin-dependent protein kinase II alpha	X14836	0.292	0.002	0.015
Hypothetical protein LOC100042207	AK017182	0.28	0.005	0.016
Transmembrane 7 superfamily member 3	AV114231	0.27	0.012	0.005
EST X83313	BG065719	0.253	0.005	0.042
Transcribed locus	AV268386	0.216	0.007	0.019
ESTs, Moderately similar to YO11 MOUSE HYPOTHETICAL PROTEIN ORF-1137 (M.musculus)	AV309800	0.211	0.002	0.007
Tubulin tyrosine ligase-like family, member 7	AK014905	0.19	0.008	0.03
ESTs, Weakly similar to JAK3 MOUSE TYROSINE-PROTEIN KINASE JAK3 (M.musculus)	BG083989	0.109	0.002	0.021
ESTs, Weakly similar to GNMSLL retrovirus-related reverse transcriptase homolog - mouse retrotransposon (M.musculus)	AI506532	0.087	0.002	0.021
ESTs	BB099075	0.084	0.004	0.002