Microarray design

The high-density cDNA microarray contained 1380 non-redundant salmonid clones obtained from EST (random clones) from common and subtracted cDNA libraries and genes chosen based on the functional classes of gene ontology (GO), as described in Krasnov et al.[1]. In brief, the platform was targeted for studies of acute conditions; it included 315 genes selected according to the Gene Ontology functional categories (e.g. stress and defense responses, regulation of cell cycle, signal transduction, chaperone activity and apoptosis). Of these, 282 clones were from the normalized multi-tissue library [2] and the rest were produced with RT PCR. Numeric representation of Gene Ontology functional categories, including all libraries and selected clones in the microarray are given in [1], Table 2. Results reported in [1] suggested that this was a suitable approach for designing the microarray as the numbers of differentially expressed genes are consistently higher among ESTs, while GO selection provides good coverage of the key functional classes. The array included clones originating from both rainbow trout (*Oncorhynchus mykiss*) and Baltic salmon (*Salmo salar*). Cross-species hybridization performances on salmonid 7.36 k cDNA microarrays have been shown to be similar within the family *Salmonidae* that includes rainbow trout and atlantic salmon [3].

Subtracted cDNA libraries were prepared from stressed rainbow trout (whole fry, brain, kidney and spleen of 1-year old fish) and M74-affected Baltic salmon whole yolk-sac fry at different stages of the disease (preclinical or terminal whole fry). Supression Subtractive Hybridization (SSH) cloning was performed as described in Diatchenko et al. [4]. Briefly, RNA was extracted with Trizol reagent (Invitrogen) and mRNA was purified with Dynabeads kit (Dynal). Tester and driver cDNA synthesis was performed with PowerScript reverse transcriptase (Clontech) and double-stranded cDNA was generated using Advantage DNA polymerase mix (Clontech). Ds cDNA was purified with phenol:chloroform:isoamylalcohol (25:24:1) – extraction. Tester and driver cDNAs were digested with RsaI. Digested cDNAs were purified with phenol:chloroform:isoamylalcohol (25:24:1) – extraction. The tester cDNA was subdivided into two portions (T1, T2), and each was ligated with a different adapter o/n at 16^{o}C using a DNA ligase (New England Biolabs). T1 and T2 were hybridized with the driver first for 8 h at 68 ^{o}C. This was followed by a second hybridization with fresh driver o/n at 68 ^{o}C. First and second round PCR amplifications of enriched differentially expressed sequences were performed with the following parameters: 1st PCR 75 ^{o}C for 5 min, optimized number of cycles at (94 ^{o}C for 30 sec, 66 ^{o}C for 30 sec, 72 ^{o}C for 1.5 min) 2nd PCR optimized number of cycles at (94 ^{o}C for 30 sec, 68 ^{o}C for 30 sec, 72 ^{o}C for 1.5 min) using Advantage DNA polymerase mix (Clontech). The products were cloned into TOPO (Invitrogen).

For the preparation of normalized libraries from stressed fish (whole fry, brain, kidney and spleen of 1-year old fish), synthesis of cDNA with PowerScript reverse transcriptase (Clontech) was primed with oligonucleotides including *EcoRI* and *NotI* sites. Double-stranded cDNA was generated using Advantage DNA polymerase mix (Clontech). The PCR products were purified with QIAquick kit (Qiagen), precipitated with ethanol and dissolved to 1 μg/μl in the hybridization buffer (1 M NaCl, 50 mM HEPES (pH 8.3), 1 mM EDTA). DNA was denaturated for 5 min at 94°C. Following re-association at 72°C for 16 hours, DNA was ethanol-precipitated and digested with 150 U of exonuclease III (MBI Fermentas) for 15 min at 37°C. This treatment eliminates re-associated double-stranded DNA. Single-stranded DNA was PCR amplified, size separated with agarose gel electrophoresis and cloned into pGEM®-11Zf (+) (Promega). The sequences were analysed with stand-alone blastn and blastx. Blastx

search was made across all vertebrate proteins at cutoff e < -10. GEO annotation of platform (GPL1212) includes accession numbers of TIGR contigs and/or EST.

The cDNA inserts were amplified with PCR using universal primers and purified with a Millipore Montage PCR96 Cleanup Kit following the manufacturer's instructions. DNA was spotted onto poly-(L) lysine-coated slides (Menzel) with Virtek ChipWriter Pro Arrayer in the Finnish DNA Microarray Centre at the Turku Centre of Biotechnology. The spotting buffer was DMSO. 8 spotting pens (Telechem) were in configuration of 2 x 4. The full array slide consisted of 12 array rows and 4 array columns. One array consisted of 13 spot rows and 14 spot columns. Spot diameter was 150 μm. Each slide consisted of 6 technical replicates of the 1380-clone array.

References

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Table 1: LPS 24 hours; Genes were selected for sig diff. At a value of p<0.01, Q values are all 0.

Clone ID	Match Name	FC	p-value	Diff log2	D Average	D Stdv	R Average	R Stdv
est03d11	Unknown-42	8.42	0.000	3.07	-1.67	0.45	1.41	0.13
est04b01	Similar to rRNA (Vangl2)	4.54	0.004	2.18	-1.28	0.42	0.90	0.06
EXOB1_H05	Transposase-6	3.16	0.000	1.66	-0.75	0.14	0.91	0.35
EXOB2_D06	NADH dehydrogenase subunit 5-1	2.76	0.000	1.46	-0.19	0.13	1.28	0.50
est02g07	Ig mu heavy chain disease protein	2.73	0.001	1.45	-0.61	0.14	0.84	0.65
est02a11	Ig kappa chain V-IV region B17-2	2.71	0.002	1.44	-0.60	0.25	0.83	0.37
EST1-3A_G09	Unknown-75	2.32	0.001	1.21	-0.35	0.07	0.87	0.61
CA383564	Coatomer epsilon subunit 1	2.25	0.001	1.17	-0.15	0.07	1.02	0.53
est04e04	MHC class 1b antigen	2.24	0.007	1.16	-0.49	0.22	0.67	0.46
EST1-3A_F12	Transposase-59	2.12	0.001	1.08	-0.28	0.10	0.80	0.43
HK0002_D09	Prothymosin alpha	2.03	0.003	1.02	-0.37	0.08	0.65	0.59
est02e09	Ig heavy chain V-III region HIL	2.00	0.005	1.00	-0.45	0.20	0.55	0.25
EXOB4_D12	Hpa repeat-1	1.99	0.001	1.00	-0.67	0.14	0.32	0.23
HK0003_E06	DnaJ homolog subfamily C member 9	1.96	0.005	0.97	-0.47	0.13	0.50	0.54
HK0003_E08	Unknown-194	1.90	0.007	0.93	-0.32	0.10	0.61	0.60
est04g12	Envelope protein	1.90	0.004	0.92	-0.51	0.15	0.42	0.39
HK0002_H08	TATA-binding protein associated factor 2N	1.79	0.003	0.84	-0.49	0.10	0.35	0.42
CA387665	Cytochrome P450 2J2	1.79	0.000	0.84	-0.38	0.06	0.46	0.20
est01h01	Unknown-19	1.76	0.009	0.82	-0.19	0.11	0.63	0.27
est03b11	Acidic leucine-rich nuclear phosphoprotein 32 A-1	1.68	0.008	0.75	-0.54	0.17	0.21	0.12
utu04d10	Unknown-268	1.65	0.003	0.72	-0.49	0.12	0.23	0.24
HK0003_F03	Unknown-196	1.64	0.008	0.72	-0.29	0.04	0.43	0.52
EXOB4_E01	Transposase-58	1.62	0.004	0.69	-0.45	0.11	0.24	0.29
P_4	Myeloperoxidase	1.55	0.005	0.64	-0.35	0.11	0.28	0.24
EXOB1_A07	Unknown-79	1.55	0.008	0.63	-0.54	0.14	0.09	0.16
P_53	Aryl hydrocarbon receptor	1.53	0.007	0.61	-0.30	0.12	0.32	0.17
EXOB3_H10	Eukaryotic translation initiation factor 2 subunit 1	1.50	0.006	0.59	-0.42	0.13	0.16	0.11
est04c10	Unknown-56	1.47	0.005	0.55	-0.57	0.12	-0.02	0.07
EXOB2_E02	TAF1 RNA polymerase II, TATA box binding protein	1.44	0.001	0.53	-0.19	0.08	0.34	0.09
est03a01	Methyl-CpG binding protein 3b	1.39	0.006	0.48	-0.29	0.07	0.18	0.25
CA373890	Heat shock protein HSP 90-beta-1	1.39	0.009	0.47	-0.42	0.11	0.05	0.11
utu03d08	Reverse transcriptase	-1.40	0.007	-0.49	0.15	0.06	-0.34	0.09
EXOB3_C04	Glyceraldehyde-3-phosphate dehydrogenase-1	-1.72	0.010	-0.78	0.60	0.10	-0.18	0.51
EXOB2_B10	Hemoglobin beta chain	-1.86	0.005	-0.89	0.15	0.17	-0.74	0.19
utu03c12	Glyceraldehyde-3-phosphate dehydrogenase-4	-1.99	0.009	-1.00	0.42	0.23	-0.58	0.23
EXOB2_A01	MHC class II invariant chain-like protein 1	-2.02	0.002	-1.02	0.38	0.17	-0.63	0.29
CA364941	Annexin A1-1	-2.08	0.002	-1.06	0.52	0.16	-0.54	0.37
CA363438	Interferon-induced protein 44-3	-2.14	0.007	-1.10	0.62	0.24	-0.47	0.25
EXOB2_D07	Ependymin related protein-1	-2.28	0.002	-1.19	1.21	0.18	0.03	0.42
HST0001_C04	Hemoglobin alpha chain	-2.42	0.004	-1.28	0.46	0.24	-0.82	0.24
EST1-3A_D08	Glyceraldehyde-3-phosphate dehydrogenase-6	-2.49	0.009	-1.31	0.55	0.32	-0.76	0.07
EXOB1_H06	CC chemokine SCYA110-2	-2.55	0.005	-1.35	0.46	0.24	-0.89	0.53
EST1-3A_H06	Transcription factor jun-B-1	-2.89	0.003	-1.53	0.70	0.28	-0.83	0.33
est03f08	Transaldolase	-2.91	0.002	-1.54	0.66	0.20	-0.88	0.63
EXOB2_H01	Unknown-100	-2.91	0.002	-1.54	0.56	0.28	-0.98	0.28
est02f08	Serine protease-like protein-1	-2.97	0.000	-1.57	0.47	0.16	-1.10	0.37
EST1-3A_A09	Serine protease-like protein-2	-3.96	0.003	-1.98	1.04	0.39	-0.95	0.34
CA371363	Glucose-6-phosphate isomerase-1	-4.35	0.000	-2.12	1.02	0.25	-1.10	0.35
HST0001_D08	Beta-globin	-4.46	0.000	-2.16	1.31	0.22	-0.85	0.53
est04e05	Glutathione peroxidase-gastrointestinal	-4.54	0.000	-2.18	0.99	0.27	-1.20	0.60
est01c04	Unknown-11	-6.17	0.001	-2.63	1.07	0.40	-1.55	0.67
EXOB2_D05	Matrix metalloproteinase 9-2	-6.63	0.000	-2.73	0.77	0.38	-1.96	0.34
est01e10	Tolloid-like protein (nephrosin)-1	-6.69	0.001	-2.74	1.27	0.44	-1.47	0.18
CA348284	CCAAT/enhancer binding protein beta	-7.36	0.006	-2.88	1.10	0.62	-1.78	0.40
est03c04	Matrix metalloproteinase-9	-7.44	0.000	-2.90	0.78	0.43	-2.11	0.18
EXOB2_G12	Tolloid-like protein (nephrosin)-2	-9.26	0.000	-3.21	1.53	0.21	-1.68	0.19
EST1-3A_B03	Hypothetical-fish 44	-14.01	0.000	-3.81	1.88	0.53	-1.93	0.48
EXOB3_H01	Matrix metalloproteinase-13	-17.18	0.000	-4.10	1.61	0.51	-2.49	0.42

Table 2: GFP 24 hours; Genes were selected for sig diff. At a value of p<0.01, Q values are all 0.

Clone ID	Match Name	FC	p-value	Diff log2	D Average	D Stdv	R Average	R Stdv
EXOB2_B10	Hemoglobin beta chain	19.46	0.00000	4.28	-2.06	0.19	2.23	0.15
HST0001_C04	Hemoglobin alpha chain	11.19	0.00000	3.48	-1.88	0.28	1.61	0.13
KVkm2_A01	Unknown-219	10.93	0.00000	3.45	-1.88	0.15	1.57	0.10
HST0001_D04	Alpha-globin I-2	10.93	0.00001	3.45	-2.17	0.32	1.28	0.96
EXOB4_A03	Carbonic anhydrase	10.57	0.00000	3.40	-1.36	0.12	2.04	0.19
CA366564	Huntingtin	8.52	0.00000	3.09	-1.61	0.25	1.48	0.19
EXOB2_B12	RING finger protein 103	8.34	0.00000	3.06	-1.46	0.24	1.60	0.28
HST0001_C07	Unknown-213	7.60	0.00000	2.93	-1.45	0.22	1.47	0.09
ENH2_E07	Unknown-3	7.04	0.00000	2.82	-1.04	0.61	1.77	0.15
EXOB4_G09	Histone H14	6.94	0.00000	2.79	-1.37	0.32	1.42	0.18
EXOB4_H06	Alpha-globin 1-3	6.63	0.00000	2.73	-1.28	0.23	1.45	0.10
utu01e09	Embryonic alpha-type globin2+collagen alpha 2(1)	4.94	0.00000	2.30	-1.22	0.17	1.08	0.11
HK0002_G02	Creatine kinase, sarcomeric mitochondrial precursor	4.49	0.00000	2.17	-1.17	0.25	1.00	0.16
HK0001_C08	Galectin-9 (VHSV-induced protein)-3	4.14	0.00000	2.05	-1.00	0.24	1.05	0.19
CA361101	Regulator of G-protein signaling 1-2	4.03	0.00000	2.01	-1.01	0.09	1.00	0.16
est02a11	Ig kappa chain V-IV region B17-2	3.19	0.00000	1.67	-0.76	0.17	0.91	0.17
CA343473	C3a anaphylatoxin chemotactic receptor	3.00	0.00000	1.58	-0.56	0.14	1.02	0.23
est04b01	Similar to rRNA (Vangl2)	2.69	0.00000	1.43	-0.74	0.12	0.69	0.09
HST0001_D02	ATP-binding cassette, sub-family F, member 2	2.58	0.00003	1.37	-0.92	0.43	0.45	0.19
CA384134	G1/S-specific cyclin D2	2.56	0.00006	1.35	-0.70	0.38	0.66	0.32
ENH2_F04	Unknown-4	2.46	0.00000	1.30	-0.67	0.07	0.63	0.11
est04b11	Galectin-9 (VHSV-induced protein)-1	2.44	0.00000	1.29	-0.65	0.09	0.64	0.16
EXOB2_C02	Hypothetical-fish 35	2.41	0.00000	1.27	-0.71	0.09	0.56	0.07
est02g07	Ig mu heavy chain disease protein	2.38	0.00000	1.25	-0.47	0.10	0.79	0.09
CA363438	Interferon-induced protein 44-3	2.24	0.00000	1.16	-0.42	0.20	0.74	0.15
est02e09	Ig heavy chain V-III region HIL	2.07	0.00000	1.05	-0.30	0.20	0.74	0.21
CA349577	Tyrosine-protein kinase FRK	2.01	0.00002	1.01	-0.45	0.29	0.56	0.17
est01g04	5-aminolevulinate synthase	1.99	0.00001	0.99	-0.57	0.16	0.42	0.27
CA381692	Ubiquitin-like 1 activating enzyme E1B	1.98	0.00000	0.99	-0.54	0.16	0.45	0.09
EXOB2_H05	Uroporphyrinogen decarboxylase	1.97	0.00001	0.98	-0.35	0.26	0.63	0.15
est02b08	Peroxiredoxin 1-2	1.94	0.00000	0.96	-0.59	0.13	0.37	0.13
CA351800	Superoxide dismutase [Cu-Zn]	1.84	0.00000	0.88	-0.46	0.15	0.42	0.17
EXOB4_H08	Alanine-glyoxylate aminotransferase 1	1.83	0.00000	0.87	-0.62	0.10	0.25	0.10
CA359043	NAD-dependent deacetylase sirtuin 5	1.82	0.00000	0.86	-0.33	0.13	0.54	0.15
utu03g11	Hypothetical-fish 12	1.81	0.00000	0.86	-0.56	0.14	0.30	0.09
CA363480	Aquaporin-CHIP	1.79	0.00000	0.84	-0.37	0.18	0.47	0.13
Hete0002_E07	Phosphoenolpyruvate carboxykinase-Embryonic beta-type globin2	1.77	0.00015	0.82	-0.27	0.13	0.55	0.32
EST1-3A_F09	Unknown-73	1.72	0.00013	0.78	-0.29	0.23	0.49	0.22
KVkm2_D11	Ubiquinol-cytochrome C reductase complex 11 kDa protein, mitochondrial precursor	1.69	0.00069	0.76	-0.38	0.34	0.38	0.19
EXOB3_E11	Unknown-118	1.66	0.00001	0.73	-0.12	0.14	0.61	0.18
CA368411	Phosphatidylethanolamine N-methyltransferase, isoform 1	1.66	0.00002	0.73	-0.38	0.18	0.36	0.15
EXOB4_F12	F-box/WD-repeat protein 5	1.62	0.00010	0.70	-0.38	0.25	0.32	0.10
est02c08	Nicotinamide riboside kinase 2	1.62	0.00010	0.70	-0.39	0.24	0.30	0.09
CA369653	Cellular nucleic acid binding protein	1.61	0.00011	0.69	-0.58	0.23	0.11	0.14
CA359042	Bloom's syndrome protein	1.60	0.00002	0.68	-0.31	0.12	0.37	0.18
est03e08	Hypothetical-fish 36	1.60	0.00002	0.68	-0.26	0.18	0.42	0.11
est03c07	Ig kappa chain V-I region WEA	1.60	0.00000	0.67	-0.32	0.11	0.35	0.11
est02f04	Tubulin alpha-3 chain	1.59	0.00042	0.67	-0.39	0.26	0.28	0.19
HK0001_C12	Unknown-152	1.55	0.00004	0.63	-0.34	0.14	0.29	0.14
EXOB2_F01	Proteasome subunit alpha type 6	1.55	0.00121	0.63	-0.22	0.29	0.41	0.18
EXOB2_B09	Unknown-94	1.54	0.00004	0.63	-0.03	0.13	0.59	0.18
Hete0002_C07	Unknown-139	1.54	0.00213	0.62	-0.28	0.33	0.34	0.17
CA374193	Chemokine receptor CXCR4	1.54	0.00045	0.62	-0.24	0.18	0.38	0.20
utu04c02	Unknown-265	1.53	0.00038	0.62	-0.26	0.21	0.36	0.16
EXOB1_A01	Unknown-78	1.53	0.00005	0.61	-0.21	0.21	0.40	0.07
est03g07	Unknown-47	1.52	0.00038	0.61	-0.16	0.14	0.44	0.25
CA343700	CXC chemokine receptor transcript variant B	1.52	0.00004	0.60	-0.23	0.20	0.37	0.06
est04c02	Unknown-53	1.51	0.00000	0.60	-0.35	0.08	0.25	0.06
EXOB1_B02	Hypothetical-fish 34	1.51	0.00011	0.60	-0.03	0.12	0.57	0.21
est04c05	Ferritin heavy chain-1	1.51	0.00000	0.60	-0.32	0.13	0.27	0.08
EXOB4_G12	Unknown-131	1.51	0.00000	0.59	-0.53	0.07	0.06	0.12
EST1-3A_F04	ReO_6-2	1.50	0.00001	0.59	0.11	0.11	0.70	0.14
EXOB2_D11	E3 ligase for inhibin receptor	1.50	0.00057	0.58	-0.31	0.20	0.27	0.17
EXOB3_F07	Unknown-120	1.50	0.00005	0.58	-0.25	0.15	0.33	0.09
CA385359	Serum amyloid P-component-2	1.49	0.00064	0.58	-0.14	0.24	0.44	0.07
CA384555	B-cell-specific coactivator OBF-1	1.48	0.00009	0.57	-0.23	0.07	0.34	0.21
est02b02	PEST-containing nuclear protein	1.48	0.00000	0.57	-0.29	0.08	0.27	0.07
P_9	Glutathione S-transferase P	1.48	0.00000	0.56	-0.17	0.11	0.39	0.07
EXOB3_F11	Ubiquitin-conjugating enzyme E2-18 kDa	1.48	0.00010	0.56	-0.01	0.18	0.55	0.14
EXOB4_B08	60 kDa heat shock protein-2	1.48	0.00000	0.56	-0.20	0.07	0.37	0.13
utu02c12	Unknown-240	1.47	0.00057	0.56	-0.49	0.21	0.07	0.18
CA365505	Retinoblastoma-like protein 1	1.46	0.00003	0.55	-0.14	0.16	0.41	0.10
EXOB3_G09	Ornithine decarboxylase antizyme-2	1.46	0.00231	0.55	-0.04	0.10	0.51	0.21
CA381440	Double-stranded RNA-specific adenosine deaminase	1.45	0.00001	0.54	-0.33	0.07	0.21	0.14
CA378435	Protein phosphatase 2C delta isoform	1.44	0.00598	0.53	-0.40	0.24	0.13	0.29
HK0002_H10	Unknown-182	1.43	0.00018	0.52	-0.17	0.17	0.34	0.14
EXOB4_D10	Prosaposin	1.43	0.00002	0.52	-0.19	0.03	0.32	0.07
EXOB1_A07	Unknown-79	1.43	0.00005	0.51	-0.23	0.16	0.28	0.09
CA359963	Homocysteine-responsive endoplasmic reticulum-resident ubiquitin-like domain member 1 protein	1.42	0.00002	0.50	-0.32	0.15	0.18	0.06
Hete0002_E09	Transposase-56	1.42	0.00090	0.50	-0.22	0.21	0.29	0.15
KVkm2_A09	60S ribosomal protein L35	1.41	0.00254	0.50	-0.27	0.29	0.23	0.11
EST1-3A_H05	Adenosine deaminase 3	1.41	0.00051	0.50	-0.03	0.18	0.47	0.17
EXOB2_H07	WD-repeat containing protein Ciao 1	1.41	0.00017	0.49	-0.28	0.12	0.21	0.17
EXOB4_A11	Tubulin alpha-ubiquitous chain	1.40	0.00265	0.49	-0.08	0.24	0.41	0.18
CA363944	Nuclear factor NF-kappa-B	1.40	0.00018	0.49	-0.34	0.17	0.15	0.12
EXOB4_E04	Elongation factor 1-beta	1.40	0.00058	0.48	-0.08	0.08	0.41	0.19
EXOB2_C07	Splicing factor, arginine/serine-rich 12-2	1.39	0.00549	0.48	-0.15	0.19	0.33	0.24
utu02f06	Unknown-244	1.39	0.00038	0.47	-0.56	0.13	-0.09	0.13
EXOB1_B03	Unknown-81	1.39	0.00073	0.47	0.01	0.16	0.48	0.18
EXOB1_H06	CC chemokine SCYA110-2	1.38	0.00486	0.47	-0.18	0.26	0.29	0.19
CR_8	14-3-3 G2	1.38	0.00007	0.47	-0.48	0.12	-0.01	0.13
est04c09	Hypothetical-fish 41	1.38	0.00203	0.47	-0.34	0.25	0.13	0.11
KVkm2_C04	Unknown-221	1.38	0.00371	0.47	-0.33	0.17	0.14	0.25
est04c07	Ferritin heavy chain-2	1.38	0.00220	0.47	-0.36	0.14	0.10	0.22
CA363723	Cyclin C	1.38	0.00003	0.46	-0.21	0.11	0.25	0.12
CA357173	Peptidyl-prolyl cis-trans isomerase 2-2	1.38	0.00001	0.46	-0.32	0.11	0.14	0.07
P_7	Peptide methionine sulfoxide reductase	1.37	0.00279	0.46	-0.14	0.24	0.32	0.15
EXOB1_D10	Unknown-85	1.37	0.00652	0.45	-0.11	0.22	0.35	0.17

Table 2 cont'd: GFP 24 hours; Genes were selected for sig diff. At a value of p<0.01, Q values are all 0.

est01h03	Galectin-3 binding protein	1.37	0.00268	0.45	-0.11	0.23	0.35	0.16
est03e07	Unknown-43	1.36	0.00111	0.45	-0.25	0.20	0.20	0.13
KVkm2_A12	Unknown-220	1.36	0.00007	0.45	-0.42	0.15	0.03	0.08
est04f08	Telomerase-binding protein p23-1	1.36	0.00535	0.44	-0.32	0.24	0.13	0.14
ENH2_F10	ATP synthase lipid-binding protein	1.35	0.00007	0.44	-0.38	0.13	0.06	0.10
EXOB4_A10	Unknown-126	1.35	0.00220	0.44	-0.02	0.23	0.42	0.13
ENH2_B04	TCF3 (E2A) fusion partner	1.35	0.00081	0.43	-0.43	0.14	0.00	0.15
CA378361	Ubiquitin ligase SIAH1	1.35	0.00042	0.43	-0.09	0.14	0.35	0.15
CA363762	Cell death activator CIDE-B	1.35	0.00364	0.43	0.02	0.21	0.45	0.10
P_19	glucocorticoid receptor (GCR)	1.35	0.00290	0.43	-0.23	0.15	0.20	0.22
EXOB1_G05	Unknown-89	1.35	0.00243	0.43	-0.19	0.11	0.24	0.23
EXOB3_A02	Alpha-1-microglobulin\/bikunin-1	1.34	0.00730	0.43	-0.34	0.19	0.09	0.18
EXOB1_G04	Splicing factor 3B subunit 1	1.34	0.00135	0.43	-0.08	0.21	0.34	0.08
utu02g07	Glycogen phosphorylase-2	1.34	0.00895	0.42	-0.39	0.21	0.04	0.21
EST1-3A_F07	Echinoderm microtubule-associated protein-like 4	1.34	0.00219	0.42	-0.06	0.19	0.36	0.17
CA373850	Signal transducer and activator of transcription 1-alpha/beta	1.34	0.00001	0.42	-0.02	0.07	0.40	0.06
EXOB4_H01	Unknown-132	1.34	0.00003	0.42	-0.25	0.10	0.17	0.10
EXOB3_H04	Transposase-1	1.33	0.00216	0.42	0.15	0.05	0.56	0.18
est04f10	Hypothetical-fish 1	1.33	0.00033	0.41	-0.21	0.16	0.20	0.10
CA380121	Telomerase reverse transcriptase	1.33	0.00017	0.41	-0.26	0.09	0.15	0.14
P_10	Aryl hydrocarbon receptor	1.32	0.00322	0.41	-0.05	0.23	0.36	0.08
est01g07	Proteasome activator complex subunit 2	1.32	0.00754	0.40	-0.21	0.27	0.20	0.13
est03e03	Poly(RC) binding protein 2	1.32	0.00013	0.40	-0.19	0.08	0.21	0.12
KVkm2_G02	Proteasome subunit alpha type 7-2	1.32	0.00844	0.40	-0.21	0.21	0.19	0.21
KVkm2_H11	Unknown-228	1.32	0.00002	0.40	-0.17	0.11	0.23	0.07
HK0001_H12	Unknown-162	1.31	0.00006	0.40	-0.12	0.12	0.28	0.08
CA348325	BAG-family molecular chaperone regulator-4	1.31	0.00475	0.39	-0.30	0.17	0.09	0.20
EXOB2_D01	Proteasome subunit alpha type 3	1.31	0.00115	0.39	-0.03	0.16	0.36	0.14
CA384587	Transcription factor Dp-1	1.31	0.00137	0.39	-0.13	0.16	0.26	0.11
CA369440	NAD(P)H menadione oxidoreductase 1, dioxin-inducible	1.31	0.00987	0.39	-0.33	0.25	0.06	0.17
EXOB4_C02	Unknown-127	1.31	0.00015	0.39	-0.15	0.05	0.24	0.15
est01f09	High-mobility group protein 2-like 1	1.31	0.00021	0.39	-0.31	0.08	0.08	0.13
EXOB3_A05	WD-repeat containing protein Ciao 1	1.31	0.00228	0.39	-0.17	0.13	0.22	0.17
CA376117	CD231	1.31	0.00034	0.39	-0.11	0.11	0.27	0.12
utu03a02	Peptidyl-prolyl cis-trans isomerase-7	1.28	0.00405	0.36	-0.13	0.16	0.23	0.18
est03f04	F-box/WD-repeat protein 11	1.28	0.00571	0.36	-0.20	0.20	0.16	0.10
EXOB4_B09	Macrophage receptor MARCO	1.28	0.00871	0.36	-0.09	0.19	0.27	0.17
CA378736	Tyrosine-protein kinase BTK	1.28	0.00084	0.36	-0.07	0.07	0.29	0.18
utu03f12	26S proteasome non-ATPase regulatory subunit 14	1.28	0.00574	0.35	-0.13	0.20	0.22	0.14
CA370661	Barrier-to-autointegration factor	1.28	0.00756	0.35	-0.22	0.25	0.13	0.08
EXOB3_E05	Mitochondrial 39S ribosomal protein L51	1.27	0.00036	0.35	0.00	0.07	0.35	0.12
est03g05	Unknown-46	1.27	0.00270	0.34	-0.14	0.15	0.20	0.16
EXOB2_A06	Nucleolar protein Nop56-2	1.27	0.00279	0.34	-0.13	0.13	0.21	0.14
EXOB1_B04	Beta actin-1	1.26	0.00767	0.34	-0.04	0.08	0.30	0.20
HK0002_H06	Unknown-180	1.26	0.00433	0.34	-0.01	0.17	0.32	0.15
utu02g04	Glycogen phosphorylase-1	1.26	0.00274	0.34	-0.16	0.12	0.18	0.15
CA342225	CARBONYL reductase	1.26	0.00962	0.33	-0.13	0.19	0.20	0.17
EXOB4_B04	AD024	1.26	0.00022	0.33	-0.04	0.08	0.30	0.12
CA365208	C-C chemokine receptor type 6	1.26	0.00013	0.33	-0.21	0.09	0.12	0.10
EXOB4_G06	NADH-ubiquinone oxidoreductase B15 subunit	1.26	0.00158	0.33	-0.19	0.09	0.14	0.17
EST1-3A_G03	Unknown-74	1.25	0.00613	0.33	0.02	0.21	0.35	0.10
EXOB1_A10	Unknown-80	1.25	0.00118	0.32	-0.12	0.15	0.20	0.10
EST1-3A_A01	Cytosolic nonspecific dipeptidase	1.25	0.00031	0.32	-0.23	0.09	0.10	0.12
CA341859	Nuclear factor kappa-B, subunit 1	1.24	0.00054	0.31	-0.22	0.12	0.09	0.10
CA368716	Membrane-bound transcription factor site 2 protease	1.24	0.00260	0.31	-0.16	0.16	0.15	0.10
EXOB2_A11	Tubulin alpha-1 chain	1.24	0.00470	0.31	-0.09	0.18	0.22	0.10
est03d09	Unknown-40	1.23	0.00890	0.30	-0.16	0.20	0.14	0.10
P_54	VEGF4	1.23	0.00319	0.30	-0.13	0.15	0.17	0.12
P_4	Myeloperoxidase	1.23	0.00006	0.30	-0.08	0.09	0.23	0.07
CA352454	Semaphorin 4D	1.23	0.00352	0.30	-0.02	0.09	0.27	0.17
CA384029	Chromobox protein homolog 4	1.23	0.00057	0.30	-0.09	0.10	0.20	0.11
CA362758	Cyclophilin-2	1.23	0.00110	0.30	-0.21	0.16	0.09	0.03
CA342204	TNF receptor associated factor 3	1.23	0.00002	0.30	-0.03	0.07	0.27	0.05
CA370579	Hematopoietically expressed homeobox	1.22	0.00040	0.29	-0.15	0.07	0.14	0.11
CA356454	Guanine nucleotide exchange factor	1.22	0.00009	0.29	-0.26	0.08	0.03	0.08
est04c08	Unknown-55	1.21	0.00914	0.28	-0.15	0.10	0.13	0.13
EXOB4_E09	Hypoxanthine-guanine phosphoribosyltransferase	1.21	0.00737	0.28	-0.21	0.15	0.07	0.14
utu04c03	60S ribosomal protein L4	1.21	0.00033	0.28	-0.26	0.12	0.02	0.04
utu03a06	Elongation factor 1-alpha 2	1.21	0.00722	0.28	-0.13	0.13	0.15	0.16
EXOB3_A06	Programmed cell death 10	1.21	0.00330	0.28	-0.07	0.16	0.20	0.08
CA342760	47 kDa heat shock protein-2	1.21	0.00243	0.28	-0.05	0.10	0.23	0.14
EXOB3_F08	60S ribosomal protein L10-1	1.21	0.00921	0.27	0.11	0.08	0.38	0.19
CA366403	Heat shock 27 kDa protein-1	1.21	0.00000	0.27	-0.06	0.04	0.21	0.06
EST1-3A_B09	Lysozyme g-2	1.21	0.00898	0.27	-0.04	0.16	0.24	0.13
CA342227	Protein tyrosine kinase 2 beta	1.21	0.00292	0.27	-0.19	0.13	0.08	0.10
EXOB1_B09	Ribonucleoside-diphosphate reductase large subunit	1.20	0.00327	0.27	-0.06	0.09	0.21	0.15
HK0002_C02	Chromosome-associated kinesin KIF4A	1.20	0.00414	0.27	-0.12	0.06	0.15	0.17
EXOB1_C10	Cytochrome P450 2K4-2	1.20	0.00796	0.27	0.06	0.07	0.33	0.19
est04d07	Microspherule protein 1	1.20	0.00158	0.26	-0.24	0.07	0.03	0.13
CA369698	Tumor suppressor p53	1.20	0.00414	0.26	0.00	0.10	0.27	0.10
CA383564	Coatomer epsilon subunit 1	1.20	0.00600	0.26	0.03	0.13	0.29	0.11
HKT0001_A11	Hypothetical-fish 11	1.20	0.00049	0.26	-0.17	0.09	0.09	0.08
EXOB2_B01	Nuclease sensitive element binding protein 1-1	1.19	0.00008	0.25	-0.05	0.08	0.20	0.06
EXOB1_B07	PRPF39 protein	1.19	0.00208	0.25	-0.16	0.13	0.09	0.08
CA380011	Cullin homolog 1	1.18	0.00598	0.24	-0.08	0.14	0.16	0.10
EXOB1_E10	Unknown-87	1.18	0.00316	0.24	-0.02	0.13	0.22	0.08
CA384637	60 kDa heat shock protein-1	1.18	0.00146	0.24	-0.09	0.11	0.16	0.08
EXOB3_A07	Unknown-105	1.18	0.00454	0.24	-0.26	0.10	-0.03	0.13
CA352381	Protein kinase C, alpha type	1.18	0.00484	0.24	0.01	0.13	0.24	0.10
EXOB3_D06	Unknown-112	1.18	0.00425	0.23	0.11	0.08	0.35	0.14
CA344228	Phospholipase A-2-activating protein	1.18	0.00933	0.23	-0.21	0.16	0.02	0.07
EXOB4_E01	Transposase-58	1.17	0.00641	0.22	0.10	0.11	0.32	0.11
EXOB3_A11	Unknown-107	1.17	0.00602	0.22	-0.03	0.09	0.20	0.11
EXOB3_E09	N-myc downstream regulated protein-2	1.16	0.00340	0.22	-0.11	0.11	0.11	0.09
CA365040	FKBP12-rapamycin complex-associated protein	1.16	0.00072	0.21	-0.17	0.09	0.05	0.04
CA387866	Arachidonate 5-lipoxygenase-2	1.16	0.00083	0.21	-0.16	0.09	0.06	0.06
EXOB1_D03	5'-3' exoribonuclease 2	1.16	0.00528	0.21	-0.01	0.12	0.20	0.09
CA363978	Inhibitor of kappaB kinase gamma	1.16	0.00096	0.21	-0.18	0.09	0.03	0.07
CA355893	DnaJ homolog subfamily B member 2	1.15	0.00302	0.20	0.01	0.08	0.21	0.10
CA357899	Death-associated protein kinase 3	1.15	0.00164	0.20	-0.12	0.07	0.08	0.09

Table 2 cont'd: GFP 24 hours; Genes were selected for sig diff. At a value of p<0.01, Q values are all 0

est01c03	Histone H33-3	1.15	0.00810	0.20	-0.15	0.11	0.05	0.08
P_3	Epididymal secretory glutathione peroxidase	1.14	0.00344	0.19	0.01	0.07	0.21	0.09
utu02d01	Unknown-241	1.13	0.00979	0.17	-0.24	0.10	-0.06	0.09
EXOB2_A10	Unknown-92	1.07	0.00534	0.10	0.05	0.05	0.15	0.04
est04b04	Cytokeratin 8	-1.11	0.00979	-0.15	-0.03	0.10	-0.18	0.05
est03c02	Adrenal gland protein AD-002	-1.11	0.00242	-0.15	-0.06	0.04	-0.21	0.08
EXOB4_F08	Glyoxylate reductase/hydroxypyruvate reductase	-1.11	0.00460	-0.15	0.12	0.08	-0.03	0.06
HK0003_A03	Thymosin beta-4-2	-1.12	0.00351	-0.16	-0.01	0.09	-0.17	0.05
est01e06	Coronin-1B	-1.12	0.00860	-0.16	0.06	0.11	-0.11	0.06
CA380028	StAR-related lipid transfer protein 3	-1.12	0.00204	-0.16	0.02	0.08	-0.15	0.05
EXOB4_H07	Beta-galactosidase-related protein	-1.13	0.00958	-0.18	0.07	0.11	-0.11	0.08
est04c06	Unknown-54	-1.15	0.00488	-0.21	0.06	0.13	-0.14	0.06
EXOB2_F12	60S ribosomal protein L7a-1	-1.16	0.00369	-0.21	0.04	0.08	-0.18	0.12
CA383652	ATP-binding cassette, sub-family F, member 1	-1.16	0.00004	-0.22	0.07	0.06	-0.14	0.04
est01c09	Unknown-12	-1.17	0.00724	-0.22	0.16	0.10	-0.06	0.13
utu02e02	Tropomyosin alpha 3 chain-2	-1.17	0.00762	-0.23	0.17	0.13	-0.06	0.11
utu01d01	60S acidic ribosomal protein P1	-1.17	0.00276	-0.23	0.07	0.11	-0.16	0.09
CA388407	DnaJ homolog subfamily A member 2	-1.18	0.00393	-0.23	0.06	0.12	-0.17	0.10
utu04e11	Hyaluronan and proteoglycan link protein 2 precursor	-1.18	0.00949	-0.24	0.02	0.16	-0.21	0.09
utu04d04	Actin, alpha skeletal 4	-1.18	0.00952	-0.24	-0.01	0.16	-0.25	0.10
HK0002_B01	60S ribosomal protein L8	-1.18	0.00187	-0.24	0.08	0.11	-0.16	0.09
CA376574	Peptidyl-prolyl cis-trans isomerase 1	-1.19	0.00207	-0.25	0.09	0.09	-0.15	0.12
utu01d06	Deoxyribonuclease gamma precursor	-1.19	0.00947	-0.25	0.13	0.05	-0.12	0.16
utu04c08	Transposase-7	-1.19	0.00015	-0.25	0.12	0.09	-0.12	0.05
HK0003_A04	Eukaryotic translation initiation factor 3 subunit 6-2	-1.19	0.00019	-0.25	0.09	0.06	-0.16	0.09
P_46	ATPase 6	-1.19	0.00452	-0.25	0.04	0.11	-0.21	0.13
EST1-3A_F01	Ependymin I	-1.19	0.00163	-0.25	0.24	0.14	-0.02	0.05
utu01c12	Heat shock cognate 71 kDa protein	-1.19	0.00939	-0.26	0.12	0.15	-0.13	0.13
HK0001_C04	Unknown-150	-1.21	0.00516	-0.28	0.16	0.17	-0.12	0.08
est01c08	14-3-3C2	-1.21	0.00174	-0.28	0.11	0.14	-0.17	0.08
HK0003_A10	Unknown-184	-1.21	0.00001	-0.28	0.16	0.08	-0.12	0.03
HK0003_C10	Over-expressed breast tumor protein-like	-1.21	0.00972	-0.28	0.23	0.04	-0.05	0.15
EXOB4_H05	Unknown-133	-1.22	0.00002	-0.28	0.02	0.07	-0.26	0.06
EXOB2_B04	Syntenin 1	-1.22	0.00093	-0.28	0.14	0.08	-0.14	0.13
EST1-3A_E06	60S ribosomal protein L5-1	-1.22	0.00036	-0.29	0.37	0.09	0.08	0.08
EXOB4_F11	40S ribosomal protein S20	-1.22	0.00069	-0.29	0.11	0.13	-0.18	0.07
HKT0001_C09	Malate dehydrogenase, mitochondrial-1	-1.22	0.00334	-0.29	0.14	0.17	-0.15	0.06
HK0001_D12	Estrogen-responsive B box protein	-1.22	0.00491	-0.29	0.34	0.15	0.05	0.11
EXOB3_E01	Na/K ATPase alpha subunit-2	-1.23	0.00134	-0.30	0.28	0.08	-0.02	0.14
EXOB2_F08	CDC10 protein homolog	-1.23	0.00102	-0.30	0.00	0.12	-0.30	0.11
utu01c03	Unknown-232	-1.23	0.00183	-0.30	0.03	0.12	-0.27	0.12
EXOB2_H02	Serine/arginine repetitive matrix 1	-1.23	0.00124	-0.30	0.15	0.11	-0.15	0.12
CA361443	Nucleolysin TIAR	-1.24	0.00005	-0.31	0.21	0.08	-0.10	0.08
HK0001_C09	Unknown-151	-1.24	0.00015	-0.31	0.20	0.07	-0.12	0.11
EXOB1_G12	Thioredoxin	-1.24	0.00689	-0.32	0.17	0.15	-0.15	0.18
EXOB4_D05	Hypothetical-fish 19	-1.25	0.00291	-0.32	0.26	0.17	-0.06	0.11
utu01b08	Unknown-231	-1.25	0.00316	-0.32	0.10	0.17	-0.23	0.12
CA371855	PDZ and LIM domain protein 1	-1.25	0.00708	-0.32	0.11	0.07	-0.21	0.16
est02g10	Unknown-31	-1.25	0.00425	-0.33	0.26	0.19	-0.06	0.10
CA367764	Calmodulin-1	-1.26	0.00571	-0.33	0.15	0.19	-0.18	0.14
utu04f03	NB thymosin beta	-1.26	0.00016	-0.33	0.05	0.09	-0.28	0.11
HK0002_A12	NADH-ubiquinone oxidoreductase 15 kDa subunit	-1.26	0.00053	-0.34	0.15	0.11	-0.19	0.12
EST1-3A_C11	Cdk inhibitor p21 binding protein	-1.26	0.00139	-0.34	0.34	0.15	0.00	0.12
HK0003_H04	NADH-ubiquinone oxidoreductase 19 kDa subunit	-1.27	0.00019	-0.34	0.18	0.07	-0.16	0.13
HK0003_D08	Unknown-193	-1.27	0.00319	-0.34	0.27	0.08	-0.08	0.14
utu01d07	Unknown-236	-1.27	0.00003	-0.35	0.06	0.08	-0.29	0.09
utu01h01	Unknown-239	-1.28	0.00054	-0.35	0.05	0.08	-0.30	0.15
utu01b01	Unknown-230	-1.28	0.00754	-0.35	0.16	0.23	-0.20	0.13
HK0001_H01	Acyl-Coenzyme A dehydrogenase, long chain,	-1.28	0.00105	-0.36	0.31	0.17	-0.05	0.07
utu01d11	Unknown-237	-1.29	0.00695	-0.36	0.21	0.22	-0.15	0.14
utu04d12	Unknown-269	-1.29	0.00353	-0.37	0.06	0.23	-0.31	0.05
HKT0001_H07	60S ribosomal protein L37a	-1.29	0.00857	-0.37	0.29	0.27	-0.09	0.07
HK0003_F02	Unknown-195	-1.30	0.00427	-0.37	0.25	0.09	-0.13	0.22
EXOB2_A04	Hypothetical-fish 4	-1.30	0.00049	-0.38	0.23	0.13	-0.15	0.12
HK0002_D11	Myosin regulatory light chain MRCL2-1	-1.30	0.00071	-0.38	0.24	0.08	-0.14	0.18
utu04d03	Fish-egg lectin	-1.31	0.00171	-0.39	0.02	0.20	-0.38	0.11
EXOB4_D02	Beta actin-2	-1.31	0.00061	-0.39	0.27	0.18	-0.12	0.08
est03e02	Hypothetical-fish 15	-1.32	0.00094	-0.40	0.23	0.18	-0.16	0.11
HK0002_H08	TATA-binding protein associated factor 2N	-1.32	0.00091	-0.40	0.22	0.19	-0.17	0.10
EXOB3_E03	Unknown-114	-1.32	0.00022	-0.40	0.33	0.15	-0.07	0.10
HK0003_F10	Unknown-200	-1.32	0.00139	-0.40	0.27	0.19	-0.13	0.13
est02f02	Unknown-28	-1.32	0.00009	-0.40	0.20	0.14	-0.20	0.07
HK0003_E04	Hypothetical-fish 10	-1.32	0.00014	-0.40	0.14	0.02	-0.26	0.16
utu03h02	6-phosphofructokinase	-1.32	0.00384	-0.41	0.19	0.20	-0.22	0.17
EXOB3_H01	Matrix metalloproteinase-13	-1.32	0.00007	-0.41	0.24	0.13	-0.17	0.09
EXOB3_D10	Na/K ATPase alpha subunit-1	-1.33	0.00363	-0.41	0.38	0.13	-0.03	0.23
EXOB2_E04	Unknown-97	-1.33	0.00734	-0.41	0.17	0.24	-0.24	0.18
HK0003_B03	Cytochrome c-2	-1.33	0.00004	-0.41	0.14	0.10	-0.28	0.11
HK0003_B05	FLJ14655	-1.34	0.00004	-0.42	0.15	0.11	-0.28	0.10
CA387513	Connective tissue growth factor	-1.34	0.00056	-0.43	0.04	0.20	-0.39	0.07
utu01e12	Zinc finger protein 228	-1.34	0.00010	-0.43	0.17	0.10	-0.25	0.14
HK0003_F07	Unknown-198	-1.35	0.00836	-0.43	0.16	0.24	-0.27	0.21
ENH2_F09	Beta-2-microglobulin-1	-1.35	0.00004	-0.44	0.06	0.12	-0.37	0.10
HK0003_C07	Heterogeneous nuclear ribonucleoprotein A0	-1.36	0.00011	-0.44	0.20	0.06	-0.24	0.14
utu04f08	Actin, alpha skeletal 5	-1.36	0.00154	-0.45	0.21	0.24	-0.23	0.09
HK0003_H02	Cathepsin L2	-1.37	0.00142	-0.45	0.25	0.22	-0.20	0.12
EXOB3_B12	Unknown-109	-1.37	0.00265	-0.45	0.38	0.20	-0.07	0.19
CA358998	Cysteine-rich protein 1	-1.37	0.00022	-0.45	0.18	0.13	-0.27	0.14
EST1-3A_D03	60S ribosomal protein L23	-1.37	0.00000	-0.45	0.29	0.08	-0.16	0.08
utu03c09	40S ribosomal protein S5	-1.37	0.00661	-0.45	0.24	0.30	-0.21	0.13
KVkm2_D09	14-3-3E1-1	-1.37	0.00192	-0.45	0.28	0.16	-0.18	0.04
utu04d02	Beta enolase-5	-1.37	0.00138	-0.46	0.18	0.25	-0.27	0.05
CA367787	Bax inhibitor-1	-1.38	0.00067	-0.46	0.15	0.20	-0.31	0.12
est01b05	Ribonuclease Ok2	-1.38	0.00584	-0.46	0.12	0.20	-0.34	0.13
HK0003_G10	Unknown-202	-1.38	0.00113	-0.46	0.25	0.15	-0.22	0.20
CA377007	Growth arrest and DNA-damage-inducible GADD45 gamma-1	-1.39	0.00710	-0.48	0.20	0.19	-0.28	0.26
HK0001_B08	Putative pre-mRNA splicing factor RNA helicase	-1.40	0.00057	-0.48	0.27	0.22	-0.21	0.09
HK0003_F09	Unknown-199	-1.40	0.00058	-0.48	0.15	0.20	-0.34	0.11
CA371363	Glucose-6-phosphate isomerase-1	-1.40	0.00452	-0.49	0.26	0.25	-0.22	0.21
HK0002_H04	Unknown-179	-1.40	0.00062	-0.49	0.26	0.23	-0.23	0.09

Table 2 cont'd: GFP 24 hours; Genes were selected for sig diff. At a value of p<0.01, Q values are all

F_122	ARP2/3 complex 21 kDa subunit	-1.41	0.00458	-0.49	0.19	0.21	-0.30	0.26
CA383795	Allograft inflammatory factor-1	-1.41	0.00451	-0.49	0.01	0.28	-0.49	0.17
HK0001_C06	Prostaglandin D synthase homolog	-1.41	0.00019	-0.50	0.34	0.15	-0.15	0.15
EXOB2_H01	Unknown-100	-1.42	0.00003	-0.51	0.16	0.14	-0.35	0.09
est03h04	Epididymal secretory protein E1	-1.43	0.00180	-0.51	0.18	0.24	-0.34	0.18
EXOB3_F09	MHC class I heavy chain-1	-1.43	0.00174	-0.51	0.49	0.18	-0.02	0.24
Hete0002_B07	Unknown-135	-1.43	0.00132	-0.52	0.22	0.17	-0.29	0.20
EST1-3A_F05	Heat shock 70 kDa protein 1	-1.43	0.00444	-0.52	0.55	0.26	0.03	0.23
utu04d10	Unknown-268	-1.43	0.00001	-0.52	0.27	0.14	-0.25	0.08
utu04g05	40S ribosomal protein S9-3	-1.43	0.00034	-0.52	0.17	0.20	-0.35	0.13
HK0002_B09	Transgelin	-1.44	0.00000	-0.53	0.17	0.08	-0.36	0.07
EXOB2_G09	Cytochrome c oxidase subunit I-2	-1.44	0.00087	-0.53	0.30	0.24	-0.23	0.13
KVkm2_D01	Vacuolar ATP synthase 16 kDa proteolipid subunit	-1.45	0.00017	-0.54	0.09	0.17	-0.45	0.14
EXOB4_F03	Cathepsin S	-1.46	0.00001	-0.55	0.21	0.10	-0.34	0.12
EXOB2_C01	Cofilin, muscle isoform	-1.47	0.00001	-0.55	0.16	0.08	-0.39	0.07
est03b03	Cathepsin C-2	-1.47	0.00023	-0.55	0.20	0.21	-0.35	0.12
utu01g11	Actin, alpha skeletal 3	-1.47	0.00011	-0.56	0.25	0.18	-0.30	0.13
EXOB1_C02	Unknown-83	-1.47	0.00000	-0.56	0.40	0.09	-0.16	0.12
utu01f04	Actin, alpha skeletal 2	-1.48	0.00008	-0.56	0.03	0.21	-0.53	0.05
EXOB4_C05	Galectin-1	-1.48	0.00003	-0.57	0.17	0.13	-0.40	0.14
EST1-3A_G09	Unknown-75	-1.48	0.00001	-0.57	0.33	0.12	-0.24	0.09
EXOB4_A08	Lysozyme g-3	-1.49	0.00006	-0.57	0.11	0.13	-0.46	0.17
EST1-3A_D01	Tissue factor pathway inhibitor 2 precursor	-1.49	0.00012	-0.57	0.45	0.13	-0.12	0.13
KVkm2_D03	Nuclear protein 1	-1.50	0.00004	-0.58	0.11	0.14	-0.47	0.15
EXOB3_B01	Cathepsin C-3	-1.50	0.00000	-0.59	0.44	0.10	-0.15	0.10
utu02a08	Ubiquitin and ribosomal protein S27a-2	-1.51	0.00072	-0.59	0.17	0.20	-0.43	0.22
EXOB3_H05	Glucose-6-phosphate isomerase-2	-1.51	0.00005	-0.60	0.29	0.17	-0.31	0.12
HK0002_G11	Myristoylated alanine-rich protein kinase C substrate	-1.51	0.00105	-0.60	0.28	0.25	-0.31	0.20
utu01f03	Unknown-238	-1.52	0.00018	-0.60	0.29	0.16	-0.31	0.19
HK0002_F03	Unknown-176	-1.52	0.00000	-0.60	0.38	0.09	-0.22	0.09
est04c10	Unknown-56	-1.52	0.00000	-0.60	0.32	0.12	-0.28	0.05
EXOB1_H08	ADP,ATP carrier protein 3	-1.53	0.00032	-0.61	0.28	0.22	-0.34	0.17
utu04e07	60S ribosomal protein L39	-1.53	0.00001	-0.62	0.37	0.14	-0.25	0.13
CA365039	CD63	-1.54	0.00008	-0.62	0.31	0.20	-0.31	0.13
EXOB2_A07	Unknown-91	-1.54	0.00322	-0.62	0.26	0.26	-0.36	0.26
HK0002_B07	Heat shock 70kDa protein 8	-1.54	0.00000	-0.62	0.39	0.11	-0.23	0.09
est04f01	Polyposis locus protein 1	-1.54	0.00192	-0.63	0.20	0.21	-0.43	0.21
HK0002_B06	Troponin T-3, fast skeletal muscle	-1.54	0.00001	-0.63	0.24	0.16	-0.39	0.09
est02f05	Cytochrome c oxidase subunit III-4	-1.54	0.00063	-0.63	0.15	0.27	-0.48	0.15
est01d01	Growth arrest and DNA-damage-inducible GADD45 alpha-1	-1.54	0.00016	-0.63	0.23	0.19	-0.39	0.18
EXOB4_E11	Annexin IV	-1.55	0.00004	-0.63	0.27	0.19	-0.37	0.13
HK0002_G03	Histone H10	-1.56	0.00052	-0.64	0.06	0.29	-0.59	0.12
EST1-3A_B06	Ring finger protein 10	-1.57	0.00011	-0.65	0.53	0.12	-0.12	0.23
est01f01	DNA-binding protein inhibitor ID-1	-1.59	0.00004	-0.67	0.32	0.16	-0.36	0.14
CA351992	Growth arrest and DNA-damage-inducible protein alpha-2	-1.60	0.00001	-0.68	0.14	0.11	-0.54	0.17
HKT0001_H05	Cytochrome b-3	-1.60	0.00007	-0.68	0.41	0.25	-0.27	0.07
utu02b11	Collagen a3(I)-2	-1.60	0.00023	-0.68	0.10	0.27	-0.58	0.12
utu02b09	60S acidic ribosomal protein P0	-1.60	0.00005	-0.68	0.31	0.21	-0.37	0.14
utu03e09	Nebulin-1	-1.61	0.00002	-0.69	0.24	0.08	-0.45	0.11
est01e04	Adapter-related protein complex 1 sigma 1A subunit	-1.61	0.00006	-0.69	0.38	0.11	-0.30	0.23
EXOB1_A06	ADP,ATP carrier protein T2	-1.62	0.00019	-0.69	0.40	0.25	-0.29	0.17
est03h09	Unknown-49	-1.62	0.00705	-0.70	0.20	0.07	-0.50	0.31
HKT0001_H03	Microtubule-associated protein RP/EB	-1.63	0.00001	-0.71	0.27	0.15	-0.43	0.15
HK0003_C02	Collagen alpha 1(I) chain-1	-1.64	0.00000	-0.71	0.24	0.13	-0.47	0.05
EXOB2_D07	Ependymin related protein-1	-1.64	0.00000	-0.72	0.34	0.11	-0.38	0.16
EXOB2_G12	Tolloid-like protein (nephrosin)-2	-1.67	0.00002	-0.74	0.49	0.22	-0.25	0.09
HK0002_A01	Unknown-163	-1.68	0.00002	-0.75	0.28	0.14	-0.47	0.16
est03g08	Cathepsin Z precursor	-1.68	0.00008	-0.75	0.23	0.21	-0.52	0.20
est03d11	Unknown-42	-1.69	0.00001	-0.76	0.46	0.20	-0.30	0.09
est04e05	Glutathione peroxidase-gastrointestinal	-1.69	0.00005	-0.76	0.27	0.15	-0.49	0.20
EXOB4_C11	High affinity immunoglobulin gamma Fc receptor I precursor	-1.70	0.00024	-0.77	0.32	0.30	-0.45	0.16
utu04f06	Myosin heavy chain, skeletal, adult 1-2	-1.71	0.00007	-0.77	0.16	0.13	-0.61	0.26
EST1-3A_H06	Transcription factor jun-B-1	-1.73	0.00003	-0.79	0.37	0.21	-0.42	0.16
utu04c11	Collagen alpha 1(I) chain-2	-1.75	0.00002	-0.81	0.26	0.24	-0.54	0.10
EXOB2_G02	Profilin-1	-1.79	0.00001	-0.84	0.33	0.22	-0.51	0.08
EXOB2_H04	Unknown-101	-1.81	0.00013	-0.86	0.38	0.26	-0.48	0.19
est03b12	Secretory granule proteoglycan core protein	-1.83	0.00000	-0.87	0.31	0.09	-0.56	0.05
HK0003_B12	Myosin light chain 1, skeletal muscle isoform	-1.83	0.00043	-0.87	0.40	0.31	-0.47	0.27
utu01g10	Keratin, type II cytoskeletal 8	-1.84	0.00000	-0.88	0.38	0.09	-0.50	0.21
utu03e08	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2	-1.85	0.00000	-0.89	0.50	0.07	-0.39	0.08
est04a04	Midkine precursor	-1.87	0.00005	-0.90	0.33	0.28	-0.58	0.16
EXOB4_H04	Fructose-1,6-bisphosphatase isozyme 2	-1.89	0.00000	-0.92	0.32	0.10	-0.60	0.12
HKT0001_B03	Alpha 2 type I collagen-1	-1.90	0.00000	-0.93	0.24	0.11	-0.69	0.21
utu03h09	Unknown-262	-1.91	0.00004	-0.93	0.51	0.17	-0.42	0.28
est04h11	Iodotyrosine dehalogenase protein	-1.94	0.00005	-0.96	0.70	0.18	-0.25	0.30
HK0002_D05	Parvalbumin alpha-1	-1.95	0.00002	-0.96	0.33	0.23	-0.63	0.08
EST1-3A_B03	Hypothetical-fish 44	-1.99	0.00000	-0.99	0.65	0.18	-0.34	0.15
HK0003_G01	Creatine kinase, M-2	-2.02	0.00000	-1.01	0.38	0.21	-0.63	0.18
est01e02	Thymosin beta-4-1	-2.03	0.00000	-1.02	0.52	0.08	-0.50	0.10
est01b09	Tolloid-like 2 protein (nephrosin)	-2.03	0.00000	-1.02	0.57	0.19	-0.45	0.07
utu01h02	Cytochrome oxidase subunit III-3	-2.14	0.00000	-1.10	0.43	0.04	-0.67	0.30
HK0003_D01	Troponin C-1, skeletal muscle	-2.15	0.00000	-1.11	0.55	0.14	-0.56	0.10
est02f12	Proteasome subunit beta type 9 precursor	-2.18	0.00000	-1.12	0.51	0.23	-0.61	0.12
HK0002_D09	Prothymosin alpha	-2.22	0.00000	-1.15	0.62	0.11	-0.53	0.09
ENH2_F03	Cathepsin K-1	-2.30	0.00000	-1.20	0.46	0.21	-0.74	0.23
HK0002_E12	Creatine kinase, M-2	-2.32	0.00000	-1.21	0.54	0.18	-0.67	0.24
utu02b07	Cytochrome c oxidase subunit II	-2.35	0.00001	-1.23	0.50	0.09	-0.74	0.33
utu04a06	Creatine kinase, M-3	-2.42	0.00011	-1.28	0.46	0.18	-0.81	0.48
EXOB3_A04	Unknown-104	-2.44	0.00000	-1.29	0.50	0.12	-0.79	0.07
utu02f09	Myosin light chain 2-2	-2.46	0.00004	-1.30	0.62	0.24	-0.68	0.32
HK0001_E10	Myosin regulatory light chain 2, ventricular/cardiac muscle isoform	-2.54	0.00005	-1.34	0.47	0.18	-0.87	0.38
utu01g04	Cytochrome oxidase subunit III-2	-2.55	0.00000	-1.35	0.58	0.17	-0.78	0.11
EXOB2_G01	Leukocyte cell-derived chemotaxin 2	-2.55	0.00000	-1.35	0.59	0.23	-0.77	0.03
est01e10	Tolloid-like protein (nephrosin)-1	-2.60	0.00000	-1.38	0.60	0.13	-0.78	0.11
est03c04	Matrix metalloproteinase-9	-2.70	0.00000	-1.43	0.47	0.20	-0.96	0.07
HST0001_C03	Plasminogen precursor-2	-2.72	0.00000	-1.44	0.75	0.15	-0.70	0.10
KVkm2_H10	Unknown-227	-2.76	0.00000	-1.47	0.46	0.26	-1.01	0.24
CA348284	CCAAT/enhancer binding protein beta	-3.05	0.00001	-1.61	0.65	0.35	-0.96	0.20
EXOB2_D05	Matrix metalloproteinase 9-2	-3.07	0.00000	-1.62	0.63	0.20	-0.99	0.09
est02f08	Serine protease-like protein-1	-3.21	0.00000	-1.68	0.68	0.16	-1.01	0.11
EST1-3A_A09	Serine protease-like protein-2	-3.25	0.00000	-1.70	0.99	0.09	-0.70	0.15
HK0003_C11	Tropomyosin alpha 3 chain-1	-3.34	0.00000	-1.74	0.83	0.35	-0.91	0.24
utu03e06	Parvalbumin alpha-3	-3.50	0.00002	-1.81	0.55	0.24	-1.25	0.25
CA370329	Lysozyme C precursor	-3.90	0.00000	-1.96	0.81	0.20	-1.15	0.13
HK0003_C08	Parvalbumin alpha-2	-3.99	0.00000	-2.00	0.86	0.17	-1.13	0.14
utu04h11	Myosin light chain 2-2	-4.13	0.00000	-2.05	0.71	0.19	-1.34	0.39
utu02c02	Myosin heavy chain, skeletal, adult 1-1	-4.30	0.00000	-2.11	0.84	0.19	-1.27	0.18
Hete0002_A07	Metallothionein-IL	-4.49	0.00000	-2.17	0.96	0.22	-1.21	0.30
HK0003_E07	Myosin light chain 2-1	-4.49	0.00000	-2.17	1.04	0.16	-1.13	0.20
HK0002_D07	Unknown-172	-5.04	0.00000	-2.33	1.17	0.21	-1.16	0.05
EXOB1_A03	Metallothionein A	-5.05	0.00000	-2.34	1.29	0.15	-1.05	0.11
est01c04	Unknown-11	-6.17	0.00001	-2.63	1.14	0.24	-1.48	0.78
HK0002_F05	Myosin heavy chain, skeletal, fetal	-7.31	0.00000	-2.87	1.44	0.53	-1.43	0.31

Table 3: IHNV 24 hours; Genes were selected for sig diff. At a value of p<0.01, Q values are all 0

Clone ID	Match Name	FC	p-value	Diff log2	D Average	D Stdv	R Average	R Stdv
CA343473	C3a anaphylatoxin chemotactic receptor	5.35	0.00000	2.42	-1.23	0.39	1.19	0.28
est04c02	Unknown-53	4.26	0.00000	2.09	-1.17	0.13	0.92	0.12
est02b02	PEST-containing nuclear protein	4.00	0.00000	2.00	-1.13	0.15	0.87	0.32
EXOB3_A01	Unknown-103	3.91	0.00000	1.97	-0.85	0.07	1.12	0.10
CA358107	Ectonucleoside triphosphate diphosphohydrolase 1	3.69	0.00000	1.88	-1.10	0.16	0.79	0.12
EXOB4_H01	Unknown-132	3.63	0.00000	1.86	-1.08	0.11	0.78	0.08
HK0002_G04	Fructose-bisphosphate aldolase A	3.59	0.00000	1.84	-0.98	0.12	0.86	0.15
EXOB1_B03	Unknown-81	3.59	0.00000	1.84	-0.87	0.21	0.97	0.13
EXOB4_E09	Hypoxanthine-guanine phosphoribosyltransferase	3.55	0.00000	1.83	-0.98	0.14	0.85	0.19
CA378361	Ubiquitin ligase SIAH1	3.43	0.00000	1.78	-0.88	0.05	0.90	0.14
HK0003_G05	Unknown-201	3.43	0.00000	1.78	-1.01	0.05	0.77	0.29
est04f10	Hypothetical-fish 1	3.41	0.00000	1.77	-1.05	0.03	0.72	0.30
EST1-3A_G03	Unknown-74	3.40	0.00000	1.77	-0.87	0.09	0.90	0.15
CA378435	Protein phosphatase 2C delta isoform	3.35	0.00000	1.75	-1.01	0.16	0.73	0.15
HK0002_H10	Unknown-182	3.33	0.00000	1.73	-0.99	0.09	0.74	0.32
EXOB1_F02	Transcription regulator protein BACH1	3.28	0.00000	1.71	-0.99	0.07	0.72	0.14
est04b01	Similar to rRNA (Vangl2)	3.26	0.00000	1.71	-0.97	0.15	0.74	0.12
EST1-3A_H05	Adenosine deaminase 3	3.21	0.00000	1.68	-0.66	0.11	1.02	0.24
HK0001_H12	Unknown-162	3.05	0.00000	1.61	-0.88	0.17	0.73	0.19
CA368716	Membrane-bound transcription factor site 2 protease	3.00	0.00000	1.59	-0.84	0.07	0.74	0.11
EST1-3A_H03	Unknown-76	2.99	0.00000	1.58	-0.60	0.07	0.98	0.11
CA351392	Guanine nucleotide exchange factor DBS	2.97	0.00000	1.57	-0.79	0.08	0.78	0.32
EXOB4_B09	Macrophage receptor MARCO	2.95	0.00000	1.56	-0.74	0.10	0.82	0.13
EXOB3_H07	Hypothetical-fish 6	2.92	0.00001	1.55	-0.94	0.19	0.61	0.41
EXOB3_A06	Programmed cell death 10	2.88	0.00000	1.53	-0.87	0.09	0.65	0.15
est04g12	Envelope protein	2.78	0.00000	1.48	-0.81	0.09	0.67	0.15
EXOB1_B02	Hypothetical-fish 34	2.78	0.00000	1.47	-0.55	0.16	0.92	0.11
est03e08	Hypothetical-fish 36	2.76	0.00000	1.46	-0.79	0.11	0.67	0.17
HK0002_H06	Unknown-180	2.74	0.00001	1.45	-0.82	0.08	0.63	0.44
CA384029	Chromobox protein homolog 4	2.73	0.00000	1.45	-0.82	0.09	0.63	0.27
KVkm2_A12	Unknown-220	2.72	0.00000	1.45	-0.98	0.24	0.47	0.23
EXOB3_A03	SEC13-related protein	2.68	0.00000	1.42	-0.66	0.11	0.76	0.12
EXOB1_H05	Transposase-6	2.65	0.00000	1.40	-0.80	0.09	0.61	0.19
CA342204	TNF receptor associated factor 3	2.64	0.00000	1.40	-0.79	0.14	0.61	0.13
KVkm2_H11	Unknown-228	2.58	0.00000	1.37	-0.80	0.03	0.57	0.22
CA366489	Multidrug resistance protein 3-1	2.57	0.00000	1.36	-0.80	0.17	0.56	0.10
est03f04	F-box/WD-repeat protein 11	2.55	0.00000	1.35	-0.73	0.04	0.62	0.14
CA366403	Heat shock 27 kDa protein-1	2.49	0.00000	1.31	-0.73	0.09	0.59	0.10
CA357820	Calponin 1	2.48	0.00000	1.31	-0.67	0.16	0.64	0.14
CA357173	Peptidyl-prolyl cis-trans isomerase 2-2	2.43	0.00000	1.28	-0.77	0.18	0.51	0.08
EST1-3A_F04	ReO_6-2	2.34	0.00000	1.23	-0.39	0.23	0.84	0.18
EXOB2_G11	Stanniocalcin-1	2.32	0.00000	1.22	-0.62	0.05	0.60	0.09
P_4	Myeloperoxidase	2.32	0.00000	1.21	-0.68	0.14	0.53	0.09
P_19	glucocorticoid receptor (GCR)	2.23	0.00001	1.16	-0.77	0.10	0.39	0.35
CA355893	DnaJ homolog subfamily B member 2	2.22	0.00000	1.15	-0.69	0.26	0.47	0.16
CA363978	Inhibitor of kappaB kinase gamma	2.21	0.00000	1.14	-0.70	0.13	0.44	0.17
est02a06	Axonal transporter of synaptic vesicles	2.19	0.00000	1.13	-0.64	0.05	0.49	0.14
est01a07	Unknown-7	2.15	0.00005	1.10	-0.75	0.08	0.35	0.39
KVkm2_H10	Unknown-227	2.12	0.00000	1.09	-0.80	0.13	0.29	0.23
HK0001_D12	Estrogen-responsive B box protein	2.11	0.00000	1.08	-0.44	0.08	0.63	0.14
EXOB3_H02	Unknown-123	2.10	0.00004	1.07	-0.25	0.18	0.83	0.33
CA363762	Cell death activator CIDE-B	2.08	0.00001	1.06	-0.59	0.24	0.47	0.16
HST0001_F09	Alpha-1-microglobulin\/bikunin-2	2.08	0.00000	1.06	-0.68	0.09	0.37	0.14
CA387146	Mannosidase alpha	2.07	0.00000	1.05	-0.64	0.02	0.41	0.15
CA376117	CD231	2.04	0.00000	1.03	-0.61	0.14	0.42	0.14
EXOB1_D03	5'-3' exoribonuclease 2	2.04	0.00000	1.03	-0.19	0.14	0.84	0.19
Hete0002_E09	Transposase-56	2.04	0.00000	1.03	-0.56	0.07	0.47	0.26
est02f02	Unknown-28	2.00	0.00008	1.00	-0.40	0.06	0.60	0.38
EXOB3_H04	Transposase-1	1.99	0.00000	0.99	-0.42	0.07	0.57	0.15
P_3	Epididymal secretory glutathione peroxidase	1.97	0.00000	0.98	-0.55	0.05	0.43	0.12
HK0002_C04	Apolipoprotein E-2	1.97	0.00000	0.98	-0.37	0.03	0.61	0.10
CA363723	Cyclin C	1.95	0.00000	0.96	-0.60	0.16	0.36	0.13
utu04e11	Hyaluronan and proteoglycan link protein 2 precursor	1.94	0.00000	0.95	-0.37	0.03	0.58	0.20
est03d11	Unknown-42	1.94	0.00000	0.95	-0.28	0.15	0.68	0.17
HK0002_E09	Unknown-174	1.93	0.00000	0.95	-0.30	0.17	0.65	0.18
est01f09	High-mobility group protein 2-like 1	1.92	0.00002	0.94	-0.68	0.18	0.26	0.20
EXOB1_A01	Unknown-78	1.92	0.00000	0.94	-0.24	0.09	0.70	0.16
HK0003_E06	DnaJ homolog subfamily C member 9	1.91	0.00000	0.93	-0.35	0.14	0.58	0.14
EXOB3_E10	Unknown-117	1.90	0.00014	0.93	-0.16	0.06	0.77	0.38
utu03a02	Peptidyl-prolyl cis-trans isomerase-7	1.88	0.00000	0.91	-0.58	0.05	0.33	0.21
HK0001_C01	Dermatan-4-sulfotransferase-1-2	1.87	0.00007	0.90	-0.32	0.04	0.58	0.34
P_7	Peptide methionine sulfoxide reductase	1.87	0.00000	0.90	-0.54	0.12	0.36	0.13
EXOB3_G01	Unknown-122	1.84	0.00000	0.88	-0.48	0.05	0.40	0.13
EXOB3_F12	Unknown-121	1.83	0.00000	0.87	-0.29	0.10	0.58	0.04
HK0001_E07	Unknown-155	1.83	0.00002	0.87	-0.36	0.13	0.51	0.25
EXOB3_F04	Unknown-119	1.82	0.00003	0.86	-0.26	0.22	0.60	0.20
EST1-3A_D05	Unknown-70	1.82	0.00001	0.86	-0.46	0.19	0.40	0.17
EXOB1_E12	Serine protease-like protein-3	1.81	0.00000	0.85	-0.21	0.06	0.65	0.12
CA378736	Tyrosine-protein kinase BTK	1.81	0.00000	0.85	-0.47	0.08	0.38	0.12
CA353121	GRB2-related adaptor protein 2	1.81	0.00000	0.85	-0.45	0.08	0.40	0.14
utu01e12	Zinc finger protein 228	1.80	0.00003	0.85	-0.35	0.20	0.50	0.21
utu03g11	Hypothetical-fish 12	1.80	0.00000	0.84	-0.54	0.13	0.30	0.16
HK0001_D09	Cytochrome P450 2F1	1.79	0.00004	0.84	-0.23	0.14	0.61	0.25
EXOB1_A07	Unknown-79	1.79	0.00001	0.84	-0.40	0.19	0.44	0.18
EST1-3A_E07	Unknown-72	1.78	0.00001	0.83	-0.19	0.15	0.64	0.20
EXOB2_B05	Hypothetical-fish 27	1.78	0.00022	0.83	-0.15	0.07	0.67	0.35
CA342227	Protein tyrosine kinase 2 beta	1.77	0.00000	0.82	-0.56	0.12	0.26	0.16
HK0002_C03	Unknown-168	1.76	0.00001	0.82	-0.29	0.11	0.53	0.22
CA354833	Anti-silencing function 1B	1.76	0.00000	0.82	-0.57	0.11	0.25	0.12
HK0001_C04	Unknown-150	1.75	0.00002	0.81	-0.16	0.08	0.65	0.25
utu01h01	Unknown-239	1.75	0.00006	0.80	-0.27	0.12	0.54	0.27
utu01c03	Unknown-232	1.74	0.00000	0.80	-0.40	0.13	0.41	0.18
utu01b05	Gamma crystallin B-1	1.74	0.00013	0.80	-0.45	0.19	0.35	0.27
HK0003_E08	Unknown-194	1.74	0.00003	0.80	-0.24	0.13	0.56	0.24
EXOB4_B01	Transferrin	1.74	0.00001	0.79	-0.39	0.17	0.40	0.17
HK0003_F04	Unknown-197	1.73	0.00001	0.79	-0.29	0.14	0.49	0.20
HK0002_B04	Phospholemman precursor	1.73	0.00000	0.79	-0.30	0.13	0.49	0.13
HK0001_C06	Prostaglandin D synthase homolog	1.72	0.00068	0.79	-0.25	0.22	0.54	0.33
utu02f06	Unknown-244	1.72	0.00011	0.78	-0.57	0.23	0.21	0.21

Table 3 cont'd: IHNV 24 hours; Genes were selected for sig diff. At a value of p<0.01, Q values are all 0

EXOB1_E09	Transposase-57	1.71	0.00061	0.77	-0.15	0.24	0.62	0.30
HK0002_H08	TATA-binding protein associated factor 2N	1.71	0.00001	0.77	-0.29	0.17	0.48	0.16
HK0003_C03	Unknown-189	1.70	0.00002	0.77	-0.22	0.14	0.55	0.22
EXOB1_F10	Suppressor of SWI4 1 homolog	1.70	0.00000	0.76	-0.38	0.08	0.39	0.20
CA381440	Double-stranded RNA-specific adenosine deaminase	1.69	0.00000	0.76	-0.51	0.12	0.25	0.11
CA359043	NAD-dependent deacetylase sirtuin 5	1.68	0.00079	0.75	-0.36	0.26	0.39	0.29
EXOB4_E01	Transposase-58	1.68	0.00000	0.75	-0.26	0.06	0.48	0.09
HK0003_D10	Hypothetical-fish 9	1.66	0.00087	0.73	-0.33	0.18	0.40	0.34
EXOB3_H08	Unknown-124	1.66	0.00005	0.73	-0.19	0.17	0.54	0.20
utu03f06	Chromosome segregation 1-like protein	1.65	0.00018	0.73	-0.29	0.21	0.44	0.23
HK0002_B06	Troponin T-3, fast skeletal muscle	1.65	0.00025	0.73	-0.24	0.20	0.48	0.25
CA342760	47 kDa heat shock protein-2	1.65	0.00001	0.73	-0.44	0.12	0.28	0.19
HK0002_B09	Transgelin	1.65	0.00003	0.72	-0.28	0.06	0.44	0.24
HK0003_D01	Troponin C-1, skeletal muscle	1.65	0.00017	0.72	-0.18	0.17	0.55	0.25
EST1-3A_F09	Unknown-73	1.65	0.00058	0.72	-0.14	0.10	0.58	0.34
CA372345	High density lipoprotein-binding protein	1.64	0.00000	0.71	-0.42	0.11	0.29	0.15
EXOB1_D10	Unknown-85	1.64	0.00000	0.71	-0.21	0.04	0.50	0.15
EXOB2_H10	Leukotriene A-4 hydrolase	1.63	0.00017	0.71	-0.47	0.21	0.24	0.21
CA363944	Nuclear factor NF-kappa-B	1.63	0.00000	0.71	-0.31	0.12	0.40	0.13
CA341859	Nuclear factor kappa-B, subunit 1	1.63	0.00019	0.70	-0.36	0.12	0.34	0.27
HK0002_C02	Chromosome-associated kinesin KIF4A	1.62	0.00013	0.70	-0.18	0.17	0.52	0.23
utu04d04	Actin, alpha skeletal 4	1.61	0.00028	0.69	-0.54	0.28	0.15	0.14
HK0001_D10	Coagulation factor X precursor	1.61	0.00001	0.69	-0.18	0.11	0.50	0.18
utu02h05	Unknown-247	1.61	0.00519	0.69	-0.38	0.31	0.31	0.35
CA386429	Calcium homeostasis endoplasmic reticulum protein	1.61	0.00000	0.69	-0.45	0.08	0.24	0.13
EXOB3_F11	Ubiquitin-conjugating enzyme E2-18 kDa	1.61	0.00002	0.69	-0.24	0.17	0.45	0.15
EXOB3_E06	Unknown-115	1.60	0.00154	0.68	-0.07	0.06	0.61	0.38
CA365505	Retinoblastoma-like protein 1	1.59	0.00037	0.67	-0.18	0.20	0.50	0.24
est04c06	Unknown-54	1.59	0.00026	0.67	-0.24	0.15	0.42	0.21
HK0001_C09	Unknown-151	1.58	0.00001	0.66	-0.22	0.11	0.44	0.17
F_126	DNA fragmentation factor 40 kDa subunit	1.58	0.00002	0.66	-0.49	0.18	0.17	0.10
HK0003_B01	Unknown-185	1.58	0.00018	0.66	-0.26	0.08	0.39	0.27
HK0003_F03	Unknown-196	1.58	0.00272	0.66	-0.21	0.14	0.45	0.38
EXOB3_F07	Unknown-120	1.57	0.00002	0.66	-0.15	0.14	0.50	0.16
EST1-3A_G09	Unknown-75	1.57	0.00000	0.65	-0.33	0.08	0.33	0.15
EST1-3A_E05	Hpa repeat-2	1.57	0.00004	0.65	-0.50	0.13	0.16	0.19
P_8	Glutathione reductase, mitochondrial-1	1.55	0.00000	0.64	-0.30	0.10	0.34	0.08
EXOB2_A04	Hypothetical-fish 4	1.55	0.00006	0.63	-0.16	0.07	0.47	0.23
utu01d02	Unknown-235	1.54	0.00006	0.62	-0.28	0.07	0.34	0.22
est03e07	Unknown-43	1.54	0.00006	0.62	-0.33	0.10	0.29	0.21
HK0003_C12	Unknown-191	1.52	0.00029	0.61	-0.21	0.15	0.40	0.21
utu01b08	Unknown-231	1.52	0.00300	0.60	-0.32	0.15	0.28	0.35
utu01f04	Actin, alpha skeletal 2	1.52	0.00000	0.60	-0.46	0.12	0.14	0.10
HK0002_C06	Unknown-169	1.52	0.00195	0.60	-0.17	0.21	0.43	0.29
P_2	Catalase	1.51	0.00104	0.59	-0.46	0.23	0.13	0.22
EST1-3A_C12	Coronin-1C	1.50	0.00515	0.59	-0.28	0.10	0.31	0.39
HK0002_A12	NADH-ubiquinone oxidoreductase 15 kDa subunit	1.50	0.00016	0.59	-0.21	0.09	0.38	0.23
ENH2_F04	Unknown-4	1.50	0.00017	0.58	-0.35	0.06	0.24	0.23
utu02d06	Unknown-243	1.50	0.00706	0.58	-0.05	0.14	0.53	0.37
HKT0001_A11	Hypothetical-fish 11	1.49	0.00001	0.57	-0.42	0.09	0.15	0.14
Hete0002_C06	Hypothetical protein FLJ46057	1.48	0.00003	0.57	-0.33	0.06	0.24	0.18
utu03h06	Unknown-260	1.48	0.00011	0.56	-0.39	0.10	0.18	0.20
P_57	RIB700	1.48	0.00000	0.56	-0.26	0.09	0.30	0.12
P_10	Aryl hydrocarbon receptor	1.47	0.00001	0.56	-0.30	0.14	0.26	0.09
CA359963	Homocysteine-responsive endoplasmic reticulum-resident ubiquitin-like domain member 1 protein	1.47	0.00000	0.56	-0.33	0.09	0.23	0.07
HK0001_D05	Ubiquitin-like protein SMT3A-2	1.47	0.00362	0.56	-0.17	0.14	0.39	0.33
est01h06	Unknown-21	1.47	0.00072	0.56	-0.27	0.17	0.29	0.17
CA373890	Heat shock protein HSP 90-beta-1	1.47	0.00000	0.55	-0.23	0.08	0.32	0.07
utu01b01	Unknown-230	1.46	0.00964	0.55	-0.31	0.16	0.23	0.37
EXOB1_C12	Hypothetical-fish 31	1.46	0.00000	0.54	-0.03	0.07	0.52	0.10
CA349577	Tyrosine-protein kinase FRK	1.46	0.00014	0.54	-0.29	0.12	0.25	0.19
HK0003_C02	Collagen alpha 1(I) chain-1	1.45	0.00029	0.54	-0.10	0.11	0.43	0.22
HK0002_G11	Myristoylated alanine-rich protein kinase C substrate	1.45	0.00017	0.54	-0.17	0.13	0.36	0.19
EXOB1_H11	Hypothetical-fish 18	1.45	0.00058	0.53	-0.03	0.11	0.50	0.24
EXOB2_F07	T-cell lymphoma associated antigen se33-1	1.45	0.00001	0.53	-0.25	0.14	0.29	0.09
HK0003_F07	Unknown-198	1.45	0.00052	0.53	-0.21	0.17	0.33	0.16
EXOB4_G09	Histone H14	1.44	0.00079	0.52	-0.43	0.20	0.09	0.18
EXOB3_H12	Unknown-125	1.44	0.00131	0.52	-0.13	0.23	0.39	0.18
EXOB3_H01	Matrix metalloproteinase-13	1.44	0.00002	0.52	-0.23	0.06	0.29	0.16
CA363935	BCL2/adenovirus E1B 19-kDa protein-interacting protein 2	1.44	0.00026	0.52	-0.20	0.20	0.33	0.12
est01a10	Unknown-9	1.43	0.00003	0.52	-0.29	0.03	0.23	0.17
KVkm2_H07	Unknown-226	1.43	0.00009	0.52	-0.36	0.14	0.16	0.14
P_17	Nitric oxide synthase 2 (NOS2)	1.42	0.00036	0.51	-0.19	0.15	0.32	0.18
utu02c12	Unknown-240	1.42	0.00406	0.51	-0.57	0.21	-0.07	0.23
HK0003_C07	Heterogeneous nuclear ribonucleoprotein A0	1.42	0.00043	0.51	-0.13	0.14	0.38	0.19
CA346979	MAPK/ERK kinase kinase 5-1	1.42	0.00001	0.51	-0.38	0.13	0.13	0.06
CA384452	Heat shock protein HSP 90-alpha	1.42	0.00011	0.51	-0.41	0.05	0.10	0.19
CR_2	14-3-3 B2	1.42	0.00001	0.51	-0.28	0.05	0.23	0.14
CA367029	Rho guanine nucleotide exchange factor 5	1.41	0.00001	0.50	-0.30	0.10	0.19	0.10
est03c07	Ig kappa chain V-I region WEA	1.41	0.00474	0.50	-0.33	0.23	0.17	0.24
CA354056	Nucleolysin TIA-1	1.41	0.00011	0.50	-0.26	0.13	0.24	0.15
est03a04	Transposase-3	1.41	0.00000	0.49	-0.32	0.08	0.17	0.11
EXOB4_H07	Beta-galactosidase-related protein	1.41	0.00020	0.49	-0.19	0.12	0.30	0.17
CA384134	G1/S-specific cyclin D2	1.41	0.00009	0.49	-0.46	0.07	0.04	0.18
CA357899	Death-associated protein kinase 3	1.40	0.00042	0.49	-0.35	0.18	0.14	0.15
HK0003_B09	Complement factor H-2	1.40	0.00811	0.49	-0.14	0.19	0.35	0.27
HK0001_F01	Complement factor H-1	1.40	0.00657	0.49	-0.07	0.20	0.41	0.28
est03h05	Acidic leucine-rich nuclear phosphoprotein 32 A-2	1.40	0.00017	0.48	-0.28	0.08	0.21	0.19
utu01c08	Unknown-233	1.40	0.00039	0.48	-0.44	0.18	0.05	0.13
KVkm2_F02	SAC2 suppressor of actin mutations 2-like	1.40	0.00201	0.48	-0.38	0.18	0.10	0.23
CA357217	Ubiquitin ligase protein CHFR	1.40	0.00010	0.48	-0.30	0.12	0.19	0.14
EXOB1_G05	Unknown-89	1.40	0.00015	0.48	-0.24	0.11	0.24	0.15
P_49	HIF	1.39	0.00012	0.48	-0.24	0.16	0.24	0.10
EXOB1_B07	PRPF39 protein	1.39	0.00006	0.48	-0.18	0.13	0.29	0.11
CA353088	Cold-inducible RNA-binding protein-1	1.38	0.00000	0.47	-0.25	0.05	0.21	0.11
est04b11	Galectin-9 (VHSV-induced protein)-1	1.38	0.00034	0.46	-0.38	0.20	0.08	0.06
est04a05	Ectonucleotide pyrophosphatase/phosphodiesterase 1	1.38	0.00220	0.46	-0.33	0.10	0.13	0.26
HK0003_H12	Unknown-203	1.38	0.00003	0.46	-0.25	0.09	0.21	0.13
CA357761	Galectin-3	1.37	0.00062	0.46	-0.13	0.18	0.33	0.13

Table 3 cont'd: IHNV 24 hours; Genes were selected for sig diff. At a value of p<0.01, Q values are all 0

EST1-3A_F07	Echinoderm microtubule-associated protein-like 4	1.37	0.00087	0.45	0.00	0.14	0.45	0.20
P_54	VEGF4	1.37	0.00046	0.45	-0.31	0.16	0.15	0.12
CA384555	B-cell-specific coactivator OBF-1	1.37	0.00034	0.45	-0.22	0.12	0.23	0.17
est01g12	Megakaryocyte stimulating factor	1.36	0.00003	0.44	-0.35	0.07	0.09	0.13
est03d06	Eukaryotic translation initiation factor 2 subunit 2	1.35	0.00933	0.44	-0.19	0.23	0.24	0.24
est02h12	Unknown-33	1.35	0.00300	0.43	-0.29	0.11	0.14	0.25
est03g05	Unknown-46	1.35	0.00037	0.43	-0.31	0.14	0.13	0.15
HK0002_H09	Unknown-181	1.35	0.00070	0.43	-0.22	0.06	0.21	0.21
EST1-3A_C08	Translin	1.35	0.00067	0.43	-0.03	0.10	0.40	0.19
P_53	Aryl hydrocarbon receptor	1.35	0.00014	0.43	-0.17	0.12	0.26	0.13
CA387854	Apoptosis inhibitor 5	1.35	0.00054	0.43	-0.26	0.17	0.17	0.13
CA380121	Telomerase reverse transcriptase	1.34	0.00004	0.43	-0.24	0.05	0.18	0.14
utu01g11	Actin, alpha skeletal 3	1.34	0.00465	0.42	-0.45	0.24	-0.03	0.16
CA369440	NAD(P)H menadione oxidoreductase 1, dioxin-inducible	1.34	0.00185	0.42	-0.32	0.10	0.10	0.23
EXOB2_H02	Serine/arginine repetitive matrix 1	1.34	0.00988	0.42	-0.03	0.20	0.39	0.26
HK0001_C08	Galectin-9 (VHSV-induced protein)-3	1.33	0.00138	0.42	-0.27	0.10	0.14	0.21
CA380746	Agrin	1.33	0.00365	0.41	-0.21	0.22	0.20	0.16
CA386899	Astrocytic phosphoprotein PEA-15	1.33	0.00337	0.41	-0.21	0.17	0.20	0.21
KVkm2_C10	Mothers against decapentaplegic homolog 7	1.33	0.00015	0.41	-0.33	0.13	0.08	0.11
est03e10	Putative inorganic polyphosphate/ATP-NAD kinase	1.33	0.00872	0.41	-0.20	0.15	0.21	0.27
EXOB2_H11	Glucose-6-phosphatase	1.32	0.00013	0.40	-0.17	0.13	0.23	0.11
utu04g06	Unknown-270	1.32	0.00294	0.40	-0.14	0.23	0.27	0.10
EST1-3A_H08	Sp1 transcriptional activation factor	1.32	0.00807	0.40	-0.12	0.09	0.27	0.28
CA366393	Mannan-binding lectin serine protease 2-1	1.32	0.00191	0.40	-0.31	0.11	0.09	0.21
CA358548	Polyadenylate-binding protein 4	1.32	0.00073	0.40	-0.13	0.09	0.26	0.18
est04e06	Caspase recruitment domain protein 4	1.32	0.00035	0.40	-0.31	0.14	0.09	0.12
est01f03	Deltex protein 1	1.31	0.00153	0.40	-0.29	0.12	0.11	0.19
HK0003_F05	28S ribosomal protein S16, mitochondrial precursor	1.31	0.00556	0.39	-0.08	0.19	0.31	0.20
EXOB2_E04	Unknown-97	1.31	0.00074	0.39	-0.24	0.14	0.15	0.14
CA363983	Cell growth regulator with RING finger domain 1	1.31	0.00023	0.39	-0.18	0.10	0.21	0.14
HK0003_A04	Eukaryotic translation initiation factor 3 subunit 6-2	1.31	0.00035	0.39	-0.16	0.11	0.23	0.14
EXOB3_F10	Nuclease sensitive element binding protein 1-2	1.30	0.00563	0.38	0.02	0.05	0.41	0.26
EXOB2_B06	Unknown-93	1.30	0.00851	0.38	-0.09	0.21	0.29	0.15
HK0002_F03	Unknown-176	1.30	0.00972	0.38	-0.05	0.21	0.33	0.20
CA378743	Fibronectin precursor	1.30	0.00152	0.38	-0.22	0.10	0.15	0.19
EXOB4_D12	Hpa repeat-1	1.30	0.00052	0.37	-0.23	0.12	0.15	0.13
EXOB4_C02	Unknown-127	1.30	0.00063	0.37	-0.18	0.10	0.20	0.16
CA347565	Semaphorin sem2	1.29	0.00271	0.37	-0.23	0.18	0.14	0.15
CA366892	Unc-112 related protein 2	1.29	0.00097	0.37	-0.23	0.16	0.14	0.11
EXOB3_C10	G1/S-specific cyclin E1	1.29	0.00002	0.37	-0.14	0.10	0.23	0.07
EXOB3_B08	Hypothetical-fish 5	1.28	0.00029	0.36	-0.15	0.09	0.21	0.13
CA371052	Cyclin A2	1.28	0.00046	0.36	-0.16	0.07	0.20	0.15
HK0001_B07	Ovarian fibroin-like substance-2	1.28	0.00695	0.36	-0.14	0.13	0.22	0.22
est01c11	Succinate dehydrogenase [ubiquinone] mitochondrial	1.28	0.00277	0.35	-0.31	0.13	0.05	0.18
CA375569	Serine/threonine-protein kinase Chk1	1.28	0.00969	0.35	-0.18	0.18	0.17	0.20
HK0003_F02	Unknown-195	1.28	0.00684	0.35	-0.10	0.13	0.25	0.20
EXOB2_H07	WD-repeat containing protein Ciao 1	1.28	0.00947	0.35	-0.18	0.11	0.17	0.25
CA361232	Dual specificity protein phosphatase 5	1.28	0.00000	0.35	-0.07	0.08	0.28	0.05
CA346925	Acidic leucine-rich nuclear phosphoprotein 32 E	1.28	0.00761	0.35	-0.19	0.10	0.17	0.24
KVkm2_E07	Unknown-223	1.28	0.00127	0.35	-0.23	0.07	0.12	0.18
CA352454	Semaphorin 4D	1.28	0.00638	0.35	-0.19	0.12	0.16	0.22
EXOB3_A07	Unknown-105	1.27	0.00002	0.35	-0.28	0.08	0.07	0.08
CA387866	Arachidonate 5-lipoxygenase-2	1.27	0.00010	0.35	-0.20	0.09	0.14	0.10
est03b11	Acidic leucine-rich nuclear phosphoprotein 32 A-1	1.27	0.00077	0.34	-0.28	0.08	0.06	0.16
CA385359	Serum amyloid P-component-2	1.27	0.00071	0.34	-0.18	0.08	0.16	0.15
EXOB3_A05	WD-repeat containing protein Ciao 1	1.27	0.00765	0.34	-0.15	0.16	0.19	0.14
HK0003_D08	Unknown-193	1.26	0.00094	0.34	-0.14	0.12	0.20	0.13
CA373506	Selenoprotein P	1.26	0.00023	0.34	-0.19	0.08	0.15	0.11
EXOB1_H01	Hypothetical-fish 42	1.26	0.00027	0.34	-0.07	0.11	0.26	0.07
HKT0001_G11	Nucleoside diphosphate kinase 3	1.26	0.00031	0.33	-0.30	0.10	0.04	0.09
EST1-3A_A01	Cytosolic nonspecific dipeptidase	1.26	0.00027	0.33	-0.29	0.09	0.04	0.12
CR_7	14-3-3 G1	1.26	0.00781	0.33	-0.24	0.16	0.09	0.16
EST1-3A_C04	Splicing factor, arginine/serine-rich 8	1.25	0.00361	0.33	-0.05	0.14	0.28	0.16
HK0003_A10	Unknown-184	1.25	0.00081	0.32	-0.09	0.04	0.23	0.16
EXOB2_B11	D-dopachrome tautomerase	1.25	0.00009	0.32	-0.06	0.08	0.26	0.08
EXOB1_B09	Ribonucleoside-diphosphate reductase large subunit	1.25	0.00028	0.32	-0.08	0.08	0.24	0.10
CA346849	Unc-13 homolog C	1.24	0.00039	0.32	-0.23	0.13	0.08	0.06
CA361342	Orphan nuclear receptor NR4A2	1.24	0.00422	0.31	-0.07	0.17	0.24	0.08
CA383564	Coatomer epsilon subunit 1	1.24	0.00004	0.31	-0.09	0.05	0.22	0.10
EST1-3A_A07	Unknown-64	1.24	0.00966	0.31	-0.09	0.20	0.22	0.07
CA365208	C-C chemokine receptor type 6	1.23	0.00196	0.30	-0.15	0.06	0.15	0.15
KVkm2_C04	Unknown-221	1.23	0.00190	0.29	-0.29	0.14	0.01	0.09
HK0001_F04	Elongation factor 1-beta (EF-1-beta)	1.22	0.00022	0.29	-0.08	0.08	0.21	0.06
EXOB4_A07	T-complex protein 1, gamma subunit	1.22	0.00591	0.29	-0.05	0.14	0.24	0.15
CA371435	Vasopressin-activated calcium-mobilizing receptor	1.22	0.00441	0.28	-0.17	0.10	0.11	0.15
HK0003_A11	Apolipoprotein A-I-1	1.20	0.00386	0.27	-0.03	0.06	0.23	0.16
CA358266	T-cell, immune regulator 1, isoform a	1.20	0.00067	0.27	-0.17	0.06	0.10	0.12
CA362134	T-cell leukemia virus enhancer factor	1.20	0.00083	0.26	-0.10	0.09	0.16	0.11
est04a01	Unknown-50	1.20	0.00773	0.26	-0.13	0.18	0.13	0.07
CA388006	MAPK/ERK kinase 6	1.19	0.00434	0.25	-0.17	0.06	0.08	0.16
EST1-3A_D11	Unknown-71	1.19	0.00401	0.25	0.01	0.09	0.25	0.12
CA359048	Ran-binding protein 2	1.19	0.00287	0.25	-0.10	0.10	0.15	0.12
CR_10	14-3-3 A1	1.19	0.00301	0.25	-0.20	0.09	0.05	0.11
utu02g04	Glycogen phosphorylase-1	1.19	0.00727	0.25	-0.14	0.15	0.11	0.06
EXOB1_E10	Unknown-87	1.19	0.00203	0.24	-0.11	0.06	0.14	0.13
CA365100	Delta-6 fatty acid desaturase	1.18	0.00740	0.24	-0.16	0.14	0.07	0.06
HK0001_F09	Unknown-157	1.17	0.00927	0.23	-0.08	0.14	0.15	0.07
CA356454	Guanine nucleotide exchange factor	1.17	0.00076	0.23	-0.10	0.07	0.13	0.09
HKT0001_D01	Unknown-205	1.16	0.00089	0.22	-0.11	0.06	0.11	0.07
CA382570	Mitogen-activated protein kinase 13	1.16	0.00085	0.22	-0.05	0.10	0.17	0.05
est04f03	Unknown-59	1.16	0.00689	0.21	-0.05	0.11	0.16	0.11
EXOB2_D09	GWSC6486	1.16	0.00771	0.21	-0.01	0.07	0.20	0.14
HK0001_E06	Transposase-2	1.15	0.00782	0.20	-0.04	0.11	0.17	0.09
EST1-3A_E12	Hypothetical-fish 3	1.15	0.00208	0.20	-0.01	0.08	0.19	0.09
HK0001_B10	Unknown-148	1.15	0.00813	0.20	-0.08	0.12	0.11	0.04
CA375099	BCL2-associated athanogene 2	1.14	0.00847	0.19	-0.05	0.09	0.14	0.11
EXOB2_F08	CDC10 protein homolog	1.14	0.00470	0.19	-0.11	0.07	0.08	0.11
est04e07	Splicing factor, arginine/serine-rich 12-1	1.13	0.00556	0.18	-0.08	0.08	0.10	0.09
CA351800	Superoxide dismutase [Cu-Zn]	1.12	0.00100	0.16	-0.21	0.06	-0.05	0.04
est02c03	Hypothetical UPF0193 protein EVG1	1.11	0.00917	0.15	-0.06	0.09	0.09	0.06

Table 3 cont'd: IHNV 24 hours; Genes were selected for sig diff. At a value of p<0.01, Q values are all 0

CA376350	Serum amyloid P-component-1	1.09	0.00836	0.13	0.03	0.06	0.16	0.07
CA373759	Lymphocyte antigen 75	1.08	0.00281	0.11	-0.05	0.04	0.05	0.05
CA342145	RNA binding motif protein 4	-1.12	0.00833	-0.16	0.06	0.11	-0.10	0.05
utu02h08	Glutathione S-transferase P-2	-1.15	0.00962	-0.21	-0.03	0.08	-0.23	0.13
est04e08	Malate dehydrogenase, cytoplasmic	-1.16	0.00205	-0.21	0.01	0.07	-0.20	0.10
utu03h03	Nuclear RNA helicase	-1.16	0.00109	-0.21	0.10	0.07	-0.11	0.06
Hete0002_E07	Phosphoenolpyruvate carboxykinase-Embryonic beta-type globin2	-1.16	0.00521	-0.22	0.01	0.03	-0.21	0.14
est04d01	Nuclear antigen H731	-1.16	0.00095	-0.22	0.04	0.11	-0.18	0.03
est04a08	Ras-related C3 botulinum toxin substrate 2	-1.17	0.00119	-0.23	0.06	0.11	-0.17	0.06
est04f12	Hypothetical-fish 2	-1.18	0.00653	-0.23	-0.02	0.07	-0.25	0.14
utu01a06	Unknown-229	-1.19	0.00409	-0.25	0.14	0.09	-0.12	0.14
EXOB4_F04	Unknown-129	-1.20	0.00685	-0.26	0.17	0.12	-0.09	0.14
CA370369	Heat shock protein cognate 40	-1.20	0.00706	-0.27	0.22	0.07	-0.05	0.18
CA364325	Peroxiredoxin 6	-1.20	0.00275	-0.27	0.14	0.10	-0.13	0.13
CA350741	Cdc45	-1.20	0.00710	-0.27	0.10	0.08	-0.16	0.18
EXOB3_G03	60S acidic ribosomal protein P2	-1.20	0.00172	-0.27	0.38	0.11	0.12	0.11
EXOB3_G09	Ornithine decarboxylase antizyme-2	-1.20	0.00591	-0.27	0.35	0.14	0.08	0.13
CA349350	Serum/glucocorticoid-regulated kinase	-1.21	0.00513	-0.27	0.15	0.08	-0.12	0.17
EXOB4_G02	Galectin-9 (VHSV-induced protein)-2	-1.21	0.00335	-0.28	0.08	0.03	-0.20	0.18
CA382425	B-cell translocation gene 1-2	-1.21	0.00672	-0.28	0.22	0.07	-0.06	0.19
est01b05	Ribonuclease Ok2	-1.22	0.00358	-0.28	0.01	0.11	-0.27	0.12
HK0002_E11	Calpain 2, large [catalytic] subunit precursor	-1.22	0.00112	-0.29	0.16	0.06	-0.13	0.15
utu04b09	Complement factor H-3	-1.24	0.00164	-0.30	0.19	0.16	-0.11	0.07
CA349860	ATP-dependent Clp protease ATP-binding subunit	-1.24	0.00579	-0.31	0.17	0.11	-0.14	0.19
utu01h05	Troponin T-2, fast skeletal muscle	-1.24	0.00121	-0.31	0.12	0.13	-0.19	0.09
CA345105	Aldehyde dehydrogenase 7	-1.24	0.00214	-0.31	0.08	0.07	-0.23	0.17
utu04d02	Beta enolase-5	-1.24	0.00027	-0.31	0.08	0.12	-0.23	0.07
P_46	ATPase 6	-1.24	0.00001	-0.32	0.19	0.08	-0.12	0.06
CA384637	60 kDa heat shock protein-1	-1.25	0.00044	-0.32	-0.07	0.09	-0.39	0.12
est01g04	5-aminolevulinate synthase	-1.25	0.00206	-0.33	0.07	0.13	-0.26	0.14
HK0003_H04	NADH-ubiquinone oxidoreductase 19 kDa subunit	-1.26	0.00591	-0.33	0.18	0.12	-0.15	0.20
utu03g10	Cathepsin D	-1.26	0.00068	-0.33	0.05	0.10	-0.28	0.13
est02a08	Lipin 2	-1.27	0.00710	-0.34	0.27	0.04	-0.07	0.24
utu03c09	40S ribosomal protein S5	-1.27	0.00745	-0.35	0.18	0.14	-0.16	0.21
est03f09	NADH-ubiquinone oxidoreductase 49 kDa subunit, mitochondrial precursor	-1.27	0.00126	-0.35	0.06	0.15	-0.29	0.12
est04d04	Unknown-57	-1.28	0.00028	-0.35	0.15	0.10	-0.21	0.10
CA373525	Cytochrome B-245 heavy chain-2	-1.28	0.00175	-0.36	0.28	0.12	-0.08	0.17
est01e09	Seryl-tRNA synthetase	-1.29	0.00098	-0.36	0.17	0.08	-0.19	0.18
est01e05	Glutathione S-transferase, mitochondrial	-1.29	0.00046	-0.36	0.16	0.07	-0.21	0.16
EXOB2_C10	Red cell acid phosphatase 1	-1.29	0.00248	-0.37	0.13	0.15	-0.24	0.16
HK0003_A12	Heterogeneous nuclear ribonucleoprotein A1-1	-1.29	0.00597	-0.37	0.23	0.18	-0.13	0.18
HK0003_C11	Tropomyosin alpha 3 chain-1	-1.29	0.00016	-0.37	0.23	0.06	-0.13	0.14
CA371001	Very-long-chain acyl-CoA synthetase	-1.30	0.00349	-0.37	0.17	0.21	-0.20	0.11
est02e04	Membrane associated progesterone receptor component 2	-1.30	0.00304	-0.38	0.07	0.14	-0.30	0.19
utu02b04	Troponin C-2, skeletal muscle	-1.30	0.00021	-0.38	0.16	0.10	-0.22	0.13
utu04c11	Collagen alpha 1(I) chain-2	-1.30	0.00045	-0.38	0.23	0.13	-0.15	0.13
CA380028	StAR-related lipid transfer protein 3	-1.30	0.00002	-0.38	0.21	0.08	-0.18	0.09
CA387513	Connective tissue growth factor	-1.30	0.00255	-0.38	0.16	0.18	-0.23	0.15
EXOB4_B11	40S ribosomal protein S30	-1.31	0.00003	-0.39	0.24	0.11	-0.14	0.07
HK0001_D07	Unknown-153	-1.31	0.00110	-0.39	0.22	0.13	-0.17	0.16
EXOB1_F01	60S ribosomal protein L35a-1	-1.31	0.00167	-0.39	0.37	0.15	-0.02	0.17
EXOB4_F10	Transcobalamin I precursor	-1.32	0.00214	-0.40	0.34	0.10	-0.06	0.21
CA350333	Ras activator RasGRP	-1.32	0.00002	-0.40	0.12	0.05	-0.28	0.12
HK0002_B02	60S ribosomal protein L35a-2	-1.32	0.00207	-0.40	0.18	0.14	-0.22	0.20
EXOB1_E04	Ubiquitin-like protein SMT3A-1	-1.32	0.00010	-0.40	0.20	0.05	-0.21	0.15
est03h09	Unknown-49	-1.32	0.00020	-0.41	0.30	0.09	-0.11	0.13
EST1-3A_F08	Heat shock protein HSP 90-beta-2	-1.33	0.00197	-0.41	0.18	0.06	-0.23	0.23
EST1-3A_G07	COP9 signalosome complex subunit 6	-1.34	0.00147	-0.42	0.31	0.13	-0.10	0.18
utu01f03	Unknown-238	-1.34	0.00215	-0.42	0.14	0.08	-0.28	0.24
utu04b04	Hypothetical-fish 32	-1.35	0.00678	-0.43	-0.03	0.13	-0.46	0.27
est04a04	Midkine precursor	-1.35	0.00045	-0.43	0.17	0.15	-0.26	0.14
HK0001_F05	Unknown-156	-1.35	0.00159	-0.43	0.29	0.13	-0.14	0.21
KVkm2_F06	60S ribosomal protein L32-1	-1.35	0.00090	-0.43	-0.05	0.04	-0.49	0.22
est01g07	Proteasome activator complex subunit 2	-1.35	0.00313	-0.44	0.13	0.17	-0.31	0.22
EXOB3_E08	Unknown-116	-1.36	0.00139	-0.44	0.35	0.19	-0.09	0.15
EXOB1_D11	Dynein light chain 2, cytoplasmic	-1.36	0.00025	-0.44	0.27	0.08	-0.17	0.18
EXOB2_E03	14-3-3B1	-1.36	0.00041	-0.44	0.25	0.15	-0.20	0.14
CA371363	Glucose-6-phosphate isomerase-1	-1.37	0.00081	-0.45	0.15	0.07	-0.30	0.23
HK0002_C07	60S ribosomal protein L17	-1.38	0.00000	-0.46	0.24	0.06	-0.22	0.10
CA388461	NF-kappaB inhibitor alpha-3	-1.39	0.00013	-0.47	0.31	0.17	-0.17	0.09
EXOB2_A09	60S ribosomal protein L5-2	-1.39	0.00081	-0.47	0.27	0.16	-0.20	0.19
utu03d10	Glyceraldehyde-3-phosphate dehydrogenase-5	-1.39	0.00024	-0.48	0.07	0.18	-0.41	0.11
EXOB3_G04	Tyrosine-protein kinase HCK	-1.39	0.00318	-0.48	0.33	0.10	-0.15	0.29
EXOB2_E01	Heterogeneous nuclear ribonucleoprotein A1-2	-1.39	0.00005	-0.48	0.21	0.08	-0.27	0.15
EXOB2_B04	Syntenin 1	-1.40	0.00004	-0.48	0.31	0.12	-0.17	0.12
CA368961	78 kDa glucose-regulated protein precursor	-1.40	0.00130	-0.48	0.10	0.12	-0.39	0.23
est02e09	Ig heavy chain V-III region HIL	-1.40	0.00006	-0.48	0.18	0.06	-0.31	0.17
CA368739	BCL2-associated athanogene 1	-1.40	0.00029	-0.49	0.21	0.13	-0.27	0.17
EXOB2_B01	Nuclease sensitive element binding protein 1-1	-1.41	0.00016	-0.50	0.34	0.15	-0.16	0.15
EXOB4_A11	Tubulin alpha-ubiquitous chain	-1.41	0.00025	-0.50	0.35	0.07	-0.15	0.21
est02f06	Unknown-29	-1.42	0.00001	-0.50	0.18	0.05	-0.32	0.14
CA377672	Defender against cell death 1	-1.42	0.00016	-0.51	0.26	0.09	-0.25	0.19
est04f07	Transposase-5	-1.42	0.00008	-0.51	0.17	0.08	-0.34	0.18
est02d09	Basic leucine-zipper protein BZAP45-1	-1.43	0.00026	-0.51	0.23	0.14	-0.28	0.18
est01c06	ADP-ribosylation factor 4	-1.43	0.00003	-0.51	0.21	0.05	-0.30	0.14
EXOB2_D04	Xaa-Pro dipeptidase	-1.43	0.00072	-0.52	0.35	0.08	-0.16	0.25
utu02a06	Collagen a3(I)-1	-1.43	0.00046	-0.52	0.17	0.09	-0.34	0.23
HKT0001_C09	Malate dehydrogenase, mitochondrial-1	-1.44	0.00005	-0.52	0.15	0.10	-0.37	0.16
CA345232	Similar to GTP-binding protein ragB	-1.44	0.00006	-0.52	0.19	0.07	-0.33	0.18
HK0002_B10	B-cell receptor-associated protein BAP37-2	-1.44	0.00000	-0.53	0.27	0.04	-0.26	0.12
EXOB4_E11	Annexin IV	-1.44	0.00004	-0.53	0.21	0.09	-0.32	0.16
est02a09	Gap junction alpha-3 protein	-1.45	0.00371	-0.54	0.23	0.17	-0.31	0.29
CA371300	Acid ceramidase precursor	-1.45	0.00419	-0.54	0.32	0.08	-0.22	0.35
est04f08	Telomerase-binding protein p23-1	-1.46	0.00211	-0.54	0.17	0.19	-0.38	0.26
CA381566	Programmed cell death protein 6	-1.46	0.00011	-0.54	0.26	0.11	-0.29	0.18
HKT0001_H06	60S ribosomal protein L18	-1.46	0.00139	-0.55	0.23	0.18	-0.32	0.25
KVkm2_D01	Vacuolar ATP synthase 16 kDa proteolipid subunit	-1.46	0.00025	-0.55	0.19	0.08	-0.35	0.23
CR_5	14-3-3 E1	-1.47	0.00006	-0.55	0.17	0.08	-0.38	0.19
EXOB2_E10	Adenosine kinase 3	-1.47	0.00080	-0.56	0.13	0.10	-0.43	0.27
est01e02	Thymosin beta-4-1	-1.47	0.00001	-0.56	0.18	0.08	-0.38	0.15

Table 3 cont'd: IHNV 24 hours; Genes were selected for sig diff. At a value of p<0.01, Q values are all 0

est02c08	Nicotinamide riboside kinase 2	-1.48	0.00005	-0.56	0.12	0.17	-0.44	0.10
EXOB3_A11	Unknown-107	-1.48	0.00003	-0.56	0.23	0.10	-0.34	0.17
Hete0002_G11	Hypothetical-fish 23	-1.48	0.00000	-0.56	0.13	0.08	-0.43	0.12
EXOB4_F08	Glyoxylate reductase/hydroxypyruvate reductase	-1.49	0.00011	-0.57	0.24	0.10	-0.34	0.21
EXOB3_C04	Glyceraldehyde-3-phosphate dehydrogenase-1	-1.49	0.00000	-0.58	0.30	0.08	-0.28	0.11
utu03g04	Myosin heavy chain, cardiac muscle beta isoform	-1.50	0.00011	-0.58	0.31	0.17	-0.27	0.16
est02f12	Proteasome subunit beta type 9 precursor	-1.50	0.00001	-0.58	0.18	0.09	-0.40	0.14
EXOB2_C01	Cofilin, muscle isoform	-1.50	0.00353	-0.58	0.43	0.10	-0.15	0.36
HST0001_C07	Unknown-213	-1.50	0.00099	-0.59	0.12	0.12	-0.46	0.29
HKT0001_H07	60S ribosomal protein L37a	-1.50	0.00055	-0.59	0.31	0.07	-0.28	0.28
EXOB4_B03	Ribosomal protein L36a-like-1	-1.50	0.00794	-0.59	0.55	0.13	-0.03	0.41
CA379787	Cyclin G1	-1.50	0.00003	-0.59	0.31	0.09	-0.27	0.18
EXOB1_C02	Unknown-83	-1.50	0.00000	-0.59	0.43	0.05	-0.16	0.12
EST1-3A_C11	Cdk inhibitor p21 binding protein	-1.51	0.00210	-0.59	0.30	0.15	-0.29	0.32
CA359569	Voltage-dependent anion-selective channel protein 1	-1.51	0.00004	-0.59	0.19	0.11	-0.40	0.18
EXOB4_E04	Elongation factor 1-beta	-1.51	0.00001	-0.59	0.35	0.10	-0.24	0.14
CA383795	Allograft inflammatory factor-1	-1.51	0.00017	-0.60	0.24	0.16	-0.36	0.20
ENH2_B05	60S ribosomal protein L13a-acute pahse protein	-1.52	0.00009	-0.60	0.24	0.20	-0.36	0.13
EXOB1_H12	NADH dehydrogenase subunit 4	-1.53	0.00008	-0.61	0.47	0.14	-0.14	0.19
HK0003_G01	Creatine kinase, M-2	-1.54	0.00094	-0.62	0.34	0.07	-0.28	0.32
utu03h02	6-phosphofructokinase	-1.54	0.00003	-0.62	0.25	0.07	-0.37	0.20
utu01c12	Heat shock cognate 71 kDa protein	-1.54	0.00102	-0.63	0.33	0.27	-0.30	0.20
HKT0001_G12	Malate dehydrogenase, mitochondrial-2	-1.55	0.00149	-0.63	0.24	0.16	-0.39	0.27
EXOB3_C07	60S ribosomal protein L7a-2	-1.55	0.00001	-0.64	0.50	0.10	-0.14	0.12
EXOB3_G06	40S ribosomal protein S15-1	-1.56	0.00039	-0.64	0.50	0.08	-0.14	0.28
est04h11	Iodotyrosine dehalogenase protein	-1.56	0.00028	-0.64	0.26	0.15	-0.38	0.25
HK0003_E07	Myosin light chain 2-1	-1.56	0.00506	-0.64	0.47	0.31	-0.17	0.31
EST1-3A_B03	Hypothetical-fish 44	-1.56	0.00043	-0.64	0.36	0.10	-0.28	0.29
CA347646	GrpE protein homolog 1, mitochondrial precursor	-1.56	0.00007	-0.64	0.24	0.07	-0.41	0.23
F_122	ARP2/3 complex 21 kDa subunit	-1.57	0.00000	-0.65	0.24	0.08	-0.41	0.14
EXOB3_F08	60S ribosomal protein L10-1	-1.57	0.00005	-0.65	0.53	0.10	-0.12	0.22
utu02e04	ATP synthase coupling factor 6, mitochondrial precursor	-1.58	0.00009	-0.66	0.22	0.14	-0.44	0.21
utu02g02	40S ribosomal protein S21	-1.58	0.00005	-0.66	0.13	0.17	-0.52	0.17
utu04f06	Myosin heavy chain, skeletal, adult 1-2	-1.60	0.00001	-0.68	0.37	0.11	-0.30	0.16
EST1-3A_A12	Unknown-65	-1.61	0.00007	-0.69	0.76	0.13	0.07	0.22
P_47	cardiac peptide B	-1.61	0.00000	-0.69	0.30	0.05	-0.39	0.07
EXOB1_C08	Eukaryotic initiation factor 4A-I	-1.62	0.00001	-0.69	0.47	0.19	-0.22	0.09
est03b03	Cathepsin C-2	-1.62	0.00220	-0.70	0.31	0.11	-0.39	0.40
EXOB1_B04	Beta actin-1	-1.63	0.00000	-0.71	0.62	0.07	-0.09	0.10
KVkm2_A01	Unknown-219	-1.63	0.00537	-0.71	0.41	0.19	-0.30	0.45
EXOB4_G12	Unknown-131	-1.64	0.00006	-0.72	0.37	0.10	-0.35	0.25
EXOB4_F03	Cathepsin S	-1.65	0.00001	-0.73	0.25	0.10	-0.47	0.19
CA344428	Glutathione peroxidase 4	-1.65	0.00037	-0.73	0.27	0.30	-0.45	0.16
utu03b02	Ribosomal protein L6-2	-1.66	0.00001	-0.73	0.20	0.11	-0.53	0.19
ENH2_B12	Ribosomal protein L35-1	-1.68	0.00007	-0.75	0.39	0.19	-0.36	0.21
CA362691	N-myc downstream regulated protein-1	-1.69	0.00002	-0.76	0.42	0.09	-0.34	0.22
ENH2_B08	Splicing factor, arginine/serine-rich 3	-1.70	0.00006	-0.77	0.35	0.15	-0.42	0.24
utu02a10	Glyceraldehyde-3-phosphate dehydrogenase-3	-1.73	0.00000	-0.79	0.29	0.10	-0.49	0.12
CA367764	Calmodulin-1	-1.73	0.00000	-0.79	0.31	0.10	-0.48	0.16
EXOB3_B01	Cathepsin C-3	-1.74	0.00039	-0.80	0.53	0.23	-0.27	0.30
EST1-3A_H07	Cytochrome b-1	-1.74	0.00024	-0.80	0.42	0.08	-0.38	0.34
ENH2_F10	ATP synthase lipid-binding protein	-1.75	0.00003	-0.80	0.27	0.14	-0.54	0.23
EXOB2_G12	Tolloid-like protein (nephrosin)-2	-1.75	0.00000	-0.81	0.51	0.08	-0.30	0.12
KVkm2_D08	60S ribosomal protein L18a	-1.77	0.00000	-0.83	0.26	0.11	-0.57	0.12
EXOB3_H05	Glucose-6-phosphate isomerase-2	-1.77	0.00000	-0.83	0.49	0.13	-0.34	0.19
EXOB3_D10	Na/K ATPase alpha subunit-1	-1.77	0.00056	-0.83	0.63	0.17	-0.20	0.37
Hete0002_E10	40S ribosomal protein S8	-1.78	0.00000	-0.83	0.41	0.11	-0.42	0.14
CA370661	Barrier-to-autointegration factor	-1.78	0.00010	-0.84	0.36	0.08	-0.47	0.32
utu02h04	40S ribosomal protein S6	-1.79	0.00001	-0.84	0.30	0.08	-0.54	0.24
HK0001_E10	Myosin regulatory light chain 2, ventricular/cardiac muscle isoform	-1.80	0.00000	-0.85	0.52	0.09	-0.33	0.20
HK0002_G02	Creatine kinase, sarcomeric mitochondrial precursor	-1.82	0.00000	-0.86	0.32	0.10	-0.54	0.21
HK0003_A03	Thymosin beta-4-2	-1.84	0.00000	-0.88	0.33	0.18	-0.55	0.12
est02f08	Serine protease-like protein-1	-1.84	0.00000	-0.88	0.36	0.08	-0.52	0.19
est01d09	Selenoprotein T-1	-1.84	0.00000	-0.88	0.40	0.10	-0.48	0.18
EXOB1_E03	Eukaryotic translation initiation factor 3 subunit 5	-1.85	0.00000	-0.89	0.37	0.10	-0.52	0.08
utu02b09	60S acidic ribosomal protein P0	-1.86	0.00000	-0.89	0.38	0.09	-0.51	0.20
utu04a06	Creatine kinase, M-3	-1.87	0.00000	-0.90	0.43	0.14	-0.47	0.13
ENH2_A03	60S ribosomal protein L15	-1.87	0.00000	-0.91	0.42	0.12	-0.48	0.14
EXOB4_C11	High affinity immunoglobulin gamma Fc receptor I precursor	-1.88	0.00000	-0.91	0.54	0.12	-0.38	0.11
EXOB2_H01	Unknown-100	-1.89	0.00008	-0.92	0.45	0.27	-0.47	0.23
utu03e06	Parvalbumin alpha-3	-1.89	0.00000	-0.92	0.57	0.17	-0.35	0.13
EXOB2_A07	Unknown-91	-1.90	0.00000	-0.93	0.48	0.08	-0.44	0.22
HK0001_A12	40S ribosomal protein S2	-1.91	0.00000	-0.93	0.50	0.09	-0.44	0.13
EXOB3_B12	Unknown-109	-1.92	0.00001	-0.94	0.48	0.12	-0.46	0.23
EXOB1_A06	ADP,ATP carrier protein T2	-1.92	0.00001	-0.94	0.57	0.09	-0.37	0.27
utu03h09	Unknown-262	-1.93	0.00000	-0.95	0.31	0.11	-0.64	0.16
HK0002_G03	Histone H10	-1.93	0.00000	-0.95	0.37	0.10	-0.59	0.22
EXOB2_D05	Matrix metalloproteinase 9-2	-1.93	0.00000	-0.95	0.45	0.06	-0.50	0.19
est04f01	Polyposis locus protein 1	-1.95	0.00000	-0.97	0.36	0.14	-0.60	0.12
utu01e09	Embryonic alpha-type globin2+collagen alpha 2(1)	-1.96	0.00001	-0.97	0.39	0.14	-0.58	0.23
EST1-3A_E06	60S ribosomal protein L5-1	-1.96	0.00000	-0.97	0.53	0.14	-0.45	0.10
HK0001_H03	60S ribosomal protein L26	-2.00	0.00001	-1.00	0.50	0.10	-0.49	0.27
utu03e08	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2	-2.01	0.00000	-1.01	0.42	0.10	-0.59	0.08
est01b09	Tolloid-like 2 protein (nephrosin)	-2.05	0.00000	-1.04	0.64	0.08	-0.39	0.23
EXOB2_C03	60S ribosomal protein L10-1	-2.08	0.00000	-1.05	0.60	0.05	-0.46	0.15
utu01g04	Cytochrome oxidase subunit III-2	-2.08	0.00000	-1.06	0.53	0.06	-0.53	0.10
ENH2_E05	40S ribosomal protein S29	-2.08	0.00002	-1.06	0.45	0.19	-0.61	0.30
CA362758	Cyclophilin-2	-2.09	0.00000	-1.06	0.42	0.10	-0.65	0.21
utu01g10	Keratin, type II cytoskeletal 8	-2.09	0.00002	-1.07	0.36	0.30	-0.70	0.16
KVkm2_A09	60S ribosomal protein L35	-2.10	0.00000	-1.07	0.47	0.08	-0.61	0.08
utu01h02	Cytochrome oxidase subunit III-3	-2.11	0.00000	-1.08	0.54	0.17	-0.53	0.06
EXOB2_G02	Profilin-1	-2.12	0.00000	-1.08	0.41	0.25	-0.67	0.10
utu02h11	Ribosomal protein L13	-2.13	0.00000	-1.09	0.50	0.15	-0.59	0.20
est04d09	60S ribosomal protein L37	-2.13	0.00000	-1.09	0.46	0.14	-0.63	0.21
utu01d01	60S acidic ribosomal protein P1	-2.13	0.00000	-1.09	0.48	0.09	-0.61	0.18
HK0001_H06	40S ribosomal protein S7	-2.14	0.00000	-1.10	0.67	0.07	-0.42	0.29
est02g07	Ig mu heavy chain disease protein	-2.14	0.00000	-1.10	0.45	0.06	-0.65	0.24
EXOB3_A08	Ribosomal protein L11	-2.15	0.00000	-1.11	0.50	0.09	-0.61	0.18
CA348284	CCAAT/enhancer binding protein beta	-2.16	0.00000	-1.11	0.46	0.09	-0.65	0.14
est02f05	Cytochrome c oxidase subunit III-4	-2.18	0.00000	-1.12	0.48	0.06	-0.64	0.18

Table 3 cont'd: IHNV 24 hours; Genes were selected for sig diff. At a value of p<0.01, Q values are all 0

EXOB1_C04	40S ribosomal protein S14 (PRO2640)	-2.18	0.00000	-1.13	0.62	0.09	-0.51	0.12
CA367787	Bax inhibitor-1	-2.20	0.00000	-1.14	0.53	0.13	-0.61	0.15
ENH2_H06	Unknown-5	-2.21	0.00000	-1.14	0.46	0.18	-0.69	0.25
est02g11	Cytochrome c oxidase subunit I-1	-2.21	0.00000	-1.15	0.73	0.13	-0.42	0.09
EXOB2_A01	MHC class II invariant chain-like protein 1	-2.22	0.00000	-1.15	0.54	0.07	-0.61	0.15
HK0002_D09	Prothymosin alpha	-2.24	0.00037	-1.16	0.70	0.47	-0.46	0.27
Hete0002_G08	Ribosomal protein L35-3	-2.25	0.00000	-1.17	0.48	0.19	-0.69	0.18
est03g08	Cathepsin Z precursor	-2.25	0.00000	-1.17	0.47	0.12	-0.70	0.16
utu02a12	Brain protein 44-like protein	-2.28	0.00000	-1.19	0.63	0.06	-0.56	0.21
est04c07	Ferritin heavy chain-2	-2.29	0.00000	-1.19	0.48	0.20	-0.71	0.13
EXOB4_A08	Lysozyme g-3	-2.29	0.00000	-1.19	0.72	0.10	-0.48	0.15
EXOB4_H06	Alpha-globin 1-3	-2.30	0.00000	-1.20	0.51	0.15	-0.70	0.16
EXOB2_F12	60S ribosomal protein L7a-1	-2.30	0.00000	-1.20	0.52	0.08	-0.69	0.16
utu04h11	Myosin light chain 2-2	-2.32	0.00000	-1.21	0.75	0.21	-0.46	0.18
EST1-3A_G02	NADH dehydrogenase subunit 2	-2.32	0.00000	-1.22	0.82	0.07	-0.40	0.16
CA370329	Lysozyme C precursor	-2.34	0.00000	-1.23	0.61	0.15	-0.62	0.10
HK0002_F05	Myosin heavy chain, skeletal, fetal	-2.36	0.00021	-1.24	0.84	0.38	-0.39	0.38
utu02b07	Cytochrome c oxidase subunit II	-2.36	0.00000	-1.24	0.67	0.25	-0.57	0.07
EXOB4_F02	Ribosomal protein S12	-2.36	0.00000	-1.24	0.64	0.14	-0.60	0.12
HK0002_B01	60S ribosomal protein L8	-2.41	0.00000	-1.27	0.54	0.19	-0.73	0.21
EXOB1_H06	CC chemokine SCYA110-2	-2.42	0.00000	-1.27	0.66	0.09	-0.62	0.25
Hete0002_A06	40S ribosomal protein S11	-2.44	0.00000	-1.29	0.54	0.12	-0.75	0.20
EXOB2_B10	Hemoglobin beta chain	-2.45	0.00000	-1.29	0.71	0.18	-0.59	0.09
est04c05	Ferritin heavy chain-1	-2.48	0.00000	-1.31	0.54	0.22	-0.77	0.16
EST1-3A_B08	Unknown-67	-2.53	0.00001	-1.34	0.68	0.14	-0.66	0.36
Hete0002_D05	Fatty acid-binding protein-2	-2.56	0.00000	-1.36	0.58	0.10	-0.78	0.24
EST1-3A_E09	Cold inducible RNA binding protein-2	-2.57	0.00000	-1.36	0.74	0.13	-0.62	0.13
EXOB4_C05	Galectin-1	-2.63	0.00000	-1.40	0.78	0.10	-0.61	0.12
est02h09	Nonhistone chromosomal protein HMG-17	-2.64	0.00000	-1.40	0.65	0.05	-0.75	0.12
EXOB4_F11	40S ribosomal protein S20	-2.70	0.00000	-1.43	0.74	0.08	-0.69	0.11
EXOB3_E04	60S ribosomal protein L14	-2.73	0.00000	-1.45	0.82	0.25	-0.63	0.11
est03a08	Cytochrome c-1	-2.84	0.00000	-1.51	0.72	0.19	-0.78	0.22
EXOB3_F09	MHC class I heavy chain-1	-2.87	0.00000	-1.52	1.04	0.25	-0.48	0.25
EXOB3_A09	Hyperosmotic glycine rich protein	-2.90	0.00000	-1.53	0.83	0.13	-0.70	0.17
EXOB2_C05	Histone H2Ax	-2.91	0.00000	-1.54	0.85	0.06	-0.69	0.12
EST1-3A_A09	Serine protease-like protein-2	-2.91	0.00000	-1.54	1.04	0.10	-0.50	0.20
est03c04	Matrix metalloproteinase-9	-2.92	0.00000	-1.55	0.69	0.16	-0.85	0.18
CA365039	CD63	-2.93	0.00000	-1.55	0.67	0.19	-0.88	0.20
EXOB3_A04	Unknown-104	-2.93	0.00000	-1.55	0.81	0.11	-0.74	0.08
HST0001_C04	Hemoglobin alpha chain	-2.93	0.00000	-1.55	0.67	0.13	-0.88	0.19
Hete0002_B08	Eukaryotic translation elongation factor 1 alpha 3	-2.93	0.00000	-1.55	0.57	0.17	-0.98	0.16
EXOB4_C10	Ubiquitin and ribosomal protein S27a-1	-2.94	0.00000	-1.56	1.00	0.09	-0.56	0.18
est03b12	Secretory granule proteoglycan core protein	-2.97	0.00000	-1.57	0.68	0.07	-0.89	0.13
EXOB4_H05	Unknown-133	-3.00	0.00000	-1.58	0.60	0.14	-0.98	0.11
ENH2_F03	Cathepsin K-1	-3.01	0.00000	-1.59	0.68	0.19	-0.91	0.25
utu04g04	Ribosomal protein L36a-like-2	-3.04	0.00000	-1.60	0.66	0.06	-0.94	0.20
est01e10	Tolloid-like protein (nephrosin)-1	-3.11	0.00000	-1.64	0.83	0.10	-0.81	0.14
HST0001_D04	Alpha-globin I-2	-3.11	0.00000	-1.64	0.81	0.17	-0.82	0.14
est04b10	Cytochrome P450 2K4-1	-3.17	0.00000	-1.67	0.86	0.08	-0.80	0.16
utu04g03	Alpha 2 type I collagen-2	-3.20	0.00000	-1.68	0.70	0.15	-0.98	0.11
utu01a03	40S ribosomal protein S3-1	-3.22	0.00000	-1.69	0.87	0.13	-0.82	0.45
HKT0001_H03	Microtubule-associated protein RP/EB	-3.24	0.00000	-1.70	0.85	0.19	-0.85	0.26
utu04g05	40S ribosomal protein S9-3	-3.27	0.00000	-1.71	0.74	0.10	-0.97	0.13
EST1-3A_D03	60S ribosomal protein L23	-3.32	0.00000	-1.73	0.89	0.12	-0.85	0.07
EXOB1_H08	ADP,ATP carrier protein 3	-3.43	0.00000	-1.78	0.84	0.10	-0.94	0.32
EST1-3A_F05	Heat shock 70 kDa protein 1	-3.54	0.00000	-1.83	0.92	0.30	-0.91	0.13
EXOB1_A03	Metallothionein A	-3.55	0.00000	-1.83	1.21	0.20	-0.62	0.38
EXOB2_G09	Cytochrome c oxidase subunit I-2	-3.55	0.00000	-1.83	1.13	0.06	-0.70	0.14
HST0001_C03	Plasminogen precursor-2	-3.56	0.00000	-1.83	0.88	0.10	-0.95	0.19
EXOB3_E01	Na/K ATPase alpha subunit-2	-3.76	0.00000	-1.91	1.05	0.12	-0.86	0.12
HK0001_D01	Ubiquitin	-3.83	0.00000	-1.94	0.88	0.18	-1.06	0.09
HK0002_B07	Heat shock 70kDa protein 8	-4.24	0.00000	-2.08	0.97	0.26	-1.11	0.23
Hete0002_A07	Metallothionein-IL	-4.50	0.00000	-2.17	1.13	0.18	-1.04	0.48
utu02a08	Ubiquitin and ribosomal protein S27a-2	-4.73	0.00000	-2.24	0.99	0.09	-1.25	0.21
est02a11	Ig kappa chain V-IV region B17-2	-4.84	0.00001	-2.28	1.19	0.31	-1.08	0.57
utu02c02	Myosin heavy chain, skeletal, adult 1-1	-4.97	0.00000	-2.31	1.06	0.17	-1.25	0.27
utu04f11	40S ribosomal protein S3-2	-6.00	0.00000	-2.59	1.28	0.24	-1.31	0.20
est03c10	Alanine-glyoxylate aminotransferase 2	-7.41	0.00000	-2.89	1.24	0.15	-1.65	0.14
est01c04	Unknown-11	-8.11	0.00000	-3.02	1.38	0.08	-1.64	0.29
HK0002_D07	Unknown-172	-8.74	0.00000	-3.13	1.42	0.10	-1.70	0.15

Table 4: LPS 72 hours; Genes were selected for sig diff. At a value of p<0.01, Q values are all 0

Clone ID	Match Name	FC	p-value	Diff log2	D Average	D Stdv	R Average	R Stdv
est03d11	Unknown-42	3.81	0.000	1.93	-0.93	0.18	1.00	0.15
est03e02	Hypothetical-fish 15	3.39	0.001	1.76	-1.02	0.30	0.74	0.25
est04e04	MHC class 1b antigen	3.17	0.006	1.67	-0.47	0.36	1.20	0.33
EXOB2_H06	High affinity immunoglobulin epsilon receptor alpha	2.73	0.003	1.45	-0.94	0.27	0.51	0.30
CA387837	Nucleolar protein NAP57	2.27	0.000	1.18	-0.80	0.14	0.39	0.27
EXOB4_C11	High affinity immunoglobulin gamma Fc receptor I precursor	2.15	0.008	1.10	-1.01	0.22	0.10	0.43
ENH2_F09	Beta-2-microglobulin-1	1.99	0.004	1.00	-0.83	0.18	0.17	0.33
EXOB2_A09	60S ribosomal protein L5-2	1.80	0.005	0.85	-0.67	0.16	0.18	0.25
HST0001_C05	Cell division control protein 42 homolog	1.72	0.009	0.79	-0.49	0.17	0.30	0.22
EXOB3_F09	MHC class I heavy chain-1	1.71	0.001	0.77	-0.30	0.11	0.48	0.21
est01g04	5-aminolevulinate synthase	1.58	0.010	0.66	-0.39	0.11	0.27	0.36
CA371001	Very-long-chain acyl-CoA synthetase	1.48	0.004	0.57	-0.37	0.11	0.20	0.14
CA384637	60 kDa heat shock protein-1	1.47	0.006	0.55	-0.51	0.09	0.04	0.29
CA383222	G2/mitotic-specific cyclin B2	1.42	0.005	0.50	-0.46	0.09	0.04	0.14
CA359569	Voltage-dependent anion-selective channel protein 1	1.21	0.004	0.28	-0.36	0.05	-0.08	0.12
utu01g04	Cytochrome oxidase subunit III-2	-1.36	0.002	-0.44	0.21	0.07	-0.23	0.14
est01a03	Unknown-6	-1.57	0.010	-0.65	0.53	0.12	-0.11	0.30
utu01g11	Actin, alpha skeletal 3	-1.64	0.006	-0.71	0.33	0.15	-0.38	0.14
CA371363	Glucose-6-phosphate isomerase-1	-1.68	0.002	-0.75	0.24	0.13	-0.52	0.12
utu03e05	Unknown-258	-1.75	0.004	-0.81	0.28	0.16	-0.53	0.18
CA364941	Annexin A1-1	-1.78	0.005	-0.83	0.59	0.16	-0.24	0.24
EXOB4_D02	Beta actin-2	-1.83	0.005	-0.87	0.55	0.19	-0.33	0.07
EXOB4_D05	Hypothetical-fish 19	-1.86	0.007	-0.90	0.59	0.21	-0.31	0.07
CA353121	GRB2-related adaptor protein 2	-1.89	0.001	-0.92	0.89	0.13	-0.03	0.18
CR_5	14-3-3 E1	-1.90	0.004	-0.93	0.76	0.17	-0.16	0.27
est04c10	Unknown-56	-2.04	0.000	-1.03	0.26	0.09	-0.77	0.24
CA367764	Calmodulin-1	-2.13	0.001	-1.09	0.72	0.18	-0.37	0.16
est03c04	Matrix metalloproteinase-9	-2.21	0.000	-1.14	0.45	0.16	-0.69	0.14
HKT0001_E07	Actin, alpha skeletal 1	-2.28	0.002	-1.19	0.88	0.21	-0.31	0.23
est01f03	Deltex protein 1	-2.37	0.001	-1.24	0.79	0.19	-0.46	0.13
est01e02	Thymosin beta-4-1	-2.73	0.002	-1.45	0.90	0.27	-0.55	0.16
EXOB3_G05	Actin, cytoplasmic 2	-2.78	0.000	-1.47	1.64	0.12	0.17	0.24
EST1-3A_D08	Glyceraldehyde-3-phosphate dehydrogenase-6	-3.14	0.000	-1.65	1.06	0.24	-0.59	0.21
EST1-3A_B03	Hypothetical-fish 44	-3.16	0.007	-1.66	1.07	0.38	-0.59	0.20
CA348284	CCAAT/enhancer binding protein beta	-3.22	0.003	-1.69	0.89	0.31	-0.80	0.34
CA374193	Chemokine receptor CXCR4	-3.71	0.000	-1.89	0.94	0.13	-0.95	0.31
utu04f08	Actin, alpha skeletal 5	-3.81	0.001	-1.93	1.82	0.31	-0.11	0.21
KVkm2_F01	Unknown-224	-4.21	0.000	-2.07	2.20	0.25	0.13	0.34
est01f01	DNA-binding protein inhibitor ID-1	-4.64	0.000	-2.21	0.91	0.13	-1.30	0.30
est02f08	Serine protease-like protein-1	-4.64	0.001	-2.21	1.48	0.33	-0.73	0.22
EST1-3A_A09	Serine protease-like protein-2	-5.52	0.000	-2.46	1.70	0.34	-0.76	0.18
EXOB3_H01	Matrix metalloproteinase-13	-5.88	0.007	-2.56	1.48	0.59	-1.08	0.20
EXOB2_H01	Unknown-100	-12.08	0.000	-3.59	2.08	0.31	-1.52	0.38
est01e10	Tolloid-like protein (nephrosin)-1	-12.97	0.000	-3.70	2.26	0.37	-1.43	0.25
EXOB2_G12	Tolloid-like protein (nephrosin)-2	-13.47	0.000	-3.75	2.15	0.28	-1.60	0.18

Table 5: GFP 72 hours; Genes were selected for sig diff. At a value of p<0.01, Q values are all 0

Clone ID	Match Name	FC	p-value	Diff log2	D Average	D Stdv	R Average	R Stdv
est03e08	Hypothetical-fish 36	3.06	0.00000	1.61	-0.70	0.08	0.92	0.09
CA343473	C3a anaphylatoxin chemotactic receptor	2.98	0.00000	1.58	-0.58	0.09	0.99	0.17
EXOB2_G11	Stanniocalcin-1	2.93	0.00000	1.55	-0.73	0.05	0.82	0.14
EXOB1_B02	Hypothetical-fish 34	2.84	0.00000	1.50	-0.58	0.08	0.92	0.22
KVkm2_H07	Unknown-226	2.77	0.00000	1.47	-0.76	0.12	0.71	0.12
EXOB3_A01	Unknown-103	2.73	0.00000	1.45	-0.68	0.09	0.77	0.08
CA363723	Cyclin C	2.64	0.00000	1.40	-0.83	0.12	0.57	0.07
EXOB4_H01	Unknown-132	2.63	0.00000	1.40	-0.71	0.05	0.69	0.07
est04c02	Unknown-53	2.61	0.00000	1.38	-0.73	0.06	0.65	0.09
HK0002_G04	Fructose-bisphosphate aldolase A	2.45	0.00000	1.29	-0.62	0.10	0.68	0.11
EST1-3A_H03	Unknown-76	2.42	0.00000	1.28	-0.36	0.06	0.91	0.18
CA358107	Ectonucleoside triphosphate diphosphohydrolase 1	2.42	0.00000	1.28	-0.68	0.03	0.60	0.17
CA378361	Ubiquitin ligase SIAH1	2.40	0.00000	1.26	-0.46	0.06	0.80	0.16
HK0001_H12	Unknown-162	2.35	0.00000	1.23	-0.46	0.04	0.77	0.07
CA342204	TNF receptor associated factor 3	2.33	0.00000	1.22	-0.63	0.16	0.59	0.05
EST1-3A_H05	Adenosine deaminase 3	2.31	0.00000	1.21	-0.39	0.06	0.82	0.20
est04f10	Hypothetical-fish 1	2.30	0.00000	1.20	-0.52	0.07	0.69	0.04
KVkm2_H11	Unknown-228	2.30	0.00000	1.20	-0.58	0.09	0.63	0.07
HKT0001_A11	Hypothetical-fish 11	2.28	0.00000	1.19	-0.60	0.09	0.59	0.07
CA355893	DnaJ homolog subfamily B member 2	2.26	0.00000	1.18	-0.61	0.11	0.57	0.08
EXOB4_B09	Macrophage receptor MARCO	2.22	0.00000	1.15	-0.54	0.03	0.61	0.09
est01a07	Unknown-7	2.22	0.00000	1.15	-0.62	0.17	0.53	0.06
est03f04	F-box/WD-repeat protein 11	2.22	0.00000	1.15	-0.51	0.14	0.64	0.07
EXOB4_E09	Hypoxanthine-guanine phosphoribosyltransferase	2.19	0.00000	1.13	-0.54	0.07	0.60	0.09
EST1-3A_G03	Unknown-74	2.18	0.00000	1.12	-0.45	0.06	0.67	0.08
est02b02	PEST-containing nuclear protein	2.16	0.00000	1.11	-0.55	0.09	0.56	0.05
P_19	glucocorticoid receptor (GCR)	2.14	0.00000	1.10	-0.53	0.13	0.57	0.11
CA363978	Inhibitor of kappaB kinase gamma	2.13	0.00000	1.09	-0.72	0.26	0.37	0.09
CA366489	Multidrug resistance protein 3-1	2.13	0.00000	1.09	-0.55	0.08	0.54	0.10
est03c07	Ig kappa chain V-I region WEA	2.07	0.00000	1.05	-0.49	0.08	0.56	0.11
EST1-3A_F09	Unknown-73	2.07	0.00000	1.05	-0.30	0.19	0.75	0.08
EXOB3_A06	Programmed cell death 10	2.07	0.00000	1.05	-0.43	0.07	0.62	0.11
EXOB1_F02	Transcription regulator protein BACH1	2.07	0.00000	1.05	-0.68	0.07	0.36	0.09
EXOB3_H01	Matrix metalloproteinase-13	2.06	0.00000	1.05	-0.64	0.14	0.41	0.06
est01h03	Galectin-3 binding protein	2.06	0.00000	1.05	-0.50	0.18	0.54	0.10
CA378435	Protein phosphatase 2C delta isoform	2.05	0.00000	1.04	-0.54	0.13	0.50	0.07
EXOB1_B03	Unknown-81	2.04	0.00000	1.03	-0.25	0.06	0.78	0.11
HK0002_H10	Unknown-182	1.98	0.00000	0.99	-0.42	0.11	0.57	0.09
HST0001_C03	Plasminogen precursor-2	1.96	0.00000	0.97	-0.50	0.12	0.47	0.08
HKT0001_G11	Nucleoside diphosphate kinase 3	1.95	0.00000	0.97	-0.53	0.10	0.44	0.11
CA368716	Membrane-bound transcription factor site 2 protease	1.95	0.00000	0.96	-0.46	0.07	0.50	0.05
P_7	Peptide methionine sulfoxide reductase	1.93	0.00000	0.95	-0.42	0.14	0.53	0.09
CA351392	Guanine nucleotide exchange factor DBS	1.93	0.00000	0.95	-0.46	0.10	0.49	0.15
CA384029	Chromobox protein homolog 4	1.90	0.00000	0.92	-0.42	0.12	0.51	0.11
P_4	Myeloperoxidase	1.88	0.00000	0.91	-0.42	0.09	0.49	0.12
Hete0002_C06	Hypothetical protein FLJ46057	1.86	0.00000	0.89	-0.39	0.14	0.51	0.11
EXOB3_H07	Hypothetical-fish 6	1.85	0.00000	0.89	-0.47	0.19	0.41	0.08
HST0001_F09	Alpha-1-microglobulin\/bikunin-2	1.83	0.00000	0.87	-0.53	0.04	0.35	0.10
P_3	Epididymal secretory glutathione peroxidase	1.82	0.00000	0.87	-0.44	0.06	0.43	0.13
HK0003_G05	Unknown-201	1.82	0.00000	0.87	-0.29	0.13	0.57	0.11
P_10	Aryl hydrocarbon receptor	1.80	0.00000	0.85	-0.39	0.20	0.46	0.12
KVkm2_A12	Unknown-220	1.79	0.00000	0.84	-0.88	0.06	-0.04	0.07
CA346979	MAPK/ERK kinase kinase 5-1	1.79	0.00000	0.84	-0.32	0.07	0.52	0.07
est03e07	Unknown-43	1.79	0.00000	0.84	-0.60	0.09	0.23	0.11
CA342760	47 kDa heat shock protein-2	1.79	0.00000	0.84	-0.48	0.05	0.36	0.13
EST1-3A_F04	ReO_6-2	1.77	0.00000	0.82	-0.51	0.08	0.31	0.10
CA387146	Mannosidase alpha	1.76	0.00000	0.82	-0.47	0.13	0.35	0.11
CA384555	B-cell-specific coactivator OBF-1	1.76	0.00000	0.81	-0.59	0.10	0.23	0.10
est03a05	Unknown-35	1.76	0.00000	0.81	-0.64	0.16	0.18	0.10
est03f12	Chimeric AFGP/trypsinogen-like serine protease	1.74	0.00000	0.80	-0.49	0.08	0.32	0.07
EXOB3_G01	Unknown-122	1.74	0.00000	0.80	-0.29	0.08	0.51	0.10
CA363762	Cell death activator CIDE-B	1.74	0.00000	0.80	-0.34	0.11	0.46	0.10
CA360187	G2/mitotic-specific cyclin B1	1.72	0.00003	0.78	-0.55	0.24	0.24	0.10
CA357899	Death-associated protein kinase 3	1.71	0.00000	0.78	-0.45	0.05	0.33	0.08
CA352381	Protein kinase C, alpha type	1.71	0.00000	0.77	-0.41	0.04	0.36	0.18
EXOB2_D05	Matrix metalloproteinase 9-2	1.71	0.00000	0.77	-0.60	0.06	0.17	0.06
KVkm2_H06	Hypothetical-fish 22	1.70	0.00000	0.77	-0.44	0.16	0.33	0.07
est01c11	Succinate dehydrogenase [ubiquinone] mitochondrial	1.70	0.00000	0.76	-0.34	0.08	0.42	0.05
est02a06	Axonal transporter of synaptic vesicles	1.69	0.00000	0.76	-0.62	0.10	0.13	0.11
CA357173	Peptidyl-prolyl cis-trans isomerase 2-2	1.68	0.00000	0.75	-0.52	0.05	0.24	0.16
P_2	Catalase	1.68	0.00000	0.75	-0.57	0.11	0.18	0.11
EXOB2_B09	Unknown-94	1.68	0.00000	0.75	-0.33	0.03	0.42	0.14
est03c04	Matrix metalloproteinase-9	1.68	0.00000	0.75	-0.63	0.07	0.11	0.07
EXOB3_F11	Ubiquitin-conjugating enzyme E2-18 kDa	1.68	0.00000	0.75	-0.41	0.09	0.34	0.16
utu02g04	Glycogen phosphorylase-1	1.68	0.00000	0.75	-0.66	0.12	0.09	0.13
EXOB3_A11	Unknown-107	1.68	0.00000	0.75	-0.41	0.09	0.34	0.08
CA382570	Mitogen-activated protein kinase 13	1.67	0.00000	0.74	-0.66	0.04	0.08	0.07
HK0002_H06	Unknown-180	1.67	0.00000	0.74	-0.20	0.10	0.53	0.11
CA359043	NAD-dependent deacetylase sirtuin 5	1.66	0.00000	0.73	-0.30	0.13	0.43	0.11
P_52	C2gamma (AhR gamma)	1.63	0.00000	0.70	-0.54	0.12	0.17	0.08
EXOB1_A10	Unknown-80	1.62	0.00016	0.69	-0.22	0.18	0.47	0.22
HK0001_C08	Galectin-9 (VHSV-induced protein)-3	1.62	0.00000	0.69	-0.36	0.09	0.34	0.16
CA349577	Tyrosine-protein kinase FRK	1.61	0.00000	0.69	-0.42	0.11	0.27	0.13
CA378736	Tyrosine-protein kinase BTK	1.61	0.00000	0.69	-0.39	0.18	0.30	0.07
CA366403	Heat shock 27 kDa protein-1	1.61	0.00000	0.68	-0.37	0.10	0.31	0.08
utu03g11	Hypothetical-fish 12	1.61	0.00000	0.68	-0.57	0.09	0.11	0.05
est04b11	Galectin-9 (VHSV-induced protein)-1	1.59	0.00000	0.67	-0.45	0.08	0.22	0.12
est02g07	Ig mu heavy chain disease protein	1.56	0.00000	0.64	-0.49	0.09	0.14	0.09
CA362833	Heterogenous nuclear ribonucleoprotein U	1.55	0.00000	0.63	-0.52	0.03	0.11	0.06
CA376117	CD231	1.55	0.00000	0.63	-0.36	0.10	0.27	0.08
est02g10	Unknown-31	1.55	0.00001	0.63	-0.49	0.14	0.14	0.13
CA382425	B-cell translocation gene 1-2	1.55	0.00003	0.63	-0.50	0.12	0.13	0.17
CA365208	C-C chemokine receptor type 6	1.54	0.00021	0.63	-0.44	0.21	0.19	0.18
CA348325	BAG-family molecular chaperone regulator-4	1.53	0.00000	0.62	-0.61	0.06	0.01	0.09
Hete0002_B09	Unknown-136	1.53	0.00002	0.62	-0.42	0.19	0.20	0.09
CA381440	Double-stranded RNA-specific adenosine deaminase	1.53	0.00000	0.62	-0.40	0.11	0.22	0.12
est04h08	ADP-ribosylation factor 3	1.53	0.00002	0.61	-0.55	0.17	0.06	0.09
KVkm2_D11	Ubiquinol-cytochrome C reductase complex 11 kDa protein	1.53	0.00001	0.61	-0.22	0.12	0.39	0.15
EXOB4_D12	Hpa repeat-1	1.52	0.00000	0.60	-0.58	0.06	0.02	0.14

Table 5 cont'd: GFP 72 hours; Genes were selected for sig diff. At a value of p<0.01, Q values are all 0

CA342225	CARBONYL reductase	1.51	0.00001	0.60	-0.34	0.15	0.26	0.10
CA359963	Homocysteine-responsive endoplasmic reticulum-resident ubiquitin-like domain member 1 protein	1.51	0.00000	0.59	-0.43	0.09	0.17	0.09
utu02g07	Glycogen phosphorylase-2	1.51	0.00060	0.59	-0.65	0.17	-0.05	0.21
CA384134	G1/S-specific cyclin D2	1.50	0.00003	0.59	-0.30	0.18	0.29	0.09
CA368052	Myosin-like BCL2-interacting protein	1.50	0.00000	0.59	-0.48	0.09	0.10	0.10
utu03e11	Troponin I, slow skeletal muscle	1.50	0.00004	0.58	-0.50	0.18	0.08	0.10
EXOB4_A10	Unknown-126	1.49	0.00001	0.57	-0.05	0.11	0.52	0.10
est03a11	ReO_6-1	1.48	0.00000	0.57	-0.59	0.12	-0.02	0.06
EXOB2_A02	Nucleoside diphosphate kinase, mitochondrial precursor	1.48	0.00000	0.57	-0.37	0.09	0.19	0.10
P_53	Aryl hydrocarbon receptor	1.48	0.00000	0.56	-0.53	0.10	0.03	0.08
CA373506	Selenoprotein P	1.47	0.00013	0.56	-0.36	0.16	0.20	0.12
CA382259	Complement receptor 1-2	1.47	0.00339	0.56	-0.48	0.34	0.09	0.12
EXOB1_G05	Unknown-89	1.47	0.00003	0.56	-0.25	0.15	0.30	0.12
CA361724	Signal transducer and activator of transcription 3	1.47	0.00000	0.55	-0.39	0.09	0.16	0.09
EXOB2_H07	WD-repeat containing protein Ciao 1	1.47	0.00337	0.55	-0.40	0.34	0.15	0.11
EXOB2_H04	Unknown-101	1.46	0.00001	0.55	-0.33	0.12	0.22	0.10
CA357217	Ubiquitin ligase protein CHFR	1.45	0.00003	0.54	-0.61	0.12	-0.07	0.14
CA377838	Mitogen activated protein kinase activated protein kinase-3	1.45	0.00074	0.54	-0.34	0.25	0.20	0.11
CA349597	C-C chemokine receptor type 7 precursor	1.45	0.00022	0.53	-0.41	0.13	0.12	0.19
Hete0002_C07	Unknown-139	1.44	0.00006	0.53	-0.29	0.09	0.24	0.17
CA341859	Nuclear factor kappa-B, subunit 1	1.44	0.00000	0.53	-0.55	0.10	-0.02	0.07
EXOB2_G12	Tolloid-like protein (nephrosin)-2	1.44	0.00009	0.53	-0.25	0.15	0.28	0.15
utu02e02	Tropomyosin alpha 3 chain-2	1.44	0.00001	0.53	-0.43	0.09	0.10	0.12
CA384452	Heat shock protein HSP 90-alpha	1.44	0.00001	0.52	-0.45	0.14	0.07	0.08
est04b04	Cytokeratin 8	1.43	0.00000	0.52	-0.52	0.06	0.00	0.12
CA383564	Coatomer epsilon subunit 1	1.43	0.00001	0.51	-0.44	0.11	0.08	0.10
CA366608	CASP8 and FADD-like apoptosis regulator precursor	1.42	0.00006	0.51	-0.35	0.15	0.15	0.11
CA362691	N-myc downstream regulated protein-1	1.42	0.00010	0.50	-0.35	0.18	0.15	0.09
est03c08	Hypothetical protein DKFZp434I209	1.42	0.00100	0.50	-0.47	0.20	0.03	0.18
CA373850	Signal transducer and activator of transcription 1-alpha/beta	1.41	0.00241	0.50	-0.32	0.26	0.18	0.16
CA382877	Fibronectin receptor beta	1.41	0.00010	0.50	-0.40	0.11	0.10	0.16
est02h12	Unknown-33	1.41	0.00000	0.50	-0.41	0.08	0.09	0.08
EST1-3A_E05	Hpa repeat-2	1.41	0.00000	0.49	-0.42	0.05	0.08	0.06
EXOB3_A03	SEC13-related protein	1.40	0.00001	0.49	-0.12	0.12	0.37	0.10
utu03d06	Retinoic acid receptor responder 3-2	1.40	0.00003	0.49	-0.46	0.12	0.03	0.08
est02b07	Unknown-24	1.40	0.00002	0.49	-0.52	0.12	-0.03	0.10
CA361342	Orphan nuclear receptor NR4A2	1.40	0.00065	0.48	-0.41	0.19	0.07	0.15
CA375569	Serine/threonine-protein kinase Chk1	1.40	0.00001	0.48	-0.29	0.09	0.19	0.10
EXOB1_C12	Hypothetical-fish 31	1.39	0.00014	0.48	-0.41	0.10	0.07	0.17
est01a10	Unknown-9	1.39	0.00083	0.48	-0.26	0.20	0.22	0.15
CA363983	Cell growth regulator with RING finger domain 1	1.39	0.00001	0.48	-0.32	0.04	0.16	0.13
CA358266	T-cell, immune regulator 1, isoform a	1.39	0.00005	0.47	-0.48	0.15	0.00	0.08
utu02d05	Unknown-242	1.39	0.00009	0.47	-0.30	0.11	0.17	0.15
CA371001	Very-long-chain acyl-CoA synthetase	1.39	0.00001	0.47	-0.35	0.07	0.13	0.12
utu03c02	Retinoic acid receptor responder 3-1	1.38	0.00002	0.47	-0.57	0.12	-0.10	0.09
est03g12	Nicotinamide mononucleotide adenylyltransferase 2	1.38	0.00059	0.47	-0.43	0.17	0.03	0.12
EST1-3A_D05	Unknown-70	1.38	0.00040	0.47	-0.50	0.20	-0.03	0.10
CA376709	Protein activator of the interferon-induced protein kinase	1.38	0.00001	0.46	-0.39	0.06	0.07	0.10
EXOB1_D07	Unknown-84	1.38	0.00632	0.46	-0.03	0.22	0.44	0.25
CA368739	BCL2-associated athanogene 1	1.38	0.00003	0.46	-0.19	0.13	0.27	0.09
est01h06	Unknown-21	1.38	0.00067	0.46	-0.35	0.13	0.11	0.17
CA364621	RAC-alpha serine/threonine-protein kinase	1.37	0.00001	0.46	-0.45	0.12	0.01	0.06
CA357413	Amyloid beta A4 protein precursor	1.37	0.00001	0.46	-0.38	0.08	0.08	0.12
CA349350	Serum/glucocorticoid-regulated kinase	1.37	0.00000	0.46	-0.43	0.02	0.03	0.10
HK0003_A01	Unknown-183	1.37	0.00074	0.45	-0.19	0.18	0.27	0.15
CA380121	Telomerase reverse transcriptase	1.36	0.00032	0.44	-0.44	0.11	0.00	0.17
EXOB2_E02	TAF1 RNA polymerase II, TATA box binding protein	1.36	0.00011	0.44	-0.53	0.10	-0.09	0.14
EXOB1_H05	Transposase-6	1.36	0.00002	0.44	-0.81	0.11	-0.37	0.09
est04b01	Similar to rRNA (Vangl2)	1.35	0.00000	0.44	-0.44	0.08	0.00	0.07
CA358548	Polyadenylate-binding protein 4	1.35	0.00008	0.44	-0.29	0.14	0.15	0.10
est04g11	Hypothetical protein FLJ90275	1.35	0.00042	0.44	-0.30	0.15	0.13	0.14
HK0003_C01	Unknown-188	1.35	0.00002	0.43	-0.41	0.10	0.02	0.10
CA387866	Arachidonate 5-lipoxygenase-2	1.34	0.00001	0.43	-0.33	0.07	0.10	0.11
P_8	Glutathione reductase, mitochondrial-1	1.34	0.00307	0.42	-0.15	0.09	0.27	0.25
est01b09	Tolloid-like 2 protein (nephrosin)	1.34	0.00071	0.42	-0.27	0.19	0.15	0.10
EXOB2_H11	Glucose-6-phosphatase	1.34	0.00001	0.42	-0.29	0.08	0.13	0.09
P_9	Glutathione S-transferase P	1.34	0.00011	0.42	-0.20	0.15	0.22	0.07
KVkm2_C04	Unknown-221	1.34	0.00000	0.42	-0.50	0.07	-0.08	0.07
EXOB2_H01	Unknown-100	1.34	0.00000	0.42	-0.15	0.03	0.27	0.05
P_54	VEGF4	1.34	0.00007	0.42	-0.19	0.12	0.23	0.10
utu02e08	Nonhistone chromosomal protein HMG-14-1	1.33	0.00006	0.41	-0.46	0.07	-0.05	0.11
est04g12	Envelope protein	1.33	0.00001	0.41	-0.61	0.08	-0.20	0.09
CA380457	Aminopeptidase N	1.33	0.00002	0.41	-0.50	0.12	-0.09	0.04
CA367029	Rho guanine nucleotide exchange factor 5	1.33	0.00019	0.41	-0.37	0.15	0.04	0.10
CA372588	Inhibitor of apoptosis protein 2	1.32	0.00005	0.41	-0.29	0.10	0.11	0.11
est02a09	Gap junction alpha-3 protein	1.32	0.00303	0.40	-0.26	0.12	0.14	0.17
CA342691	Lanosterol synthase	1.32	0.00010	0.40	-0.32	0.10	0.08	0.12
CA346849	Unc-13 homolog C	1.32	0.00001	0.40	-0.37	0.09	0.03	0.07
EXOB3_E03	Unknown-114	1.32	0.00000	0.40	-0.50	0.05	-0.10	0.09
HK0003_G01	Creatine kinase, M-2	1.32	0.00008	0.40	-0.37	0.11	0.03	0.11
est02f08	Serine protease-like protein-1	1.32	0.00003	0.40	-0.64	0.09	-0.24	0.11
est03b11	Acidic leucine-rich nuclear phosphoprotein 32 A-1	1.32	0.00007	0.40	-0.38	0.12	0.02	0.10
EST1-3A_A09	Serine protease-like protein-2	1.32	0.00004	0.40	-0.34	0.09	0.06	0.11
utu02c08	Tripartite motif protein 25	1.32	0.00006	0.40	-0.40	0.13	0.00	0.08
CA346925	Acidic leucine-rich nuclear phosphoprotein 32 E	1.32	0.00048	0.40	-0.41	0.12	-0.01	0.15
utu03b10	Beta enolase-3	1.32	0.00001	0.40	-0.29	0.04	0.11	0.08
est02f12	Proteasome subunit beta type 9 precursor	1.32	0.00000	0.40	-0.51	0.02	-0.11	0.10
CA353088	Cold-inducible RNA-binding protein-1	1.31	0.00005	0.39	-0.43	0.06	-0.03	0.13
est02a04	Protein-tyrosine phosphatase kappa precursor	1.31	0.00037	0.39	-0.43	0.14	-0.04	0.12
CA388591	Cyclin T2	1.31	0.00449	0.39	-0.39	0.23	0.00	0.12
utu01h05	Troponin T-2, fast skeletal muscle	1.31	0.00108	0.39	-0.36	0.15	0.03	0.15
P_49	HIF	1.31	0.00007	0.39	-0.41	0.13	-0.03	0.06
utu01f12	Troponin T-1, fast skeletal muscle	1.30	0.00000	0.38	-0.53	0.08	-0.15	0.07
Hete0002_E09	Transposase-56	1.30	0.00001	0.38	-0.57	0.11	-0.19	0.03
utu01d08	Bromodomain adjacent to zinc finger domain 2B	1.30	0.00002	0.38	-0.26	0.08	0.11	0.09
HK0002_C04	Apolipoprotein E-2	1.30	0.00001	0.37	-0.12	0.10	0.25	0.05
CA364711	Inhibitor of apoptosis protein 3	1.30	0.00007	0.37	-0.37	0.12	0.01	0.07
EXOB3_H04	Transposase-1	1.29	0.00050	0.37	-0.34	0.10	0.03	0.15
CA344206	A-kinase anchor protein 9	1.29	0.00015	0.37	-0.22	0.09	0.15	0.13

Table 5 cont'd: GFP 72 hours; Genes were selected for sig diff. At a value of p<0.01, Q values are all 0

utu03g08	Unknown-259	1.29	0.00178	0.36	-0.43	0.15	-0.06	0.15
HK0002_B04	Phospholemman precursor	1.29	0.00017	0.36	-0.02	0.13	0.34	0.08
est02c11	Ubiquitin specific proteinase 53	1.28	0.00023	0.36	-0.29	0.12	0.07	0.10
HK0002_D08	Unknown-173	1.28	0.00017	0.36	-0.22	0.15	0.14	0.02
CA364370	Tumor necrosis factor receptor superfamily member 5 precursor	1.28	0.00176	0.36	-0.30	0.10	0.06	0.18
CA344201	Peroxisomal targeting signal 2 receptor	1.28	0.00013	0.36	-0.37	0.11	-0.01	0.09
est02d12	Growth hormone inducible transmembrane-1	1.28	0.00002	0.35	-0.33	0.08	0.02	0.05
est02b09	Unknown-25	1.28	0.00030	0.35	-0.44	0.14	-0.08	0.08
est01g12	Megakaryocyte stimulating factor	1.27	0.00008	0.35	-0.34	0.13	0.01	0.05
CA363480	Aquaporin-CHIP	1.27	0.00716	0.35	-0.21	0.18	0.14	0.18
CA387992	Heparanase	1.27	0.00389	0.35	-0.27	0.18	0.08	0.15
EST1-3A_H08	Sp1 transcriptional activation factor	1.27	0.00019	0.35	-0.28	0.10	0.07	0.11
est04f04	Unknown-60	1.27	0.00665	0.34	-0.31	0.19	0.03	0.16
utu02h03	Proteasome subunit beta type 2	1.26	0.00679	0.34	-0.31	0.14	0.02	0.20
CA377768	Phospholipase D1	1.26	0.00848	0.33	-0.33	0.20	0.00	0.10
EXOB3_F07	Unknown-120	1.25	0.00051	0.33	-0.02	0.11	0.30	0.11
CR_7	14-3-3 G1	1.25	0.00601	0.32	-0.36	0.12	-0.03	0.20
CA342227	Protein tyrosine kinase 2 beta	1.25	0.00143	0.32	-0.26	0.09	0.07	0.16
CA384637	60 kDa heat shock protein-1	1.25	0.00021	0.32	-0.34	0.12	-0.01	0.08
CA387665	Cytochrome P450 2J2	1.25	0.00366	0.32	-0.22	0.14	0.10	0.13
CA354056	Nucleolysin TIA-1	1.25	0.00063	0.32	-0.39	0.13	-0.07	0.10
utu03h09	Unknown-262	1.25	0.00012	0.32	-0.16	0.09	0.16	0.09
CA373382	RING finger protein 4	1.24	0.00473	0.31	-0.27	0.18	0.05	0.11
est04a01	Unknown-50	1.24	0.00004	0.31	-0.28	0.08	0.04	0.08
est02f02	Unknown-28	1.24	0.00063	0.31	-0.32	0.14	0.00	0.08
CA368586	52 kDa repressor of the inhibitor of the protein kinase	1.24	0.00158	0.31	-0.29	0.14	0.03	0.12
est01g08	Unknown-17	1.24	0.00114	0.31	-0.26	0.14	0.05	0.09
EST1-3A_C04	Splicing factor, arginine/serine-rich 8	1.24	0.00028	0.31	-0.15	0.13	0.16	0.05
CA354559	CD2 antigen cytoplasmic tail-binding protein 2	1.24	0.00097	0.31	-0.50	0.06	-0.19	0.15
CA352520	D-type cyclin-interacting protein 1	1.24	0.00029	0.31	-0.23	0.08	0.08	0.11
CA384587	Transcription factor Dp-1	1.24	0.00032	0.31	-0.20	0.03	0.10	0.13
CA366393	Mannan-binding lectin serine protease 2-1	1.23	0.00066	0.30	-0.38	0.09	-0.08	0.12
est03d09	Unknown-40	1.23	0.00178	0.30	-0.31	0.13	-0.01	0.12
EST1-3A_F12	Transposase-59	1.23	0.00029	0.30	-0.23	0.07	0.07	0.11
EXOB1_F10	Suppressor of SWI4 1 homolog	1.23	0.00025	0.30	-0.07	0.06	0.23	0.12
EXOB4_E01	Transposase-58	1.23	0.00036	0.30	-0.23	0.08	0.06	0.12
est02f09	Unknown-30	1.23	0.00001	0.30	-0.56	0.07	-0.27	0.06
CA381625	Zinc finger protein 148	1.22	0.00001	0.29	-0.26	0.04	0.03	0.07
EXOB1_B07	PRPF39 protein	1.22	0.00000	0.29	-0.21	0.03	0.08	0.05
HST0001_G09	Unknown-218	1.22	0.00807	0.29	-0.25	0.15	0.04	0.07
est02d04	ADP-ribosylation factor-like protein 7	1.22	0.00912	0.29	-0.25	0.15	0.04	0.09
EXOB1_A01	Unknown-78	1.22	0.00155	0.29	0.15	0.12	0.44	0.11
CA372345	High density lipoprotein-binding protein	1.22	0.00152	0.29	-0.33	0.13	-0.05	0.10
EXOB4_C02	Unknown-127	1.22	0.00000	0.28	-0.01	0.04	0.27	0.06
EXOB3_D03	Unknown-111	1.22	0.00434	0.28	-0.14	0.16	0.14	0.10
utu03g02	Heat shock cognate 70 kDa	1.21	0.00051	0.28	-0.50	0.07	-0.22	0.11
Hete0002_B07	Unknown-135	1.21	0.00003	0.28	-0.17	0.07	0.11	0.06
CA366462	Apoptosis regulator Bcl-X	1.21	0.00217	0.28	-0.27	0.16	0.01	0.06
CA359487	Protein phosphatase methylesterase 1	1.21	0.00106	0.28	-0.31	0.10	-0.03	0.11
utu03g04	Myosin heavy chain, cardiac muscle beta isoform	1.21	0.00679	0.27	-0.33	0.17	-0.06	0.11
EXOB3_E09	N-myc downstream regulated protein-2	1.21	0.00041	0.27	-0.25	0.07	0.03	0.11
est01h09	Unknown-22	1.21	0.00762	0.27	-0.22	0.16	0.05	0.11
est04e04	MHC class 1b antigen	1.21	0.00282	0.27	-0.40	0.15	-0.13	0.08
ENH2_F09	Beta-2-microglobulin-1	1.21	0.00085	0.27	-0.37	0.13	-0.10	0.05
KVkm2_E07	Unknown-223	1.20	0.00274	0.27	-0.22	0.13	0.05	0.11
utu01a03	40S ribosomal protein S3-1	1.20	0.00107	0.27	-0.31	0.11	-0.04	0.09
CA365040	FKBP12-rapamycin complex-associated protein	1.20	0.00119	0.26	-0.16	0.13	0.11	0.06
CR_10	14-3-3 A1	1.20	0.00103	0.26	-0.21	0.12	0.05	0.06
EXOB3_A12	Unknown-108	1.20	0.00759	0.26	-0.21	0.11	0.05	0.15
CA365230	Peroxisomal acyl-coenzyme A thioester hydrolase 1	1.19	0.00998	0.25	-0.22	0.14	0.03	0.13
CA363848	p53-regulated protein PA26	1.19	0.00001	0.25	-0.30	0.07	-0.05	0.04
EXOB2_H08	Unknown-102	1.19	0.00614	0.25	-0.23	0.09	0.02	0.15
CA363438	Interferon-induced protein 44-3	1.19	0.00602	0.25	-0.10	0.17	0.15	0.05
P_57	RIB700	1.19	0.00100	0.25	-0.35	0.08	-0.11	0.10
CA357820	Calponin 1	1.18	0.00116	0.24	-0.23	0.09	0.02	0.10
utu01f04	Actin, alpha skeletal 2	1.18	0.00047	0.24	-0.42	0.06	-0.18	0.10
CA346488	p53-like transcription factor	1.18	0.00302	0.24	-0.26	0.08	-0.02	0.13
CA385359	Serum amyloid P-component-2	1.18	0.00319	0.24	-0.06	0.13	0.18	0.09
utu04b08	Unknown-264	1.18	0.00385	0.24	-0.13	0.13	0.11	0.08
est03e09	Unknown-44	1.17	0.00541	0.23	-0.14	0.07	0.09	0.13
KVkm2_D03	Nuclear protein 1	1.17	0.00715	0.23	-0.17	0.06	0.06	0.16
utu03a02	Peptidyl-prolyl cis-trans isomerase-7	1.17	0.00122	0.22	-0.15	0.08	0.07	0.10
est04f11	Translocon-associated protein, delta subunit precursor	1.17	0.00206	0.22	-0.18	0.12	0.04	0.06
CA378908	Early growth response protein 2	1.17	0.00578	0.22	-0.10	0.06	0.13	0.13
EXOB3_F12	Unknown-121	1.16	0.00008	0.22	0.04	0.05	0.26	0.07
est03f07	Transposase-4	1.16	0.00354	0.22	-0.44	0.08	-0.22	0.10
CA350930	Aryl sulfotransferase 2	1.16	0.00455	0.21	-0.18	0.09	0.03	0.12
P_22	Glucose transporter type 1	1.16	0.00093	0.21	-0.11	0.08	0.11	0.04
est04f07	Transposase-5	1.16	0.00009	0.21	-0.33	0.05	-0.12	0.06
est03h05	Acidic leucine-rich nuclear phosphoprotein 32 A-2	1.15	0.00628	0.21	-0.34	0.14	-0.13	0.06
EXOB2_G07	Septin 10	1.15	0.00635	0.20	-0.27	0.05	-0.07	0.13
CA344820	Baculoviral IAP repeat-containing protein 2	1.14	0.00818	0.19	-0.24	0.09	-0.05	0.11
utu04h04	Thioredoxin-like protein p19 precursor	1.14	0.00451	0.19	-0.07	0.08	0.12	0.08
utu02d01	Unknown-241	1.14	0.00736	0.18	-0.33	0.11	-0.15	0.07
P_47	cardiac peptide B	1.13	0.00957	0.18	-0.20	0.09	-0.03	0.10
CA361101	Regulator of G-protein signaling 1-2	1.11	0.00227	0.15	-0.25	0.05	-0.09	0.08
utu02c03	Protein phosphatase 2C gamma isoform	1.11	0.00644	0.15	-0.13	0.08	0.02	0.07
EXOB2_D11	E3 ligase for inhibin receptor	1.11	0.00086	0.15	-0.05	0.07	0.10	0.03
utu04c02	Unknown-265	1.11	0.00625	0.15	0.01	0.04	0.16	0.07
EST1-3A_G09	Unknown-75	-1.11	0.00454	-0.15	-0.01	0.07	-0.16	0.07
EST1-3A_F10	14-3-3 B1-like	-1.11	0.00782	-0.15	-0.07	0.10	-0.21	0.04
EXOB3_D02	Eukaryotic translation elongation factor 1 alpha 1	-1.11	0.00297	-0.15	-0.14	0.06	-0.29	0.07
utu03f12	26S proteasome non-ATPase regulatory subunit 14	-1.11	0.00877	-0.15	0.12	0.07	-0.03	0.09
est04f08	Telomerase-binding protein p23-1	-1.12	0.00022	-0.17	0.01	0.06	-0.15	0.04
CA388407	DnaJ homolog subfamily A member 2	-1.13	0.00047	-0.17	0.07	0.07	-0.10	0.04
EXOB1_B08	Unknown-82	-1.13	0.00510	-0.17	0.23	0.08	0.05	0.08
EXOB4_D01	Deoxyribonuclease II-1	-1.13	0.00607	-0.18	0.16	0.10	-0.02	0.08
est01e06	Coronin-1B	-1.14	0.00902	-0.19	-0.10	0.06	-0.29	0.13
HK0002_B09	Transgelin	-1.14	0.00757	-0.19	0.23	0.09	0.04	0.11
EXOB4_E08	Cytochrome c oxidase subunit VIIa-related	-1.14	0.00989	-0.19	0.28	0.10	0.09	0.11

Table 5 cont'd: GFP 72 hours; Genes were selected for sig diff. At a value of p<0.01, Q values are all 0

Hete0002_G07	Hypothetical-fish 40	-1.14	0.00422	-0.19	0.13	0.06	-0.06	0.11
HK0002_A12	NADH-ubiquinone oxidoreductase 15 kDa subunit	-1.14	0.00608	-0.19	0.19	0.09	0.00	0.10
utu04f01	40S ribosomal protein S9-2	-1.14	0.00166	-0.19	-0.01	0.10	-0.20	0.06
CA354833	Anti-silencing function 1B	-1.15	0.00129	-0.20	0.26	0.04	0.06	0.10
HK0001_G12	Quinone oxidoreductase	-1.15	0.00439	-0.20	0.21	0.10	0.01	0.06
est01g04	5-aminolevulinate synthase	-1.15	0.00287	-0.21	0.01	0.09	-0.19	0.09
EXOB2_B04	Syntenin 1	-1.16	0.00079	-0.21	0.22	0.04	0.01	0.10
est04h11	Iodotyrosine dehalogenase protein	-1.16	0.00128	-0.21	0.14	0.10	-0.07	0.05
utu04c11	Collagen alpha 1(I) chain-2	-1.16	0.00736	-0.21	0.15	0.13	-0.06	0.08
EXOB2_E07	Serine protease EOS	-1.16	0.00564	-0.21	0.21	0.09	-0.01	0.10
EXOB2_C02	Hypothetical-fish 35	-1.16	0.00222	-0.22	0.29	0.06	0.08	0.11
HK0003_H04	NADH-ubiquinone oxidoreductase 19 kDa subunit	-1.16	0.00837	-0.22	0.23	0.14	0.01	0.08
EST1-3A_C11	Cdk inhibitor p21 binding protein	-1.16	0.00375	-0.22	0.16	0.08	-0.06	0.12
HKT0001_B03	Alpha 2 type I collagen-1	-1.17	0.00422	-0.22	0.07	0.12	-0.15	0.09
HK0003_C03	Unknown-189	-1.17	0.00022	-0.23	0.27	0.08	0.04	0.06
HK0001_H08	Gastrointestinal glutathione peroxidase 2	-1.17	0.00260	-0.23	0.29	0.07	0.06	0.06
HST0001_C05	Cell division control protein 42 homolog	-1.18	0.00038	-0.24	0.06	0.10	-0.18	0.06
KVkm2_A01	Unknown-219	-1.18	0.00528	-0.24	0.05	0.14	-0.20	0.10
CA366564	Huntingtin	-1.19	0.00151	-0.24	0.21	0.10	-0.03	0.09
EXOB3_G05	Actin, cytoplasmic 2	-1.19	0.00023	-0.25	0.30	0.09	0.05	0.06
EXOB3_G02	Organic anion transporter	-1.19	0.00079	-0.25	0.35	0.08	0.10	0.10
utu03c09	40S ribosomal protein S5	-1.19	0.00797	-0.25	0.20	0.15	-0.06	0.09
est02c06	Heat shock protein 75 kDa-2	-1.19	0.00198	-0.25	0.24	0.10	-0.01	0.11
est03d06	Eukaryotic translation initiation factor 2 subunit 2	-1.19	0.00532	-0.26	0.29	0.18	0.03	0.03
utu04e07	60S ribosomal protein L39	-1.20	0.00023	-0.26	0.24	0.09	-0.02	0.07
CA381244	Peptidyl-prolyl cis-trans isomerase H	-1.20	0.00047	-0.26	0.23	0.06	-0.03	0.11
EXOB1_H09	ATP synthase beta chain-1	-1.20	0.00062	-0.26	0.15	0.08	-0.11	0.10
HK0003_H02	Cathepsin L2	-1.20	0.00112	-0.26	0.21	0.10	-0.05	0.10
EXOB2_B12	RING finger protein 103	-1.20	0.00895	-0.26	0.17	0.19	-0.09	0.05
HK0003_E07	Myosin light chain 2-1	-1.20	0.00026	-0.26	0.25	0.02	-0.01	0.10
utu02g02	40S ribosomal protein S21	-1.20	0.00171	-0.27	0.18	0.13	-0.09	0.09
KVkm2_G09	Guanine nucleotide-binding protein beta subunit 2-like 1	-1.20	0.00289	-0.27	0.06	0.13	-0.21	0.08
HK0003_C08	Parvalbumin alpha-2	-1.21	0.00002	-0.27	0.31	0.05	0.04	0.07
HK0002_F05	Myosin heavy chain, skeletal, fetal	-1.21	0.00310	-0.27	0.16	0.06	-0.11	0.16
EST1-3A_F01	Ependymin I	-1.21	0.00383	-0.27	0.29	0.10	0.02	0.15
HK0001_A11	Fumarate hydratase, mitochondrial precursor	-1.21	0.00522	-0.27	0.29	0.09	0.01	0.17
utu04e11	Hyaluronan and proteoglycan link protein 2 precursor	-1.21	0.00035	-0.28	0.27	0.10	-0.01	0.08
EXOB2_E01	Heterogeneous nuclear ribonucleoprotein A1-2	-1.22	0.00010	-0.28	0.17	0.08	-0.11	0.08
HK0001_D01	Ubiquitin	-1.22	0.00001	-0.28	0.27	0.04	-0.01	0.07
HK0003_F09	Unknown-199	-1.22	0.00015	-0.29	0.29	0.08	0.01	0.09
ENH2_F03	Cathepsin K-1	-1.22	0.00232	-0.29	0.21	0.14	-0.07	0.10
HK0003_C10	Over-expressed breast tumor protein-like	-1.22	0.00017	-0.29	0.31	0.05	0.02	0.11
HK0002_H08	TATA-binding protein associated factor 2N	-1.22	0.00832	-0.29	0.34	0.19	0.06	0.09
CA373890	Heat shock protein HSP 90-beta-1	-1.22	0.00123	-0.29	0.04	0.14	-0.25	0.08
HK0003_C12	Unknown-191	-1.22	0.00433	-0.29	0.21	0.17	-0.08	0.10
EXOB3_H02	Unknown-123	-1.22	0.00000	-0.29	0.33	0.05	0.04	0.06
EXOB2_D07	Ependymin related protein-1	-1.23	0.00245	-0.29	0.31	0.15	0.02	0.10
CA365039	CD63	-1.23	0.00057	-0.29	0.16	0.11	-0.13	0.09
utu01b01	Unknown-230	-1.23	0.00322	-0.29	0.25	0.13	-0.05	0.13
utu03f06	Chromosome segregation 1-like protein	-1.23	0.00915	-0.30	0.11	0.19	-0.18	0.13
EXOB4_D05	Hypothetical-fish 19	-1.23	0.00024	-0.30	0.21	0.10	-0.09	0.08
EXOB2_C10	Red cell acid phosphatase 1	-1.23	0.00214	-0.30	0.36	0.09	0.06	0.13
EXOB3_D06	Unknown-112	-1.23	0.00127	-0.30	0.41	0.13	0.11	0.11
HK0003_F05	28S ribosomal protein S16, mitochondrial precursor	-1.23	0.00022	-0.30	0.28	0.08	-0.02	0.08
EXOB4_A03	Carbonic anhydrase	-1.24	0.00344	-0.31	0.27	0.15	-0.03	0.12
HK0003_B05	FLJ14655	-1.24	0.00031	-0.31	0.33	0.12	0.03	0.06
CA351800	Superoxide dismutase [Cu-Zn]	-1.24	0.00033	-0.31	0.13	0.10	-0.18	0.10
EXOB2_F03	Nuclear cap binding protein subunit 2	-1.24	0.00002	-0.31	0.24	0.07	-0.07	0.07
EXOB4_H05	Unknown-133	-1.24	0.00071	-0.31	-0.07	0.10	-0.37	0.12
HK0003_F10	Unknown-200	-1.24	0.00008	-0.31	0.24	0.10	-0.07	0.07
HK0002_F03	Unknown-176	-1.24	0.00154	-0.31	0.38	0.15	0.07	0.10
EXOB2_D09	GWSC6486	-1.24	0.00021	-0.31	0.31	0.08	0.00	0.11
HK0003_D10	Hypothetical-fish 9	-1.24	0.00137	-0.31	0.26	0.16	-0.06	0.07
est02b08	Peroxiredoxin 1-2	-1.25	0.00031	-0.32	0.14	0.09	-0.17	0.11
utu01g11	Actin, alpha skeletal 3	-1.25	0.00000	-0.32	0.18	0.03	-0.14	0.06
utu04d03	Fish-egg lectin	-1.25	0.00123	-0.32	0.26	0.14	-0.06	0.10
EXOB4_A01	Cytoplasmic dynein light chain	-1.25	0.00031	-0.32	0.25	0.10	-0.08	0.11
EXOB4_H07	Beta-galactosidase-related protein	-1.25	0.00007	-0.32	0.24	0.08	-0.08	0.09
CA381566	Programmed cell death protein 6	-1.25	0.00102	-0.32	0.20	0.09	-0.12	0.15
Hete0002_A06	40S ribosomal protein S11	-1.25	0.00001	-0.32	0.20	0.06	-0.13	0.07
HK0001_F01	Complement factor H-1	-1.25	0.00062	-0.32	0.41	0.11	0.08	0.12
HK0003_E08	Unknown-194	-1.25	0.00115	-0.33	0.29	0.14	-0.04	0.11
utu01c08	Unknown-233	-1.25	0.00351	-0.33	0.32	0.16	0.00	0.14
est04a04	Midkine precursor	-1.26	0.00006	-0.33	0.08	0.11	-0.25	0.06
HK0003_C05	Unknown-190	-1.26	0.00161	-0.33	0.25	0.18	-0.08	0.06
utu02a12	Brain protein 44-like protein	-1.26	0.00054	-0.33	0.25	0.14	-0.08	0.09
EXOB3_F08	60S ribosomal protein L10-1	-1.26	0.00001	-0.33	0.32	0.09	-0.01	0.06
EXOB2_E04	Unknown-97	-1.26	0.00019	-0.34	0.25	0.10	-0.09	0.10
utu01d06	Deoxyribonuclease gamma precursor	-1.26	0.00666	-0.34	0.28	0.12	-0.05	0.19
EXOB4_H08	Alanine-glyoxylate aminotransferase 1	-1.26	0.00301	-0.34	0.20	0.17	-0.14	0.13
HK0003_B08	Unknown-186	-1.26	0.00171	-0.34	0.25	0.10	-0.08	0.17
EXOB2_C12	BCL2/adenovirus E1B protein-interacting protein 3 like	-1.26	0.00163	-0.34	0.31	0.10	-0.03	0.16
utu03h02	6-phosphofructokinase	-1.26	0.00027	-0.34	0.11	0.06	-0.22	0.14
EXOB3_E01	Na/K ATPase alpha subunit-2	-1.26	0.00065	-0.34	0.43	0.11	0.09	0.13
HK0001_E07	Unknown-155	-1.26	0.00608	-0.34	0.28	0.22	-0.06	0.10
ENH2_B05	60S ribosomal protein L13a-acute pahse protein	-1.27	0.00338	-0.34	0.23	0.18	-0.11	0.06
HK0001_F04	Elongation factor 1-beta (EF-1-beta)	-1.27	0.00186	-0.34	0.30	0.07	-0.04	0.04
EXOB2_H02	Serine/arginine repetitive matrix 1	-1.27	0.00028	-0.34	0.27	0.10	-0.07	0.11
EXOB4_D09	Hypothetical-fish 7	-1.27	0.00505	-0.34	0.35	0.11	0.01	0.18
utu04f11	40S ribosomal protein S3-2	-1.27	0.00282	-0.34	0.33	0.16	-0.01	0.14
EXOB3_G08	Fatty acid-binding protein-1	-1.27	0.00221	-0.35	0.39	0.13	0.05	0.17
HK0001_F09	Unknown-157	-1.27	0.00817	-0.35	0.23	0.14	-0.12	0.22
EXOB4_G10	Keratin, type I cytoskeletal 9	-1.28	0.00005	-0.35	0.15	0.11	-0.21	0.06
HK0001_H01	Acyl-Coenzyme A dehydrogenase, long chain,	-1.28	0.00632	-0.36	0.38	0.20	0.02	0.15
EXOB4_F03	Cathepsin S	-1.28	0.00077	-0.36	0.05	0.16	-0.31	0.09
HK0001_E11	Hypothetical-fish 43	-1.28	0.00784	-0.36	0.26	0.18	-0.10	0.09
CA364424	Cyclophilin-40	-1.28	0.00040	-0.36	0.23	0.14	-0.13	0.10
ENH2_E05	40S ribosomal protein S29	-1.28	0.00186	-0.36	0.23	0.15	-0.13	0.15
HK0002_E09	Unknown-174	-1.28	0.00032	-0.36	0.38	0.09	0.01	0.14
EXOB1_F08	Unknown-88	-1.29	0.00475	-0.36	0.35	0.21	-0.01	0.12

Table 5 cont'd: GFP 72 hours; Genes were selected for sig diff. At a value of p<0.01, Q values are all 0

utu01c03	Unknown-232	-1.29	0.00013	-0.37	0.28	0.11	-0.08	0.10
EXOB2_F08	CDC10 protein homolog	-1.29	0.00010	-0.37	0.21	0.04	-0.16	0.14
CA367764	Calmodulin-1	-1.29	0.00003	-0.37	0.19	0.12	-0.18	0.03
utu01b08	Unknown-231	-1.29	0.00026	-0.37	0.22	0.14	-0.15	0.08
HK0001_D05	Ubiquitin-like protein SMT3A-2	-1.29	0.00008	-0.37	0.36	0.12	-0.02	0.07
utu03e08	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2	-1.30	0.00000	-0.37	0.21	0.07	-0.16	0.06
HK0002_G06	Unknown-177	-1.30	0.00155	-0.37	0.28	0.19	-0.09	0.10
EXOB3_F05	Proteasome subunit alpha type 7-1	-1.30	0.00311	-0.38	0.30	0.19	-0.08	0.14
EXOB2_C01	Cofilin, muscle isoform	-1.30	0.00126	-0.38	0.28	0.07	-0.10	0.20
EXOB3_D10	Na/K ATPase alpha subunit-1	-1.30	0.00430	-0.38	0.61	0.21	0.23	0.15
HK0001_A02	Heterogeneous nuclear ribonucleoprotein L	-1.30	0.00269	-0.38	0.29	0.19	-0.09	0.14
EXOB4_E11	Annexin IV	-1.30	0.00061	-0.38	0.34	0.16	-0.04	0.10
ENH2_B08	Splicing factor, arginine/serine-rich 3	-1.30	0.00868	-0.38	0.12	0.23	-0.26	0.18
utu01d11	Unknown-237	-1.31	0.00004	-0.39	0.24	0.08	-0.15	0.11
CA362758	Cyclophilin-2	-1.31	0.00005	-0.39	0.21	0.10	-0.18	0.10
utu03e05	Unknown-258	-1.32	0.00362	-0.40	0.13	0.22	-0.26	0.14
est01e02	Thymosin beta-4-1	-1.32	0.00001	-0.40	-0.10	0.08	-0.50	0.09
F_126	DNA fragmentation factor 40 kDa subunit	-1.32	0.00006	-0.40	0.21	0.14	-0.19	0.06
CA374698	High-glucose-regulated protein 8	-1.32	0.00442	-0.40	0.22	0.15	-0.18	0.23
EST1-3A_B08	Unknown-67	-1.33	0.00002	-0.41	0.26	0.08	-0.14	0.10
EXOB3_E10	Unknown-117	-1.33	0.00002	-0.41	0.58	0.05	0.17	0.12
HK0001_A03	Unknown-145	-1.33	0.00102	-0.41	0.39	0.12	-0.02	0.17
utu04g06	Unknown-270	-1.33	0.00006	-0.41	0.37	0.08	-0.04	0.13
HK0002_E04	39S ribosomal protein L45, mitochondrial precursor	-1.33	0.00059	-0.41	0.31	0.09	-0.10	0.18
HK0003_F07	Unknown-198	-1.34	0.00000	-0.42	0.43	0.03	0.01	0.10
ENH2_D07	Ribosomal protein L35-2	-1.34	0.00068	-0.42	0.29	0.04	-0.13	0.21
CR_1	14-3-3 B1	-1.34	0.00001	-0.42	0.18	0.09	-0.24	0.08
HK0003_C07	Heterogeneous nuclear ribonucleoprotein A0	-1.35	0.00170	-0.43	0.27	0.19	-0.16	0.16
EXOB4_F05	Rab GDP dissociation inhibitor beta	-1.35	0.00055	-0.43	0.27	0.16	-0.16	0.14
est02f04	Tubulin alpha-3 chain	-1.35	0.00000	-0.43	0.10	0.06	-0.33	0.10
utu01d02	Unknown-235	-1.35	0.00529	-0.43	0.12	0.25	-0.31	0.16
HK0002_H11	Creatine kinase, B chain	-1.35	0.00001	-0.43	0.31	0.06	-0.12	0.11
EXOB2_H06	High affinity immunoglobulin epsilon receptor alpha	-1.35	0.00012	-0.44	0.02	0.12	-0.42	0.13
HK0003_D06	Mitochondrial ribosomal protein L1	-1.35	0.00004	-0.44	0.32	0.10	-0.12	0.11
HK0001_A04	MIR-interacting saposin-like protein precursor	-1.36	0.00025	-0.44	0.32	0.12	-0.12	0.15
HK0003_D02	Unknown-192	-1.36	0.00002	-0.44	0.35	0.10	-0.09	0.10
utu01f03	Unknown-238	-1.36	0.00000	-0.44	0.30	0.06	-0.14	0.09
ENH2_A03	60S ribosomal protein L15	-1.37	0.00001	-0.45	0.33	0.09	-0.12	0.10
Hete0002_G08	Ribosomal protein L35-3	-1.37	0.00008	-0.46	0.29	0.15	-0.17	0.10
utu01b12	40S ribosomal protein S9-1	-1.37	0.00023	-0.46	0.31	0.13	-0.15	0.15
EXOB3_E07	F-actin capping protein alpha-1 subunit	-1.37	0.00013	-0.46	0.41	0.10	-0.05	0.16
utu04d10	Unknown-268	-1.38	0.00000	-0.46	0.30	0.06	-0.16	0.06
EXOB3_G04	Tyrosine-protein kinase HCK	-1.38	0.00009	-0.46	0.29	0.15	-0.18	0.10
utu01e12	Zinc finger protein 228	-1.38	0.00000	-0.46	0.36	0.08	-0.10	0.09
EXOB3_A04	Unknown-104	-1.38	0.00000	-0.47	0.44	0.07	-0.03	0.08
HK0003_B03	Cytochrome c-2	-1.39	0.00000	-0.47	0.40	0.03	-0.07	0.08
est03a01	Methyl-CpG binding protein 3b	-1.39	0.00033	-0.47	0.16	0.13	-0.31	0.18
HK0002_G10	T-cell receptor alpha chain V region HPB-MLT precursor (Fragment)	-1.39	0.00003	-0.48	0.38	0.11	-0.10	0.12
utu01h01	Unknown-239	-1.40	0.00028	-0.48	0.43	0.14	-0.06	0.17
utu01e09	Embryonic alpha-type globin2+collagen alpha 2(1)	-1.41	0.00005	-0.49	0.27	0.14	-0.22	0.11
EXOB1_B04	Beta actin-1	-1.41	0.00014	-0.49	0.64	0.16	0.15	0.12
EXOB2_D01	Proteasome subunit alpha type 3	-1.41	0.00012	-0.49	0.46	0.14	-0.03	0.14
est04e05	Glutathione peroxidase-gastrointestinal	-1.41	0.00003	-0.49	0.10	0.14	-0.39	0.10
HK0003_C02	Collagen alpha 1(I) chain-1	-1.41	0.00000	-0.50	0.43	0.10	-0.07	0.07
HK0002_H04	Unknown-179	-1.41	0.00022	-0.50	0.33	0.13	-0.16	0.17
KVkm2_A09	60S ribosomal protein L35	-1.41	0.00000	-0.50	0.36	0.05	-0.14	0.11
CA361443	Nucleolysin TIAR	-1.41	0.00000	-0.50	0.43	0.09	-0.07	0.10
EXOB3_C12	NADH-ubiquinone oxidoreductase 20 kDa subunit, mitochondrial precursor	-1.42	0.00000	-0.50	0.56	0.08	0.05	0.09
EXOB3_H08	Unknown-124	-1.42	0.00037	-0.50	0.53	0.22	0.03	0.09
est03c10	Alanine-glyoxylate aminotransferase 2	-1.42	0.00010	-0.51	0.39	0.15	-0.12	0.10
EXOB1_D11	Dynein light chain 2, cytoplasmic	-1.42	0.00001	-0.51	0.50	0.12	-0.01	0.08
HK0002_A01	Unknown-163	-1.43	0.00001	-0.51	0.40	0.13	-0.12	0.09
EXOB2_A09	60S ribosomal protein L5-2	-1.43	0.00000	-0.51	0.50	0.08	-0.02	0.09
EXOB1_E03	Eukaryotic translation initiation factor 3 subunit 5	-1.43	0.00003	-0.52	0.39	0.11	-0.13	0.14
EXOB2_D04	Xaa-Pro dipeptidase	-1.43	0.00280	-0.52	0.41	0.23	-0.11	0.23
EXOB1_C10	Cytochrome P450 2K4-2	-1.44	0.00000	-0.52	0.51	0.09	-0.01	0.06
HK0003_A10	Unknown-184	-1.44	0.00002	-0.52	0.43	0.09	-0.10	0.14
HK0002_B01	60S ribosomal protein L8	-1.45	0.00001	-0.53	0.27	0.14	-0.26	0.07
utu02a10	Glyceraldehyde-3-phosphate dehydrogenase-3	-1.45	0.00000	-0.54	0.31	0.07	-0.23	0.08
EST1-3A_E06	60S ribosomal protein L5-1	-1.45	0.00004	-0.54	0.71	0.08	0.17	0.17
EXOB2_B05	Hypothetical-fish 27	-1.46	0.00008	-0.54	0.42	0.12	-0.13	0.17
CA364941	Annexin A1-1	-1.46	0.00001	-0.55	0.29	0.10	-0.26	0.14
EXOB2_F01	Proteasome subunit alpha type 6	-1.47	0.00002	-0.55	0.46	0.16	-0.09	0.07
EXOB3_B02	Hyperosmotic protein 21	-1.47	0.00010	-0.55	0.63	0.17	0.07	0.14
KVkm2_D08	60S ribosomal protein L18a	-1.47	0.00001	-0.56	0.36	0.06	-0.20	0.15
HK0003_A04	Eukaryotic translation initiation factor 3 subunit 6-2	-1.47	0.00000	-0.56	0.47	0.03	-0.09	0.10
EXOB2_B01	Nuclease sensitive element binding protein 1-1	-1.48	0.00000	-0.56	0.41	0.07	-0.15	0.11
HK0003_F03	Unknown-196	-1.48	0.00001	-0.56	0.38	0.17	-0.18	0.04
EXOB3_E11	Unknown-118	-1.48	0.00001	-0.57	0.75	0.06	0.18	0.15
EXOB4_A07	T-complex protein 1, gamma subunit	-1.49	0.00000	-0.57	0.47	0.09	-0.10	0.08
utu01a06	Unknown-229	-1.49	0.00008	-0.57	0.42	0.21	-0.15	0.08
EXOB2_A04	Hypothetical-fish 4	-1.49	0.00000	-0.57	0.49	0.12	-0.08	0.10
EXOB4_A08	Lysozyme g-3	-1.50	0.00000	-0.58	0.52	0.10	-0.06	0.12
EXOB3_B12	Unknown-109	-1.50	0.00002	-0.58	0.42	0.12	-0.16	0.15
EXOB1_A03	Metallothionein A	-1.50	0.00001	-0.59	0.71	0.10	0.13	0.15
EXOB4_B11	40S ribosomal protein S30	-1.50	0.00001	-0.59	0.67	0.10	0.09	0.14
EXOB1_C06	Nucleolar protein Nop56-1	-1.51	0.00000	-0.59	0.57	0.06	-0.02	0.12
EXOB2_D06	NADH dehydrogenase subunit 5-1	-1.51	0.00000	-0.59	0.21	0.07	-0.38	0.06
CA358998	Cysteine-rich protein 1	-1.51	0.00005	-0.59	0.36	0.12	-0.23	0.18
EST1-3A_G02	NADH dehydrogenase subunit 2	-1.51	0.00000	-0.59	0.61	0.09	0.02	0.13
EXOB3_G06	40S ribosomal protein S15-1	-1.51	0.00013	-0.59	0.69	0.14	0.10	0.20
ENH2_B12	Ribosomal protein L35-1	-1.51	0.00000	-0.59	0.48	0.08	-0.12	0.11
EXOB2_A10	Unknown-92	-1.51	0.00001	-0.59	0.55	0.12	-0.04	0.13
HK0002_G02	Creatine kinase, sarcomeric mitochondrial precursor	-1.54	0.00000	-0.62	0.39	0.10	-0.24	0.12
HK0002_G11	Myristoylated alanine-rich protein kinase C substrate	-1.54	0.00000	-0.62	0.49	0.07	-0.13	0.11
CA344428	Glutathione peroxidase 4	-1.55	0.00005	-0.63	0.35	0.17	-0.28	0.15
est04d09	60S ribosomal protein L37	-1.56	0.00000	-0.64	0.42	0.10	-0.22	0.12
EXOB1_C04	40S ribosomal protein S14 (PRO2640)	-1.56	0.00000	-0.64	0.61	0.08	-0.03	0.11
EST1-3A_F08	Heat shock protein HSP 90-beta-2	-1.56	0.00001	-0.64	0.39	0.17	-0.25	0.08
EXOB3_B01	Cathepsin C-3	-1.57	0.00000	-0.65	0.61	0.11	-0.04	0.11

Table 5 cont'd: GFP 72 hours; Genes were selected for sig diff. At a value of p<0.01, Q values are all 0

utu01c12	Heat shock cognate 71 kDa protein	-1.57	0.00000	-0.65	0.46	0.04	-0.19	0.10
KVkm2_F06	60S ribosomal protein L32-1	-1.57	0.00000	-0.65	0.27	0.10	-0.38	0.12
utu04g03	Alpha 2 type I collagen-2	-1.58	0.00000	-0.66	0.48	0.06	-0.19	0.09
Hete0002_D05	Fatty acid-binding protein-2	-1.61	0.00010	-0.68	0.37	0.17	-0.31	0.21
EXOB1_G12	Thioredoxin	-1.61	0.00001	-0.69	0.50	0.08	-0.19	0.15
ENH2_E07	Unknown-3	-1.62	0.00004	-0.70	0.38	0.18	-0.31	0.13
CA383222	G2/mitotic-specific cyclin B2	-1.63	0.00000	-0.70	0.49	0.05	-0.22	0.10
EXOB3_A08	Ribosomal protein L11	-1.63	0.00000	-0.70	0.54	0.12	-0.16	0.10
EXOB1_A06	ADP,ATP carrier protein T2	-1.64	0.00000	-0.71	0.50	0.11	-0.21	0.14
KVkm2_G01	60S ribosomal protein L32-2	-1.64	0.00047	-0.71	0.33	0.33	-0.38	0.09
HK0002_B02	60S ribosomal protein L35a-2	-1.65	0.00000	-0.72	0.69	0.09	-0.04	0.08
EXOB2_C04	Transposase-60	-1.66	0.00000	-0.73	0.60	0.08	-0.13	0.17
EXOB4_D02	Beta actin-2	-1.67	0.00000	-0.74	0.48	0.07	-0.26	0.11
EXOB1_C08	Eukaryotic initiation factor 4A-I	-1.67	0.00000	-0.74	0.61	0.07	-0.13	0.11
EST1-3A_E09	Cold inducible RNA binding protein-2	-1.67	0.00000	-0.74	0.66	0.11	-0.08	0.13
CA364325	Peroxiredoxin 6	-1.67	0.00000	-0.74	0.58	0.09	-0.16	0.11
utu01d07	Unknown-236	-1.68	0.00000	-0.75	0.54	0.08	-0.21	0.07
HK0002_D09	Prothymosin alpha	-1.70	0.00000	-0.76	0.54	0.12	-0.22	0.10
HKT0001_H06	60S ribosomal protein L18	-1.72	0.00000	-0.78	0.51	0.17	-0.27	0.08
EXOB4_C11	High affinity immunoglobulin gamma Fc receptor I precursor	-1.73	0.00000	-0.79	0.44	0.15	-0.35	0.16
est04b10	Cytochrome P450 2K4-1	-1.73	0.00001	-0.79	0.45	0.19	-0.35	0.12
EXOB4_A11	Tubulin alpha-ubiquitous chain	-1.73	0.00003	-0.79	0.67	0.15	-0.12	0.18
EST1-3A_F05	Heat shock 70 kDa protein 1	-1.74	0.00001	-0.80	0.67	0.18	-0.13	0.14
utu02h04	40S ribosomal protein S6	-1.75	0.00001	-0.80	0.55	0.21	-0.26	0.10
EXOB4_C05	Galectin-1	-1.76	0.00001	-0.82	0.53	0.19	-0.28	0.17
EST1-3A_D03	60S ribosomal protein L23	-1.77	0.00000	-0.82	0.73	0.11	-0.09	0.11
KVkm2_G04	60S ribosomal protein L32-3	-1.78	0.00001	-0.83	0.39	0.17	-0.44	0.13
EXOB3_A09	Hyperosmotic glycine rich protein	-1.79	0.00000	-0.84	0.60	0.06	-0.24	0.12
EXOB1_H08	ADP,ATP carrier protein 3	-1.79	0.00000	-0.84	0.46	0.11	-0.38	0.08
HK0002_C07	60S ribosomal protein L17	-1.79	0.00000	-0.84	0.64	0.07	-0.20	0.03
HST0001_C04	Hemoglobin alpha chain	-1.82	0.00000	-0.87	0.55	0.08	-0.31	0.09
EXOB2_C03	60S ribosomal protein L10-1	-1.82	0.00005	-0.87	0.85	0.27	-0.02	0.17
HK0002_F06	Histone 3A-ATP synthase F0 6	-1.83	0.00000	-0.87	0.55	0.05	-0.32	0.09
est03b12	Secretory granule proteoglycan core protein	-1.83	0.00000	-0.87	0.47	0.10	-0.41	0.07
EXOB3_H12	Unknown-125	-1.83	0.00000	-0.87	0.74	0.20	-0.13	0.12
utu04c03	60S ribosomal protein L4	-1.84	0.00000	-0.88	0.48	0.06	-0.40	0.09
utu03b02	Ribosomal protein L6-2	-1.84	0.00000	-0.88	0.65	0.08	-0.23	0.08
Hete0002_G11	Hypothetical-fish 23	-1.85	0.00000	-0.88	0.54	0.17	-0.34	0.08
HKT0001_H07	60S ribosomal protein L37a	-1.85	0.00000	-0.89	0.78	0.13	-0.10	0.09
HK0003_A03	Thymosin beta-4-2	-1.86	0.00000	-0.89	0.33	0.06	-0.56	0.04
EXOB4_B03	Ribosomal protein L36a-like-1	-1.86	0.00000	-0.89	0.87	0.09	-0.02	0.13
HK0001_H06	40S ribosomal protein S7	-1.86	0.00002	-0.90	0.87	0.20	-0.03	0.20
utu02a06	Collagen a3(I)-1	-1.87	0.00000	-0.90	0.54	0.09	-0.36	0.11
EXOB2_C05	Histone H2Ax	-1.88	0.00000	-0.91	0.70	0.13	-0.21	0.08
Hete0002_E10	40S ribosomal protein S8	-1.88	0.00000	-0.91	0.66	0.06	-0.24	0.10
EXOB4_F11	40S ribosomal protein S20	-1.90	0.00000	-0.93	0.80	0.06	-0.13	0.07
EXOB3_C04	Glyceraldehyde-3-phosphate dehydrogenase-1	-1.91	0.00000	-0.93	0.62	0.07	-0.31	0.11
utu04g04	Ribosomal protein L36a-like-2	-1.91	0.00000	-0.94	0.68	0.11	-0.25	0.10
EXOB4_C10	Ubiquitin and ribosomal protein S27a-1	-1.92	0.00000	-0.94	0.89	0.18	-0.05	0.16
utu02h11	Ribosomal protein L13	-1.94	0.00000	-0.95	0.66	0.10	-0.29	0.10
utu01d01	60S acidic ribosomal protein P1	-1.97	0.00000	-0.98	0.65	0.12	-0.33	0.09
EXOB3_C07	60S ribosomal protein L7a-2	-1.97	0.00001	-0.98	0.99	0.13	0.01	0.24
est04c07	Ferritin heavy chain-2	-1.97	0.00126	-0.98	0.61	0.05	-0.36	0.54
Hete0002_B08	Eukaryotic translation elongation factor 1 alpha 3	-2.01	0.00000	-1.01	0.60	0.09	-0.41	0.08
EXOB3_F10	Nuclease sensitive element binding protein 1-2	-2.01	0.00000	-1.01	0.99	0.07	-0.02	0.15
utu01g04	Cytochrome oxidase subunit III-2	-2.04	0.00000	-1.03	0.53	0.11	-0.50	0.09
utu02a08	Ubiquitin and ribosomal protein S27a-2	-2.04	0.00000	-1.03	0.67	0.06	-0.36	0.11
utu01h02	Cytochrome oxidase subunit III-3	-2.04	0.00000	-1.03	0.45	0.10	-0.59	0.10
EXOB1_F01	60S ribosomal protein L35a-1	-2.07	0.00000	-1.05	1.02	0.06	-0.03	0.19
EXOB3_E04	60S ribosomal protein L14	-2.07	0.00000	-1.05	1.02	0.14	-0.03	0.20
est02a11	Ig kappa chain V-IV region B17-2	-2.07	0.00000	-1.05	0.60	0.11	-0.45	0.11
HK0002_B07	Heat shock 70kDa protein 8	-2.07	0.00000	-1.05	0.65	0.10	-0.40	0.09
EXOB2_B10	Hemoglobin beta chain	-2.07	0.00000	-1.05	0.58	0.04	-0.47	0.10
HKT0001_H05	Cytochrome b-3	-2.08	0.00000	-1.05	0.93	0.08	-0.12	0.11
EXOB3_H05	Glucose-6-phosphate isomerase-2	-2.08	0.00000	-1.06	0.63	0.05	-0.43	0.09
est02f05	Cytochrome c oxidase subunit III-4	-2.09	0.00000	-1.06	0.66	0.09	-0.40	0.09
utu04g05	40S ribosomal protein S9-3	-2.10	0.00000	-1.07	0.73	0.09	-0.35	0.10
HK0001_A12	40S ribosomal protein S2	-2.11	0.00000	-1.08	0.88	0.15	-0.20	0.11
EXOB4_F02	Ribosomal protein S12	-2.12	0.00000	-1.08	0.93	0.07	-0.15	0.14
utu02b09	60S acidic ribosomal protein P0	-2.13	0.00000	-1.09	0.64	0.11	-0.45	0.08
KVkm2_D01	Vacuolar ATP synthase 16 kDa proteolipid subunit	-2.13	0.00000	-1.09	0.53	0.14	-0.56	0.13
EXOB2_G02	Profilin-1	-2.13	0.00000	-1.09	0.56	0.08	-0.53	0.04
EXOB2_F12	60S ribosomal protein L7a-1	-2.13	0.00000	-1.09	0.60	0.11	-0.49	0.05
est02g11	Cytochrome c oxidase subunit I-1	-2.14	0.00000	-1.10	0.69	0.14	-0.40	0.14
HK0001_H03	60S ribosomal protein L26	-2.14	0.00000	-1.10	0.86	0.23	-0.24	0.13
HK0003_A12	Heterogeneous nuclear ribonucleoprotein A1-1	-2.16	0.00000	-1.11	0.82	0.08	-0.29	0.08
EXOB1_H12	NADH dehydrogenase subunit 4	-2.23	0.00000	-1.16	0.84	0.08	-0.31	0.07
HK0002_D07	Unknown-172	-2.24	0.00000	-1.17	0.87	0.06	-0.30	0.07
EXOB3_G03	60S acidic ribosomal protein P2	-2.31	0.00000	-1.21	1.21	0.09	0.00	0.14
EXOB2_G09	Cytochrome c oxidase subunit I-2	-2.34	0.00000	-1.23	0.74	0.09	-0.49	0.10
HST0001_D04	Alpha-globin I-2	-2.37	0.00000	-1.25	0.68	0.16	-0.57	0.09
ENH2_H06	Unknown-5	-2.46	0.00000	-1.30	0.60	0.11	-0.71	0.18
est04c05	Ferritin heavy chain-1	-2.54	0.00000	-1.34	0.67	0.07	-0.68	0.11
P_46	ATPase 6	-2.56	0.00000	-1.36	0.86	0.06	-0.50	0.13
utu02b07	Cytochrome c oxidase subunit II	-2.64	0.00000	-1.40	0.72	0.16	-0.68	0.07
KVkm2_H10	Unknown-227	-2.67	0.00000	-1.42	0.42	0.19	-1.00	0.19
EST1-3A_H07	Cytochrome b-1	-2.86	0.00000	-1.52	0.87	0.09	-0.65	0.09
est02h09	Nonhistone chromosomal protein HMG-17	-3.07	0.00000	-1.62	0.85	0.06	-0.76	0.10
CA370329	Lysozyme C precursor	-3.08	0.00000	-1.62	0.72	0.16	-0.90	0.09
EXOB1_C02	Unknown-83	-3.44	0.00000	-1.78	1.19	0.04	-0.59	0.11
EXOB2_G01	Leukocyte cell-derived chemotaxin 2	-3.56	0.00000	-1.83	1.11	0.16	-0.72	0.08

Table 6: IHNV 72 hours; Genes were selected for sig diff. At a value of p<0.01, Q values are all 0

Clone ID	Match Name	FC	p-value	Diff log2	D Average	D Stdv	R Average	R Stdv
HST0001_D04	Alpha-globin I-2	15.48	0.00000	3.95	-1.71	0.19	2.24	0.32
est02a11	Ig kappa chain V-IV region B17-2	10.06	0.00000	3.33	-1.65	0.08	1.68	0.43
EXOB4_D02	Beta actin-2	9.60	0.00000	3.26	-2.07	0.39	1.19	0.17
EXOB2_B10	Hemoglobin beta chain	9.58	0.00000	3.26	-1.61	0.28	1.65	0.42
HK0003_A03	Thymosin beta-4-2	7.56	0.00000	2.92	-1.42	0.10	1.50	0.17
est02f08	Serine protease-like protein-1	6.41	0.00000	2.68	-1.43	0.20	1.25	0.15
est02h09	Nonhistone chromosomal protein HMG-17	6.00	0.00000	2.59	-1.24	0.14	1.35	0.15
est03c04	Matrix metalloproteinase-9	5.91	0.00000	2.56	-1.33	0.12	1.23	0.19
est01e06	Coronin-1B	5.51	0.00000	2.46	-1.22	0.25	1.24	0.19
est02g07	Ig mu heavy chain disease protein	5.44	0.00000	2.44	-1.21	0.17	1.24	0.10
EXOB4_H05	Unknown-133	5.24	0.00000	2.39	-1.26	0.13	1.13	0.11
est01e02	Thymosin beta-4-1	5.17	0.00000	2.37	-1.29	0.14	1.08	0.13
EXOB3_D02	Eukaryotic translation elongation factor 1 alpha 1	4.60	0.00000	2.20	-1.39	0.20	0.81	0.27
EXOB2_A01	MHC class II invariant chain-like protein 1	4.44	0.00000	2.15	-1.20	0.16	0.95	0.17
EXOB3_H01	Matrix metalloproteinase-13	4.34	0.00000	2.12	-1.14	0.14	0.98	0.15
EXOB1_A05	Ribosomal protein L6-1	4.33	0.00000	2.11	-1.16	0.10	0.95	0.12
EST1-3A_F05	Heat shock 70 kDa protein 1	4.27	0.00000	2.09	-1.19	0.16	0.90	0.25
EXOB2_G02	Profilin-1	4.00	0.00000	2.00	-0.94	0.12	1.06	0.31
HKT0001_H03	Microtubule-associated protein RP/EB	3.95	0.00000	1.98	-0.95	0.16	1.03	0.21
CA370329	Lysozyme C precursor	3.91	0.00000	1.97	-1.16	0.17	0.81	0.46
est01b09	Tolloid-like 2 protein (nephrosin)	3.84	0.00000	1.94	-1.01	0.26	0.93	0.22
utu02a08	Ubiquitin and ribosomal protein S27a-2	3.84	0.00000	1.94	-0.88	0.16	1.06	0.27
est02f04	Tubulin alpha-3 chain	3.83	0.00000	1.94	-1.02	0.15	0.92	0.08
est04c05	Ferritin heavy chain-1	3.83	0.00000	1.94	-0.87	0.07	1.06	0.18
EXOB3_A09	Hyperosmotic glycine rich protein	3.79	0.00000	1.92	-1.03	0.19	0.90	0.13
EST1-3A_A09	Serine protease-like protein-2	3.75	0.00000	1.91	-1.38	0.05	0.53	0.33
EXOB4_F11	40S ribosomal protein S20	3.73	0.00000	1.90	-0.94	0.14	0.96	0.12
EXOB2_G12	Tolloid-like protein (nephrosin)-2	3.70	0.00000	1.89	-0.95	0.22	0.93	0.36
est01c03	Histone H33-3	3.65	0.00000	1.87	-0.98	0.16	0.88	0.17
utu04g05	40S ribosomal protein S9-3	3.58	0.00000	1.84	-0.78	0.14	1.07	0.27
Hete0002_E10	40S ribosomal protein S8	3.48	0.00000	1.80	-0.72	0.12	1.08	0.32
EST1-3A_D03	60S ribosomal protein L23	3.39	0.00000	1.76	-0.82	0.09	0.94	0.15
EXOB1_H08	ADP,ATP carrier protein 3	3.35	0.00000	1.74	-0.91	0.12	0.84	0.23
EXOB2_D05	Matrix metalloproteinase 9-2	3.20	0.00000	1.68	-0.83	0.12	0.85	0.16
est04c07	Ferritin heavy chain-2	3.19	0.00000	1.68	-0.81	0.16	0.86	0.07
EXOB3_B12	Unknown-109	3.09	0.00000	1.63	-0.93	0.15	0.70	0.20
utu01a03	40S ribosomal protein S3-1	3.04	0.00000	1.60	-0.92	0.22	0.69	0.28
EXOB3_D08	Histone H33-2	3.01	0.00000	1.59	-1.00	0.13	0.60	0.17
est01e10	Tolloid-like protein (nephrosin)-1	2.98	0.00012	1.57	-0.68	0.50	0.90	0.39
ENH2_H06	Unknown-5	2.97	0.00000	1.57	-0.85	0.14	0.72	0.17
EST1-3A_E06	60S ribosomal protein L5-1	2.97	0.00000	1.57	-0.98	0.13	0.59	0.28
Hete0002_B08	Eukaryotic translation elongation factor 1 alpha 3	2.96	0.00000	1.57	-0.85	0.14	0.72	0.35
utu04g04	Ribosomal protein L36a-like-2	2.93	0.00000	1.55	-0.61	0.02	0.94	0.08
HK0002_B01	60S ribosomal protein L8	2.89	0.00000	1.53	-0.69	0.11	0.84	0.12
HST0001_C04	Hemoglobin alpha chain	2.87	0.00000	1.52	-0.50	0.14	1.02	0.20
EXOB1_H06	CC chemokine SCYA110-2	2.84	0.00025	1.51	-0.73	0.63	0.78	0.22
EST1-3A_B03	Hypothetical-fish 44	2.82	0.00007	1.50	-0.90	0.36	0.60	0.43
utu03g02	Heat shock cognate 70 kDa	2.81	0.00000	1.49	-0.91	0.11	0.58	0.28
CA371363	Glucose-6-phosphate isomerase-1	2.81	0.00001	1.49	-0.84	0.26	0.65	0.38
EXOB4_F03	Cathepsin S	2.80	0.00000	1.49	-0.90	0.16	0.59	0.12
est04b01	Similar to rRNA (Vangl2)	2.79	0.00000	1.48	-0.91	0.32	0.57	0.19
est03b12	Secretory granule proteoglycan core protein	2.77	0.00000	1.47	-0.68	0.09	0.79	0.19
CA358998	Cysteine-rich protein 1	2.75	0.00000	1.46	-0.84	0.18	0.62	0.19
EXOB2_D06	NADH dehydrogenase subunit 5-1	2.74	0.00000	1.45	-0.86	0.12	0.59	0.24
HK0002_B07	Heat shock 70kDa protein 8	2.70	0.00001	1.43	-0.89	0.31	0.55	0.31
Hete0002_A06	40S ribosomal protein S11	2.70	0.00000	1.43	-0.67	0.11	0.77	0.16
utu01d01	60S acidic ribosomal protein P1	2.70	0.00000	1.43	-0.64	0.17	0.79	0.13
ENH2_A03	60S ribosomal protein L15	2.67	0.00000	1.42	-0.72	0.15	0.69	0.31
CA362758	Cyclophilin-2	2.61	0.00000	1.39	-0.70	0.12	0.68	0.15
HK0001_A12	40S ribosomal protein S2	2.54	0.00000	1.34	-0.56	0.06	0.79	0.14
Hete0002_D05	Fatty acid-binding protein-2	2.52	0.00000	1.33	-0.55	0.17	0.79	0.16
EXOB3_G05	Actin, cytoplasmic 2	2.52	0.00000	1.33	-0.89	0.23	0.45	0.15
utu02h04	40S ribosomal protein S6	2.52	0.00000	1.33	-0.64	0.08	0.69	0.18
utu04f11	40S ribosomal protein S3-2	2.51	0.00005	1.33	-0.60	0.24	0.73	0.29
est04g12	Envelope protein	2.49	0.00000	1.32	-0.72	0.08	0.60	0.15
EST1-3A_E09	Cold inducible RNA binding protein-2	2.42	0.00000	1.28	-0.88	0.20	0.39	0.26
KVkm2_D08	60S ribosomal protein L18a	2.41	0.00003	1.27	-0.70	0.17	0.57	0.32
EXOB4_D12	Hpa repeat-1	2.41	0.00000	1.27	-0.81	0.24	0.45	0.15
EST1-3A_F10	14-3-3 B1-like	2.39	0.00000	1.26	-0.86	0.08	0.40	0.19
CA373525	Cytochrome B-245 heavy chain-2	2.39	0.00000	1.26	-0.52	0.17	0.74	0.17
KVkm2_G11	60S ribosomal protein L7	2.39	0.00000	1.26	-0.51	0.20	0.75	0.12
KVkm2_A01	Unknown-219	2.38	0.00001	1.25	-0.67	0.19	0.58	0.30
est03h05	Acidic leucine-rich nuclear phosphoprotein 32 A-2	2.35	0.00005	1.24	-0.60	0.25	0.63	0.32
KVkm2_F01	Unknown-224	2.35	0.00000	1.23	-0.68	0.21	0.55	0.27
utu01g04	Cytochrome oxidase subunit III-2	2.33	0.00000	1.22	-0.83	0.17	0.40	0.07
EST1-3A_F08	Heat shock protein HSP 90-beta-2	2.33	0.00000	1.22	-0.71	0.16	0.51	0.11
EXOB3_C04	Glyceraldehyde-3-phosphate dehydrogenase-1	2.27	0.00000	1.18	-0.72	0.10	0.47	0.16
EXOB1_C04	40S ribosomal protein S14 (PRO2640)	2.25	0.00000	1.17	-0.64	0.06	0.53	0.09
est03g08	Cathepsin Z precursor	2.24	0.00000	1.16	-0.44	0.16	0.72	0.16
est01c04	Unknown-11	2.22	0.00010	1.15	-0.40	0.26	0.75	0.23
utu03c12	Glyceraldehyde-3-phosphate dehydrogenase-4	2.20	0.00009	1.13	-0.50	0.26	0.63	0.31
est03f08	Transaldolase	2.19	0.00002	1.13	-0.43	0.11	0.70	0.32
utu02b08	High mobility group protein 2	2.19	0.00000	1.13	-0.57	0.14	0.56	0.20
KVkm2_A09	60S ribosomal protein L35	2.11	0.00000	1.08	-0.44	0.15	0.63	0.11
HK0001_H03	60S ribosomal protein L26	2.11	0.00000	1.08	-0.55	0.11	0.52	0.26
est02a02	Fibrillarin	2.10	0.00000	1.07	-0.71	0.12	0.36	0.10
KVkm2_G04	60S ribosomal protein L32-3	2.09	0.00000	1.07	-0.28	0.12	0.79	0.09
est02f06	Unknown-29	2.09	0.00000	1.06	-0.49	0.13	0.57	0.09
est02g11	Cytochrome c oxidase subunit I-1	2.08	0.00002	1.06	-0.88	0.15	0.18	0.27
est04a08	Ras-related C3 botulinum toxin substrate 2	2.08	0.00000	1.06	-0.52	0.17	0.54	0.22
EXOB4_F02	Ribosomal protein S12	2.04	0.00014	1.03	-0.37	0.23	0.66	0.32
utu04g03	Alpha 2 type I collagen-2	2.02	0.00000	1.01	-0.35	0.15	0.67	0.15
EXOB2_C01	Cofilin, muscle isoform	2.01	0.00002	1.01	-0.62	0.13	0.39	0.31
EXOB2_H01	Unknown-100	1.98	0.00000	0.99	-0.44	0.13	0.55	0.23
KVkm2_F06	60S ribosomal protein L32-1	1.98	0.00000	0.98	-0.32	0.16	0.66	0.21
utu03b02	Ribosomal protein L6-2	1.97	0.00001	0.98	-0.27	0.10	0.71	0.23
est04e05	Glutathione peroxidase-gastrointestinal	1.94	0.00002	0.96	-0.34	0.12	0.62	0.26
EXOB3_E04	60S ribosomal protein L14	1.94	0.00001	0.96	-0.42	0.17	0.53	0.20
EXOB1_A07	Unknown-79	1.93	0.00000	0.95	-0.69	0.08	0.27	0.25

Table 6 cont'd: IHNV 72 hours; Genes were selected for sig diff. At a value of p<0.01, Q values are all 0

est04f07	Transposase-5	1.93	0.00002	0.95	-0.54	0.23	0.41	0.12
EXOB3_D12	Unknown-113	1.91	0.00000	0.94	-0.56	0.17	0.37	0.08
EXOB3_A08	Ribosomal protein L11	1.91	0.00000	0.93	-0.42	0.13	0.51	0.20
utu03e05	Unknown-258	1.90	0.00000	0.93	-0.29	0.16	0.64	0.11
EXOB4_C10	Ubiquitin and ribosomal protein S27a-1	1.90	0.00010	0.93	-0.41	0.28	0.52	0.23
EXOB4_A11	Tubulin alpha-ubiquitous chain	1.89	0.00000	0.92	-0.43	0.11	0.49	0.18
est04c01	ARP2/3 complex 34 kDa subunit	1.89	0.00000	0.92	-0.49	0.11	0.43	0.07
EXOB2_A11	Tubulin alpha-1 chain	1.88	0.00002	0.91	-0.74	0.16	0.17	0.20
EXOB4_C05	Galectin-1	1.87	0.00010	0.90	-0.44	0.18	0.46	0.30
HK0002_D07	Unknown-172	1.87	0.00508	0.90	-0.43	0.47	0.47	0.40
est02f09	Unknown-30	1.86	0.00000	0.90	-0.52	0.11	0.38	0.11
KVkm2_E02	Glyceraldehyde-3-phosphate dehydrogenase-2	1.86	0.00011	0.89	-0.55	0.22	0.34	0.23
HK0001_H06	40S ribosomal protein S7	1.85	0.00001	0.89	-0.40	0.15	0.48	0.21
est02b08	Peroxiredoxin 1-2	1.85	0.00010	0.88	-0.36	0.20	0.52	0.29
EXOB2_G09	Cytochrome c oxidase subunit I-2	1.84	0.00010	0.88	-0.70	0.31	0.18	0.15
utu02h11	Ribosomal protein L13	1.84	0.00006	0.88	-0.15	0.10	0.72	0.31
utu02b09	60S acidic ribosomal protein P0	1.83	0.00001	0.87	-0.48	0.08	0.39	0.24
EXOB3_H05	Glucose-6-phosphate isomerase-2	1.81	0.00002	0.86	-0.53	0.15	0.32	0.23
ENH2_E05	40S ribosomal protein S29	1.81	0.00031	0.86	-0.24	0.22	0.61	0.22
est04f01	Polyposis locus protein 1	1.81	0.00052	0.85	-0.45	0.22	0.41	0.13
EXOB4_D05	Hypothetical-fish 19	1.80	0.00001	0.85	-0.48	0.07	0.37	0.23
Hete0002_F02	Cytokeratin 19	1.80	0.00370	0.85	-0.23	0.15	0.62	0.47
EXOB2_G10	Histone H33-1	1.78	0.00026	0.84	-0.48	0.29	0.36	0.23
KVkm2_G01	60S ribosomal protein L32-2	1.78	0.00000	0.83	-0.20	0.07	0.63	0.15
EXOB2_C05	Histone H2Ax	1.77	0.00000	0.83	-0.50	0.14	0.33	0.18
CA348284	CCAAT/enhancer binding protein beta	1.76	0.00025	0.82	-0.33	0.14	0.49	0.31
EXOB2_B01	Nuclease sensitive element binding protein 1-1	1.75	0.00002	0.81	-0.49	0.12	0.32	0.24
CA351800	Superoxide dismutase [Cu-Zn]	1.75	0.00001	0.80	-0.45	0.16	0.35	0.18
CA372345	High density lipoprotein-binding protein	1.74	0.00001	0.80	-0.52	0.17	0.27	0.15
EXOB1_H05	Transposase-6	1.73	0.00010	0.79	-0.52	0.23	0.27	0.21
EXOB3_E03	Unknown-114	1.72	0.00001	0.78	-0.67	0.13	0.12	0.19
EXOB4_C11	High affinity immunoglobulin gamma Fc receptor I precursor	1.71	0.00005	0.78	-0.32	0.13	0.46	0.25
EXOB1_B04	Beta actin-1	1.71	0.00027	0.77	-0.26	0.13	0.51	0.30
HK0001_D01	Ubiquitin	1.68	0.00214	0.75	-0.33	0.41	0.42	0.14
CA364941	Annexin A1-1	1.68	0.00003	0.75	-0.27	0.20	0.48	0.16
Hete0002_E09	Transposase-56	1.67	0.00010	0.74	-0.61	0.13	0.14	0.26
EXOB2_C03	60S ribosomal protein L10-1	1.66	0.00002	0.73	-0.42	0.19	0.31	0.15
utu01h02	Cytochrome oxidase subunit III-3	1.64	0.00008	0.72	-0.51	0.22	0.21	0.17
CA365039	CD63	1.64	0.00034	0.72	-0.23	0.17	0.48	0.28
EXOB2_F12	60S ribosomal protein L7a-1	1.63	0.00057	0.70	-0.40	0.27	0.31	0.22
utu01g10	Keratin, type II cytoskeletal 8	1.61	0.00008	0.69	-0.16	0.06	0.53	0.26
CA345232	Similar to GTP-binding protein ragB	1.60	0.00002	0.68	-0.43	0.14	0.25	0.17
Hete0002_G11	Hypothetical-fish 23	1.59	0.00000	0.67	-0.15	0.08	0.53	0.12
CA368961	78 kDa glucose-regulated protein precursor	1.58	0.00095	0.66	-0.36	0.13	0.30	0.29
est04d09	60S ribosomal protein L37	1.57	0.00058	0.65	-0.09	0.19	0.57	0.18
Hete0002_E07	Phosphoenolpyruvate carboxykinase-Embryonic beta-type globin2	1.55	0.00000	0.64	-0.22	0.09	0.42	0.10
est04b10	Cytochrome P450 2K4-1	1.55	0.00006	0.63	-0.19	0.07	0.44	0.16
est02f12	Proteasome subunit beta type 9 precursor	1.54	0.00023	0.63	-0.21	0.14	0.42	0.21
EXOB2_B12	RING finger protein 103	1.54	0.00028	0.62	-0.27	0.14	0.35	0.13
CA380028	StAR-related lipid transfer protein 3	1.53	0.00019	0.62	-0.31	0.12	0.31	0.23
utu02a12	Brain protein 44-like protein	1.53	0.00087	0.62	-0.14	0.20	0.47	0.22
CA383564	Coatomer epsilon subunit 1	1.53	0.00002	0.61	-0.56	0.11	0.06	0.17
utu03d10	Glyceraldehyde-3-phosphate dehydrogenase-5	1.53	0.00687	0.61	-0.47	0.23	0.14	0.24
EST1-3A_D05	Unknown-70	1.52	0.00246	0.61	-0.48	0.33	0.13	0.17
est03h08	Beta-hexosaminidase alpha chain precursor	1.52	0.00072	0.60	-0.22	0.20	0.38	0.13
EXOB1_H12	NADH dehydrogenase subunit 4	1.51	0.00220	0.59	-0.49	0.31	0.10	0.16
est03a11	ReO_6-1	1.50	0.00004	0.59	-0.37	0.09	0.22	0.19
EXOB4_G09	Histone H14	1.49	0.00361	0.57	-0.12	0.22	0.45	0.06
CA367764	Calmodulin-1	1.49	0.00513	0.57	-0.29	0.25	0.29	0.30
EXOB3_C07	60S ribosomal protein L7a-2	1.49	0.00004	0.57	-0.27	0.09	0.30	0.16
utu03g08	Unknown-259	1.47	0.00159	0.56	-0.16	0.14	0.40	0.19
est01c08	14-3-3C2	1.47	0.00443	0.55	-0.38	0.19	0.17	0.30
P_46	ATPase 6	1.47	0.00015	0.55	-0.30	0.16	0.26	0.16
EXOB1_G12	Thioredoxin	1.46	0.00414	0.55	-0.08	0.11	0.47	0.32
CA350741	Cdc45	1.46	0.00008	0.55	-0.28	0.11	0.27	0.06
utu02b07	Cytochrome c oxidase subunit II	1.45	0.00185	0.53	-0.42	0.27	0.11	0.16
est01c06	ADP-ribosylation factor 4	1.45	0.00010	0.53	-0.31	0.14	0.22	0.15
est02f05	Cytochrome c oxidase subunit III-4	1.45	0.00450	0.53	-0.28	0.28	0.26	0.23
utu02c03	Protein phosphatase 2C gamma isoform	1.45	0.00042	0.53	-0.22	0.09	0.31	0.20
CR_1	14-3-3 B1	1.44	0.00149	0.53	-0.28	0.13	0.25	0.27
CA383222	G2/mitotic-specific cyclin B2	1.44	0.00096	0.53	-0.26	0.16	0.27	0.17
utu01g11	Actin, alpha skeletal 3	1.42	0.00140	0.51	-0.16	0.07	0.34	0.23
EST1-3A_B08	Unknown-67	1.41	0.00678	0.50	-0.33	0.28	0.17	0.23
CA354559	CD2 antigen cytoplasmic tail-binding protein 2	1.40	0.00054	0.49	-0.16	0.12	0.33	0.21
EXOB3_G04	Tyrosine-protein kinase HCK	1.40	0.00403	0.49	-0.28	0.07	0.21	0.31
KVkm2_D01	Vacuolar ATP synthase 16 kDa proteolipid subunit	1.38	0.00939	0.47	0.01	0.20	0.48	0.24
EXOB2_C10	Red cell acid phosphatase 1	1.38	0.00186	0.47	-0.16	0.12	0.30	0.13
EXOB1_E03	Eukaryotic translation initiation factor 3 subunit 5	1.38	0.00500	0.46	-0.20	0.07	0.26	0.31
EXOB1_E04	Ubiquitin-like protein SMT3A-1	1.38	0.00362	0.46	-0.39	0.07	0.08	0.28
CA349380	LPS binding protein	1.37	0.00284	0.46	-0.22	0.17	0.23	0.00
est04a04	Midkine precursor	1.37	0.00178	0.46	-0.20	0.18	0.26	0.20
CA347646	GrpE protein homolog 1, mitochondrial precursor	1.36	0.00044	0.45	-0.23	0.11	0.22	0.16
CA379787	Cyclin G1	1.36	0.00503	0.44	-0.23	0.15	0.21	0.25
ENH2_B08	Splicing factor, arginine/serine-rich 3	1.36	0.00444	0.44	-0.08	0.11	0.36	0.23
EXOB2_E03	14-3-3B1	1.35	0.00081	0.43	-0.23	0.09	0.20	0.18
est03b11	Acidic leucine-rich nuclear phosphoprotein 32 A-1	1.34	0.00135	0.42	-0.23	0.16	0.19	0.15
EXOB2_B04	Syntenin 1	1.34	0.00397	0.42	-0.23	0.19	0.19	0.20
F_122	ARP2/3 complex 21 kDa subunit	1.33	0.00400	0.42	-0.08	0.16	0.34	0.04
est01g09	Synapse associated protein	1.33	0.00130	0.41	-0.23	0.13	0.18	0.18
KVkm2_A12	Unknown-220	1.31	0.00618	0.39	-0.04	0.13	0.35	0.25
CA367787	Bax inhibitor-1	1.30	0.00464	0.38	-0.06	0.09	0.32	0.24
EXOB4_A08	Lysozyme g-3	1.29	0.00032	0.37	-0.21	0.07	0.16	0.15
CA384637	60 kDa heat shock protein-1	1.29	0.00699	0.37	-0.18	0.12	0.19	0.21
est03e10	Putative inorganic polyphosphate/ATP-NAD kinase	1.29	0.00024	0.37	-0.13	0.10	0.24	0.07
utu01f04	Actin, alpha skeletal 2	1.29	0.00257	0.36	-0.10	0.10	0.26	0.19
EXOB2_H12	Coatomer epsilon subunit 2	1.27	0.00408	0.34	-0.11	0.12	0.23	0.18
utu04d02	Beta enolase-5	1.26	0.00463	0.34	-0.25	0.12	0.08	0.18
CA354715	Membrane copper amine oxidase	1.25	0.00231	0.33	-0.14	0.13	0.18	0.14
CA361101	Regulator of G-protein signaling 1-2	1.25	0.00234	0.32	-0.09	0.14	0.23	0.14
CR_5	14-3-3 E1	1.25	0.00231	0.32	-0.11	0.07	0.21	0.18

Table 6 cont'd: IHNV 72 hours; Genes were selected for sig diff. At a value of p<0.01, Q values are all 0

CA382570	Mitogen-activated protein kinase 13	1.24	0.00094	0.31	-0.29	0.12	0.02	0.11
utu02e04	ATP synthase coupling factor 6, mitochondrial precursor	1.24	0.00200	0.31	-0.11	0.12	0.20	0.11
EXOB2_E10	Adenosine kinase 3	1.24	0.00425	0.30	-0.19	0.13	0.11	0.14
est01d09	Selenoprotein T-1	1.23	0.00027	0.30	-0.12	0.07	0.18	0.02
EXOB2_D10	Unknown-96	1.22	0.00136	0.29	-0.08	0.09	0.21	0.06
EXOB3_A11	Unknown-107	1.21	0.00312	0.28	-0.05	0.14	0.23	0.10
est03c07	Ig kappa chain V-I region WEA	1.21	0.00458	0.28	-0.03	0.09	0.25	0.12
HK0002_G02	Creatine kinase, sarcomeric mitochondrial precursor	1.20	0.00696	0.26	-0.02	0.13	0.24	0.14
EST1-3A_F12	Transposase-59	1.20	0.00055	0.26	-0.20	0.06	0.07	0.12
EXOB2_E01	Heterogeneous nuclear ribonucleoprotein A1-2	1.19	0.00989	0.25	-0.06	0.11	0.19	0.16
EST1-3A_G09	Unknown-75	1.18	0.00924	0.24	-0.18	0.10	0.06	0.15
CA384587	Transcription factor Dp-1	1.13	0.00385	0.17	-0.09	0.07	0.08	0.08
HK0003_A04	Eukaryotic translation initiation factor 3 subunit 6-2	-1.13	0.00439	-0.18	0.17	0.05	0.00	0.11
CA359761	PTB domain adaptor protein CED-6	-1.14	0.00754	-0.19	-0.07	0.14	-0.26	0.03
HK0002_A12	NADH-ubiquinone oxidoreductase 15 kDa subunit	-1.15	0.00546	-0.20	0.09	0.12	-0.11	0.07
CA357761	Galectin-3	-1.16	0.00612	-0.21	0.11	0.12	-0.09	0.09
EXOB3_D06	Unknown-112	-1.18	0.00474	-0.24	0.11	0.08	-0.13	0.14
est04h03	Unknown-62	-1.18	0.00677	-0.24	0.18	0.09	-0.06	0.09
HK0003_G10	Unknown-202	-1.21	0.00702	-0.28	0.17	0.14	-0.10	0.15
utu02d01	Unknown-241	-1.21	0.00198	-0.28	-0.09	0.08	-0.37	0.15
CA359487	Protein phosphatase methylesterase 1	-1.22	0.00475	-0.28	0.16	0.16	-0.12	0.10
EXOB1_H02	Triosephosphate isomerase	-1.22	0.00072	-0.29	-0.11	0.12	-0.39	0.08
EXOB2_C07	Splicing factor, arginine/serine-rich 12-2	-1.22	0.00508	-0.29	0.02	0.17	-0.27	0.06
EXOB2_B05	Hypothetical-fish 27	-1.23	0.00902	-0.30	0.16	0.20	-0.14	0.10
EXOB2_H02	Serine/arginine repetitive matrix 1	-1.23	0.00153	-0.30	0.20	0.14	-0.10	0.10
HK0002_C04	Apolipoprotein E-2	-1.23	0.00348	-0.30	0.20	0.13	-0.10	0.13
CA351992	Growth arrest and DNA-damage-inducible protein alpha-2	-1.24	0.00074	-0.31	-0.03	0.13	-0.34	0.10
HK0003_F05	28S ribosomal protein S16, mitochondrial precursor	-1.25	0.00463	-0.32	0.20	0.16	-0.12	0.14
CA342691	Lanosterol synthase	-1.25	0.00259	-0.32	-0.05	0.12	-0.37	0.14
HK0001_D07	Unknown-153	-1.26	0.00015	-0.34	0.13	0.13	-0.21	0.06
CA359906	Cytochrome P450 4F3	-1.27	0.00978	-0.34	-0.01	0.14	-0.35	0.13
CA363870	Thioredoxin-like protein 4A	-1.27	0.00896	-0.34	0.17	0.13	-0.17	0.21
EST1-3A_D01	Tissue factor pathway inhibitor 2 precursor	-1.27	0.00852	-0.34	-0.09	0.20	-0.44	0.12
utu04a06	Creatine kinase, M-3	-1.27	0.00125	-0.34	0.17	0.06	-0.18	0.17
CA363944	Nuclear factor NF-kappa-B	-1.28	0.00221	-0.35	0.10	0.13	-0.25	0.11
EXOB4_D09	Hypothetical-fish 7	-1.28	0.00270	-0.35	-0.01	0.06	-0.36	0.18
HK0001_B04	TGF beta-inducible nuclear protein 1	-1.28	0.00303	-0.35	0.17	0.14	-0.19	0.17
HK0002_H01	Unknown-178	-1.28	0.00108	-0.36	0.16	0.13	-0.20	0.06
CA376709	Protein activator of the interferon-induced protein kinase	-1.29	0.00399	-0.36	0.16	0.13	-0.21	0.11
HK0002_H04	Unknown-179	-1.29	0.00203	-0.36	0.23	0.05	-0.14	0.21
est04c06	Unknown-54	-1.31	0.00941	-0.39	0.35	0.18	-0.04	0.24
HK0001_A10	CS0DC006YH13 of Neuroblastoma of Homo sapiens	-1.31	0.00075	-0.39	0.24	0.12	-0.15	0.16
HK0002_C02	Chromosome-associated kinesin KIF4A	-1.31	0.00546	-0.39	0.28	0.15	-0.11	0.22
EXOB1_F08	Unknown-88	-1.31	0.00323	-0.39	0.07	0.10	-0.33	0.23
EXOB3_E09	N-myc downstream regulated protein-2	-1.32	0.00356	-0.40	-0.09	0.16	-0.49	0.20
EXOB1_D08	Ribosome biogenesis protein Nop10	-1.32	0.00105	-0.40	-0.02	0.18	-0.42	0.06
EXOB2_F01	Proteasome subunit alpha type 6	-1.32	0.00914	-0.40	0.19	0.16	-0.22	0.26
CA380121	Telomerase reverse transcriptase	-1.33	0.00039	-0.41	0.03	0.14	-0.38	0.09
HK0001_C01	Dermatan-4-sulfotransferase-1-2	-1.33	0.00629	-0.42	0.30	0.18	-0.12	0.23
HK0003_H10	Brain protein 44	-1.33	0.00656	-0.42	0.31	0.20	-0.10	0.10
HK0003_C12	Unknown-191	-1.34	0.00083	-0.42	0.36	0.17	-0.06	0.09
EXOB1_G04	Splicing factor 3B subunit 1	-1.34	0.00038	-0.43	0.15	0.14	-0.28	0.15
HK0003_C10	Over-expressed breast tumor protein-like	-1.35	0.00046	-0.43	0.27	0.14	-0.16	0.15
CA373506	Selenoprotein P	-1.35	0.00185	-0.43	0.06	0.13	-0.37	0.19
HK0001_D10	Coagulation factor X precursor	-1.35	0.00672	-0.43	0.06	0.26	-0.38	0.17
HST0001_C03	Plasminogen precursor-2	-1.35	0.00302	-0.43	0.33	0.10	-0.11	0.25
EXOB3_F04	Unknown-119	-1.35	0.00134	-0.43	0.22	0.21	-0.21	0.12
HK0003_A11	Apolipoprotein A-I-1	-1.35	0.00847	-0.44	0.24	0.23	-0.19	0.19
CA365505	Retinoblastoma-like protein 1	-1.36	0.00026	-0.45	0.30	0.12	-0.15	0.16
CA363645	Frizzled 8 precursor	-1.37	0.00186	-0.45	0.14	0.11	-0.31	0.18
HK0001_C04	Unknown-150	-1.37	0.00225	-0.45	0.32	0.13	-0.13	0.24
EXOB2_A06	Nucleolar protein Nop56-2	-1.37	0.00098	-0.46	0.18	0.12	-0.28	0.21
EST1-3A_B09	Lysozyme g-2	-1.38	0.00017	-0.46	0.12	0.13	-0.34	0.11
HK0003_F10	Unknown-200	-1.38	0.00918	-0.46	0.26	0.25	-0.20	0.25
CA348539	Serine/threonine-protein kinase 17A	-1.38	0.00429	-0.47	0.30	0.22	-0.17	0.18
utu02a06	Collagen a3(I)-1	-1.38	0.00708	-0.47	0.25	0.13	-0.22	0.31
CA385359	Serum amyloid P-component-2	-1.39	0.00000	-0.47	0.16	0.05	-0.31	0.12
utu03g11	Hypothetical-fish 12	-1.39	0.00019	-0.47	0.31	0.08	-0.16	0.12
HK0001_C06	Prostaglandin D synthase homolog	-1.39	0.00790	-0.47	0.31	0.26	-0.16	0.24
EST1-3A_H06	Transcription factor jun-B-1	-1.39	0.00018	-0.48	0.24	0.16	-0.24	0.12
EST1-3A_A10	Septin 7 (CDC10 protein homolog)	-1.39	0.00159	-0.48	-0.10	0.12	-0.58	0.11
EXOB1_G05	Unknown-89	-1.39	0.00004	-0.48	0.14	0.09	-0.34	0.14
CR_8	14-3-3 G2	-1.40	0.00967	-0.48	0.42	0.32	-0.06	0.06
HK0001_D05	Ubiquitin-like protein SMT3A-2	-1.40	0.00068	-0.49	0.31	0.14	-0.18	0.20
EST1-3A_A01	Cytosolic nonspecific dipeptidase	-1.40	0.00961	-0.49	0.16	0.16	-0.33	0.30
HK0003_G01	Creatine kinase, M-2	-1.40	0.00013	-0.49	0.30	0.13	-0.19	0.13
HK0001_C09	Unknown-151	-1.41	0.00368	-0.49	0.27	0.17	-0.22	0.27
EST1-3A_F07	Echinoderm microtubule-associated protein-like 4	-1.41	0.00669	-0.50	-0.16	0.21	-0.66	0.22
CA359963	Homocysteine-responsive endoplasmic reticulum-resident ubiquitin-like domain member 1 protein	-1.42	0.00015	-0.50	0.18	0.18	-0.32	0.10
CA352381	Protein kinase C, alpha type	-1.42	0.00006	-0.50	0.16	0.08	-0.34	0.17
HK0001_G05	Hypothetical-fish 26	-1.43	0.00050	-0.51	0.37	0.21	-0.15	0.13
EXOB3_C03	Unknown-110	-1.43	0.00191	-0.52	0.25	0.18	-0.27	0.24
HK0003_E04	Hypothetical-fish 10	-1.43	0.00469	-0.52	0.32	0.28	-0.20	0.21
utu04g06	Unknown-270	-1.44	0.00003	-0.52	0.30	0.10	-0.22	0.15
EST1-3A_H12	Hypothetical-fish 39	-1.44	0.00517	-0.52	0.19	0.35	-0.33	0.07
CA368411	Phosphatidylethanolamine N-methyltransferase, isoform 1	-1.44	0.00021	-0.52	0.20	0.08	-0.32	0.21
utu03e11	Troponin I, slow skeletal muscle	-1.45	0.00450	-0.53	0.43	0.27	-0.10	0.19
HK0003_B08	Unknown-186	-1.46	0.00215	-0.55	0.35	0.21	-0.20	0.25
HK0001_B10	Unknown-148	-1.48	0.00009	-0.56	0.23	0.11	-0.33	0.05
EXOB4_C02	Unknown-127	-1.48	0.00067	-0.56	0.20	0.12	-0.37	0.17
HK0001_F09	Unknown-157	-1.48	0.00195	-0.57	0.31	0.21	-0.26	0.26
HK0003_D08	Unknown-193	-1.48	0.00038	-0.57	0.44	0.14	-0.13	0.22
EXOB3_G08	Fatty acid-binding protein-1	-1.49	0.00000	-0.57	0.13	0.09	-0.44	0.13
EXOB1_F01	60S ribosomal protein L35a-1	-1.49	0.00077	-0.57	0.30	0.07	-0.27	0.29
EST1-3A_C04	Splicing factor, arginine/serine-rich 8	-1.49	0.00199	-0.58	-0.01	0.15	-0.58	0.16
EXOB4_G02	Galectin-9 (VHSV-induced protein)-2	-1.49	0.00005	-0.58	0.38	0.14	-0.19	0.16
HK0001_F03	HIRA-interacting protein 5	-1.49	0.00000	-0.58	0.36	0.08	-0.22	0.10
CA343473	C3a anaphylatoxin chemotactic receptor	-1.50	0.00551	-0.58	0.35	0.29	-0.24	0.22
utu01b01	Unknown-230	-1.50	0.00253	-0.58	0.32	0.30	-0.26	0.20

Table 6 cont'd: IHNV 72 hours; Genes were selected for sig diff. At a value of p<0.01, Q values are all 0

est01f09	High-mobility group protein 2-like 1	-1.50	0.00035	-0.59	0.28	0.14	-0.30	0.10
utu03d06	Retinoic acid receptor responder 3-2	-1.51	0.00134	-0.59	0.43	0.30	-0.17	0.14
EXOB2_A02	Nucleoside diphosphate kinase, mitochondrial precursor	-1.51	0.00003	-0.59	0.23	0.13	-0.36	0.13
CA375106	Protein-tyrosine sulfotransferase 1	-1.51	0.00389	-0.59	0.06	0.16	-0.53	0.27
est02f02	Unknown-28	-1.52	0.00001	-0.60	0.25	0.13	-0.35	0.13
ENH2_D07	Ribosomal protein L35-2	-1.52	0.00955	-0.61	0.25	0.36	-0.36	0.29
KVkm2_E07	Unknown-223	-1.53	0.00000	-0.61	0.37	0.06	-0.25	0.11
utu02c12	Unknown-240	-1.54	0.00029	-0.62	0.21	0.17	-0.41	0.14
EXOB2_A10	Unknown-92	-1.54	0.00058	-0.62	0.31	0.24	-0.30	0.19
CA364325	Peroxiredoxin 6	-1.54	0.00886	-0.62	0.46	0.38	-0.16	0.28
HK0003_E01	Plasminogen precursor-1	-1.54	0.00000	-0.62	0.32	0.13	-0.30	0.09
utu01d08	Bromodomain adjacent to zinc finger domain 2B	-1.55	0.00564	-0.63	0.49	0.27	-0.14	0.07
est01c11	Succinate dehydrogenase [ubiquinone] mitochondrial	-1.55	0.00019	-0.63	0.42	0.18	-0.22	0.20
EXOB3_G02	Organic anion transporter	-1.56	0.00015	-0.64	0.33	0.12	-0.31	0.23
utu01b08	Unknown-231	-1.56	0.00833	-0.64	0.33	0.20	-0.31	0.43
HK0003_H12	Unknown-203	-1.56	0.00002	-0.64	0.37	0.14	-0.27	0.16
CA352454	Semaphorin 4D	-1.57	0.00029	-0.65	0.32	0.22	-0.33	0.20
HK0001_E07	Unknown-155	-1.57	0.00019	-0.65	0.25	0.19	-0.40	0.20
CA357899	Death-associated protein kinase 3	-1.60	0.00095	-0.67	0.04	0.31	-0.64	0.13
utu02c02	Myosin heavy chain, skeletal, adult 1-1	-1.61	0.00220	-0.68	0.40	0.26	-0.28	0.32
HK0001_G11	Unknown-161	-1.61	0.00060	-0.69	0.41	0.30	-0.27	0.16
CA387146	Mannosidase alpha	-1.61	0.00050	-0.69	0.36	0.07	-0.34	0.25
CA366564	Huntingtin	-1.62	0.00023	-0.70	0.43	0.21	-0.27	0.08
CA373295	Apoptosis response zinc finger protein	-1.63	0.00663	-0.71	0.44	0.44	-0.26	0.25
HK0003_F02	Unknown-195	-1.64	0.00241	-0.71	0.46	0.37	-0.25	0.22
HK0001_G12	Quinone oxidoreductase	-1.64	0.00013	-0.71	0.49	0.24	-0.22	0.16
EST1-3A_F09	Unknown-73	-1.65	0.00000	-0.72	0.02	0.07	-0.71	0.06
EXOB4_B01	Transferrin	-1.65	0.00568	-0.73	0.37	0.37	-0.36	0.10
utu04e07	60S ribosomal protein L39	-1.66	0.00286	-0.73	0.47	0.41	-0.26	0.20
CA386899	Astrocytic phosphoprotein PEA-15	-1.66	0.00102	-0.73	0.53	0.38	-0.20	0.11
CA376117	CD231	-1.66	0.00028	-0.74	0.32	0.12	-0.42	0.31
CA381440	Double-stranded RNA-specific adenosine deaminase	-1.67	0.00024	-0.74	0.30	0.28	-0.44	0.17
HK0002_B08	Unknown-166	-1.67	0.00155	-0.74	0.40	0.34	-0.34	0.16
HK0001_F02	D-3-phosphoglycerate dehydrogenase	-1.67	0.00003	-0.74	0.53	0.17	-0.21	0.05
HK0001_H05	Angiotensin I converting enzyme	-1.68	0.00000	-0.75	0.44	0.11	-0.30	0.15
HK0001_C02	Unknown-149	-1.68	0.00005	-0.75	0.60	0.17	-0.15	0.21
est01a10	Unknown-9	-1.68	0.00003	-0.75	0.48	0.14	-0.28	0.15
est01e08	Superoxide dismutase [Mn], mitochondrial precursor	-1.70	0.00003	-0.77	0.56	0.22	-0.21	0.14
CA363723	Cyclin C	-1.71	0.00062	-0.78	0.37	0.31	-0.40	0.08
CA354833	Anti-silencing function 1B	-1.71	0.00000	-0.78	0.51	0.06	-0.26	0.16
est02b12	Dermatan-4-sulfotransferase-1-1	-1.72	0.00000	-0.78	0.44	0.13	-0.35	0.13
CR_11	DNA fragmentation factor alpha subunit	-1.72	0.00005	-0.78	0.48	0.15	-0.31	0.25
HK0002_C06	Unknown-169	-1.73	0.00008	-0.79	0.48	0.20	-0.31	0.23
HK0001_D09	Cytochrome P450 2F1	-1.73	0.00003	-0.79	0.54	0.19	-0.26	0.20
EXOB1_A01	Unknown-78	-1.76	0.00003	-0.81	0.34	0.21	-0.48	0.18
EXOB1_F10	Suppressor of SWI4 1 homolog	-1.76	0.00000	-0.82	0.48	0.09	-0.34	0.18
utu03f06	Chromosome segregation 1-like protein	-1.76	0.00003	-0.82	0.47	0.13	-0.35	0.25
P_8	Glutathione reductase, mitochondrial-1	-1.77	0.00000	-0.82	0.49	0.11	-0.33	0.15
P_9	Glutathione S-transferase P	-1.78	0.00000	-0.83	0.63	0.07	-0.20	0.13
HK0002_A04	Unknown-164	-1.79	0.00000	-0.84	0.56	0.15	-0.28	0.18
CA349577	Tyrosine-protein kinase FRK	-1.79	0.00000	-0.84	0.47	0.14	-0.37	0.11
CA378736	Tyrosine-protein kinase BTK	-1.80	0.00228	-0.85	0.41	0.37	-0.43	0.12
EST1-3A_H10	Cytohesin binding protein HE	-1.80	0.00006	-0.85	0.33	0.18	-0.52	0.26
HK0001_C12	Unknown-152	-1.82	0.00016	-0.87	0.54	0.15	-0.32	0.33
est03g09	UDP-glucose 4-epimerase	-1.83	0.00025	-0.88	0.65	0.32	-0.22	0.22
EXOB3_F07	Unknown-120	-1.83	0.00010	-0.88	0.34	0.19	-0.53	0.29
EXOB3_F11	Ubiquitin-conjugating enzyme E2-18 kDa	-1.84	0.00000	-0.88	0.36	0.08	-0.52	0.15
est04b11	Galectin-9 (VHSV-induced protein)-1	-1.85	0.00000	-0.89	0.66	0.20	-0.23	0.10
HKT0001_A11	Hypothetical-fish 11	-1.85	0.00001	-0.89	0.47	0.18	-0.42	0.12
P_17	Nitric oxide synthase 2 (NOS2)	-1.86	0.00007	-0.89	0.41	0.08	-0.48	0.33
EXOB2_D01	Proteasome subunit alpha type 3	-1.90	0.00002	-0.92	0.51	0.16	-0.42	0.25
HK0003_C07	Heterogeneous nuclear ribonucleoprotein A0	-1.92	0.00000	-0.94	0.65	0.07	-0.29	0.17
CA346979	MAPK/ERK kinase kinase 5-1	-1.92	0.00000	-0.94	0.48	0.12	-0.47	0.07
HK0003_E07	Myosin light chain 2-1	-1.93	0.00000	-0.95	0.50	0.08	-0.45	0.15
EXOB4_D10	Prosaposin	-1.93	0.00491	-0.95	0.56	0.55	-0.39	0.34
EXOB3_G09	Ornithine decarboxylase antizyme-2	-1.95	0.00058	-0.96	0.45	0.38	-0.52	0.18
CA342227	Protein tyrosine kinase 2 beta	-1.96	0.00005	-0.97	0.41	0.25	-0.56	0.25
CA342760	47 kDa heat shock protein-2	-1.99	0.00003	-0.99	0.40	0.15	-0.59	0.13
CA358548	Polyadenylate-binding protein 4	-2.04	0.00004	-1.03	0.55	0.23	-0.48	0.27
HST0001_F09	Alpha-1-microglobulin\/bikunin-2	-2.06	0.00104	-1.05	0.61	0.28	-0.43	0.12
EXOB4_A10	Unknown-126	-2.07	0.00409	-1.05	0.63	0.22	-0.42	0.46
KVkm2_F02	SAC2 suppressor of actin mutations 2-like	-2.10	0.00000	-1.07	0.66	0.06	-0.41	0.14
CA363935	BCL2/adenovirus E1B 19-kDa protein-interacting protein 2	-2.10	0.00023	-1.07	0.59	0.26	-0.48	0.39
EST1-3A_E07	Unknown-72	-2.10	0.00001	-1.07	0.41	0.08	-0.67	0.29
P_3	Epididymal secretory glutathione peroxidase	-2.10	0.00000	-1.07	0.75	0.14	-0.32	0.21
HK0003_D02	Unknown-192	-2.25	0.00006	-1.17	0.67	0.24	-0.50	0.37
utu04f03	NB thymosin beta	-2.27	0.00000	-1.18	0.71	0.22	-0.47	0.08
P_10	Aryl hydrocarbon receptor	-2.32	0.00001	-1.21	0.64	0.16	-0.57	0.25
CA363978	Inhibitor of kappaB kinase gamma	-2.36	0.00000	-1.24	0.59	0.23	-0.64	0.10
HK0002_D04	Unknown-171	-2.39	0.00053	-1.26	0.74	0.47	-0.52	0.28
CA366403	Heat shock 27 kDa protein-1	-2.43	0.00006	-1.28	0.70	0.20	-0.58	0.38
EXOB4_E08	Cytochrome c oxidase subunit VIIa-related	-2.47	0.00000	-1.31	0.70	0.13	-0.60	0.21
HK0001_E11	Hypothetical-fish 43	-2.47	0.00001	-1.31	0.65	0.27	-0.66	0.20
CA355893	DnaJ homolog subfamily B member 2	-2.50	0.00034	-1.32	0.53	0.50	-0.79	0.19
CA363762	Cell death activator CIDE-B	-2.53	0.00000	-1.34	0.74	0.07	-0.60	0.13
Hete0002_C06	Hypothetical protein FLJ46057	-2.55	0.00001	-1.35	0.70	0.23	-0.65	0.25
HK0003_A02	Cation-transporting ATPase	-2.55	0.00000	-1.35	0.82	0.20	-0.53	0.06
P_7	Peptide methionine sulfoxide reductase	-2.58	0.00000	-1.37	0.92	0.10	-0.45	0.30
EXOB3_H07	Hypothetical-fish 6	-2.58	0.00004	-1.37	0.54	0.43	-0.83	0.16
EXOB3_A06	Programmed cell death 10	-2.60	0.00000	-1.38	0.72	0.29	-0.66	0.14
HK0002_C03	Unknown-168	-2.72	0.00000	-1.44	0.70	0.09	-0.74	0.21
HK0002_H06	Unknown-180	-2.86	0.00009	-1.51	0.83	0.34	-0.68	0.48
CA342204	TNF receptor associated factor 3	-2.89	0.00003	-1.53	0.82	0.42	-0.71	0.11
EXOB3_G01	Unknown-122	-2.98	0.00000	-1.58	0.79	0.16	-0.79	0.24
EXOB1_F02	Transcription regulator protein BACH1	-2.99	0.00000	-1.58	0.75	0.22	-0.83	0.17
KVkm2_H11	Unknown-228	-3.01	0.00000	-1.59	0.92	0.29	-0.66	0.15
EXOB3_F09	MHC class I heavy chain-1	-3.02	0.00079	-1.60	0.77	0.56	-0.83	0.27
HK0003_G05	Unknown-201	-3.04	0.00002	-1.61	0.87	0.38	-0.74	0.36
CA351392	Guanine nucleotide exchange factor DBS	-3.13	0.00000	-1.65	0.92	0.18	-0.73	0.18
P_4	Myeloperoxidase	-3.19	0.00000	-1.67	0.79	0.20	-0.88	0.17

Table 6 cont'd: IHNV 72 hours; Genes were selected for sig diff. At a value of p<0.01, Q values are all 0

est01a07	Unknown-7	-3.44	0.00000	-1.78	1.07	0.06	-0.72	0.19
est03e08	Hypothetical-fish 36	-3.60	0.00059	-1.85	0.92	0.51	-0.92	0.20
CA366489	Multidrug resistance protein 3-1	-3.78	0.00000	-1.92	0.85	0.33	-1.06	0.10
CA378435	Protein phosphatase 2C delta isoform	-3.87	0.00000	-1.95	0.94	0.30	-1.01	0.08
CA357173	Peptidyl-prolyl cis-trans isomerase 2-2	-3.93	0.00000	-1.97	0.89	0.27	-1.09	0.17
P_19	glucocorticoid receptor (GCR)	-4.24	0.00000	-2.08	1.33	0.10	-0.76	0.26
CA358107	Ectonucleoside triphosphate diphosphohydrolase 1	-4.25	0.00000	-2.09	0.96	0.27	-1.13	0.11
EXOB4_B09	Macrophage receptor MARCO	-4.42	0.00000	-2.14	0.81	0.41	-1.33	0.12
EXOB1_B02	Hypothetical-fish 34	-4.48	0.00000	-2.16	0.74	0.18	-1.42	0.22
HK0002_G04	Fructose-bisphosphate aldolase A	-4.80	0.00000	-2.26	1.11	0.20	-1.15	0.28
CA384134	G1/S-specific cyclin D2	-4.93	0.00000	-2.30	1.49	0.33	-0.81	0.27
EST1-3A_H03	Unknown-76	-5.18	0.00000	-2.37	1.00	0.35	-1.37	0.14
est03f04	F-box/WD-repeat protein 11	-5.28	0.00000	-2.40	1.07	0.29	-1.33	0.25
CA368716	Membrane-bound transcription factor site 2 protease	-5.31	0.00000	-2.41	1.19	0.17	-1.22	0.11
CA384029	Chromobox protein homolog 4	-5.47	0.00000	-2.45	1.18	0.12	-1.27	0.18
EXOB3_A01	Unknown-103	-5.54	0.00000	-2.47	1.06	0.34	-1.41	0.08
EXOB4_H01	Unknown-132	-5.99	0.00000	-2.58	1.15	0.25	-1.43	0.30
EST1-3A_H05	Adenosine deaminase 3	-6.23	0.00000	-2.64	1.04	0.35	-1.59	0.10
EXOB1_B03	Unknown-81	-6.29	0.00000	-2.65	1.09	0.22	-1.56	0.14
HK0001_H12	Unknown-162	-6.44	0.00000	-2.69	1.17	0.31	-1.52	0.08
HK0002_H10	Unknown-182	-6.59	0.00000	-2.72	1.35	0.32	-1.37	0.23
est04c02	Unknown-53	-6.62	0.00000	-2.73	1.20	0.24	-1.53	0.14
EXOB4_E09	Hypoxanthine-guanine phosphoribosyltransferase	-6.63	0.00000	-2.73	1.26	0.24	-1.47	0.12
est02b02	PEST-containing nuclear protein	-6.85	0.00000	-2.78	1.26	0.24	-1.52	0.13
est04f10	Hypothetical-fish 1	-7.01	0.00000	-2.81	1.35	0.29	-1.46	0.15
EST1-3A_G03	Unknown-74	-7.55	0.00000	-2.92	1.26	0.23	-1.66	0.09
CA378361	Ubiquitin ligase SIAH1	-7.82	0.00000	-2.97	1.40	0.23	-1.57	0.13
EXOB2_G11	Stanniocalcin-1	-9.69	0.00000	-3.28	1.54	0.11	-1.74	0.20

Table.7: Primer sets for QPCR

QueryID	Clone name	Primer Fwd	Primer Rev
CA362758	Cyclophilin-2	CTTCATCTGCACTGCTAACA	TAAGGGAGGGGTAGAAGGAA
CA370329	Lysozyme C precursor	ATGGATGGCTACGCTGGAAAC	AACACCACACGCTTGGCACAAC
CA374193	C-X-C chemokine receptor type 4 (CXCR-4)	TGTCTCAACCCCATCCTTTA	AAAATGTAAGTGGCAACTAC
CA383795	Allograft inflammatory factor-1 (AIF-1)	GCAAGGAGGGAAAGCATTTGG	AACAGAACGTGTCTCGTGCAGC
EST1-3A_G08	Granule cell differentiation protein(myotrophin).	GCATAATATTCCCTTTGAGT	CACAACGATGCCAGAGAGA
EXOB2_A01	MHC class II invariant chain-like protein 1	TTGAGAGAACTTGGACGC	TGGTGCCCTGGATGACTTTG
CA362758	N-myc downstream regulated protein-2	CTTCATCTGCACTGCTAACA	TAAGGGAGGGGTAGAAGGAA
EXOB3_F09	B-cell receptor-associated protein BAP37-2	TTGCTGGTGCTGGGAATAGG	TCACTGGGGTAGAAACCTGTCG

Table.8: QPCR validation of specific clones.

QueryID	Clone name	LPS Array 24hr FC	QPCR	IHNV Array 24hr FC	QPCR
CA362758	Cyclophilin-2	-1.33	-2.30	-2.09	-3.90
CA370329	Lysozyme C precursor	1.08	-1.55	-2.34	-5.00
CA374193	Chemokine receptor CXCR4	-2.77	-2.45	-1.04	-4.17
CA383795	Allograft inflammatory factor-1	-1.12	-2.63	-1.51	-3.59
EST1-3A_G08	Granule cell differentiation protein (myotrophin)	-1.00	-1.40	1.02	-2.96
EXOB2_A01	MHC class II invariant chain-like protein 1	-2.02	-1.00	-2.22	-6.89
EXOB3_E09	N-myc downstream regulated protein-2	-1.48	-0.60	-1.02	-2.68
HK0002_B10	B-cell receptor-associated protein BAP37-2	-1.00	-0.70	-1.44	-3.95