

Supplementary File 1. Primers used in the present study.

Gene name	Abbreviation	Num.	Sequence (5' – 3')	Reference
<i>Glutathione peroxidase</i>	<i>gpx</i>	BG934453	F: GATTCGTTCCAAACTTCCTGCTA R: GCTCCCAGAACAGCCTGTTG	[1]
<i>Glutathione reductase</i>	<i>gr</i>	BG934480	F: CCAGTGATGGCTTTTTTGAACCT R: CCGGCCCCCACTATGAC	[1]
<i>Glutathione S-transferase</i>	<i>gsta</i>	NM_001141492	F: AGGGCACAAGTCTAAAGAAGTC R: GTCTCCGTGTTTGAAGCAG	[2]
<i>Manganese superoxide dismutase</i>	<i>mnsod</i>	DY718412	F: GTTTCTCTCCAGCCTGCTCTAAG R: CCGCTCTCCTTGTCGAAGC	[1]
<i>Copper/Zinc superoxide dismutase</i>	<i>cu/znsod</i>	BG936553	F: CCACGTCCATGCCTTTGG R: TCAGCTGCTGCAGTCACGTT	[1]
<i>Catalase</i>	<i>cat</i>	BG935638	F: GGGCAACTGGGACCTTAGT R: GCATGGCGTCCCTGATAAA	[3]
<i>Interleukin 1β</i>	<i>il1b</i>	AY617117	F: AGGACAAGGACCTGCTCAACT R: CCGACTCCAACCTCAACACTA	[4]
<i>Interleukin 10</i>	<i>il10</i>	EF165029	F: GGGTGTCACGCTATGGACAG R: TGTTTCCGATGGAGTCGATG	[4]
<i>Interleukin 13 receptor 1 alpha</i>	<i>il13ra</i>	KY432362	F: ACCAATCAGTCCCAGAAGA R: GATGAACCGTTGAGAGTCCC	[5]
<i>Interferon c</i>	<i>ifnc</i>	NM_001279097.1	F: ATGTATGATGGGCAGTGTGG R: CCAGGCGCAGTAACTGAAAT	[6]
<i>Heat shock protein 70</i>	<i>hsp70</i>	BG933934	F: CCCCTGTCCTGGGTATTG R: CACCAGGCTGGTGTCTGAGT	[1]
<i>Heat shock protein 90</i>	<i>hsp90</i>	contig03769	F: CCACCATGGGCTACATGATG R: CCTTCACCGCCTTGTCATTC	[3]
<i>Elongation factor alpha-1</i>	<i>ef1a</i>	BG933853	F: GAATCGGCTATGCCTGGTGAC R: GGATGATGACCTGAGCGGTG	[7]
<i>B-actin</i>	<i>actb</i>	XM_014194537	F: CCAAAGCCAACAGGGAGAA R: AGGGACAACACTGCCTGGAT	[8]
<i>Acidic ribosomal protein</i>	<i>arp</i>	XM_014167939	F: TCATCCAATTGCTGGATGACTATC R: CTTCCACGCAAGGACAGA	[8]

1. Solberg, M.F.; Kvamme, B.O.; Nilsen, F.; Glover, K.A. Effects of environmental stress on mRNA expression levels of seven genes related to oxidative stress and growth in Atlantic salmon *Salmo salar* L. of farmed, hybrid and wild origin. *BMC Res Notes* **2012**, *5*, 672–672, doi:10.1186/1756-0500-5-672.
2. Lazado, C.C.; Voldvik, V. Temporal control of responses to chemically induced oxidative stress in the gill mucosa of Atlantic salmon (*Salmo salar*). *Journal of Photochemistry and Photobiology B: Biology* **2020**, 111851.
3. Olsvik, P.A.; Vikeså, V.; Lie, K.K.; Hevrøy, E.M. Transcriptional responses to temperature and low oxygen stress in Atlantic salmon studied with next-generation sequencing technology. *BMC Genomics* **2013**, *14*, 817, doi:10.1186/1471-2164-14-817.
4. Ingerslev, H.-C.; Rønneseth, A.; Pettersen, E.F.; Wergeland, H.I. Differential Expression of Immune Genes in Atlantic Salmon (*Salmo salar* L.) Challenged Intraperitoneally or by Cohabitation with IPNV. *Scandinavian Journal of Immunology* **2009**, *69*, 90–98, doi:10.1111/j.1365-3083.2008.02201.x.
5. Sequeira, A.; Castillo, A.; Cordero, N.; Wong, V.; Montero, R.; Vergara, C.; Valenzuela, B.; Vargas, D.; Valdés, N.; Morales, J., et al. The Atlantic salmon interleukin 4/13 receptor family: Structure, tissue distribution and modulation of gene expression. *Fish & Shellfish Immunology* **2020**, *98*, 773–787, doi:<https://doi.org/10.1016/j.fsi.2019.11.030>.
6. Jenberie, S.; Thim, H.L.; Sunyer, J.O.; Skjædt, K.; Jensen, I.; Jørgensen, J.B. Profiling Atlantic salmon B cell populations: CpG-mediated TLR-ligation enhances IgM secretion and modulates immune gene expression. *Scientific Reports* **2018**, *8*, 3565, doi:10.1038/s41598-018-21895-9.
7. Garcia de la serrana, D.; Johnston, I.A. Expression of Heat Shock Protein (Hsp90) Paralogues Is Regulated by Amino Acids in Skeletal Muscle of Atlantic Salmon. *PLoS One* **2013**, *8*, e74295, doi:10.1371/journal.pone.0074295.
8. Sanden, M.; Olsvik, P.A. Intestinal cellular localization of PCNA protein and CYP1A mRNA in Atlantic salmon *Salmo salar* L. exposed to a model toxicant. *BMC Physiology* **2009**, *9*, 3, doi:10.1186/1472-6793-9-3.