

Histological and transcriptomic analysis of muscular atrophy associated with depleted flesh pigmentation in Atlantic salmon (*Salmo salar*) exposed to elevated seawater temperatures

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Supplementary File 5. Primers designed for validation of *in silico* expression values determined by RNA-Seq analysis

Gene	Forward primer	Reverse primer
collagen alpha-1(I) chain (<i>cola1i</i>)	gattcgacatgggcttcatt	gaagtgcggaagggatcg
collagen alpha-1(XI) chain (<i>cola1xi</i>)	aacgtccgccagtacaagat	gagacctgggacacatcctc
collagen alpha-1(XII) chain (<i>cola1xii</i>)	ggtgagatcggacaacgtg	agggccaagcagacctcta
leptin receptor (<i>lepr</i>)	taacagccaacgtgtccaac	gcggagggacaatgagaat
ATP-dependent 6-phosphofructokinase, muscle type (<i>atpd6p</i>)	acggaaacccattagctct	agtggtaggggtgtcaaagc
troponin C, skeletal muscle (<i>tnc</i>)	ttcctttgtgacctttcca	ggcttaaattttgtatttgatttcc
apolipoprotein C-I (<i>apoci</i>)	agatgaaggccaagatcgac	tagacaggcagggtctgagg
apolipoprotein Eb (<i>apoeb</i>)	gtgtggagccctttgtgagt	Gttcttcagaaggctcagtgaagc
actin, alpha skeletal muscle 2-like (<i>acta2</i>)	gtaacgagcgtttccgttg	ggcagactccataccaatgaa
tropomyosin beta chain (<i>tpmsb</i>)	cttcctcctcctcctcctcc	tggaggatgtctgaacccca
thymosin beta (<i>thymb</i>)	tgaagaggacgtgaggagga	aaacaaagtgttttgttgacg
myostatin 1b (<i>myo1b</i>)	gcagatcatctacggcaagat	agcagaactcccgtcac
lipoprotein lipase-like (<i>lipase</i>)	ggtgacctcctgatggtaaagt	atggatgaggctgaccagtt
fatty acid-binding protein, intestinal-like (<i>fabpi</i>)	ccacatcagcagacagataatca	ccgtttgcctcccttttat
cathepsin L1-like (<i>catl</i>)	gcattccgtttatttgaacttttc	aactgacatgttatgtgctagagactg
lipase, hormone-sensitive (<i>lipe</i>)	cattggttacaacgccaaga	cagcacgggtcttcaggta
calsequestrin-like (<i>calse</i>)	agatgacttccgctgctt	tggggagagcctaggtcaat
heat shock 70 kDa protein 4 (<i>hsp70</i>)	agatcgttgaagcttataaaaccaa	cgccatctgacaatgggtgt