

Table S2. List of primers for reference genes and muscle-related genes used in this study.

Gene name	GenBank Accession Number	Primer sequences	Annealing Temperature (°C)	E	Amplicon size (bp)	Reference
<i>arp</i>	EX741373	F: TGATCCTCCACGACGATGAG R: CAGGGCCTTGCGAAGA	60	98	113	Olsvik et al..2008
<i>eef1a</i>	EX721840	F: CACTGCGGTGAAGTCCGTTG R: GGGGTCGTTCTTGCTGTCT	60	93	79	Lilleeng et al.. 2007
<i>ubi</i>	EX735613	F: GGCCGCAAAGATGCAGAT R: CTGGGCTCGACCTCAAGAGT	60	98	69	Olsvik et al.. 2008
<i>luc</i>	M15077	F: TCATTCTTCGCCAAAAGCACTCTG R: AGCCATATCCTTGTCGTATCCC	60	na	198	Campos et al.. 2012
<i>myoD</i>	AF329903	F: GGCATGATGGATTTCAACGG R: CTCGAGAGGCACTCCAGGCT	60	89	128	This study
<i>myoG</i>	JQ582407	F: AACTTCGACCGCATGCTGG R: GGTGGTGGATCCAGCCCTC	60	78	121	Nagasawa et al.. 2012
<i>myf5</i>	JQ619514	F: GACCTCGACAGGATCGTAGAG R: CTGCACTTCCAGGTAGAGCT	66	78	140	Nagasawa et al.. 2012
<i>myf6</i>	KC204827	F: GCAGCGCCATCAGCTACATC R: GGTCTGCAGAGGCTGCAACTTC	66	77	165	This study
<i>myhc</i>	AY093703	F: CAGAAGCTATAAAAAGGTGTCCG R: GCAGCCATTCTTCTTATCCTCCTC	60	79	86	Koedijk et al.. 2010
<i>pcna</i>	KC204826	F: CCTCAGCAGTATGTCAAAGATCC R: GATGGTTTCAAACACAAGAACGAG	60	74	105	This study
<i>mstn</i>	AF500271	F: GGCCACAGAGCCTGACCCCA R: TCCGTCCGTAACGGGCGTCAG	60	126	184	This study
<i>foxk2</i>	KC204825	F: CAACTCCTGTCCGTC AAGTC R: CTTTGAGTCATCCTTGGGACTG	64	75	148	This study
<i>mbnl</i>	KC204824	F: AATATTGTGCATGGGACCTG R: TATCGGAATCTGATTGGCTGAG	63	90	126	This study

na = not used for qPCR analysis

Olsvik PA, Søfteland L, Lie KK (2008) Selection of reference genes for qRT-PCR examination of wild populations of Atlantic cod *Gadus morhua*. BMC Research Notes 1.

Lilleeng E, Frøystad MK, Vekterud K, Valen EC, Krogdahl Å (2007) Comparison of intestinal gene expression in Atlantic cod (*Gadus morhua*) fed standard fish meal or soybean meal by means of suppression subtractive hybridization and real-time PCR. Aquaculture 267: 269-283.

Campos C, Valente LMP, Fernandes JMO (2012) Molecular evolution of zebrafish dnmt3 genes and thermal plasticity of their expression during embryonic development. Gene 500: 93-100.

Nagasawa K, Giannetto A, Fernandes JMO (2012) Photoperiod influences growth and MLL (mixed-lineage leukaemia) expression in Atlantic cod. PLoS ONE 7.

Koedijk RM, Le François NR, Blier PU, Foss A, Folkvord A, et al. (2010) Ontogenetic effects of diet during early development on growth performance, myosin mRNA expression and metabolic enzyme activity in Atlantic cod juveniles reared at different salinities. Comparative Biochemistry and Physiology - A Molecular and Integrative Physiology 156: 102-109.