**Supplementary Table 2.** Primers used for qPCR and PCR analysis

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| --- | --- | --- | --- | --- |
| **Transcript** | **Primer sequence (5’→3’)** | **Amplicon (bp)** | **Ta** | **Accession no** |
| *fads2d6* | F: TCCTCTGGTGCGTACTTTGT | 163 | 59˚ C | NM\_001123575.2a |
| R: AAATCCCGTCCAGAGTCAGG |
| *fads2d5* | F: GCCACTGGTTTGTATGGGTG | 148 | 59˚ C | NM\_001123542.2a |
| R: TTGAGGTGTCCACTGAACCA |
| *elovl2* | F: GGTGCTGTGGTGGTACTACT | 190 | 59˚ C | NM\_001136553.1a |
| R: ACTGTTAAGAGTCGGCCCAA |
| *elovl5a* | F: TGTTGCTTCATTGAATGGCCA | 150 | 59˚ C | GU238431.1a |
| R: TCCCATCTCTCCTAGCGACA |
| *elovl5b* | F: CTGTGCAGTCATTTGGCCAT | 192 | 59˚ C | NM\_001136552.1a |
| R: GGTGTCACCCCATTTGCATG |
| *il1b* | F: CCCGTCCCCATTGAGACTAAA | 73 | 60˚ C | NM\_001123582.1a |
| R: AGCAGGACAGGTAGAGGTTGGATC |
| *tnfα* | F: CGTGCAGTGGAGAAAGGATGA | 96 | 60˚ C | NM\_001123590.1a |
| R: AAGAAGAGCCCAGTGTGTGGG |
| *cath* | F: TGGAGGCTAGCAACAACCTGA | 103 | 60˚ C | AY728057.1a |
| R: GCTTGGCTTCTTCTTGTCCGA |
| *cox2* | F: CAGTGCTCCCAGATGCCAAG | 100 | 60˚ C | AY848944.1a |
| R: GCGAAGAAGGCGAACATGAG |
| *inos* | F: GTCCCAGGGTCCTTAGC | 91 | 59˚ C | CX727409a |
| R: AAGAAACACCTATGTGAGAATGC |
| *hepc* | F: TCAATCAACTTTGGACTCG | 362 | 55˚ C | XM\_014170044.1a |
| R: GGCTCGACGCTTGAACCTG |
| *cfl2* | F: AGCCTATGACCAACCCACTG | 224 | 60˚ C | TC63899b |
| R: TGTTCACAGCTCGTTTACCG |
| *ef1a* | F: CTGCCCCTCCAGGACGTTTACAA | 175 | 60˚ C | AF321836a  |
| R: TGTTCACAGCTCGTTTACCG |
| *rpl2* | F: CTGCCCCTCCAGGACGTTTACAA | 112 | 60˚ C | XM\_014137227.1a |
| R: TGTTCACAGCTCGTTTACCG |

a GenBank (<http://www.ncbi.nlm.nih.gov>)

bAtlantic salmon Gene Index (http://compbio.dfci.harvard.edu/tgi)

*fads2d6*, delta-6 fatty acyl desaturase; *fads2d5*, delta-5 fatty acyl desaturase; *elovl2*, fatty acyl elongase 2; *elovl5a*, fatty acyl elongase 5 isoform a; *elovl5b*, fatty acyl elongase isoform b;*il1b*, interleukin 1 beta; *tnfα*, tumor necrosis factor alpha; *cath*, cathelicidin; *cox2*, cyclooxygenase 2; *inos*, inducible nitric oxide synthase; *hepc*, hepcidin; *cfl2*, cofilin2; *ef1a*, elongation factor 1 alpha, *rpl2,* ribosomal protein L2.