

Supplemental Table 1. Sequences and annealing temperatures (only for qPCR) of the primer pairs used and accession numbers of the sequences used as references for primer design in the cloning of *Chirostoma estor fads2* (isoforms a and b) and *elovl5* cDNA sequences, and for quantitative real-time PCR (qPCR) analysis of gene expression in selected tissues.

Aim	Transcript	Primer	Primer sequence	Annealing temperature (°C)	Accession No <sup>1</sup> .
5' RACE PCR	<i>fads2a</i>	CEFaR1	5'-CTGGCTGGACTCTGTCTGC-3'		KJ417838
		CEFaR2	5'-TGCACGAACTTCTGATCAGG-3'		
	<i>elovl5</i>	CEE5R1	5'-GCTCTTCATGTACTTGGGCC-3'		KJ417837
		CEE5R2	5'-TAAGTGCAAAGGTTGGAGGG-3'		
3' RACE PCR	<i>fads2a</i>	CEFaF1	5'-GCTCGTTGGCTCTCATGACA-3'		KJ417838
		CEFaF2	5'-GATCATGAGCGAAAGCAGG-3'		
	<i>fads2b</i>	CEFbF1	5'-GGCTCATTGGTGCTTATCTTC-3'		KJ417839
		CEFbF2	5'-GGGACACAAAGACTGGTTAAGG-3'		
	<i>elovl5</i>	CEE5F1	5'-GACCGCCTCTGCAGTCATAT-3'		KJ417837
		CEE5F2	5'-GATGGCTCCTCTTCCAAACA-3'		
ORF cloning	<i>fads2a</i>	CEFVF	5'-CCCAAGCTTACGATGGGAGGTGGAGG-3'		KJ417838
		CEFaVR	5'-CCGGAGCTCCGGTCATTTATGAAGATATGCG-3'		
	<i>fads2b</i>	CEFVF	5'-CCCAAGCTTACGATGGGAGGTGGAGG-3'		KJ417839
		CEFbVR	5'-CCGGAGCTCTCATTATGGAGATATGCATCC-3'		
	<i>elovl5</i>	CEE5VF	5'-CCCAAGCTTAAAATGGAGACCTTCAACAACAATC-3'		KJ417837
		CEE5VR	5'-CCGGAGCTCTCAATCCACTCTCAGCTTCT-3'		
qPCR	<i>fads2a</i>	qCEFaF	5'-TGCATTCTGCTTTTGCAACT-3'	60	KJ417838
		qCEFaR	5'-CGTCCCACAAGAACAAAAGG-3'		
	<i>fads2b</i>	qCEFbF	5'-GTTGCATGGGAAGACCGTTT-3'	55	KJ417839
		qCEFbR	5'-ATATGCTCGAAAAGCCGATG-3'		

<i>elov15</i>	qCEE5F	5'-AATGCTGCAAAAAGGAAGTGC-3'	60	KJ417837
	qCEE5R	5'-CGCTTTGGATAAAAAGCGTGT-3'		
<i>ef-1<math>\alpha</math></i>	qCEEFF	5'-CGTTGGTGTCAACAAGATGG-3'	60	KJ439615
	qCEEFR	5'-CTCCATGCCATCCAGAGATT-3'		

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<sup>1</sup> GenBank (<http://www.ncbi.nlm.nih.gov/>)