

Table S1. The information of the primers for RT-qPCR

Gene annotation	Gene symbol	Forward	Reverse	Amplicon size (bp)
brain aromatase	<i>cyp19a1b</i>	ATTGCTCGGGTTTGGAT	GGTAGCGTTGACGGATA	255
somatolactin alpha	<i>sla</i>	CCACAGCAAGTCCTTCCCAA	GCAAATACACCAGCGGTTCG	122
estrogen receptor beta 2	<i>erβ2</i>	CTGATGTTGGGACTGATGTG	GAAGGATCATGGCTTTGAGG	202
luteinizing hormone-beta	<i>lhβ</i>	TATTCTGTTTAGTTGTCATGC	AAAGTACCTTTGTTAGACAG	159
follicle-stimulating hormone beta	<i>fshβ</i>	GCTGTATCACAATCGACACC	GGTGAAAACAGAGTCAACC C	170
Prolactin	<i>prl</i>	TCTCTACTGCTTGCGTGGTC	CGCTCCAAACCTGCTTCCAA	143
estrogen receptor beta 1	<i>er</i>	CTGATGTTGGGACTGATGTG	GAAGGATCATGGCTTTGAGG	202
vitellogenin 2	<i>vtg2</i>	TGAATGAGAAAGTCGCTGCA	GCAGAGTAGTAGCCGCAGTT	270
vitellogenin 4	<i>vtg4</i>	GACCGCAGCCTTGCCAAATC	AGCCAGGTCAGAATGTCCTC	156
vitellogenin C	<i>vtgC</i>	CAGGACAACCTCCCTCAGCTT	AGAGCTTTCTTTCCCTGCGG	218
NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 5	<i>ndufb5</i>	TGTTGCACGCACAGAACAAG	CCAACGAGTGATGGGATGCT	253
NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 9	<i>ndufb9</i>	TGAAAGCCACCCTAATGTTG	TGATGAGCACACATACCTCT	252
succinate dehydrogenase cytochrome b560 subunit, mitochondrial-like	<i>sdh3</i>	GTTTCACCCCATGTAAGCAT	AGAACCATAGACTTGCGGTA	300
cytochrome c oxidase subunit 6A, mitochondrial-like	<i>cox 6</i>	TTTCAGTGCATCCGTAAAGA	CACCACGAACGACAATATCT	148

cytochrome c oxidase subunit 7A-related protein, mitochondrial-like	<i>cox7α</i>	GCAGTCCACTACATGGGAAT	GCTCATTGTGGTCCTATAACA	126
cytochrome c oxidase assembly protein COX15 homolog	<i>cox 15</i>	TCCTTCCCAAAAATGGGCGA	AGCGATGTGGGAACGTAAC A	275
ATP synthase subunit alpha	<i>atp1</i>	CGGATTCGTGTCCAAAAATG	AATCTTCTCCTCCAGAATGC	121
ATP synthase	<i>atp4</i>	TGTCGAGATTGGTGTTTGT	CAGCAAATGTCTCGTGATTG	288
low-density lipoprotein receptor-related protein 4	<i>lrp-4</i>	TGTTTCACCATCATCGAACT	GACAACGTCAGCAAAGTAA G	239
low-density lipoprotein receptor-related protein 12 isoform X1	<i>lrp-12</i>	GGCTTCCAGTGGTGTAATAA	TGTCATCAGAGTGGAACCTG	272
ryanodine receptor 3	<i>RyR3</i>	TGCAGTGTGTGGCGTCTATT	TTTTGGCGAGCATCTCCTGT	189
Troponin I, slow skeletal muscle	<i>TnI</i>	CCCTAAGAAGGGTGAGGGTCT	ACAGACTTGAGGTTCGCTCT C	100
troponin C, skeletal muscle	<i>TnC</i>	GATGCTTGCCGAGTTTAAGGC	CTGACCCAGCATCCTCATCA C	103
elongation factor 1-α	<i>ef1α</i>	CTGGAGACAGCAAGAACGACC CACC	GGCAATCCAGCACTGGAGC ATAGCC	114