

S3 File. LSOs accession codes, Real time PCR primer sequences and PCR efficiencies. Primers used for qPCR amplification of the LSOs *akt2*, *atf4*, *cdc42bpa*, *chuk*, *EIF3J*, *FST*, *GRB2*, *IGF2*, *IGF2BP2*, *IGFBP3*, *MEF2D*, *MYOD*, *PIK3CA*, *PIP4K2A*, *RAF1*, *RICTOR*, *RRAGC*, *TGFB1*, *TGFB3* and *TRIM63*. Primers were also designed for the reference genes *rpl13*, *rpl19* and *ppiaa*, and also for the *fbxo32* to prove the efficacy of fasting-refeeding treatments. Accession code based on European Nucleotide Archive - ENA (accession number PRJEB6656) for pacu (Mareco et al., 2015) and Ensembl Genome Browser 102 database (<https://www.ensembl.org>) for Nile tilapia.

Gene	Accession Code	Primers (5' to 3')	E (%)	Tm (°C)
<i>akt2</i> pacu	comp144275_c3_seq41	F: CCAATGCTGAGAGGGAAGAG R: GTTGATGTCCATTGGCTCCT	96	80
<i>akt2a</i> tilapia	ENSONIP00000006025	F: AACCAATGGATGTTCTCAGC R: GGACATAACCGCTTCCATCT	102	75
<i>akt2b</i> tilapia	ENSONIP00000006516	F: CTCCCCGAGTGACAGCAGTGG R: CTGTTGCCTTCTCCTTCACC	99	81
<i>atf4</i> pacu	comp145578_c0_seq1	F: GGAGCAAGAACCACCACAAT R: GGGCAGTGAAGTGGACATCT	104	84
<i>atf4a</i> tilapia	ENSONIP00000016467	F: GTTGGAGCAGATGATGGCA R: TCCAATGAAAGACTCCAGGTC	97	77
<i>atf4b</i> tilapia	ENSONIP00000010752	F: GGATGTGCTCAGTGACTTGG R: CAGTGAGTCCAGGTCAAGGTC	99	77
<i>cdc42bpaa</i> pacu	comp123183_c0_seq3	F: GGCACCTCTGACTTGTCCCTC R: ACCTCTCTGATGGTGGGACT	96	83
<i>cdc42bpab</i> pacu	comp145167_c3_seq39	F: GATCTTCCAGTCGGGGTC R: CTCCGTCTAACACCCCATCAC	100	84
<i>cdc42bpa</i> tilapia	ENSONIP00000001562	F: GTGAGCGGGAAGAGTTTGAG R: TTTCTTCGGTGAGCAGGACT	98	77
<i>chuk</i> pacu	comp143689_c1_seq38	F: ATCGTTTGTGGGCACTCTTC R: TACGCACTTTGCTTGTCAC	95	81
<i>chuka</i> tilapia	ENSONIP00000022863	F: GCTGTTGGAGCCGATGGAGG R: AGCAGAGGGGTTTCTTGGTT	96	81
<i>chukb</i> tilapia	ENSONIP00000012095	F: CGGCACAAACAAGCCATACT R: TATCCTCAGCACCCAAAACC	95	78
<i>EIF3JA</i> pacu	comp137884_c0_seq67	F: GAGGAATCAAAAGACAGCACAG R: AAGCATCTTTCGCTAGTTCCA	98	77
<i>EIF3JB</i> pacu	comp144636_c0_seq88	F: GAGTCCCAGGCTGATGTGC R: GGGACACATGGCTTCAATTC	97	83
<i>EIF3J</i> tilapia	ENSONIP00000007868	F: ACAACAGGAGGCAATGGAAC R: AGTCCAAGTCTGCGTCTTC	97	77
<i>FSTA</i> pacu	comp143036_c0_seq11	F: AATGTCCCGAGCCTTCCACT R: CTCTGGCTCTGGCATTTCAC	96	84
<i>FSTB</i> pacu	comp144113_c3_seq1	F: CACCACCATTTCAGGAGCAG R: GAAGAACGGGAGATGTCAGG	98	84
<i>FST</i> tilapia	ENSONIP00000017943	F: GGATGCTGAAACACCACCTT R: ATGTAGAGCACCTGGCACCT	97	80
<i>grb2a</i> pacu	comp138113_c0_seq16	F: CCCATCTTCTGAGAGACATC R: GTTAGGGTCCGAGTTGTCCA	105	84

<i>grb2b</i> pacu	comp116716_c1_seq1	F: CCCTGTTTGATTTTGACCCT R: CGTAATTGCGTGGAACATT	104	83
<i>grb2</i> tilapia	ENSONIP00000010393	F: TATAGAGCAGGTCCCCCAGA R: ACCAGTTGGGGTCAGAGTTG	97	83
<i>igf2a</i> pacu	comp133875_c0_seq2	F: AGAAGGCTCAAAGGCTCAGG R: CTGTTGGGCACGGTCATC	101	83
<i>igf2b</i> pacu	comp133875_c0_seq1	F: CAACTTCCACAAGCCTCTCATCTC R: CGTAGTCTTCTGTGGGATGC	99	79
<i>igf2</i> tilapia	ENSONIP00000018238	F: CCCAGCAAAGATACGGACAT R: CCTCTGGACCTTCATTCTGC	100	79
<i>igf2bp2a</i> pacu	comp140394_c4_seq8	F: CCTGATGCTCCTGAGAGAATG R: GCGGGGACTTTGATATGTGT	96	82
<i>igf2bp2b</i> pacu	comp59776_c0_seq2	F: GCTGCGGAGAAACCTATCAC R: AACCTCCTCAGCAGTTTTGG	99	81
<i>igf2bp2</i> tilapia	ENSONIP00000011355	F: CAGAAGGAAGCCAACGAGAC R: TCCCTGTGTCCTCCTCAATC	103	83
<i>igfbp3</i> pacu	comp129938_c2_seq1	F: TTCGTAGCCTGGCAGAGACT R: GTTCCGCAATCCAAACTGT	97	80
<i>igfbp3a</i> tilapia	ENSONIP00000008019	F: CGTTGGAAGTGTGAAGGATG R: GCTCTGGGTCTTCTGTTCTC	105	79
<i>igfbp3b</i> tilapia	ENSONIP00000012146	F: GGGCTCATTTGTCAACATCA R: CATTGACTGGCACTGTTGGT	96	81
<i>mef2d</i> pacu	comp141550_c0_seq12	F: CTTGCTGCTTTGTGAGGTGA R: CCTCCTCTCTGTCTCCAACG	96	84
<i>mef2da</i> tilapia	ENSONIP00000024882	F: GACCAAAGTCCCTTAATGATG R: TTGACTGTCCGTAGCGTTTG	99	76
<i>mef2db</i> tilapia	ENSONIP00000001942	F: AAAGCCCGCTAAATGACCG R: ATACTGGCACGGTGACTGG	99	83
<i>myod</i> pacu	comp144727_c1_seq4	F: GTTCGTCGCTTCCTCTTGC R: ACCCGTGCTTTAACACCAAC	101	88
<i>myod1</i> tilapia	ENSONIP00000013575	F: GACAGCAGCTCTTATTTCTC R: GCTGCTGTTATCGGTGGAGAT	101	83
<i>myod2</i> tilapia	ENSONIP00000009955	F: GCTCTGATGGCTTGTTGG R: CAATGCTGGACAAACAGTCC	92	80
<i>pik3ca</i> pacu	comp141601_c0_seq36	F: ACGAATGCCAAACCTTATGC R: CGTATCCTCAGGGTGCTGTT	95	83
<i>pik3caa</i> tilapia	ENSONIP00000010535	F: TCTCAGGGCAGAGCAATCG R: TGTCTCAACTGCTCGGTGTC	100	79
<i>pik3cab</i> tilapia	ENSONIP00000013444	F: CTCCCCTGTCAAGTTTCCTG R: CTGTCAAGTCAGGGGGTTGTC	95	80
<i>pip4k2aa</i> pacu	comp121239_c0_seq1	F: TTCGTGCTAATGTCTGTCCG R: CGTTAGCCTGTTAGCCTGTCA	98	83
<i>pip4k2ab</i> pacu	comp140051_c0_seq2	F: CACAAGTGAGCACAAAGCG R: GTCTCCCAGCAACAGCCTAA	101	82
<i>pip4k2a</i> tilapia	ENSONIP00000018162	F: TGTCTTCTCTCACCGCCTTT R: ATCTTCTGCCCATCGTTGAT	99	80
<i>raf1a</i> pacu	comp141875_c1_seq33	F: CTAAGCAATGGGCTAGGAATG R: GAATGGTGCTGCTTGTTTTG	98	81
<i>raf1b</i> pacu	comp139101_c4_seq33	F: CCTCAGTAATGGGTTTGGCT R: GAGGAGCGTCGTTGATAAGG	97	78
<i>raf1</i> tilapia	ENSONIP00000021654	F: CTGCCTTTCTCCGACCATAG R: TGCTGGTTTGGGAGGTAGAC	95	83
<i>rictora</i> pacu	comp144775_c0_seq10	F: GCGGAGTCTCCAGAGTAACG R: CTTCACTGAGCACAGGGTC	96	83

<i>riCTORB</i> pacu	comp144775_c0_seq9	F: CGCAACCGCTTTCTTATCTC R: TTAGGGTCGCTGTTGAGCTT	97	83
<i>riCTOR</i> tilapia	ENSONIP00000013607	F: AAGAGGCTTCAGCAGCAGAG R: AACCTGCGGGGAGTTAGTCT	95	81
<i>rragc</i> pacu	comp138962_c0_seq14	F: GCAACTGAGGGATGAGCTTC R: CACCAGCGAGCTAATGATGA	99	79
<i>rragca</i> tilapia	ENSONIP00000020531	F: CCTTGTTTCTGGAGAGCAC R: GAAGGTGGGGTCAAAGAAGTC	100	80
<i>rragcb</i> tilapia	ENSONIP00000017182	F: GAGGATAGCCCGACATCAGC R: CCTTCTGTATGGAGGATTTGC	97	80
<i>tgfb1a</i> pacu	comp136705_c0_seq7	F: TAGAGGATTGGAAGGGGGTC R: CCAAAGGATACTTCGCCAAC	97	81
<i>tgfb1b</i> pacu	comp139916_c0_seq9	F: CTTGAGGTAAGCTGACTGTGGC R: CAAAGACTTTTCGCCTCCAAA	97	80
<i>tgfb1</i> tilapia	ENSONIP00000007415	F: TGTGGACTTGGAGATGGTGA R: TTCTGCTCCTCATCCTGCTT	100	82
<i>tgfb3</i> pacu	comp144011_c4_seq32	F: AACAGTCGTCCTTGGTGTCC R: GCAACTTGTCTTGGGCATTT	103	79
<i>tgfb3a</i> tilapia	ENSONIP00000025436	F: CCAGTCCGCCTCAAACAAC R: GTTATCCTGTCCGCAACTCTG	105	81
<i>tgfb3b</i> tilapia	ENSONIP00000019232	F: CCCCTATCAAATCCAAGCG R: TTGTCTTGACCGCAACTCTG	96	79
<i>trim63a</i> pacu	comp145456_c0_seq2	F: ATGTTGCTGTTGTCCATACTCTG R: ATCACATCACCCAGGAGCA	97	82
<i>trim63b</i> pacu	comp142409_c0_seq1	F: GGCTCGGGTCTCTCCTCGG R: CCAGGCGTTACGGAGACC	102	87
<i>trim63</i> tilapia	ENSONIP00000024115	F: GTTGTATCCTTCCGTGTGAG R: TCTGAGAGGCGGTAGGTGTTT	96	82
<i>rpl13</i> pacu	comp141862_c0_seq1	F: ATCAACAGGAAAGTAGCCC R: AGGATGAGTTTGGAGCGGTA	103	82
<i>rpl13</i> tilapia	ENSONIP00000007470	F: GAATGGAATGATCCTGAACC R: CAGAACGAACCTTGGTATGG	103	85
<i>rpl19</i> pacu	comp145235_c0_seq2	F: GCAAAGTGGTGAAGGATGGT R: CTTGGACTCCCTGTAACGCC	99	87
<i>rpl19</i> tilapia	ENSONIP00000020477	F: CCCAACGAGACCAATGAGAT R: CGTGCCCTTTCTCTTACCAT	95	83
<i>ppiaa</i> pacu	comp145566_c0_seq1	F: ATTGTGGTTTCGTGAAGTCGC R: CCGCTGGGCAGAGTGATTAT	105	85
<i>ppiaa</i> tilapia	ENSONIP00000000799	F: CGGGTCCCAGTTCTTCATC R: GCCGTAGGACTCCATCTTC	105	84
<i>fbxo32</i> pacu	comp145335_c1_seq5	F: TCTTTGGTGCTCCCCTTGTG R: TAAAACCGAGGACGGCTGG	96	80
<i>fbxo32</i> tilapia	ENSONIP00000009089	F: CCGAATGGAGAACATCCTG R: GCAGAGTTTCTTCCACAGCA	102	85

F, forward; R, reverse; E, PCR efficiency; T_m, melting temperature.