**Table 1**. Sequences of the primer pairs used for real-time quantitative PCR determination of the transcript level of several Gilthead sea bream genes involved in hepatic and intestinal lipid and glucose metabolism.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Gene** | **5’-3’Forward primer** | **5´-3´Reverse primer** | **EL** | **EI** | **Acession number** |
| ABCG5 | CCATCAGATGCCAGAGGTCT | GGGCAGGGAGGAAAGAGTAG | 2.00 | 1.96 | AM973022\* |
| β-actin | TCCTGCGGAATCCATGAGA | GACGTCGCACTTCATGATGCT | 1.99 | 1.96 | Pérez-Sánchez *et al.45* |
| CPT1A | GTGCCTTCGTTCGTTCCATGATC | TGATGCTTATCTGCTGCC TGT TTG | 1.95 | 2.00 | Pérez-Sánchez *et al.45* |
| CYP51A1 | CGACCATGGTGAAGCTGAAC | AAAGTGCACGACAACCTGAC | 2.00 | 1.95 | FP336501\* |
| DHCR7 | GGTATCTAGGCTGGGGTGAC | TCAGTACGGCGGAATAGGTC | 1.9 | 1.99 | CB184694\* |
| Elovl5 | TGCCAGGACACTCACAGTGC | GGACGAAGCTGTTTAGGGAGG | 1.99 | 2.00 | Diez *et al*.74 |
| FADS2, liver type | GACCATGCAGTTACAAGCCACC | TCCCCTGAGTTCTTCAGTGACC | 1.95 | nd | Diez *et al*.74 |
| FAS | TGAAACTGAAGCCCTGTGTG | TCTCGGCTGATGTTCTTGTG | 1.90 | 2.00 | AM952430\* |
| GK | CAAGAGACGAGGGGACTTCG | TCCTCGCCTTCTACCAGCTC | 1.93 | - | Enes *et al*.59 |
| GPAT | GATCCAGTACGGAGTTCTCTACG | AAAGGGGCTCGGGAAACT | 2.00 | 1.85 | Mininni *et al*.44 |
| G6Pase | CGCTGGAGTCATTACAGGCGT | CAGGTCCACGCCCAGAACTC | 1.84 | - | Enes *et al*.59 |
| LXRα | GCACTTCGCCTCCAGGACAAG | CAGTCTTCACACAGCCACATCAGG | 1.93 | 2.00 | Sánchez-Gurmaches *et al*.46 |
| PEPCK | GCAACACAGAGAGGGAGGAG | TATCCTCCAGTGCCTTCAGC | 1.78 | 1.88 | CV133734\* |
| PPARα | TCTCTTCAGCCCACCATCCC | ATCCCAGCGTGTCGTCTCC | 2.00 | 1.96 | Sánchez-Gurmaches *et al*.46 |
| PPARβ | AGGCGAGGGAGAGTGAGGATGAGGAG | CTGTTCTGAAAGCGAGGGTGACGATGTTTG | 1.97 | 1.97 | Sánchez-Gurmaches *et al*.46 |
| PPARγ | CGCCGTGGACCTGTCAGAGC | GGAATGGATGGAGGAGGAGGAGATGG | 1.91 | 2.00 | Sánchez-Gurmaches *et al*.46 |
| PFK.liver type | CATGTGTGATTGGCCTCAAC | AGGGAGCCTAAAACCCAGAG | 1.93 | 2.00 | AM968607\* |

EL and EI-primer efficiency in liver and intestine. respectively. \*Sigenae accession number. ABCG5. ATP binding cassette G5; β-actin; CPT1A. carnitine palmitoyltransferase 1A; CYP51A1. Cytochrome P450 51 (Lanosterol 14-Alpha-Demethylase); DHCR7-dehydrocholesterol reductase 7; elovl5. elongase 5; FADS2. ∆6 fatty acyl desaturase liver type; FAS. Fatty acid synthase; GK. glucokinase; GPAT. glycerol-3-phosphate acyl transferase; G6Pase. glucose 6-phosphatase; LXRα. Liver X Receptor; PEPCK. phosphoenolpyruvate carboxykinase; PPAR. peroxisome proliferator-activated receptor;PFK. 6-phosphofructokinase. liver type;- no expression; nd- not determined.