**Effects of dietary incorporation of linseed oil with soybean isoflavone on fatty acid profiles and lipid metabolism-related genes expression in breast muscle of chickens**

Z.Y. Gou#, X.Y. Cui#, L. Li, Q.L. Fan, X.J. Lin, Y.B. Wang, Z.Y. Jiang, S.Q. Jiang\*

*Animal*

**Table S1** *Primer sequences of Yellow-feathered chickens used for quantitative real-time PCR\**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Genes | Primer sequence (5'-3') | Accession No. | Amplicon (bp) | Ta (°C) |
| *FADS1* | F: CTTGGCGAACAAAAGAAGAAATR: CCCAGTAAGGGCAGGTAGGT | XM\_421052.5 | 200 | 60 |
| *FADS2* | F: CTGAGGAAGACAGCAGAGGACATR: GCAGGCAAGGATTAGAGTTGTG | NM\_001160428.2 | 153 | 60 |
| *ELOVL2* | F: TTTGGCTGCCTCATGTTCCAR: TGTGACGGGGGTTTCCTTTG | NM\_001197308.1 | 123 | 60 |
| *ELOVL5* | F: ATTGGGTGCCTTGTGGTCAR: AGCTGGTCTGGAAGATTGTCA | NM\_001199197.1 | 180 | 60 |
| *FAS* | F: GGTCAGTGCTGCACGAAATR: CATCTCATACACTCGTCCAAATC | NM\_001199487.1 | 137 | 58 |
| *LPL* | F: GGTGACCTGCTTATGCTAR: ATATTGCTGCCTCTTCTC | NM\_205282.1 | 187 | 58 |
| *HMGCR* | F: TGTTGTAAGGCTGCCCTCTGR: TAGGCGGGCAAACCTACTTG | NM\_204485.2 | 118 | 60 |
| *CPT1α* | F: AGGACCAAGGCTTCAGTGGTR: GGTCCACGCCCTCTAAGGTA | NM\_001012898.1 | 102 | 60 |
| *SREBP-1* | F: GCCCTCTGTGCCTTTGTCTTCR: ACTCAGCCATGATGCTTCTTC | AY029224 | 130 | 60 |

\*Ta: annealing temperature; *FADS1*: fatty acid desaturase 1; *FADS2*: fatty acid desaturase 2; *ELOVL2*: fatty acid elongase 2; *ELOVL5*: fatty acid elongase 5; *FAS*: fatty acid synthase; *LPL*: lipoprotein lipase; *HMGCR*: 3-hydroxy-3-methylglutaryl-coenzyme A reductase; *CPT1α*: carnitine palmitoyltransferase-1α; *SREBP-1*: sterol regulatory element binding protein-1.