**Animal**

**Molecular mechanisms of lipid metabolism disorder in livers of ewes with pregnancy toxemia**

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Table S1 *Primers of ovis aries genes used for quantitative real-time PCR in this study*

|  |  |  |  |
| --- | --- | --- | --- |
| Gene symbol | Primer sequence (5’-3’) | Accession number | Product size (bp) |
| *ACSL* | F: GAACTACAGGCAACCCCAAAG | XM\_015104563.1 | 137 |
| R: TGCAAGCGGTAAAAACGAAA |
| *CPT1* | F: CCTTCCCATTCCGCACTTT | NM\_001009414.1 | 171 |
| R: CGGTCTCTGTTCTGCCCTCT |
| *CPT2* | F: TGAGTGGTGGCAACAAGGAG | XM\_004001991.2 | 282 |
| R: TCTGGGGAGTGATAGCAGGG |
| *ACOX1* | F: TTTACCCCAACCTGCACCTT | XM\_015098944.1 | 297 |
| R: CTTGCTTTTTCTGCGAATCAC |
| *ACOX2* | F: CTGGAGCCCAAACAGACATG | XM\_012099805.2 | 168 |
| R: GAGCCCACTGGAACAGACGT |
| *ACADL* | F: TCAGTAATGGGTGGCTGTGTG | XM\_012156500.1 | 171 |
| R: ATTCTGCAGTATCCTGGGCTT |
| *HADHA* | F: TGATTGAAGCCGTTTTTGAGG | NM\_001136490.1 | 115 |
| R: CCGATTGGAAGAGCAGATGTG |
| *EHHADH* | F: CTACGAAACCCGCCAGTCA | XM\_004003079.3 | 263 |
| R: AGTCCCCCTCCTAAAGCCAC |
| *HADHB* | F: TGACATCCCTATTCGCCATTC | XM\_012166091.2 | 271 |
| R: TCCTTCATCCTGTGCCCTTT |
| *ACAA1* | F: ACAGAGCAAAGCGTCACCG | XM\_004018227.3 | 215 |
| R: TAGGACCTCAGGACCCCAAG |
| *ACAT* | F: TCCTCTCTGCCAGCCACTAA | XM\_015100759.1 | 292 |
| R: ACATGCTCTCCATCCCACCT |
| *HMGCS2* | F: GTTGGCTTCCTGCTCGTTCC | XM\_004002390.3 | 274 |
| R: TCCCTGCCTCCACCTTGTT |
| *HMGCL* | F: TCCACGAGACGGACTACAAAA | XM\_004005125.2 | 277 |
| R: AGAGGCGGCTCCAAAGATG |
| *HMGCS1* | F: TCCCTGGCTTCTGTTCTCG | XM\_015101308.1 | 131 |
| R: CCTGGTGTGGCATCTTGTGTA |
| *HMGCR* | F: CCAATGGCAACAACAGAAGG  R: AGTCACAAGCACGGGGAAG | XM\_004010192.3 | 145 |
| *GyK* | F: TATTTCGTCCCAGCATTTTCG | XM\_012106444.2 | 282 |
| R: GGGCATGGATGGCTTCACT |
| *GPD* | F: GCAGGAGCCAAGGGAAGAA | XM\_004006364.3 | 122 |
| R: AGGGAAAGGGGGGAAAAGG |
| *GPAM* | F: GGAATGGGGTGAGTGTGGTT | XM\_015103418.1 | 160 |
| R: AGACGGGATACTGGGGTTGA |
| *DGAT* | F: TTTTTGCTGTGGCTGCGTT | NM\_001110164.1 | 290 |
| R: CCCGTTGGCCTTCTTACCT |
| *Beta-actin* | F: TCGTGATGGACTCTGGGGA | JN\_033788.1 | 160 |
| R: GCCGTGGTGGTGAAGCTGTA |

F, forward primer; R, reverse primer; *ACSL*, long chain acyl-CoA synthase; *CPT1*, carnitine palmitoyl transferase 1; *CPT2*, carnitine palmitoyl transferase 2; *ACADL*, long chain acyl-CoA dehydrogenase; *HADHA*, hydroxy acyl-CoA dehydrogenase; *EHHADH*, enoyl-CoA hydratase; *HADHB*, 3-ketoacyl-CoA thiolase; *ACOX1*, acyl-CoA oxidation 1; *ACOX2*, acyl-CoA oxidation 2; *ACAA1*, acetyl-CoA acyltransferase 1; *ACAT*, acetyl-CoA acyltransferase; *HMGCS2*, beta-hydroxy-beta-methylglutaryl CoA (HMG-CoA) synthase 2; *HMGCL*, HMG-CoA lyase; *HMGCS1*, HMG-CoA synthase 1; *HMGCR*, HMG-CoA reductase; *GyK*, glycerol kinase; *GPD*, glycerol-3-phosphate dehydrogenase; *GPAM*, glycerol-3-phosphate acyltransferase, mitochondrial; *DGAT*, diacylglycerol acyltransferase.