**Table S1.** The primers for qPCR analysis used in this study.

|  |  |  |
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| **Unigene ID** | **Gene description** | **Sequence (5′-3′)** |
| GRMZM2G143625 | uncharacterized LOC100284973 | F: GACTACTACGTGTGCCTGGT |
|  | R: GCACAGGTAGAGATAGCGGT |
| GRMZM2G072205 | 3-oxoacyl-[acyl-carrier-protein] synthase II chloroplastic | F: ACCATACCTGCCCATTGTCA  R: TAAGATCCCATCACCTCCGC |
| GRMZM2G117064 | long chain acyl-CoA synthetase 9 | F: GGCTTGCAAAGACCTGTTGA  R: CCTCAGCTGCCAATTCAAGG |
| GRMZM2G151087 | PAS2 | F: ACTGGGTCGTCTTCTTCGGA  R: CATGGAAGACTTGCTAGTG |
| GRMZM2G013082 | uncharacterized LOC100501739 | F: GCTCGCAGTCTCGCACAT  R: ATGGCAACGAAGATGGA |
| GRMZM2G075140 | 3-ketoacyl-CoA synthase 2 | F: GTCAACCACTACAAGCTCCG |
|  | R: GGAAGAGGCAGTTGGACATG |
| GRMZM2G126010 | Actin1 | F: AGAACTGCGACTGCCTCCAAAG  R: AGATGAGCAGGGTGCCCATTC |