Supplementary Table 1 The primers of real-time PCR

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| Accession no | Genes | Sequences (5’—3’) | |
| NC\_042378.1 | *LS-NADH-1-F* | CATATCCCAAACTTCTCG | |
|  | *LS-NADH-1-R* | CGGTATAACTCACGCATT | |
| A0A8F5ANZ5 | *LS-NADH-2-F* | CATATCCCAAACTTCTCG | |
|  | *LS-NADH-2-R* | CGGTATAACTCACGCATT | |
| XM\_023876471 | *LS-NADH-3-F* | | TGAGAAGTGCGAGTATGAGC |
|  | *LS-NADH-3-R* | | GGGATAAGAGGGATGGAA |
| XM\_023878412 | *LS-ATPSYN-1-F* | AGCCACTCTTGGTCGTAT | |
|  | *LS-ATPSYN-1-R* | |  |  | | --- | --- | | TTCAGTTGCCTGCTCTAC |  | | |
| XM\_023907077 | *LS-ATPSYN-2-F* | CCACTATCTGCCAATCCA | |
|  | *LS-ATPSYN-2-R* | GCACCACCGAATAAACCA | |
| XM\_023879071 | *LS-UCP-1F* | CGAATGTTGCCCGTAATG | |
|  | *LS-UCP-1R* | CCGCACCTAAACCCGATA | |
| XM\_023903307 | *LS-UCP-2F* | AGTCTGTATGTGCCTGTTA | |
|  | *LS-UCP-2R* | TGGATTAGCCAATGTGAT | |
| LOC111910298 | *LS- Hexokinase-1-F* | GCGATGGACTAAAGGATT | |
|  | *LS-Hexokinase-1-R* | CAGTTCCCAAGATTACCG | |
| LOC 111900080 | *LS- Hexokinase-2-F* | AATGCTGCCTATGTGGAA | |
|  | *LS-Hexokinase-2-R* | AAGGGAAGATGCGATGAC | |
| LOC 111903825 | *LS- Hexokinase-3-F* | TTTGGTCCTCGCATTTAC | |
|  | *LS-Hexokinase-3-R* | TTTGGGTTCTGACTTTCG | |
|  |  |  | |
| XM\_023910376 | *Ls-Gglucosidase-1-F* | CCTATCGGAATCCACCCT | |
|  | *Ls-Glucosidase-1-R* | ATCAACGCAGTCGCAAAA | |
| XM\_052764663 | *Ls-Glucosidase-2-F* | ACAACCAACTTAGGGAGG | |
|  | *Ls-Glucosidase-2-R* | GCTTCTATCAGGACCATT | |
| LSAT\_6X56060 | *Ls-Glucosidase3--F* | ACAACCAACTTAGGGAGG | |
|  | *Ls-Glucosidase3--R* | GCTTCTATCAGGACCATT | |
| XM\_023889121 | | *LS-MDM2-5-F* | AGCAGAAGCGACAAAGAC | |
|  | | *LS-MDM2 -5-R* | TCCATTCACCCACAAGAT | |

# Note：LS: Lactuca sativa *NADH: NADH dehydrogenase; ATPSYN：ATP synthase subunit beta.*