**Table S1** Sequences of primers used in qRT-PCR.

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| **Gene ID** | **Forward primer (5'→3')** | **Reverse primer (5'→3')** |
| *Lsat\_1\_v5\_gn\_3\_67140* | GGCGAAGCACAGCATGTTGAATG | CCATCCATCCTTGCCAGATACTCCT |
| *Lsat\_1\_v5\_gn\_2\_125121* | CGTCAATTCGTCAGATCCACTCCTT | GAAGTACCTCCTCGTTCAGCACAA |
| *Lsat\_1\_v5\_gn\_1\_36821* | GGACACGGTCGTAGCAATGGA | AGTGAGAGGCGGCGAGAAGA |
| *Lactuca\_sativa\_newGene\_5834* | TTGGACGGTTGGATTGATTCTAGCA | TGACTGATGGTATCGGCGGAAGA |
| *Lsat\_1\_v5\_gn\_4\_13360* | CCTTCCGATTCTGTTGCCATCATTG | AGTCCAGCATCCATCAAGTTACCAA |
| *Lsat\_1\_v5\_gn\_8\_88260* | CTTCTTGCTCAGAGTGCGGTTCA | GGCGGTGCTTCATCCATAATAGACT |
| *Lsat\_1\_v5\_gn\_8\_80661* | TCCGTCATCTTCGTGCTCTCCAT | TTCCACTTCGTCTACGCTTCCAATG |
| *Lsat\_1\_v5\_gn\_2\_129481* | AGCCGTGGTAATCCTACAGTTGAAG | AAGGCAGGTCCGATTATTGAGTTG |
| *Lsat\_1\_v5\_gn\_4\_59260* | GTGGTGACTTGGTTGATGCTGTTG | TTGGAGGTGGTGGAGAGGATACTT |
| *Lsat\_1\_v5\_gn\_0\_30740* | CGCAGAGGTATTTCCAGGCTTCAAA | CGCAGATTCCTTCACGGCAAGAT |
| *Lsat\_1\_v5\_gn\_3\_28540* | GCTCCACTTGTTGCCACTCTCC | GATGACACTAGCACCACCACCAG |
| *Lsat\_1\_v5\_gn\_5\_33281* | AGGTAGCGGTATCTCTTCTTCTCCA | CCTTCCTCTGTACGATAAGCACCAA |
| *Lsat\_1\_v5\_gn\_4\_74061* | GCGGAAGCAGAGCCTTACAGTAT | CGATGCGTGTTAGAATGTTCTCAGA |
| *Lsat\_1\_v5\_gn\_2\_17540* | CCTGCTGAAGATGTTCCAGTTGATG | CGTATCTAATGTCCGCCACCTCAT |
| *Lsat\_1\_v5\_gn\_5\_67581* | GCACGGAATCCAAAGGCAGTTC | TCACCAACAAGCATCCAATCGC |
| *Lsat\_1\_v5\_gn\_5\_116820* | ATTCTCCGACTGACGCCACCA | CATTCTCCACCGCCGATTGTAACT |
| *Lsat\_1\_v5\_gn\_4\_41921* | AAGTTGACCGCAGCACCAGTAA | CGCCGTAGTTAAGCACCGTGTA |
| *Lsat\_1\_v5\_gn\_9\_11161* | GAAGAGGAACCAAGCCAACCTAAGT | GTAGCATTCTGTGTCGTCAGTGTCT |
| *Lsat\_1\_v5\_gn\_9\_56521* | AATCGCCGTCGCTTCCAGTTC | GCCGCTAGGTCCAGGATTGTTAC |
| *Lsat\_1\_v5\_gn\_9\_37560* | GATCCAACAGATCAACGCTCCAATC | GAAGAGTGGTGACGGAACGGTAG |
| *Lsat\_1\_v5\_gn\_8\_28060* | CCATCGTCTGCCTCTCCGTTATG | CACTCGCTCCTTGACTCTGTTCTG |
| *Lsat\_1\_v5\_gn\_8\_85820* | GCCAGAATATGCCGTCCAGAGC | CGATGACCTGACCGTTGTAGAAGA |
| *LsTIP41* | GAGAGATTTGCTGGAGGGAAACTA | CCTTTGACTGATGATGTTTGGA |