**Table S4** Primers used for quantitative real-time RT-PCR of *SmLACs*

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| Gene name | Primer sequence (5’-3’) |
| *SmLAC1* | Forward: TAACAGTGGTGCACGGAAAG |
| Reverse: CGCAACTACGGTGAGGTTATG  |
| *SmLAC2* | Forward: GCATGGGTATGGGTTCTATGT |
| Reverse: CGGAGGGTCATCGAGATTATAC |
| *SmLAC3* | Forward: GCTCCAGCAAAGACACAGTA |
| Reverse: GTGATTGGCCACTTTGAAGAAG |
| *SmLAC4* | Forward: TAGAGCGGGCAAATCATACC |
| Reverse: TCCACGACGGTGAAATTGT |
| *SmLAC5* | Forward: GGAAGTTGAGATCGTGCTTCA |
| Reverse: CCCGAATCCAGTTCCGATAAC |
| *SmLAC6* | Forward: TACCTCCTCCGCATCATCAA |
| Reverse: TGGAAGGGCTTGACGTAGA |
| *SmLAC7* | Forward: ACCCTTGTTCCACCAAAGATAC  |
| Reverse: CGAAGAAGAGCTCATCGTTTAGT |
| *SmLAC8* | Forward: GCTGAGGTACAACTCCAACAT |
| Reverse: CCCAACCAACAACGAAGAAAC |
| *SmLAC9* | Forward: TTGGACCGCGATTAGATTCC |
| Reverse: GTTCGTGCCTTTCCCATTTC |
| *SmLAC10* | Forward: ACACGGTTAGGTTCACGTTAG |
| Reverse: CGATGGCTACCACTGTGAAT |
| *SmLAC11* | Forward: TGTACAGACTGGCGTACAATTC |
| Reverse: TGGATCCGTGCAAATGGATAG |
| *SmLAC12* | Forward: CCTACCTTCTCAGGATCATCAAC |
| Reverse: GATCTCCACAACCGTCATGT |
| *SmLAC13* | Forward: TACACAGCCGATTTCATCCC |
| Reverse: AACTACCTCGATGTTGGAGTTG |
| *SmLAC14* | Forward: CGACTTCACGCAAGGCTATAA  |
| Reverse: TGAAGCACGATCTCAACTTCC |
| *SmLAC15* | Forward: CAACTGCTCCACCAAAGATACA |
| Reverse: TTGGCGATGCTGAAGAAGAG |
| *SmLAC16* | Forward: GGAGTCTACACCACAGATTTCC |
| Reverse: CGAGTTCCATTGCTCACTACA |
| *SmLAC17* | Forward: CAGGGATAAAGCTGGCTACTTC  |
| Reverse: TCATCGCGTTGGTGTCATTAG |
| *SmLAC18* | Forward: GAGACACTACTCCTGAGAGTCA |
| Reverse: CTGGTGGAGAAGGGTTTGTT  |
| *SmLAC19* | Forward: GGTTCGGATGCTGGAGTATAAC |
| Reverse: CCGACCACATAGAAGCTGTATC |
| *SmLAC20* | Forward: GGTTGATGCACTGCCATTTC  |
| Reverse: CGGAGGCAACATCTTCTCAT  |
| *SmLAC21* | Forward: GGGAATCGATCATCCCATACAT |
| Reverse: CGGTGGGTCAACGAGATTATAG |
| *SmLAC22* | Forward: CGACTTCACGGAAGGTTATAGG |
| Reverse: ATTCCATCTCCAACGCCATAG |
| *SmLAC23* | Forward: GGTTAGGTTCACGTTGGTACAT |
| Reverse: GAATTTGTGGTTGGCGATCTTG |
| *SmLAC24* | Forward: ACGTTTAAGCTGAGGGTGAAG |
| Reverse: GAGCGTGTGGTTGGAGATT |
| *SmLAC25* | Forward: CTCCATGGGTACAGCTTCTATG |
| Reverse: CAGAGGAGGATCGACAAGATTATAG |
| *SmLAC26* | Forward: GACACGGTGATGCTAAGAGTAA |
| Reverse: GGTGAAGGGCCTGTTGTAG |
| *SmLAC27* | Forward: GTGTTTCAAGCGACCAACATC |
| Reverse: TTCCGTCGAAGTTTCCTAACC |
| *SmLAC28* | Forward: CTCCGCCAAACACACTCTTAT |
| Reverse: TGGTTGGCGACTTTGAAGAA  |
| *SmLAC29* | Forward: GATGCATTTGCACGGGTATAG  |
| Reverse: ATGGCGGATCGACAAGATTA |
| *SmLAC30* | Forward: TTCAGCAACAGGCTCAGAAG |
| Reverse: CCACGTATTGATGGAGAGAGTG |
| *SmLAC31* | Forward: GTACCTGCTGCGTATCATCAA |
| Reverse: GTACACTGCATCCACCTCAA |
| *SmLAC32* | Forward: GCTTCTCTTGAGAATCATCAATGC |
| Reverse: GTCCGATCATGACCACTCTG |
| *SmLAC33* | Forward: CTCAGAAGTGGAGATCGTGTTT |
| Reverse: CCGACAACGTAGAAGCTGTATC |
| *SmLAC34* | Forward: CTTCACCCTCTCCATCAATCTC |
| Reverse: GCTGCAGCGTTATGTTGTT |
| *SmLAC35* | Forward: CCTACATGCTCCGCTTAATCA |
| Reverse: CTTCACGTAGGTGGCATCAA  |
| *SmLAC36* | Forward: CGCCTTCCTCCTTCAACTATAC |
| Reverse: CCACTTCCACCGTCGTATTAT |
| *SmLAC37* | Forward: TCCAATCAAGACCGGAGAAAC |
| Reverse: AGCTTGTAGTTGACGACTTTGA |
| *SmLAC38* | Forward: CGTCGACCCCCGCTTCAGAACACC |
| Reverse: GACGGTGGAGGAAGCATCGTTTCG |
| *SmLAC39* | Forward: CGTTGATCCGCCGGTTCGGAATACC |
| Reverse: GTGGGAGATCAGCCGGCGGCGGC |
| *SmLAC40* | Forward: CCTGTTGAGAGGAACACCATAAG |
| Reverse: GGAAGATCTTTTGGAGGAGGCAAG |
| *SmLAC41* | Forward: GGCTATGACAGCAGCAAGAAGCATG |
| Reverse: CAGTGAATGGTTATATTTTGATCAG |
| *SmLAC42* | Forward: CGTTGGGGAACATGGTTTCCGTTCC |
| Reverse: CATGAGCCCAATAGCTTCGAAGAC |
| *SmLAC43* | Forward: CCGTCGGCGTTCCCACCGGAGGAT |
| Reverse: GGTGGGAGATCCTTAGGCGGCGGC |
| *SmLAC44* | Forward: CGGTTGCCGTTCCAAGAAGTGGATG |
| Reverse: GTTGAGGCTGCAGGGGGCGGTTCAC |
| *SmLAC45* | Forward: GTTGAGCATCCGATGCATTTACACG |
| Reverse: GATGATAACATGTTTTTTAACACCAG |
| *SmLAC46* | Forward: GGACCGTTATCAGATTTAAGGCTAAC |
| Reverse: CCTAAATACTAATGCTTCAGGGG |
| *SmLAC47* | Forward: CTTGATGCAGAACATAGCCGTGCGC |
| Reverse: CTACACGTAGCGTCGGAGTATCACAG |
| *SmLAC48* | Forward: CTGGTCGACCCGCCGTTGATGCAAAC |
| Reverse: GGCATATCCGGCGGAGGTGGCAAC |
| *SmLAC49* | Forward: GTTGCCGTTCCAAGAAATGGATGG |
| Reverse: GAGGCTGCAGGGGGCGCTTCACAG |
| *SmLAC50* | Forward: GAATTTCAACTTGGTGAACCCGCAG |
| Reverse: GCATTTGGGAAGATCTGCAGGTGG |
| *SmLAC51* | Forward: GGCGAGGGAAGCGATCATCCCATGC |
| Reverse: CTAAATAATAATTTCTGAGGGGGCGG |
| *SmLAC52* | Forward: CATCCCATGCATTTACATGGACACAG |
| Reverse: GAGGCTGCCGGAGGCGCTTCACAGC |
| *SmLAC53* | Forward: CATTGACCCGCCGTTGGGGAACATG |
| Reverse: GTTGAGGCTGTATGGGGCGGTTCAC |
| *SmLAC54* | Forward: CTGGTGGACCCACCTATGCGGAATA |
| Reverse: GGGGAAGATCTGGTGGAGGCGGCTG |
| *SmLAC55* | Forward: GGTGAATCCACAAGAGCGGAATACTG |
| Reverse: GCATTGTGGAAGATCCGCAGGAGG |
| *SmLAC56* | Forward: CCAAGAAATGGATGGAGCGCTATCAG |
| Reverse: CGAAATAATAACTGTTGAGGGGGCG |
| *SmLAC57* | Forward: GCCGTTCCATCGGGAGGATGGGTTG |
| Reverse: GGGCAAATCATTTGGAGGTGGCAG |
| *SmLAC58* | Forward: GGACCGCAATAAGATTTAAGGCAA |
| Reverse: GCAACGTGGCATATCCGGCGGAG |
| *SmLAC59* | Forward: CTCCGGGCCAAACCATAGATGTCTTG |
| Reverse: GTGAGCCTCTGTCGCTAAGCTTCGC |
| *SmLAC60* | Forward: CAGAAATTCAATCTCGTTGATCCTGT |
| Reverse: CATTTTGGCAAATCTTTAGGTGG |
| *SmLAC61* | Forward: GAGACGCGGCGGGTTTCAACCTCGTG |
| Reverse: CACGGCGGTAGATCAGGCGGCGGCG |
| *SmLAC62* | Forward: CGACCCAAACACGGATCCGCCAAAC |
| Reverse: GCGGTTCACAGAGGGGCATATCTGG |
| *SmLAC63* | Forward: CAAAACAGAGTTCCCAATGCCAG |
| Reverse: CCAAAGCCAGGCTCCCGCAGACAG |
| *SmLAC64* | Forward: GCACTGCCATTTCGAACGTCATTAC |
| Reverse: GTTCCAAACCGGAACCGTGTAAGTG |
| *SmLAC65* | Forward: GCACGGTGCAGGTGTACCCCAAG |
| Reverse: GGCCCTGCCGCAGAGGAGCGCGTTC |
| Sm-miR397.1 | Forward: TCATTGAGTGCAGCGTTGATGA |
| Sm-miR397.2 | Forward: TTGAGTGCAGCGTTGATGACA |
| Sm-miR408 | Forward: TGCACTGCCTCTTCCCTGGCT |