**Table S1. Three age-related Larix kaempferi transcription factors and their qRT-PCR primers.**

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| --- | --- | --- | --- | --- |
| Gene (accession: mRNA/DNA) | Primer | Sequence (5'-3') | Position | Size (bp) |
| *LaAGL11* (MN790752/WOXR02007254.1) | Ⅰ | Forward-AAGCTTACGAGCTCTCGGTG | first exon | 245 |
| Reverse-AAGTAACGGCCGGGTTATGG | first intron |
| Ⅱ | Forward-CCCGAGAGGGAAGCTGTATG | first exon | 101 |
| Reverse-CGGTTGCATTACTTCTGCCA | second exon |
| Ⅲ | Forward-TGAGTTGGAGAGCCAAGTTGA | fourth exon | 116 |
| Reverse-ACCTTTGAAAAGCACACATACACA | fourth intron |
| ⅠV | Forward-AGTTGGGGGAGGGTTTGGAAT | fourth exon | 96 |
| Reverse-TCTTCTGTGCTCGTATATTGCTCA | fifth exon |
| V | Forward-AAGCATTGATGGATCAAATAGAACT | fifth exon | 73 |
| Reverse-AGGTAAGGGAGGAATTGCAAAG | fifth intron |
| VⅠ | Forward-TGCAAGAGGTAGATGGTTGGG | fifth exon | 77 |
| Reverse-AGTCTCCACTTCATTGTGTTGC | sixth exon |
| *LaSOC1-1* (MN790747/WOXR02000999.1) | Ⅰ | Forward-AGGGTGTATTGCTTGGCCTT | 5' UTR first exon | 154 |
| Reverse-TCACAGGGTCTCAAGTCAGG | 5' UTR first intron |
| Ⅱ | Forward-TGGTCTATCTTTGGAAGGGAAGT | 5' UTR first exon | 159 |
| Reverse-GAGCACGGAGAGCTCGTAAG | second exon |
| Ⅲ | Forward-AAGCTTACGAGCTCTCCGTG | second exon and second intron | 102 |
| Reverse-ACCATACATACCAGGGACTGGA | second intron |
| ⅠV | Forward-CCCCCAGAGGGAAGCTCTAT | second exon | 118 |
| Reverse-TGAGTATCTTGCTCTTTGGTTGT | third exon |
| V | Forward-TGATGGATCAAATACAACAACTTGA | sixth exon | 216 |
| Reverse-TTCCAATTTCAGTCTTGAAACGAG | sixth intron |
| VⅠ | Forward-AGCAGCAAGATTGGGTTTGG | sixth exon | 74 |
| Reverse-GCTGAATCTCTATTCCACTGGT | seventh exon |
| *LaAP2-2* (MN790758/WOXR02002646.1) | Ⅰ | Forward-TCAGAAGGCAACGACGGAAA | first exon | 169 |
| Reverse-TGATGGGCATGGGATTAGGC | first intron |
| Ⅱ | Forward-GGAAAAACCCCCGCCTGATA | first exon | 225 |
| Reverse-ACCTGTTTCCCACAATCCCA | second exon |
| Ⅲ | Forward-GCAGTCACAAACTTCGAGCC | seventh exon | 132 |
| Reverse-TGAGTTTATCATGCGCTCTTCT | seventh intron |
| ⅠV | Forward-CAGTCACAAACTTCGAGCCCA | seventh exon | 108 |
| Reverse-TTGAAGCGGACGTGCCAAG | eighth exon |
| V | Forward-ACATTCTCGACCAAGCGAGG | ninth exon | 250 |
| Reverse-CTGAAAAGTGACCAGGCAAGT | ninth intron |
| VⅠ | Forward-ACATTCTCGACCAAGCGAGG | ninth exon | 201 |
| Reverse-CAAGTCCAGCCTGGTGTCTT | tenth exon |