

Table S1. Primers used for cloning 20 transcription factors

Transcript ID	Primer Sequences (5'-3')
comp81209_c0_seq1	Forward-GCTGCAACCCTTGAAGAACAG Reverse-TCCTTACTAGGAGTGCCTGAA
comp125095_c0_seq5	Forward-TAGCAGCGGCTGAAGAAGAG Reverse-TGTTACCGTAAGCAACGCGA
comp125095_c0_seq9	Forward-TTTTACGGCCAGTCCCTTACC Reverse-GGAACCAGAATGCCTTGTTAAAT
comp126977_c0_seq16	Forward-AGGATCTTACAATGGGGCG Reverse-TATTTTATATACCCAATTTCGAACG
comp128412_c0_seq11	Forward-TTTCCGAGCAGGAGTCAAGT Reverse-TTGTTGAAACTCCATTTTACTAGTTG
comp128412_c0_seq23	Forward-GCTCTTCTTTTCTGCTGGGTG Reverse-TATATTCAAAGTTTGCAGAAGTCCA
comp128412_c0_seq8	Forward-AGAGGAGACGACAGAAGGAGA Reverse-TTGAAGGTCTTAGGATAAGCTGAA
comp129709_c0_seq16	Forward-AGGACAACAATGGTGAGGGG Reverse-AGGTGATCTTATACATTTGGAGGT
comp129017_c0_seq15	Forward-CCCAGGATTGAGAAAACCAG Reverse-AGTTTAAGTATGAATTTCAAAGAGCA
comp128471_c0_seq14	Forward-GGCGCAGAATGGGGA Reverse-ATGAATTTCAAAAAGAACTCTTCA
comp128471_c0_seq18	Forward-GAGGAGACGACAGGAGGAGA Reverse-TCTACTTCATTGGTTGCATGCTT
comp124322_c0_seq3	Forward-GAGAGCTTCTGCGTCGCTAA Reverse-CCAAATCTGGAAACAGACGGC
comp129386_c0_seq9	Forward-GCCCTTGCGTCTGTCAGATA

	Reverse-GAAAACCGATCACACGCTCG
comp114072_c0_seq3	Forward-TAGAAGCAGAGATCAGTAGGCCA Reverse-CAATATAAGTGAGACAAAGGAGCC
comp128327_c0_seq16	Forward-GGTAACGTCCGTTTGCCCTA Reverse-TCAAAACTCGTGCATCCAGC
comp122930_c0_seq2	Forward-GTGGCAGCCTCAGACATAGG Reverse-AGGCATTTCTAGGCCCTGTT
comp120092_c0_seq3	Forward-TGGACCTTGGTTATTCACCCT Reverse-ACCTTCTCATAACAACGAAACCA
comp111742_c0_seq2	Forward-ACAACGCAAGATCAAGATGAGA Reverse-TCATTA ACTACCATGGCTGCAA
comp128112_c0_seq2	Forward-TGCCAATCTGACTTCCAAGC Reverse-GGATCCTCCCAACCAGCATA
comp130729_c0_seq1	Forward-CCATCCCTTGATGGGGTAGC Reverse-AGACTGGCTCACGTCCATTG

Table S2. Primers used for qRT-PCR

Transcription factors	Primer Sequences (5'–3')
<i>LaCAL</i>	Forward-GGAGCACCAGCTCGAAGTAG Reverse-CATGCTCCCTGCTTTGGAGA
<i>LaAGL2-1</i>	Forward-AACGCAGGTGATGCTAGACC Reverse-CCAAGGCCCGTTAGTACCAG
<i>LaAGL2-2/LaAGL2-3</i>	Forward-AAAGGCAGTTGTTGGGGGAA Reverse-TCGAAGCTCCTCAATCTGGC
<i>LaSOC1-1</i>	Forward-ACAACA ACTTGAATAAAGCAGCA Reverse-TTGAAGGTCTTAGGATAAGCTGAA
<i>LaSOC1-2</i>	Forward-AGCCGCTCTTCTTTTCTGCT Reverse-TGCCTGCTGATCCTGTTCTC

<i>LaSOC1-3</i>	Forward-AGCTTTTCCGAGCAGGAGTC Reverse-AAGGCCAAGCAATACACCCT
<i>LaSOC1-4</i>	Forward-CAATTTGAGCGCCTGTCGTC Reverse-CTGGTGGCGTTCTCAATCCT
<i>LaAGL1</i>	Forward-TGAGGGGAAAGACCCAGGAT Reverse-CATAAGTCCCACCTTCGGCGT
<i>LaAGL11</i>	Forward-TGGCAGAAGTAATGCAACCG Reverse-AAGATTCCAAACCCTCCCCC
<i>LaAGL42</i>	Forward-CCCCAGAGGGAAGCTCTATG Reverse-CCAAGCGTAGGTGTTGTCCA
<i>LaERF017</i>	Forward-TGGAAACGGAGTTAGCGAGC Reverse-CAGCGTGGATACAGGGTCAA
<i>LaERF3</i>	Forward-ACAAGGAATGGAGAAGCCCG Reverse-CCCGTAATCTTCCGCATCA
<i>LaSCL29</i>	Forward-GTATGGTTGAAGGCGAGGCT Reverse-TCCACACGAGAAGCACCATC
<i>LaAP2-1</i>	Forward-GCGGACCAACAACCTCCAGTA Reverse-GTTGCCATATGCAAGCTCGG
<i>LaAP2-2</i>	Forward-AGTCTTCATCAACGGGCGAG Reverse-CCTCGCTTGGTCGAGAATGT
<i>LaHCA2</i>	Forward-AGGCCGCAATCTAAAGCACT Reverse-CTTCTCCGCTAGTCCTCCCT
<i>LaOZF2</i>	Forward-GTTCATTGTGGGCTTCAGCG Reverse-CAACCAGCTCACTGACCCAT
<i>LaTRFL6</i>	Forward-CACGATCACTTTCCACCCCA Reverse-ATGAGGGATCCTCCCAACCA
<i>LaPHL1</i>	Forward-TGAAGGGTCCTCACCCACTA Reverse-TGACCTCGGAAACCTCCTGT

*LaFBP1**

Forward-TCAGAAGCGGTTGACTTGGT

Reverse-ACGACGCAACTCCAAGAACT

* internal control. *LaCAL*, *Larix kaempferi* CAULIFLOWER; *LaAGL2-1*, *L. kaempferi* AGAMOUS-Like 2-1; *LaAGL2-2*, *L. kaempferi* AGAMOUS-Like 2-2; *LaAGL2-3*, *L. kaempferi* AGAMOUS-Like 2-3; *LaSOC1-1*, *L. kaempferi* SUPPRESSOR OF OVEREXPRESSION OF CONSTANS 1-1; *LaSOC1-2*, *L. kaempferi* SUPPRESSOR OF OVEREXPRESSION OF CONSTANS 1-2; *LaSOC1-3*, *L. kaempferi* SUPPRESSOR OF OVEREXPRESSION OF CONSTANS 1-3; *LaSOC1-4*, *L. kaempferi* SUPPRESSOR OF OVEREXPRESSION OF CONSTANS 1-4; *LaAGL1*, *L. kaempferi* AGAMOUS-Like 1; *LaAGL11*, *L. kaempferi* AGAMOUS-Like 11; *LaAGL42*, *L. kaempferi* AGAMOUS-Like 42; *LaERF017*, *L. kaempferi* Ethylene-Responsive Transcription Factor ERF017; *LaERF3*, *L. kaempferi* Ethylene-Responsive Transcription Factor 3; *LaSCL29*, *L. kaempferi* Scarecrow-Like 29; *LaAP2-1*, *L. kaempferi* APETALA 2-1; *LaAP2-2*, *L. kaempferi* APETALA 2-2; *LaHCA2*, *L. kaempferi* High Cambial Activity 2; *LaOZF2*, *L. kaempferi* Oxidation-Related Zinc Finger 2; *LaTRFL6*, *L. kaempferi* TRF-Like 6; *LaPHL1*, *L. kaempferi* PHR1-Like 1; *LaFBP1*, *L. kaempferi* fructose-1,6-bisphosphatase 1.

Figure S1.

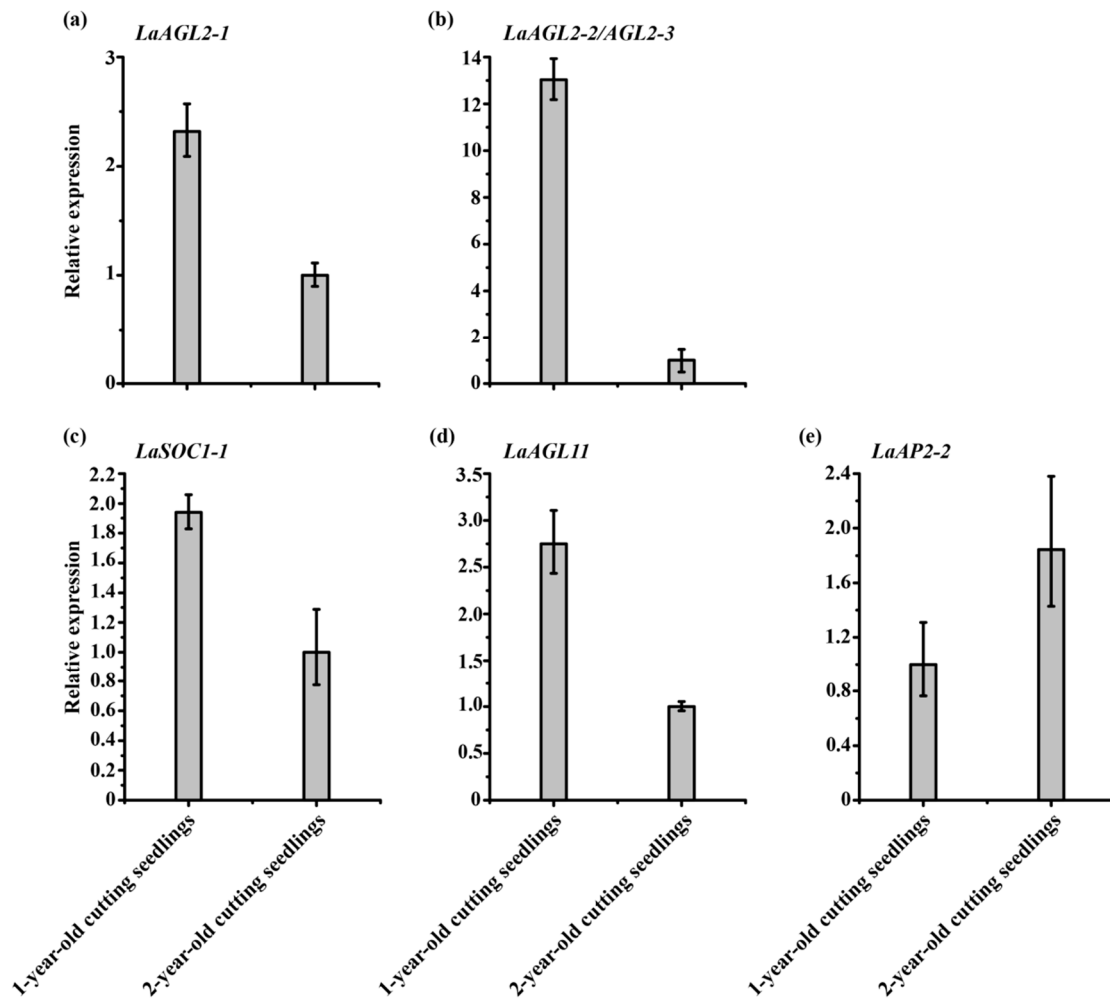


Figure S1. Expression patterns of *LaAGL2-1* (a), *LaAGL2-2* (b), *LaAGL2-3* (b), *LaSOC1-1* (c), *LaAGL11* (d), and *LaAP2-2* (e) in 1- and 2-year-old *Larix kaempferi* cutting seedlings ($n = 3$, sampled in 2018) assayed by qRT-PCR with *LaFBP1* as the internal control. In 2017 and 2016 1- and 2-year-old cutting seedlings were propagated from 21- and 20-year-old seed seedlings that were sampled in 2018 when they were 22 years old, respectively. The qRT-PCR was performed with three technical replicates, and the data are shown as the mean \pm SD.