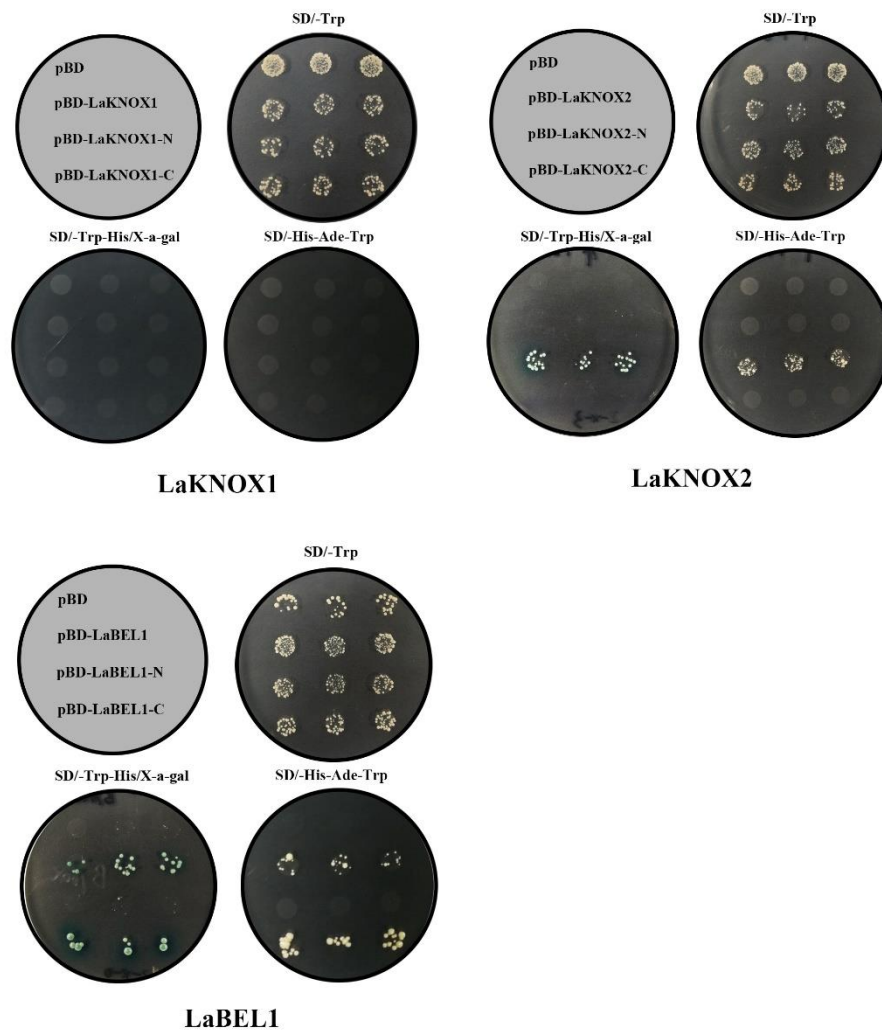
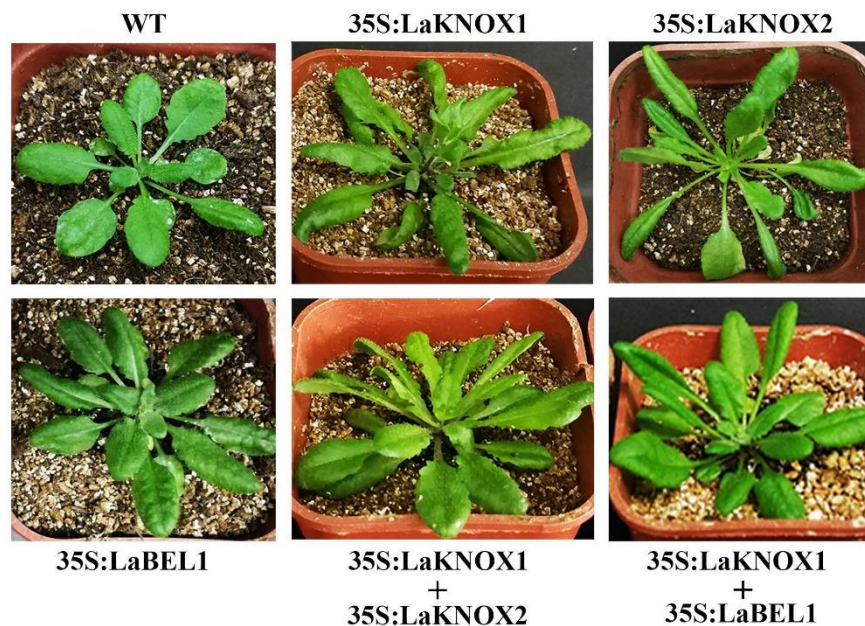


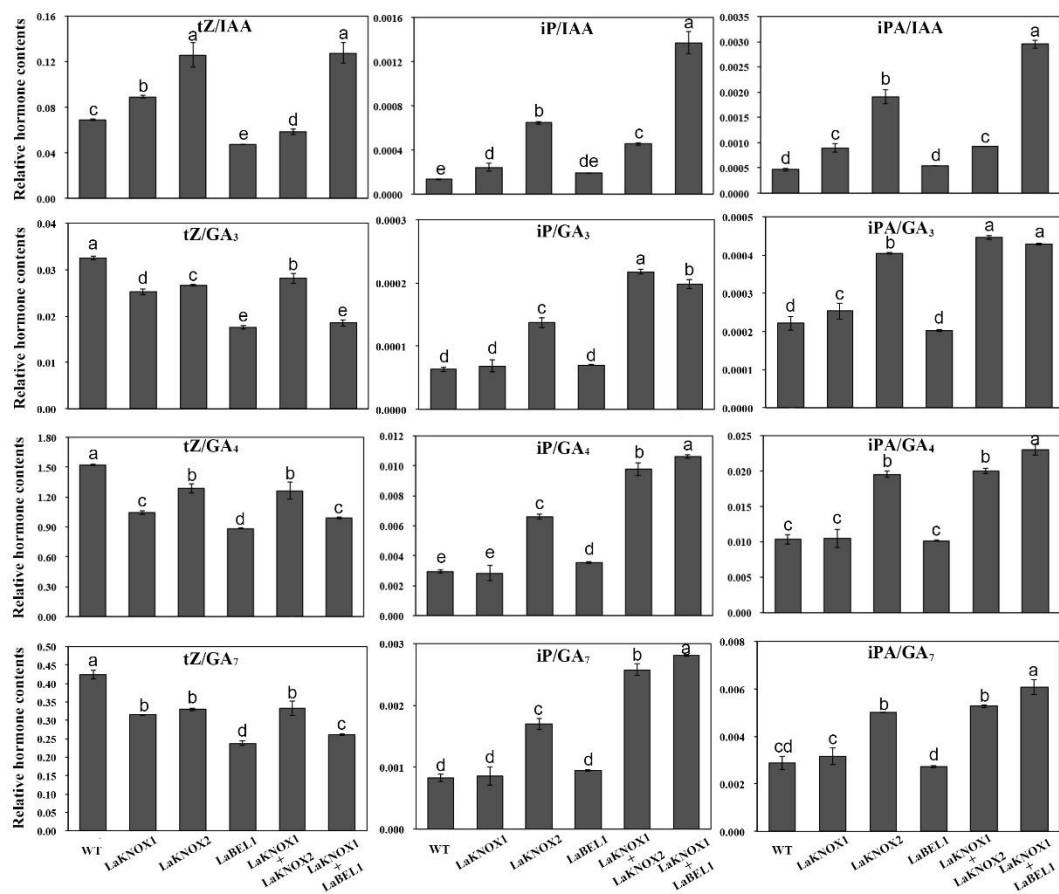
**Figure S1.** Special phenomena of stem bulblets above the ground in nature.



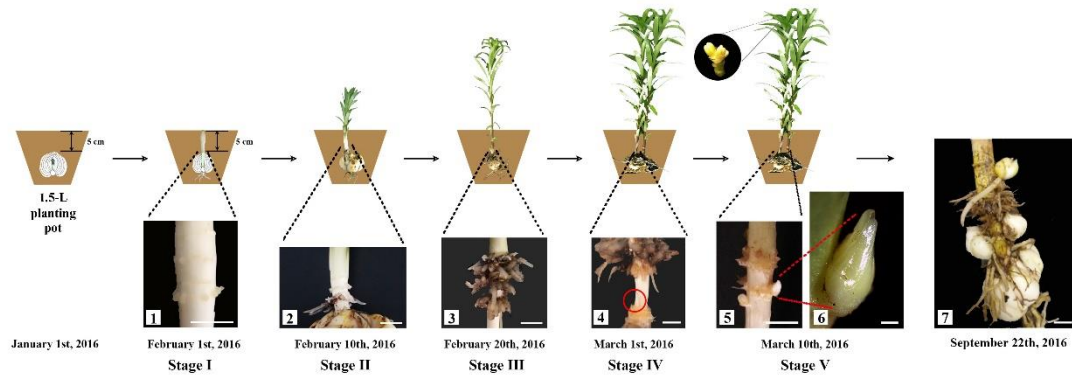
**Figure S2.** Transactivation assay of LaKNOX1, LaKNOX2, and LaBEL1 from *L. 'Aladdin'*.



**Figure S3.** Transgenic Arabidopsis plants overexpressing *LaKNOX1*, *LaKNOX2*, and *LaBEL1* genes.



**Figure S4.** Relative hormone concentrations in transgenic Arabidopsis.



**Figure S5.** Division of stages in the process of underground stem bulblet formation in *L. 'Aladdin'*.

**Table S1.** Primers used in this study.

Primer name	Primer sequence (5'- 3')	Purpose
LaKNOX1-Y-F	AGAAGAAAGGCAATCTCCCAA	Primers for RT-PCR and qRT-PCR assay of LaKNOX1
LaKNOX1-Y-R	GAAAGCCATCCATTACAACAAA	Primers for RT-PCR and qRT-PCR assay of LaKNOX1
LaKNOX2-Y-F	CTGCTACCGCTTACTCCGATGA	Primers for RT-PCR and qRT-PCR assay of LaKNOX2
LaKNOX2-Y-R	CCACCAGTCCAATAACGCCAAT	Primers for RT-PCR and qRT-PCR assay of LaKNOX2
LaBEL1-Y-F	CTTTTCGAGCACTTCTTCAC	Primers for RT-PCR and qRT-PCR assay of LaBEL1
LaBEL1-Y-R	TTGGTTTCCTCCACATACATC	Primers for RT-PCR and qRT-PCR assay of LaBEL1
LaBEL1-M-F	TCCGGCGCAGGAGCTGTTGAAT	Amplification for the partial sequence of LaBEL1
LaBEL1-M-R	TCGACATCGCTTGGATACGGGT	Amplification for the partial sequence of LaBEL1
LaBEL1-3' GSP	AGGGAGCAGTAGGGGCGAAACACC	Primers for the LaBEL1 3' RACE analysis
LaBEL1-5' GSP	TATGACGCCGCATCTACGGGTTTACC	Primers for the LaBEL1 5' RACE analysis
UPM	GGGCAAGCAGTGGTATCAACGCAGAGT	RACE universal primer
LaBEL1-F	ATGGATCATGAAGGATTCGGGTATGGCG	Amplification for the cDNA sequences of LaBEL1
LaBEL1-R	CTACCCTGCAAGATCATGCAGCAGCTGA	Amplification for the cDNA sequences of LaBEL1
LaKNOX1-XhoI	CATTTACGAACGATACTCGAGATGGATGGCTTCACCCATCTCAGTG	Primers for subcellular localization of LaKNOX1
LaKNOX1-SalI	CACCATCACTAGTAGCTCGACCGGGCCAGGCGGTATGTAC	Primers for subcellular localization of LaKNOX1
LaKNOX2-XhoI	CATTTACGAACGATACTCGAGATGGGGGACTTGTACAGTATACA	Primers for subcellular localization of LaKNOX2
LaKNOX2-SalI	CACCATCACTAGTAGCTCGACAGGACCAATTGTACCCGTATC	Primers for subcellular localization of LaKNOX2
LaBEL1-XhoI	CATTTACGAACGATACTCGAGATGGATCATGAAGGATTCGGGTATGGCG	Primers for subcellular localization of LaBEL1

LaBEL1- <i>SpeI</i>	CCCTTGCTCACCATCGT <u>ACTAGT</u> CCCTGCAAGATCATGCAGCAGCTGA	Primers for subcellular localization of LaBEL1
LaKNOX1- <i>N-XhoI</i>	CATTTACGAACGATACTCGAGATGGATGGCTTACCCATCTCAGTG	Primers for subcellular localization of LaKNOX1 N-terminus
LaKNOX1- <i>N-SalI</i>	CACCATCACTAGTACGTCGACGCACAACGAGTTGAGCTGTGATTCG	Primers for subcellular localization of LaKNOX1 N-terminus
LaKNOX1- <i>C-XhoI</i>	CATTTACGAACGATACTCGAGTCTGATGGTGTTTCACCTCGCATCG	Primers for subcellular localization of LaKNOX1 C-terminus
LaKNOX1- <i>C-SalI</i>	CACCATCACTAGTACGTCGACCGGGCCAGGCGGTATGTAC	Primers for subcellular localization of LaKNOX1 C-terminus
LaKNOX2- <i>N-XhoI</i>	CATTTACGAACGATACTCGAGATGGGGGACTTGTACAGTATACA	Primers for subcellular localization of LaKNOX2 N-terminus
LaKNOX2- <i>N-SalI</i>	CACCATCACTAGTACGTCGACAGTGCCAGATTCGTCAACATC	Primers for subcellular localization of LaKNOX2 N-terminus
LaKNOX2- <i>C-XhoI</i>	CATTTACGAACGATACTCGAGGATGTTGACGAATCTGGCACTT	Primers for subcellular localization of LaKNOX2 C-terminus
LaKNOX2- <i>C-SalI</i>	CACCATCACTAGTACGTCGACAGGACCAATTGTACCCGTATC	Primers for subcellular localization of LaKNOX2 C-terminus
LaBEL1-N- <i>XhoI</i>	CATTTACGAACGATACTCGAGATGGATCATGAAGGATTCGGGTATGGCG	Primers for subcellular localization of LaBEL1 N-terminus
LaBEL1-N- <i>SalI</i>	CACCATCACTAGTACGTCGACCTTCTCTCCCATAGCCTTTTTCGTTGCC	Primers for subcellular localization of LaBEL1 N-terminus
LaBEL1-C- <i>XhoI</i>	CATTTACGAACGATACTCGAGGATCCTACGGGAGCAGGGAGCAGTA	Primers for subcellular localization of LaBEL1 C-terminus
LaBEL1-C- <i>SalI</i>	CACCATCACTAGTACGTCGACCCCTGCAAGATCATGCAGCAGCTGA	Primers for subcellular localization of LaBEL1 C-terminus
LaKNOX1- <i>EcoRI</i>	ATGGCCATGGAGGCCGAATTCATGGATGGCTTACCCATCTCAGTG	Primers for transactivation analysis and Y2H to BD of LaK-NOX1 full length
LaKNOX1- <i>BamHI</i>	CCGCTGCAGGTCGACCGGATCCCGGGCCAGGCGGTATGTAC	Primers for transactivation analysis and Y2H to BD of LaK-NOX1 full length
LaKNOX2- <i>EcoRI</i>	ATGGCCATGGAGGCCGAATTCATGGGGGACTTGTACAGTATACA	Primers for transactivation analysis and Y2H to BD of LaK-NOX2 full length
LaKNOX2- <i>BamHI</i>	CCGCTGCAGGTCGACCGGATCCAGGACCAATTGTACCCGTATC	Primers for transactivation analysis and Y2H to BD of LaK-NOX2 full length
LaBEL1- <i>EcoRI</i>	ATGGCCATGGAGGCCGAATTCATGGATCATGAAGGATTCGGGTATGGCG	Primers for transactivation analysis of LaBEL1 full length
LaBEL1- <i>BamHI</i>	CCGCTGCAGGTCGACCGGATCCCCCTGCAAGATCATGCAGCAGCTGA	Primers for transactivation analysis of LaBEL1 full length
LaKNOX1- <i>N-EcoRI</i>	ATGGCCATGGAGGCCGAATTCATGGATGGCTTACCCATCTCAGTG	Primers for transactivation analysis and Y2H to BD of LaK-NOX1 N-terminus
LaKNOX1- <i>N-BamHI</i>	CCGCTGCAGGTCGACCGGATCCGCACAACGAGTTGAGCTGTGATTCG	Primers for transactivation analysis and Y2H to BD of LaK-NOX1 N-terminus
LaKNOX1- <i>C-EcoRI</i>	ATGGCCATGGAGGCCGAATTCCTGATGGTGTTTCACCTCGCATCG	Primers for transactivation analysis and Y2H to BD of LaK-NOX1 C-terminus

LaKNOX1- <i>C-BamHI</i>	CCGCTGCAGGTCGACCGGATCCCGGGCCAGGCGGTATGTAC	Primers for transactivation analysis and Y2H to BD of LaK- NOX1 C-terminus
LaKNOX2- <i>N-EcoRI</i>	ATGGCCATGGAGGCCGAATTCATGGGGGACTTGTACAGTATACA	Primers for transactivation analysis of LaKNOX2 N-termi- nus
LaKNOX2- <i>N-BamHI</i>	CCGCTGCAGGTCGACCGGATCCAGTGCCAGATTCTGTC AACATC	Primers for transactivation analysis of LaKNOX2 N-termi- nus
LaKNOX2- <i>C-EcoRI</i>	ATGGCCATGGAGGCCGAATTCGATGTTGACGAATCTGGCACTT	Primers for transactivation analysis and Y2H to BD of LaK- NOX2 C-terminus
LaKNOX2- <i>C-BamHI</i>	CCGCTGCAGGTCGACCGGATCCAGGACCAATTGTACCCGTATC	Primers for transactivation analysis and Y2H to BD of LaK- NOX2 C-terminus
LaBEL1-N- <i>EcoRI</i>	ATGGCCATGGAGGCCGAATTCATGGATCATGAAGGATTCGGGTATGGCG	Primers for transactivation analysis of LaBEL1 N-terminus
LaBEL1-N- <i>BamHI</i>	CCGCTGCAGGTCGACCGGATCCCTTCTCTCCCATAGCCTTTTTCGTT- GCC	Primers for transactivation analysis of LaBEL1 N-terminus
LaBEL1-C- <i>EcoRI</i>	ATGGCCATGGAGGCCGAATTCGATCCTACGGGAGCAGGGAGCAGTA	Primers for transactivation analysis of LaBEL1 C-terminus
LaBEL1-C- <i>BamHI</i>	CCGCTGCAGGTCGACCGGATCCCCCTGCAAGATCATGCAGCAGCTGA	Primers for transactivation analysis of LaBEL1 C-terminus
LaKNOX2- <i>AD-EcoRI</i>	GCCATGGAGGCCAGTGAATTCATGGGGGACTTGTACAGTATACA	Primers for Y2H to AD of LaKNOX2 full length
LaKNOX2- <i>AD-BamHI</i>	CAGCTCGAGCTCGATGGATCCAGGACCAATTGTACCCGTATC	Primers for Y2H to AD of LaKNOX2 full length
LaKNOX2- <i>C-AD-EcoRI</i>	GCCATGGAGGCCAGTGAATTCGATGTTGACGAATCTGGCACTT	Primers for Y2H to AD of LaKNOX2 C-terminus
LaKNOX2- <i>C-AD-BamHI</i>	CAGCTCGAGCTCGATGGATCCGAGGACCAATTGTACCCGTATC	Primers for Y2H to AD of LaKNOX2 C-terminus
LaBEL1-N- <i>AD-EcoRI</i>	GCCATGGAGGCCAGTGAATTCATGGATCATGAAGGATTCGGG- TATGGCG	Primers for Y2H to AD of LaBEL1 N-terminus
LaBEL1-N- <i>AD-BamHI</i>	CAGCTCGAGCTCGATGGATCCGCTTCTCTCCCATAGCCTTTTTCGTT- GCC	Primers for Y2H to AD of LaBEL1 N-terminus
LaBEL1-N- SKY-AD- <i>BamHI</i>	CAGCTCGAGCTCGATGGATCCGGGCACCCAGACTG- CAGAATTCATTCAAC	Primers for Y2H to AD of SKY domain in the N-terminal re- gion of LaBEL1
LaBEL1-N- BELL-AD- <i>EcoRI</i>	GCCATGGAGGCCAGTGAATTCATAAACCCGTAGATGCGGCGTCG- TACAGT	Primers for Y2H to AD of BELL domain in the N-terminal region of LaBEL1
LaBEL1- YNE- <i>BamHI</i>	TGGCGCGCCACTAGTGGATCCATGGATCATGAAGGATTCGGGTATGGCG	Primers for BiFC of LaBEL1 full length
LaBEL1- YNE- <i>KpnI</i>	CTCCATCCCGGGAGCGGTACCCCTGCAAGATCATGCAGCAGCTGA	Primers for BiFC of LaBEL1 full length
LaBEL1-N- YNE- <i>KpnI</i>	CTCCATCCCGGGAGCGGTACCCCTTCTCTCCCATAGCCTTTTTCGTTGCC	Primers for BiFC of LaBEL1 N-terminus
LaBEL1-N- SKY-YNE- <i>BamHI</i>	TGGCGCGCCACTAGTGGATCCATGGATCATGAAGGATTCGGGTATGGCG	Primers for BiFC of SKY domain in the N-terminal region of LaBEL1

LaBEL1-N-SKY-YNE- <i>KpnI</i>	CTCCATCCCGGGAGC <u>GGTACCGGCACCCAGACTG</u> -CAGAATTCATTCAAC	Primers for BiFC of SKY domain in the N-terminal region of LaBEL1
LaBEL1-N-BELL-YNE- <i>BamHI</i>	TGGCGCGCCACTAGTGGAT <u>CCT</u> AACCCGTTAGATGCGGCGTCG-TACAGT	Primers for BiFC of BELL domain in the N-terminal region of LaBEL1
LaBEL1-N-BELL-YNE- <i>KpnI</i>	CTCCATCCCGGGAGC <u>GGTACCC</u> TTCTCTCCCATAGCCTTTTTCGTTGCC	Primers for BiFC of BELL domain in the N-terminal region of LaBEL1
LaBEL1-C-YNE- <i>BamHI</i>	TGGCGCGCCACTAGTGGAT <u>CCG</u> ATCCTACGGGAGCAGGGAGCAGTA	Primers for BiFC of LaBEL1 C-terminus
LaKNOX1-YCE- <i>SpeI</i>	GCTGGGCCCAGGCCT <u>ACTAG</u> TATGGATGGCTTCACCCATCTCAGTG	Primers for BiFC of LaKNOX1 full length
LaKNOX1-YCE- <i>KpnI</i>	CTCCTACCCGGGAGC <u>GGTACCC</u> GGGCCAGGCGGTATGTAC	Primers for BiFC of LaKNOX1 full length
LaKNOX1-N-YCE- <i>KpnI</i>	CTCCTACCCGGGAGC <u>GGTACCG</u> CACAACGAGTTGAGCTGTGATTCTG	Primers for BiFC of LaKNOX1 N-terminus
LaKNOX1-C-YCE- <i>SpeI</i>	GCTGGGCCCAGGCCT <u>ACTAG</u> TTCTGATGGTGTTCACCTCGCATCG	Primers for BiFC of LaKNOX1 C-terminus
LaKNOX2-YCE- <i>SpeI</i>	GCTGGGCCCAGGCCT <u>ACTAG</u> TATGGGGGACTTGTACAGTATACA	Primers for BiFC of LaKNOX2 full length
LaKNOX2-YCE- <i>KpnI</i>	CTCCTACCCGGGAGC <u>GGTACC</u> AGGACCAATTGTACCCGTATC	Primers for BiFC of LaKNOX2 full length
LaKNOX2-YNE- <i>BamHI</i>	TGGCGCGCCACTAGTGGAT <u>CC</u> ATGGGGGACTTGTACAGTATACA	Primers for BiFC of LaKNOX2 full length
LaKNOX2-YNE- <i>KpnI</i>	CTCCATCCCGGGAGC <u>GGTACC</u> AGGACCAATTGTACCCGTATC	Primers for BiFC of LaKNOX2 full length
LaKNOX2-N-YCE- <i>KpnI</i>	CTCCTACCCGGGAGC <u>GGTACC</u> AGTGCCAGATTCGTCAACATC	Primers for BiFC of LaKNOX2 N-terminus
LaKNOX2-C-YCE- <i>SpeI</i>	GCTGGGCCCAGGCCT <u>ACTAG</u> TGATGTTGACGAATCTGGCACTT	Primers for BiFC of LaKNOX2 C-terminus
LaKNOX2-N-YNE- <i>KpnI</i>	CTCCATCCCGGGAGC <u>GGTACC</u> AGTGCCAGATTCGTCAACATC	Primers for BiFC of LaKNOX2 N-terminus
LaKNOX2-C-YNE- <i>BamHI</i>	TGGCGCGCCACTAGTGGAT <u>CCG</u> ATGTTGACGAATCTGGCACTT	Primers for BiFC of LaKNOX2 C-terminus
LaKNOX1- <i>BamHI</i>	<u>GGATCC</u> ATGGATGGCTTCACCCATCTC	Primers for overexpression vector construction
LaKNOX1- <i>EcoRI</i>	<u>GAATTCT</u> CACGGGCCCAGGCGGTATGT	Primers for overexpression vector construction
LaKNOX2- <i>XbaI</i>	<u>TCTAGA</u> ATGGGGGACTTGTACAG	Primers for overexpression vector construction
LaKNOX2- <i>SacI</i>	<u>GAGCTC</u> TCAAGGACCAATTGTACC	Primers for overexpression vector construction

LaBEL1-	<u>TCTAGA</u> ATGGATCATGAAGGATTCGGGTATGGCG	Primers for overexpression vector construction
<i>Xba</i> I		
LaBEL1-	<u>CCCCGGG</u> TACCCTGCAAGATCATGCAGCAGCTGA	Primers for overexpression vector construction
<i>Sma</i> I		
35S	GACGCACAATCCCACTATC	Universal primer
AtACTIN2-	TCCTCTTAACCCAAAGGCCAACAGA	Reference gene in Arabidopsis
F		
AtACTIN2-	TGAGACACACCATCACCAGAATCCA	Reference gene in Arabidopsis
R		

Single underlines are enzyme recognition site.

**Table S2. NCBI accession numbers of other BELL proteins used in multiple sequence alignment and phylogenetic tree analysis.**

Name	Species	NCBI Accession Number
JrBEL1	<i>Juglans regia</i>	XP_018852535.1
PmBEL1	<i>Prunus mume</i>	XP_008238940.1
AcBEL	<i>Ananas comosus</i>	OAY81307.1
CpBEL1	<i>Carica papaya</i>	XP_021887927.1
PtBEL1	<i>Populus trichocarpa</i>	XP_024447318.1
PdBEL1	<i>Phoenix dactylifera</i>	XP_008794768.1
PpBEL1	<i>Prunus persica</i>	XP_007210325.1
RcBEL1	<i>Ricinus communis</i>	XP_015571681.1
PaBEL1	<i>Prunus avium</i>	XP_021820869.1
AtBEL1	<i>Arabidopsis thaliana</i>	sp Q38897.2
AtATH1	<i>Arabidopsis thaliana</i>	sp P48731.1
AtBEL1	<i>Arabidopsis thaliana</i>	sp Q38897.2
AtBLH1	<i>Arabidopsis thaliana</i>	sp Q9SJ56.1
AtBLH2/SAW1	<i>Arabidopsis thaliana</i>	sp Q9SW80.3
AtBLH3	<i>Arabidopsis thaliana</i>	sp Q9FWS9.1
AtBLH4/SAW2	<i>Arabidopsis thaliana</i>	sp Q94KL5.2
AtBLH5	<i>Arabidopsis thaliana</i>	sp Q8S897.2
AtBLH6	<i>Arabidopsis thaliana</i>	sp O65685.1
AtBLH7/PNY	<i>Arabidopsis thaliana</i>	sp Q9SIW1.1
AtBLH8/PNF	<i>Arabidopsis thaliana</i>	sp Q9SJJ3.1
AtBLH9	<i>Arabidopsis thaliana</i>	sp Q9LZM8.1
AtBLH10	<i>Arabidopsis thaliana</i>	sp Q9FXG8.1
AtBLH11	<i>Arabidopsis thaliana</i>	sp Q1PFD1.1
StBEL5	<i>Solanum tuberosum</i>	AF406697
MDH1	<i>Malus domestica</i>	NP_001315679.1
GmBLH4	<i>Glycine max</i>	XP_006574714
WBLH2	<i>Triticum aestivum</i>	BAJ04687.1

TaqSH1/WBLH4

*Triticum aestivum*

BAJ04690.1

qSH1

*Oryza sativa Japonica Group*

XP\_015641948.1

---