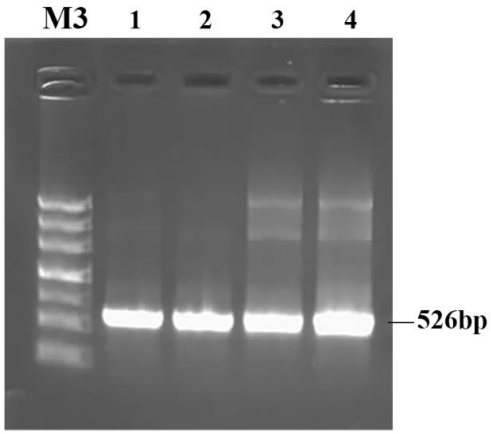
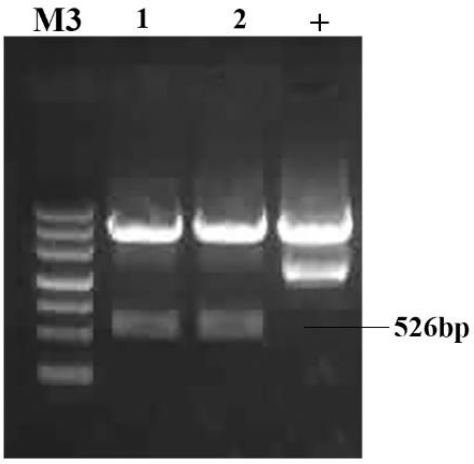
Supplementary Material

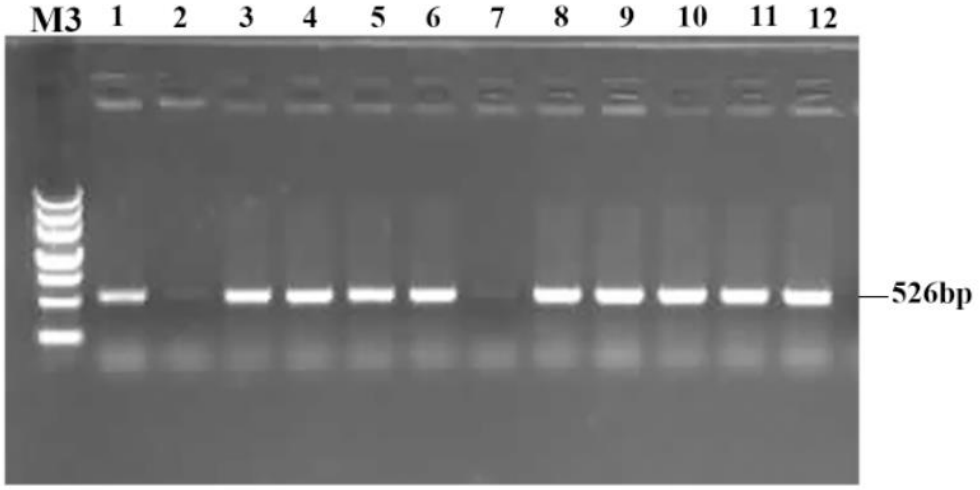
Supplementary Figures



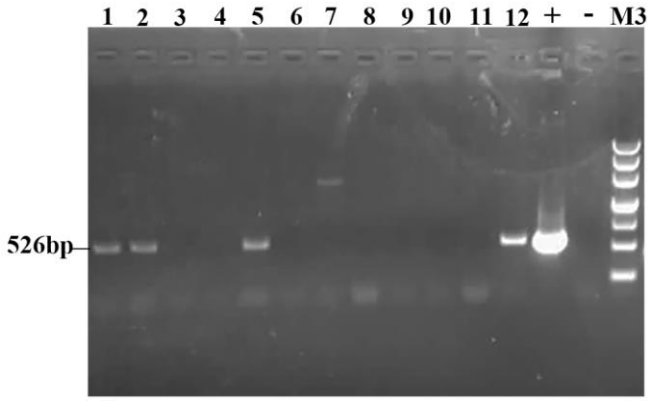
Supplemental Figure S1. Cloning the *LEA5* gene from *Saussurea involucrate*. Numbers 1-4 indicate the SiLEA5 gene cloned from *Saussurea involucrate*'s cDNA.



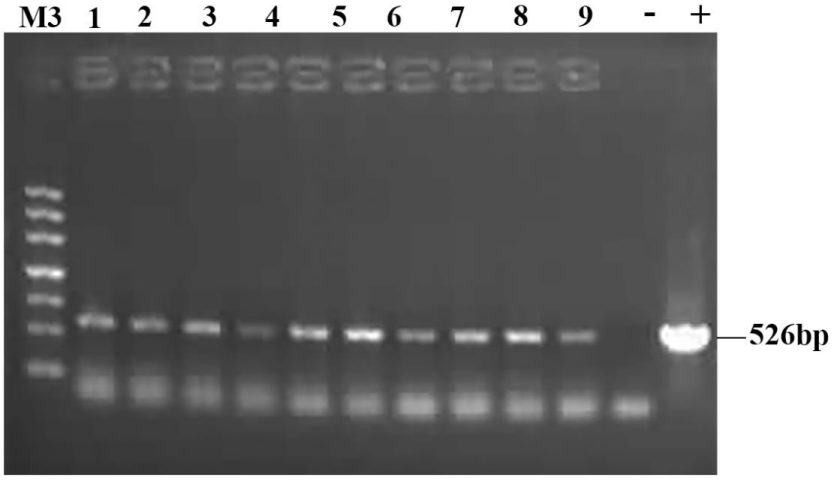
Supplemental Figure S2. Identification of recombinant plasmids by enzyme digestion. Numbers 1-2 indicate using BamH I and Sal I enzyme to identify recombinant plasmid. "+" the plasmid without adding BamH I and Sal I as control.



Supplemental Figure S3. Identification of *Agrobacterium tumefaciens* by PCR. Numbers 1-12 indicate monoclonal.

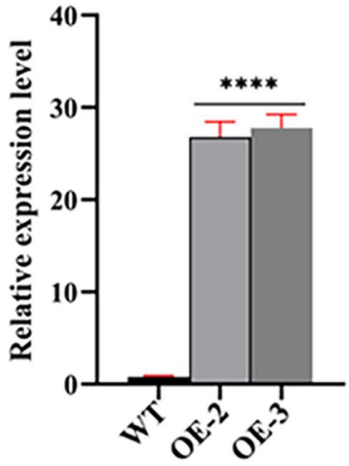


Supplemental Figure S4. Characterization of transgenic tomato through DNA PCR. Numbers 1-12 indicate individual transgenic plant lines, "+" the plasmid used as a positive control, and "-" the non-transgenic plants used as a negative control.



Supplemental Figure S5. Characterization of transgenic tomato expressing *SiLEA5*

through RT-PCR. Numbers 1-9 indicate individual transgenic plant lines, "+" the plasmid used as a positive control, and "-" the non-transgenic plants used as a negative control.



Supplemental Figure S6. Real-time PCR was used to detect wild type and transgenic tomatoes.

Supplementary Table

Table S1. List of primers used in this study.

Primer name	Primer sequence (5′–3′)	Purpose
SiLEA5-F	CCACCTATCAACTACAAAACTC	Cloning
SiLEA5-R	TCCGCATAAACTACTGTTAGCT	Cloning
SiLEA5-F(Q)	GGTCAGATTTGGACGCTAGAG	qPCR
SiLEA5-R(Q)	GATACCCTTCAGTTCCCAGC	qPCR
GAPDH-F(Q)	TAGCAAGGATGCTCCCATGTTCGT	qPCR
GAPDH-R(Q)	AAAGGAGCAAGGCAGTTGGTTGTG	qPCR