

Table S1. Summary of the identified 17 *SICEP* genes

<i>S1CEP16</i>	SolyC07g062360	ch07:64962982-64963669 reverse	687	687	687	229	23619.59	9.92	VYGNLKDYDPSRGAGH VYHNLRSPSPGAGH VYGNLRSGPSPGAGH VYGNLRSVPSPGAGH
<i>S1CEP17</i>	SolyC07g062370	ch07:64980820-64981756 reverse	936	936	936	312	32878.64	9.65	VKSESHSSPSPGEGH

Table S2. Predication of N-terminal signal peptide of SICEP proteins

Protein	Position in sequence	Sequence	Probability	Predicated by
SICEP1	29-30	ATE A RPFI	0.6155	SignalP 5.0
SICEP2	24-25	IVES S IEGR	0.5206	SignalP 5.0
SICEP3	24-25	CIQ C RPI	0.8301	SignalP 5.0
SICEP4	23-24	FSQ G RNL	0.5008	SignalP 5.0
SICEP5	52-53	FAE G RQLK		Signal-CF
SICEP6	27-28	SIE G RHLK	0.3919	SignalP 5.0
SICEP7	28-29	ASE A RPLD	0.4857	SignalP 5.0
SICEP8	24-25	ASE A RPLN	0.7908	SignalP 5.0
SICEP9	31-32	CVE A IRHL		Signal-CF
SICEP10	27-28	FTE G RQLN	0.5818	SignalP 5.0
SICEP11	26-27	TIQ S IEGR	0.3915	SignalP 5.0
SICEP12				
SICEP13	23-24	CFE A RTQL	0.5082	SignalP 5.0
SICEP14	23-24	CFE A RTQL	0.5064	SignalP 5.0
SICEP15	23-24	CFE A RTQL	0.4620	SignalP 5.0
SICEP16	23-24	CFE A KTQS	0.4772	SignalP 5.0
SICEP17	21-22	S F EARKQF	0.7030	SignalP 5.0

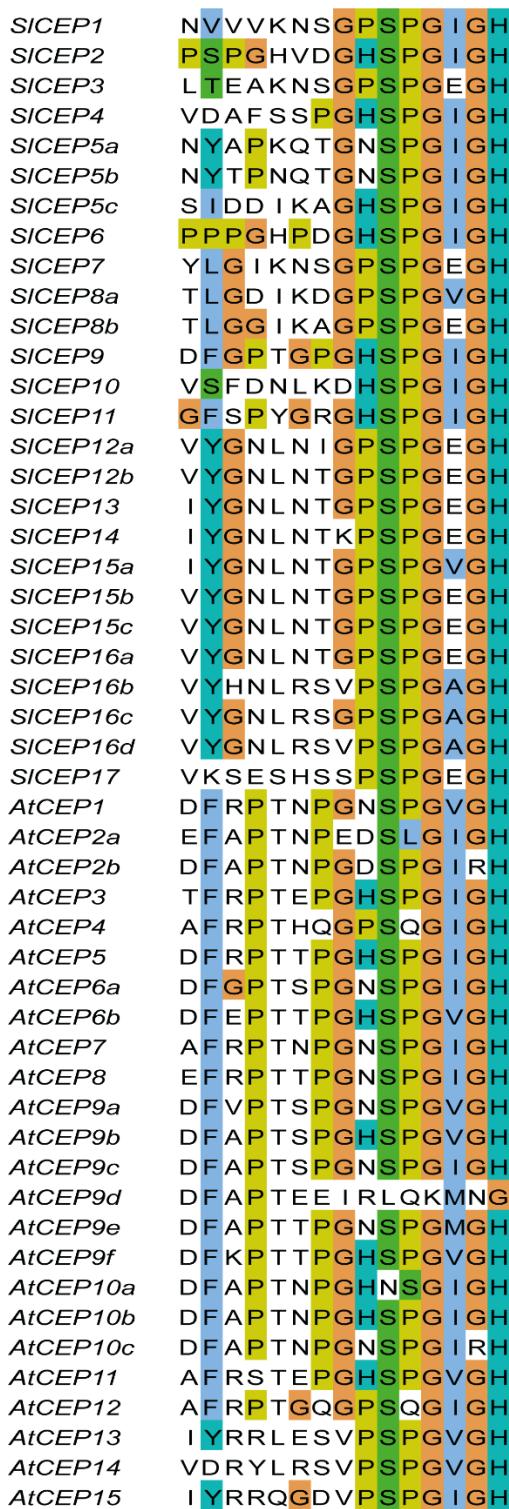


Figure S1. Alignment of CEP motifs in tomato and *Arabidopsis*.

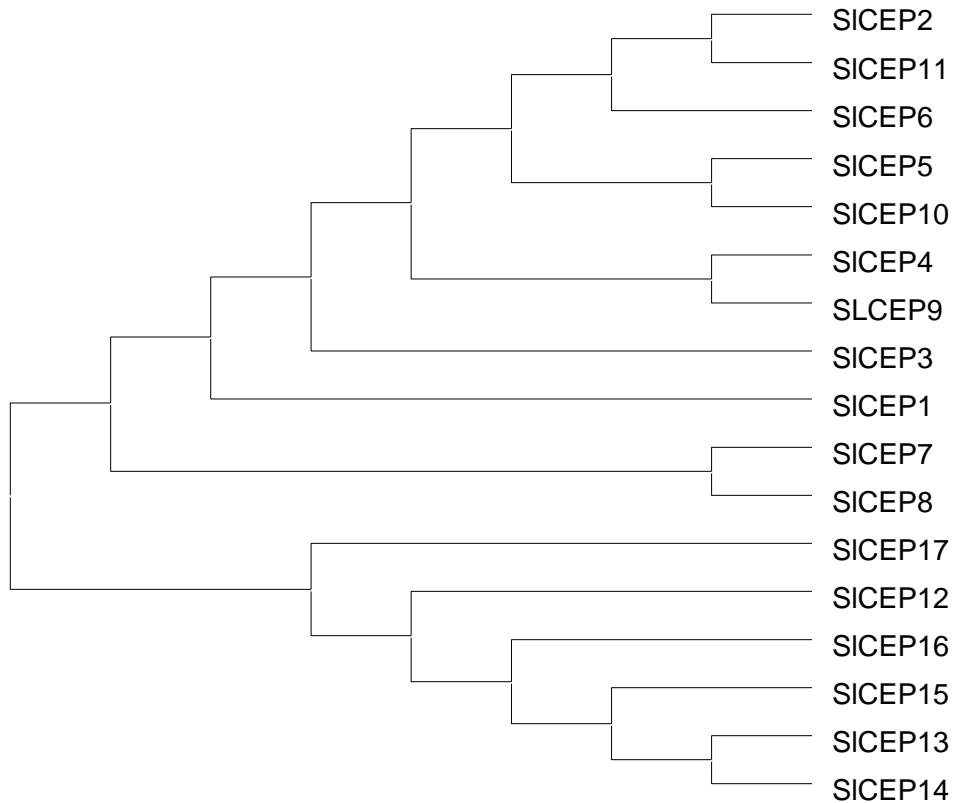


Figure S2. Phylogenetic tree of full-length SlCEP proteins. The phylogenetic tree was build based on the full-length sequences of SlCEP proteins with 1000 bootstrap replicates.

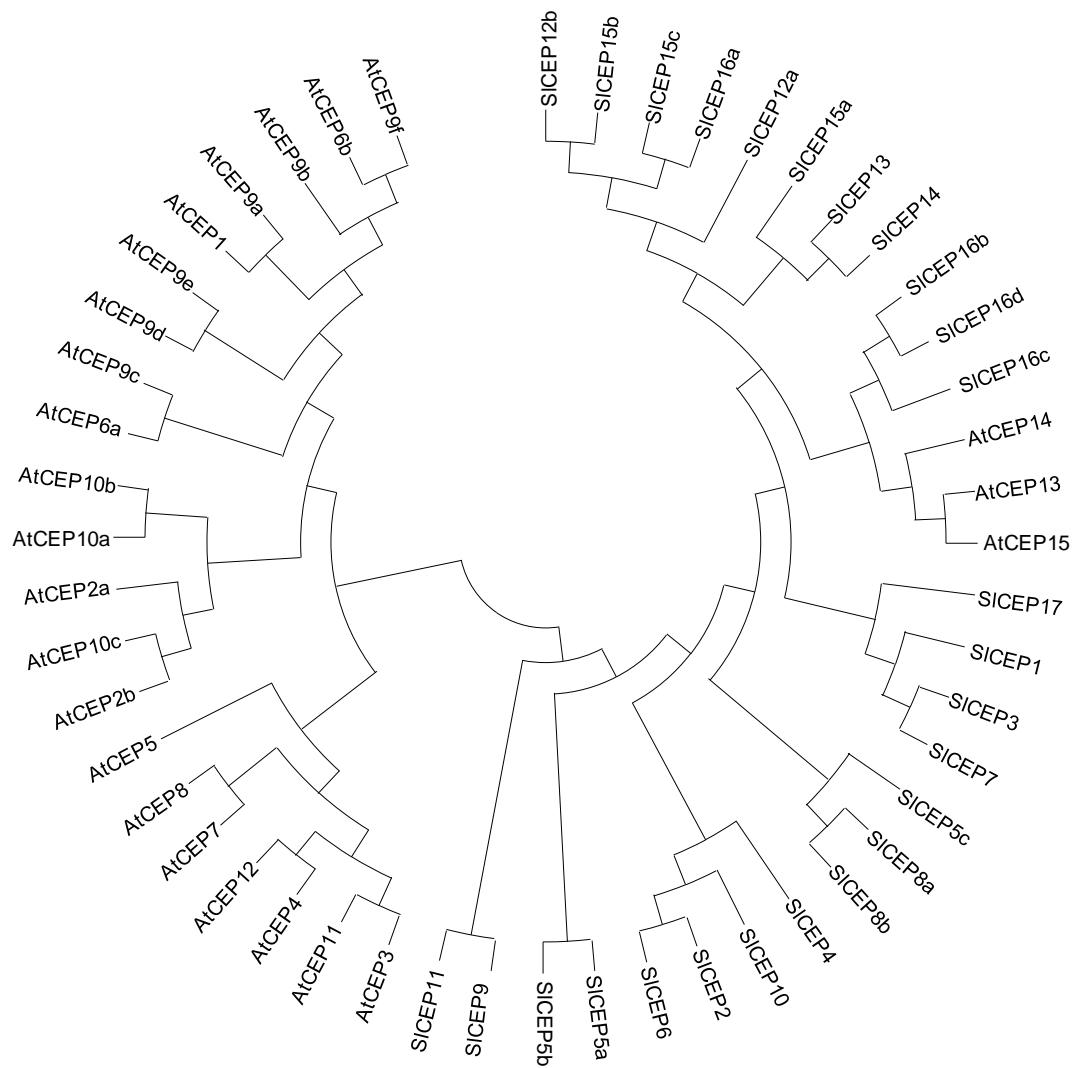


Figure S3. Phylogenetic tree of AtCEP and SICEP proteins based on the CEP motifs. The phylogenetic tree was build based on the CEP motifs of SICEP and AtCEP proteins with 1000 bootstrap replicates.

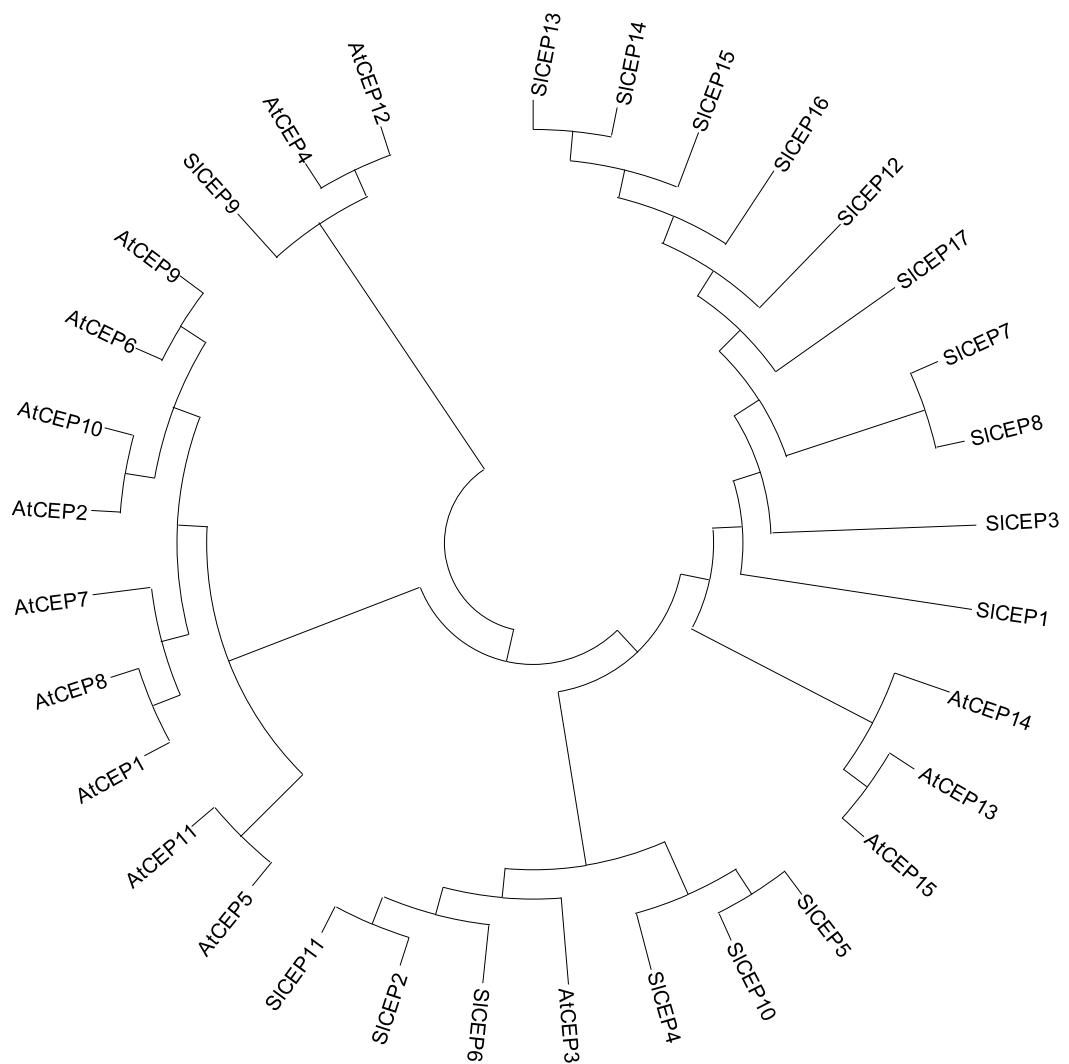


Figure S4. Phylogenetic tree of full-length AtCEP and SiCEP proteins. The phylogenetic tree was build based on the full length of SiCEP and AtCEP proteins with 1000 bootstrap replicates.

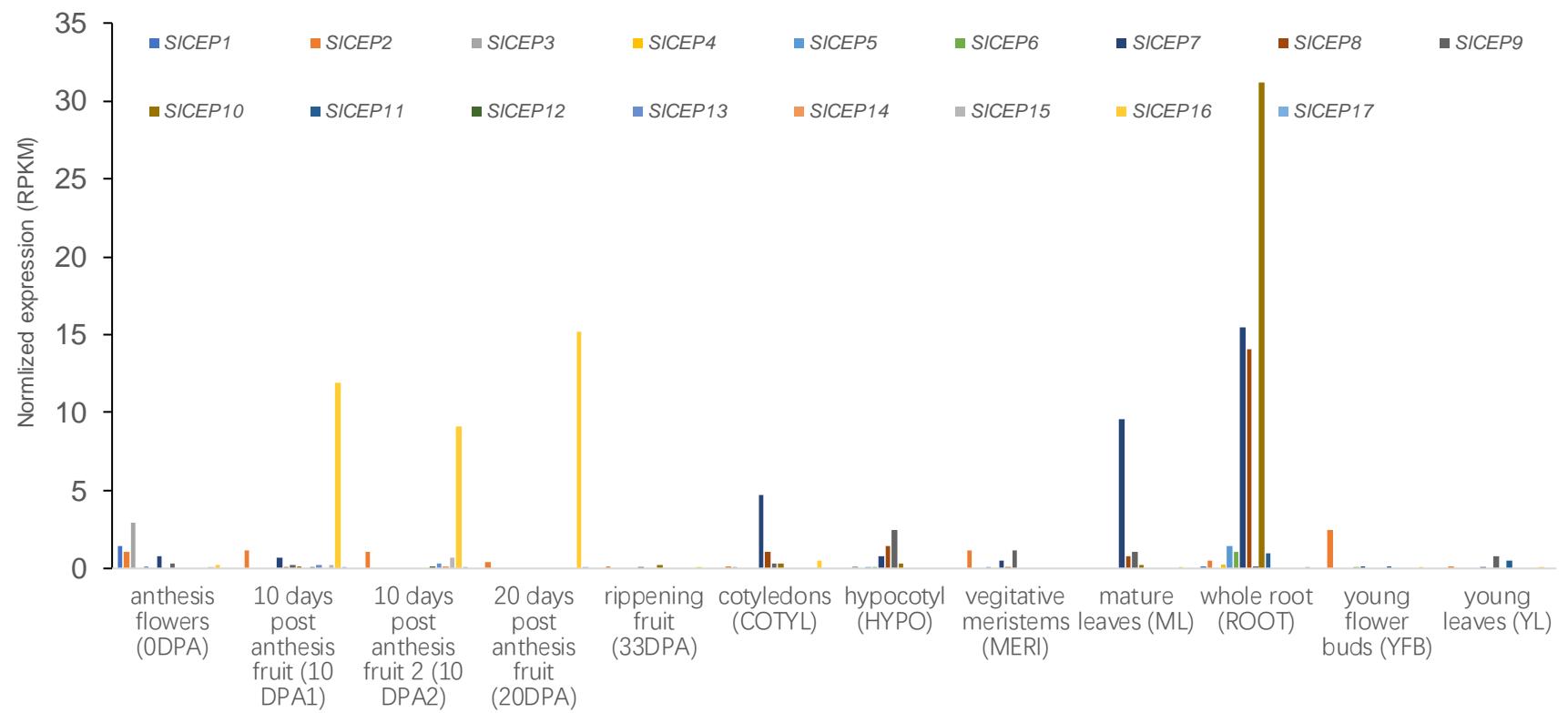


Figure S5. Expression levels of *SICEPs* in tomato tissues. The expression data was extracted from a transcriptome analysis of various tissues in wild species *S. pimpinellifolium*, LA1589.

Table S3 Primers used for qRT-PCR analysis

<i>SICEP1F</i>	ATGGCTCGAGTTATCATTCA	<i>SICEP10F</i>	TATGCATTTACTTCCTTCT
<i>SICEP1R</i>	AGGACCGGAGTTTCACCA	<i>SICEP10R</i>	TTCTTCATACCTTGCTTG
<i>SICEP2F</i>	TCCTTGCTATCTTGTCCCT	<i>SICEP11F</i>	TTCAATCTATCGAGGGACGA
<i>SICEP2R</i>	CATTGTTTGAACAGTGAAT	<i>SICEP11R</i>	CGTCAAATGTTCCCTTCTT
<i>SICEP3F</i>	ATGAAAATGGGCACAACAAA	<i>SICEP12F</i>	ATGTTATGGCAACTTGAAT
<i>SICEP3R</i>	AAGTTGATGAACTTCATGC	<i>SICEP12R</i>	AAACATGACCCATTCTAGGA
<i>SICEP4F</i>	ATGGCTAAGTTTATACCGT	<i>SICEP13F</i>	TATGTTAGTTTCGTTGCAC
<i>SICEP4R</i>	TTTATCTCCTTTCTCGA	<i>SICEP13R</i>	TGTCCTTCACCAGGACTAGG
<i>SICEP5F</i>	GCTGAGGGAAAGACAAC TGAA	<i>SICEP14F</i>	ACTATGTTAGTTTCGTTGC
<i>SICEP5R</i>	TCCGGTTGCTTGGTGCAT	<i>SICEP14R</i>	TCCTTCTCCAGGACTAGGTT
<i>SICEP6F</i>	AGGAAGACATTGAAGTTG	<i>SICEP15F</i>	TTGCACCATGTTGAAGCA
<i>SICEP6R</i>	TCTGAACCAGACTAGTTGGC	<i>SICEP15R</i>	GAGGTGGGCCAAATGTCCG
<i>SICEP7F</i>	GTAAATGCAAGAGCTTCATG	<i>SICEP16F</i>	CTTGCTTCTCGGCCCTATA
<i>SICEP7R</i>	TAAGGCCATTCTTGATAGCA	<i>SICEP16R</i>	ACCAGCTCCAATACTAAGGC
<i>SICEP8F</i>	ATGGTGAGATTTCTTATTT	<i>SICEP17F</i>	AATTTAGCAAAGAAGGTAAC
<i>SICEP8R</i>	CTTAATATCACCCAATGTTA	<i>SICEP17R</i>	GACTCGAGACTGATTCAAA
<i>SICEP9F</i>	ATGGTTATTGTAACAAACAC	<i>SIActinF</i>	CTCAGTCAGGAGAACAGGGT
<i>SICEP9R</i>	TGATACGAAATTCCACAC	<i>SIActinR</i>	GCCTCCAGCCTTGTGTAAA