

Appendix A Primer for full-length cloning and promoter amplification

Genes	Forward(5'-3')	Reverse(5'-3')
<i>SIMYB1</i>	TCCATCATCTTGTTAGGGTTTGTC	TATGTGGGGTTGAAAGGGTTGG
<i>SIMYB2</i>	ATTACAATGAGGAAGCCTGAGT	AAAATGTTGTTGTAGGGTTATT
<i>SICESA4</i>	AAACGAGGAACTATTGGT <u>TCGAC</u> CTTGT(<i>Sall</i>)	GAACGAGCAAGAGCCATGGGGTTAGAT(<i>NcoI</i>)
<i>SICESA7</i>	CGAATTATGCACGT <u>TCGAC</u> CTGACTTAG(<i>Sall</i>)	AGCTTCCATGGCTAAGGATGATTCTAG(<i>NcoI</i>)
<i>SICESA8</i>	CGTCCAAGATAGTGAAGG <u>TCGACA</u> ACA(<i>Sall</i>)	CTGACTCCACCATGGTTTCCACTCAC(<i>NcoI</i>)
<i>SIMYB1</i>	TGCGGCCGCAAAGTTCACCCCTCATAGCAAAA(<i>NotI</i>)	TCCCATGGATAGACAAACCCTA(<i>NcoI</i>)
<i>SIMYB2</i>	TGCGGCCGCATCCACTACTAAAAACCCTATGAG(<i>NotI</i>)	TCCCATGGTAATAATCTCTTTTTTC(<i>NcoI</i>)

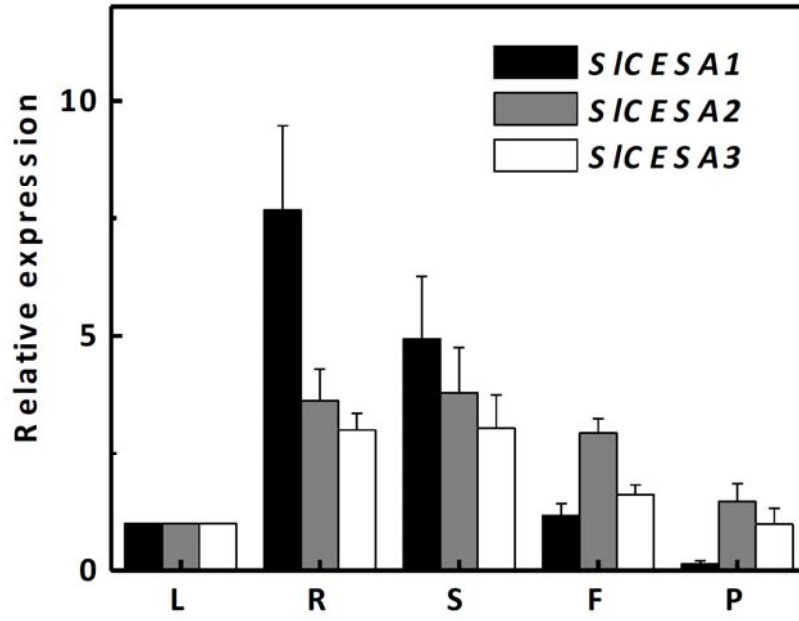
Appendix B Primer for real-time quantitative PCR

Genes	Forward (5'-3')	Reverse (5'-3')
<i>SIMYB1</i>	TCTCCAACCCTTTCAACC	CTTGCTTCATTATTGATCGTCT
<i>SIMYB2</i>	ATCCTCAGATCATCCCTCCAA	AGACGAGGAAGAAGGAGA
<i>SICESA4</i>	GCCATGCCTGGTATCTGT	GCACAATGCCCTTTTCCT
<i>SICESA5</i>	AAAACCAAAGGACCAGAT	TTGTTTGCATTTCAGAGCC
<i>SICESA6</i>	TATGGGTCAAGATAAATCC	TTCACCTCCACATTACAT
<i>NtCESA4</i>	GGAGTGGAATGCTAAATG	GAGTGCCCTTCTCCTTTT
<i>NtCESA5</i>	TGCTCAAACCAAGGGAC	AGCCATATGCAAAATCGA
<i>NtCESA6</i>	TCTGTGCTCTTGGCTTCT	AGAGTTTTTCACCTCCACA
<i>NtMYB1</i>	TCATCACCTAATACCAGCGA	GCTCCGATTATGTCGTAGTTG

Appendix C. mRNA abundance of *SICESA1/2/3* was analyzed in different tissue. L leaves, R roots, S stems, F flower, P pericarp of red fruit. Error bars on each column indicate \pm SE from three biological replicates.

Appendix D. Phenotype of tobacco leaves transformed with *SIMYB1* and *SIMYB2*, Scale bar = 5 cm.

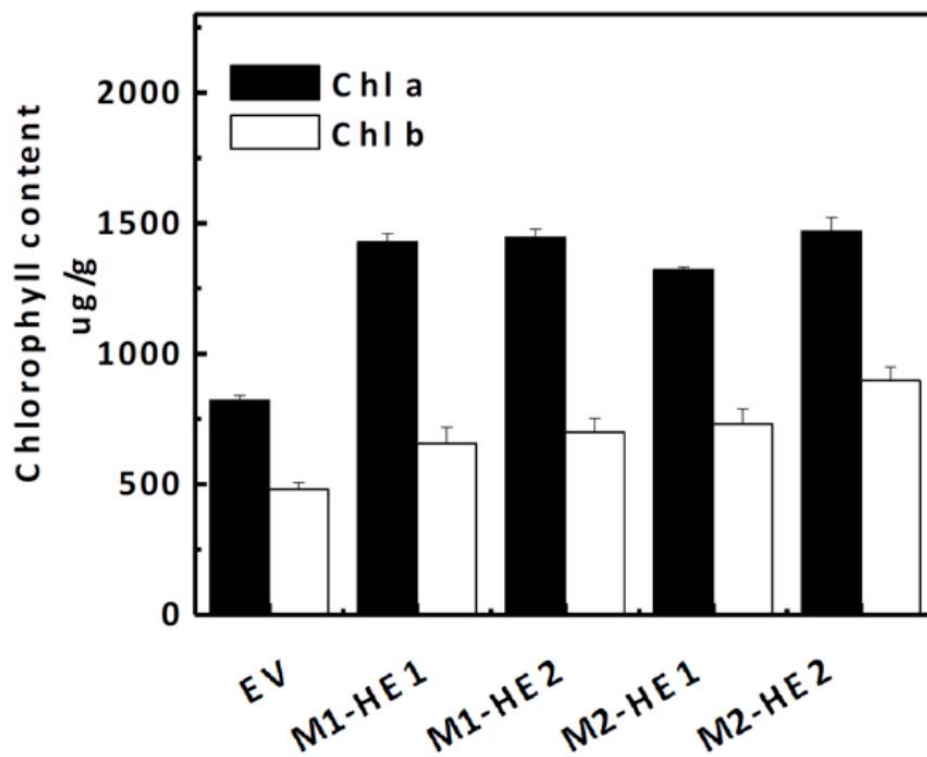
Appendix E. Chlorophyll content was measured in the leaves of the empty vector line (EV) and *SIMYB1/2* heterologous-expression lines. Error bars on each column indicate \pm SE from three biological replicates.



Appendix C



Appendix D



Appendix E