

# Supplementary Materials

## Silencing of *SlMYB78-like* Reduces the Tolerance to Drought and Salt Stress via the ABA Pathway in Tomato

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**Table S1.** Primer sequence in present study.

Primer	Sequence (5'→3')
SICAC-F	CCTCCGTTGTGATGTAACCTGG
q-SICAC-R	GAGAAACCGAACACGCAATCC
q-SIEF1 $\alpha$ -F	TACTGGTGGTTTTGAAGCTG
q-SIEF1 $\alpha$ -R	AACTTCCTTCACGATTTTCATCATA
q-SIMYB78-like-F	GTGCTGGTTTGAAGAGAACAGG
q-SIMYB78-like-R	TGTTGAGCGATTTTTGACCAAC
qSINCED1-F	CCCGATTTGGTATTCTGGATAAGTA
qSINCED1-R	GAGACGGATTTCCGATAAAACACT
qSICAT1-F	AAATGGGTTGAGTCTTTATCCGA
qSICAT1-R	TCATTGATTTTTACATTGTAGGCT
qSICAT2-F	TTCTGCCCTTCTATTGTGGTTC
qSICAT2-R	GTGATGAGCACACTTTGGAGC
qSICYP707-A2-F	TCGAAAAAGGATACAATTTCGATGCC
qSICYP707-A2-R	CTGCAATTTGTTTCGTCAGTGAGTCC
qSLAB13-F	TGGGACTTGTCTGTTTGGAAAC
qSLAB13-R	CCTCACTTTTACCCCTCGTATCAA
qSLAB15-F	CAATACGGGTTGGAAATAGGAA
qSLAB15-R	CTTTTAGCTGATTCAATTCTGCC
qSIPYL2-F	TCTCTTGTGACGCAACGCAT
qSIPYL2-R	GCTACCAACTCCGCCATCA
qSlGolden2-like1-F	GAATTTTCCGTAAGCAGTGGTG
qSlGolden2-like1-R	CTTCTCCTTGATTAGGCTCGT
qSlGolden2-like2-F	ACAATCGGAGGCGGAGGA
qSlGolden2-like2-R	CAAGGAGTGCCTGGTACAAGAG
qSLPIF3-F	CCATCAGCCCCAACTCACT
qSLPIF3-R	CTGCCATCTCATTATTGAACCTCC
qSINCED2-F	TGGTTTTTCATGGGACATTTCATTAGC
qSINCED2-R	ATCTCCCTTCTCAACTCCCTATTCC
SIMYB78-like-RNAi-F	CCCAAGCTTGAATTCTTAGCCGAAAGAATACAAGCC
SIMYB78-like-RNAi-R	TGCTCTAGACTCGAGATTCTCTATATGAATCTCCAACCTC
800-LUC-F	CTGGCGAAAGGGGGATGT
800-LUC-R	TCCAGGAACCAGGGCGTATC

Primer	Sequence (5'→3')
62-SK-F	TTTCATTGGAGAGGACAGCC
62-SK-R	TATCGGGAACTACTCACACATT
62-SK-SIMYB78-like-F	CGCGGATCCATGGATTATCATGGTCAGAAAATTG
62-SK-SIMYB78-like-R	CCGCTCGAGTCACATGTCATTGTTCAATTGTTGT
LUC-SiCYP707A2pro-F	GGGGTACCCCTCGACAATAATAAACCAAAATG
LUC-SiCYP707A2pro-R	CCCTCGAGTGAGATATTGGTATCTTTATCGTCT
AD-F	ACGATGCACAGTTGAAGTGAAC
AD-R	TGGAATCACTACAGGGATGTTTAA
BD-F	CCCAAGGGGTTATGCTAGTTAT
BD-R	GCATAGAATAAGTGCGACATCATC
AD-SIMYB78-like-F	GGAATTCCATATGATGGATTATCATGGTCAGAAAATTG
AD-SIMYB78-like-R	CGCGGATCCTCACATGTCATTGTTCAATTGTTGT
BD-SIMYB78-like-F	GAATTCCATATGATGGATTATCATGGTCAGAAAATTG
BD-SIMYB78-like-R	CGCGGATCCTCACATGTCATTGTTCAATTGTTGT
BD-SIDREB3-F	TCCCCCGGGATGGCAGCTATGGATTTTGG
BD-SIDREB3-R	AAGTGCAGTTATAGAGAGGCCCAATCAATTTC
pAbAi-SiCYP707A2-1-F	GGGGTACCGTTGTTATTTTATGAATAGTGATTATTGTC
pAbAi-SiCYP707A2-1-R	GCGTCGACGTTTGGTACGAAGTAAATATTTTCTG
pAbAi-SiCYP707A2-2-F	GGGGTACCGTTGTTAGCTCATGCTTATAAGATTG
pAbAi-SiCYP707A2-2-R	GCGTCGACCATCATGAATAAAGTGTCTTAACTG
pAbAi-SiCYP707A2-3-F	GGGGTACCTAAATCAACGGATAAGATCGTGT
pAbAi-SiCYP707A2-3-R	GCGTCGACTGAGATATTGGTATCTTTATCGTCTAA
pAbAi-F	TTTTTGTTCTGTGCAGTTGGG
pAbAi-R	CATGGCAGTTTGGAGGTCTCT
SIMYB78-like-nGFP-F	GCTCTAGAATGGATTATCATGGTCAGAAAATT
SIMYB78-like-nGFP-R	CGCGGATCCCATGTCATTGTTCAATTGTTGTAAG
SIDREB3-cGFP-F	TGCTCTAGAATGGCAGCTATGGATTTTGG
SIDREB3-cGFP-R	CGGGGTACCTAGAGAGGCCCAATCAATTTC

**Table S2.** Promoter analysis of *SIMYB78-like* gene.

<i>cis</i> -acting	Sequence	Fucntion	Number
G-box	TACGTG	Light response	4
CAACTG-motif	CAACTG	Drought response	2
ABRE	ACGTG	Abscisic acid response	2
NGNCA-motif	NGNCA	Methyl jasmonate response	1
DOFCOREZM	AAAG	Pollen-specific activation	4
LELAT52	AGAAA	Pollen-specific activation	2

**Table S3.** Analysis of physical and chemical properties of SIMYB78-like protein.

SIMYB78-like	
Gene ID	Solyc05g053330
Molecular weight (kDa)	36.923
Number of amino acids (aa)	318
Molecular formula	C1605H2478N476O502S14
NCBI access number	XP_004239882
Isoelectric point	6.31
Instability coefficient	54.95
Average hydrophilicity	-0.893
CDS Length (bp)	957
Subcellular localization prediction	Nucleus