Supplementary Figure S1

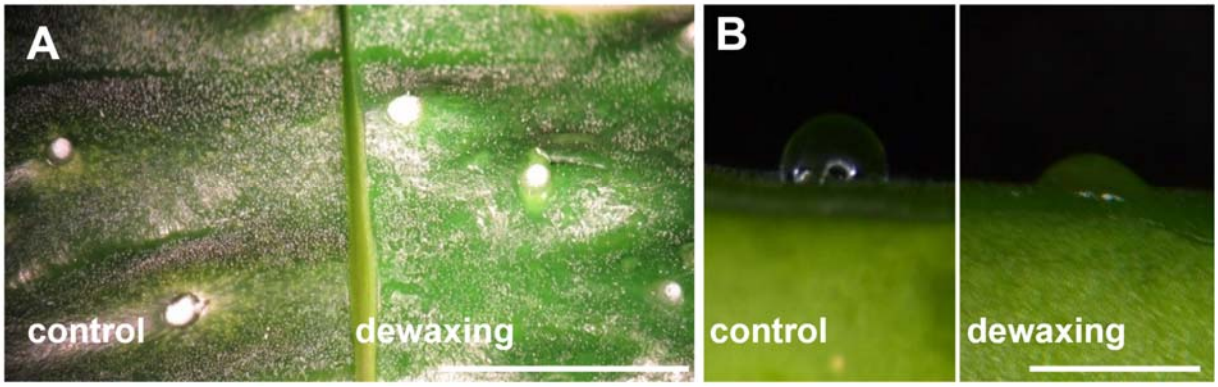


Figure S1. The phenotype of fruit cuticle in cucumber 3401 after dewaxing. (A)The brightness of fruit peel after immersed in water (left) or chloroform (right). (B) The behaviour of water droplets on the 9 DAA 3401 fruit peel after immersed in water (left) or chloroform (right). Scale bars=1cm in A and B.

Supplementary Figure S2

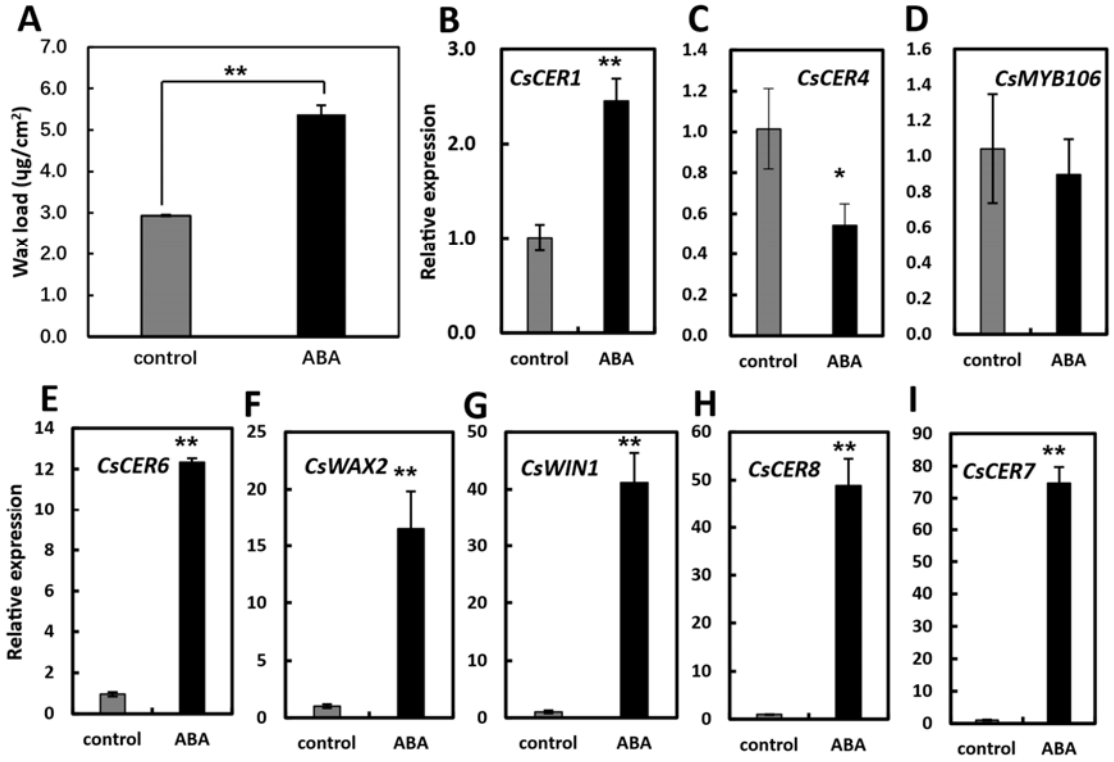


Figure S2. ABA-treatment causes the changes of wax loads (A) and the transcription level of wax related genes (B-I). The data of columns are the mean ± standard deviation. * means $p < 0.05$, ** means $p < 0.01$, Student's t-test.

Supplementary Figure S3

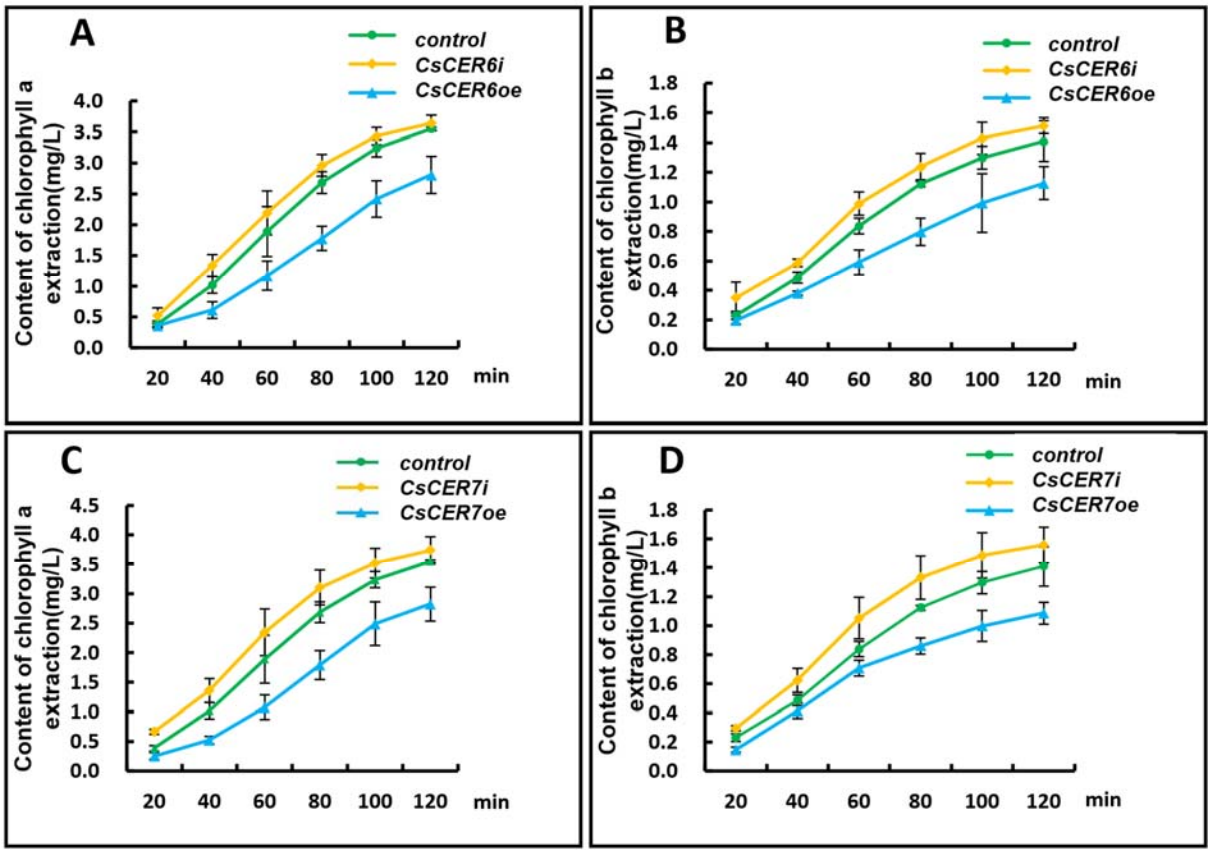


Figure S3. Chlorophyll leaching assay with cucumber fruits at 9 DAA from control plants, *CsCER6*-(A-B) and *CsCER7*-transgenic lines (C-D). The data of lines are the mean ± standard deviation.

Supplemental Table S1. The gene ID list in this study.

Gene Name	Gene ID
CsCER6	*Csa001017*
CsCER7	*Csa006488*
CsCER1	*Csa024936*
CsWAX2	*Csa020530*
CsCER5	*Csa007789*
CsCER8	*Cucsa.300670*
CsWIN1	*Csa006854*
CsCER4	*Csa015124*

Supplemental Table S2. Primers used in this study.

Primers for gene cloning	
CsCER6-clone-F	ATGCCTCCAATCTTGCCGG
CsCER6-clone-R	TTAGAGTTTGACTACTTCAGG
CsCER7-clone-F	ATGGAGCAGAGATTAGCCAA
CsCER7-clone-R	CTAATCCACATCGATAGGGGT
Primers for qRT-PCR	
CsCER1-qRT-F	CTACACTCCCTCGTTCCATTCA
CsCER1-qRT-R	TGCCAACCCAAGCCTCATA
CsWAX2-qRT-F	GCAGAATAGCTTAAATGCAGGC
CsWAX2-qRT-R	TACAATGAAGGCAGCGGGC
CsCER6-qRT-F	CTCATCCCTGTCATGCTCGC
CsCER6-qRT-R	GACAGTGGCAACGAAGATGATG
CsCER7-qRT-F	AAATGATGTCCTCTGAGTCTATGGTT
CsCER7-qRT-R	CGATAGGGGTGGTGGTCTTC
CsCER8-qRT-F	AAAAATCCTGGAAACCGTATGC
CsCER8-qRT-R	ATTCTATGGCACCAGCACCTAA
CsWIN1-qRT-F	TCATTTCCCCATCTTCTCCG
CsWIN1-qRT-R	CATCCATTTCCAACTTCCTCAT
CsMYB106-qRT-F	TTCACTCAAAAAACATCAACAAACT
CsMYB106-qRT-R	AATCCTTCTCCTATTCCTCCACTAC
TUA-qRT-F	ACGCTGTTGGTGGTGGTAC
TUA-qRT-R	GAGAGGGGTAAACAGT
Primers for gene vector construction	
CsCER6-gus-F	GCTCTAGAGAGAAAATTGAAGGTTAAGGGC
CsCER6-gus-R	TCCCCCGGGGAGAGAGATGTAAGAATGAATGGG
CsCER6-gfp-F	GCTCTAGAATGCCTCCAATCTTGCCG
CsCER6-gfp-R	TCCCCCGGGGAGTTTGACTACTTCAGGAATGTGAA
CsCER6-oe-F	GCTCTAGAATGCCTCCAATCTTGCCG
CsCER6-oe-R	TCCCCCGGGTTAGAGTTTGACTACTTCAGGAATGTGA
CsCER6i-for-F	TTGGCGCGCCTCTCGTCAACCACATTTTAACTCT
CsCER6i-for-R	ATTTAAATCATCTGAAACTCAACGCTCTTG
CsCER6i-rev-F	GGACTAGTTCTCGTCAACCACATTTTAACTCT
CsCER6i-rev-R	CGGGATCCCATCTGAAACTCAACGCTCTTG
CsCER7-oe-F	GCTCTAGAATGGAGCAGAGATTAGCCAATAC
CsCER7-oe-R	TCCCCCGGGCTAATCCACATCGATAGGGGTG
CsCER7i-for-F	TTGGCGCGCCGATATCACAACTAAAATAAAAAATGCAG

CsCER7i-for-R	ATTTAAATGCGGTTAGATTTCCACGTGA
CsCER7i-rev-F	GGACTAGTGATATCACAACTAAAATAAAAAATGCAG
CsCER7i-rev-R	CGGGATCCGCGGTTAGATTTCCACGTGA
Primers for *in situ* hybridization	
CsCER6-SP6	GATTTAGGTGACACTATAGAATGCTAACTTGGCTACCAGTATCTCGTC
CsCER6-T7	TGTAATACGACTCACTATAGGGCTCAAGAATCCTCATCTGAAACTC
CsCER7-SP6	GATTTAGGTGACACTATAGAATGCTAGTTAGGGCGTGTAATAGACCG
CsCER7-T7	TGTAATACGACTCACTATAGGGTGACAGAAGCAATTCGCAGAC