Figure S1. The rosette leaves of *CiMADS43* transgenic *Arabidopsis* with varying degrees of curling.

Figure S2. Expression analysis of *CiMADS43* gene in overexpressed transgenic lemons and wild type (WT) .

(a)

gRNA PAM

CiMADS43 (WT): ACAGGGTCACTTTTTCGAAACGCCGAGGAGGGC

CiMADS43 (KO1): ACAGGGTCACTTTTTCGAAACG - - - AGGAGGGC (3-bp deletion)

CiMADS43 (KO2): ACAGGGTCACTTTTTCGAAACG - - - AGGAGGGC (3-bp deletion)

(b)

MADS-domain

CiMADS43 (WT): MGRGKIEIARIESRTNRQVTFSKRRGGLLKKARELSVLCDAEIGLIIFSCTGKLTEFCSES

CiMADS43 (KO1): MGRGKIEIARIESRTNRQVTFSK-RGGLLKKARELSVLCDAEIGLIIFSCTGKLTEFCSES

CiMADS43 (KO2): MGRGKIEIARIESRTNRQVTFSK-RGGLLKKARELSVLCDAEIGLIIFSCTGKLTEFCSES

Figure S3. CiMADS43 gene and protein sequences of wild-type and mutation types at target sites. (a) CiMADS43 gene sequences at target sites. Blue, 20 bp gRNA target sites. red, PAM region. Dashes, deletions. (b) CiMADS43 protein sequences of MADS-domain. Red, High consensus. Blue, Low consensus. Dashes, deletions.