

## Supplementary data:

Table 1. Primer sequences used for real-time qRT-PCR analysis of Dicer-like, argonaute and RDR family genes in cucumber.

Gene name	Sequence ID	Primers for real-time qRT-PCR	
		Forward primer	Reverse primer
<i>CsAGO1a</i>	Csa1M031900.1	CCTTGAGATTCCCCTGAGAC	CCATCATAAGCAGGAAGCC
<i>CsAGO1b</i>	Csa3M144740.1	ACACCGTGGAAATGTTAGGC	ACTTGAAGGCAAGGGAGATG
<i>CsAGO1c</i>	Csa1M408710.1	GCATAGCTCGTGGTTCTGTC	CCCCGAAATCTAACTTTCCCTTC
<i>CsAGO1d</i>	Csa1M408700.1	GGAAAAGGAAAGGAAGGAG	TATGGCTAGGAAGTGGTTGG
<i>CsAGO4</i>	Csa4M269720.1	CCCCCTCCAATGCAGAATACAAGA	GAGCACAACTCAACAGGGAT
<i>CsAGO6</i>	Csa6M421650.1	GGAAATCGGACTGGAAGAGG	CGCAGGATAATGTCAAGCAC
<i>CsAGO7</i>	Csa5M606440.1	GAGTTCTATGTCAGCCTTCC	CCGAATCCAATCATCTCCCTCT
<i>CsDCL1</i>	Csa3M116650.1	CGGTTTGAACACGCAGAA	GAGGCAGGAACAGGGTAG
<i>CsDCL2</i>	Csa1M654870.1	GGTTCCTTTGTCAATTGCCAGA	CAAACCAACGCTCAAGTCAG
<i>CsDCL3</i>	Csa6M361370.1	CCGAATTGGGCTACATTCTCC	CCTGCAAGTGCACCAACTGAT
<i>CsDCL4a</i>	Csa1M267180.1	GACTTGCAGTCATCATCAGG	CAAATGAGGTGCTCCGAA
<i>CsDCL4b</i>	Csa1M267180.2	CGACTTGCAGTCATCATCAGTAGG	CAAATGAGGTGCTCCGAA
<i>CsRDR1a</i>	Csa5M239140.1	GGGATCAATGGGTTAGAACGACTG	GGACGAGAATCAACAATGGGAG
<i>CsRDR1b</i>	Csa5M239640.1	GTCCCTGCTTTAATACCTGC	CCTCGAAACCTTCAACTTCC
<i>CsRDR1c</i>	Csa5M239640.2	TGTTGGGACCCTGATTTG	CCGCATTGCTTTCTTTGGCTCT
<i>CsRDR1d</i>	Csa5M544050.1	GTTCATTGCTCTATCCCTGG	TCGTTTGGGTGAGGTCTT
<i>CsRDR1e</i>	Csa5M564290.1	CAAACGAGTGTCTGGGAGT	GTGGGCATTGCAATGG
<i>CsRDR2</i>	Csa1M005580.1	GCCATGTCCCTATCTGTCA	CCACACTCATCCGTTCTCTTTC
<i>CsRDR3</i>	Csa1M574860.1	TACAGCCACCAACTCCAGAA	CCCCTTTCCAAACTTCGTCTCAA
<i>CsRDR6</i>	Csa2M381730.1	CCCCTACTCAATCATAACAAGTCCACC	TGTCCCAGTAAACCGCTC
<i>CsActin</i>	LOC101220617	CAACCCAAAGGCTAACAGAG	GAATCCAGCACGATACCAGT

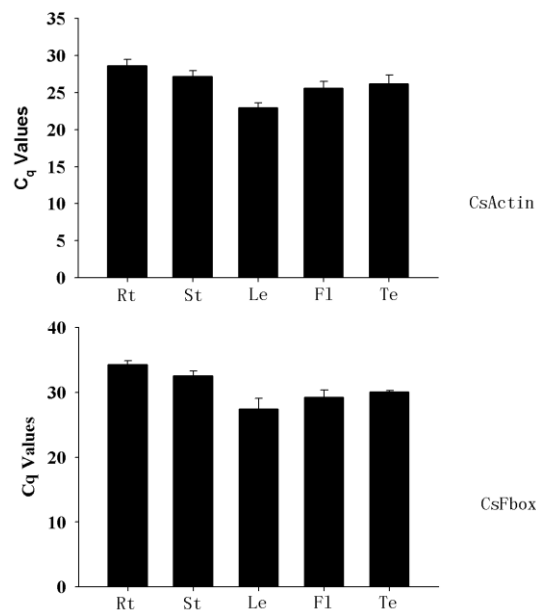


Figure 1. Expression analysis of candidate *CsActin* and *CsFbox* genes by qRT-PCR in response to 4°C treatment. The y-axis indicates Cq values, and error bars represent standard deviations of the mean values of four replicates. Rt, roots; St, stems; Le, leaves; Fl, flowers; Te, tendrils.

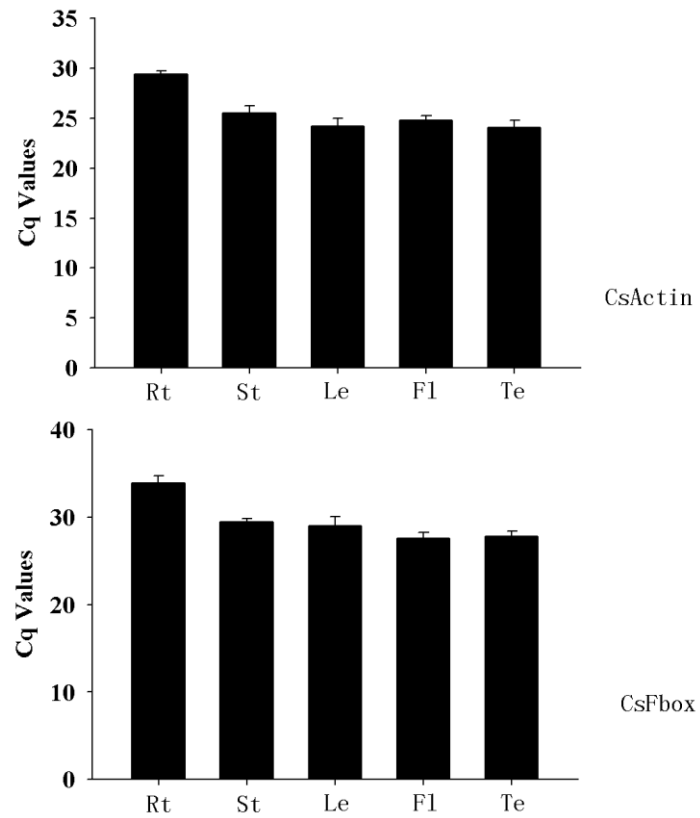


Figure 2. Expression analysis of candidate *CsActin* and *CsFbox* genes by qRT-PCR in response to 40°C treatment. The y-axis indicates Cq values, and error bars represent standard deviations of the mean values of four replicates. Rt, roots; St, stems; Le, leaves; Fl, flowers; Te, tendrils.

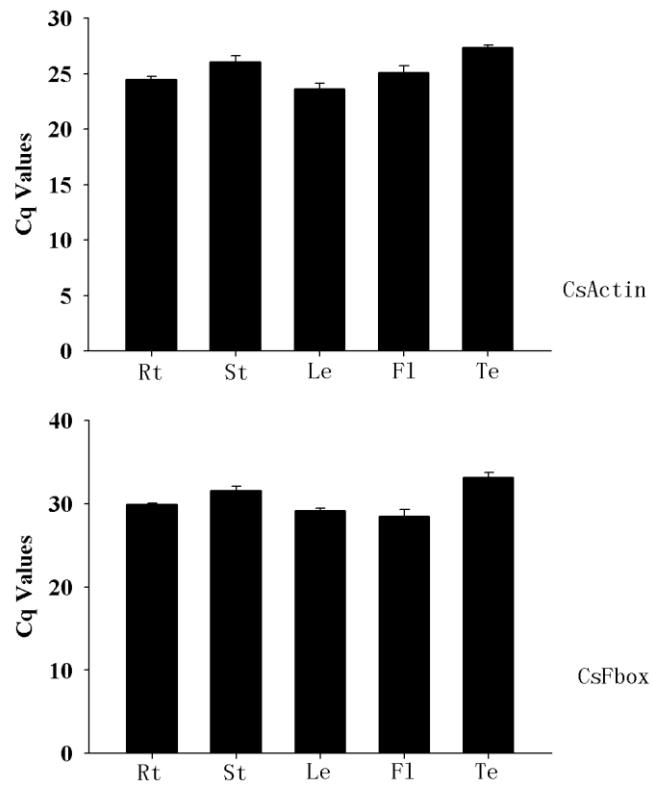


Figure 3. Expression analysis of candidate *CsActin* and *CsFbox* genes by qRT-PCR in response to ABA treatment. The y-axis indicates Cq values, and error bars represent standard deviations of the mean values of four replicates. Rt, roots; St, stems; Le, leaves; Fl, flowers; Te, tendrils.

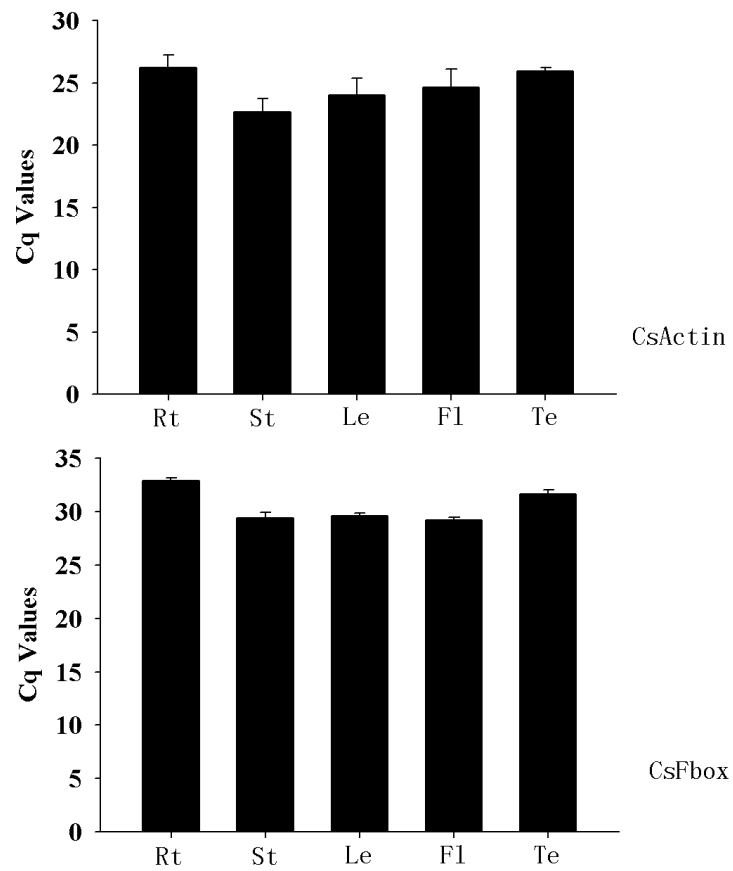


Figure 4. Expression analysis of candidate *CsActin* and *CsFbox* genes by qRT-PCR in response to NaCl treatment. The y-axis indicates Cq values, and error bars represent standard deviations of the mean values of four replicates. Rt, roots; St, stems; Le, leaves; Fl, flowers; Te, tendrils.

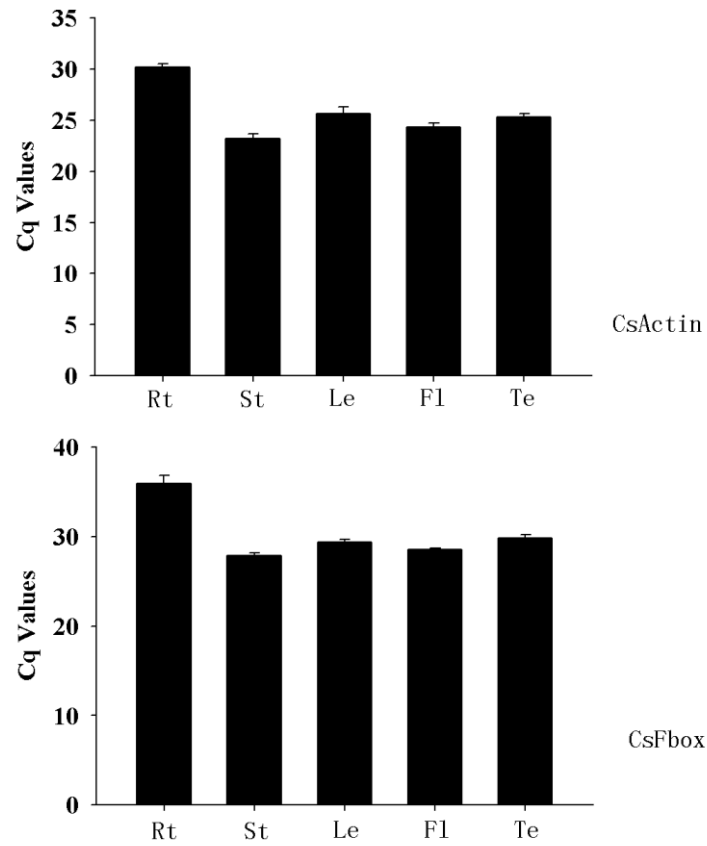


Figure 5. Expression analysis of candidate *CsActin* and *CsFbox* genes by qRT-PCR in response to PEG treatment. The y-axis indicates Cq values, and error bars represent standard deviations of the mean values of four replicates. Rt, roots; St, stems; Le, leaves; Fl, flowers; Te, tendrils.