

miR2119, a Novel Transcriptional Regulator, Plays a Positive Role in Woody Plant Drought Tolerance by Mediating the Degradation of the *CkBI-1* Gene Associated with Apoptosis

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Table S1 Related gene cloning primer sequences of *C. korshinskii*.

Primer name	Primer sequence(5'-3')
<i>miR319-F</i>	CATGCCATGGCAAACACACGCTCGGACG
<i>miR319-R</i>	GAAGATCTGGGATGCCTTAAATAAAGATAAACCC
<i>CkmiR2119-I</i>	GATCAAAGGGAGGTGTGGAGTAGTCTCTCTTTGTATTCC
<i>CkmiR2119-II</i>	GACTACTCCACACCTCCCTTTGATCAAAGAGAATCAATGA
<i>CkmiR2119-III</i>	GACTCCTCCACACCTGCCTTTGTTCACAGGTCGTGATATG
<i>CkmiR2119-IV</i>	GAACAAAGGCAGGTGTGGAGGAGTCTACATATATATTCCT
<i>CkBI-1-F</i>	CATGCCATGGACGCGTTTACATCGTTC
<i>CkBI-1-R</i>	TGAAGATCTGGATCTTTCCTCTTCTTCTTCCT

Table S2 qRT-PCR primer sequences of *C. korshinskii*.

Primer name	Primer sequence(5'-3')
<i>RT-CkmiR2119-F</i>	GCGGCGGTCAAAGGGAGGTGTG
<i>RT-CkmiR2119-R</i>	ATCCAGTGCAGGGTCCGAGG
<i>RT-CkBI-1-F</i>	CGATACTCTCAAGAACTTCCGTCAG
<i>RT-CkBI-1-R</i>	CATGGTTCCAAGGGACGCTAC
<i>u6-F</i>	GGAACGATACAGAAGATTAGCA
<i>u6-R</i>	GTGCAGGGTCCGAGGT
<i>CkUB-F</i>	GACTTTGACCGGGAAGACCA
<i>CkUB -R</i>	CACCACGAAGACGGAGCACA

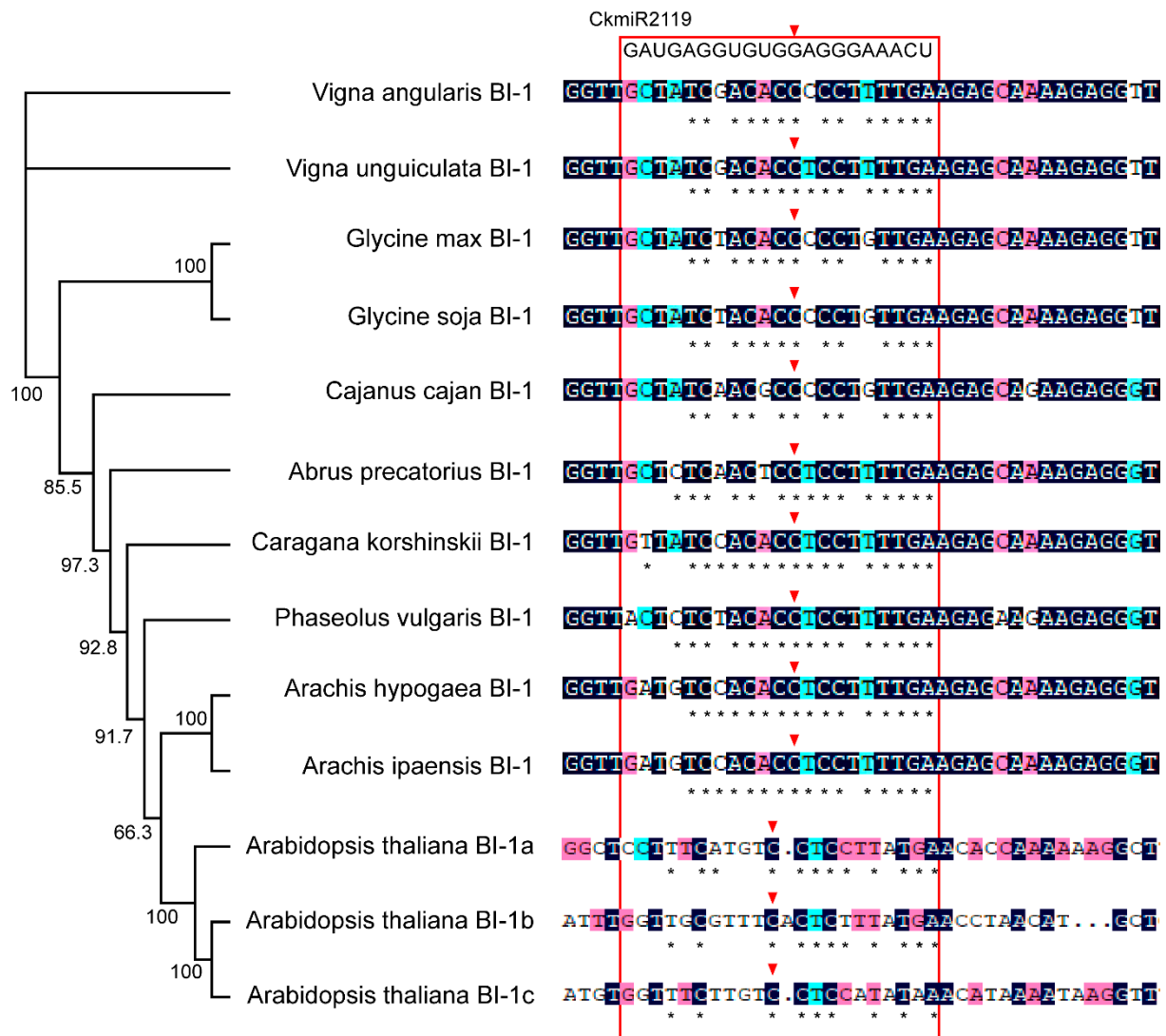


Figure S1. Phylogenetic tree analysis and multiple sequence alignment of BI-1 in *C. korshinskii*, *Glycine max*, *Glycine soja*, *Cajanus cajan*, *Vigna angularis*, *Abrus precatorius*, *Phaseolus vulgaris*, *Arachis hypogaea*, *Arachis ipaensis*, *Arabidopsis thaliana* and *Vigna unguiculata*. The phylogenetic tree was constructed using the full-length CDS sequences of the BI-1 gene of the above species. Bootstrap support (1000 repetitions) is shown for each node. * indicates that this base can pair with CkmiR2119.

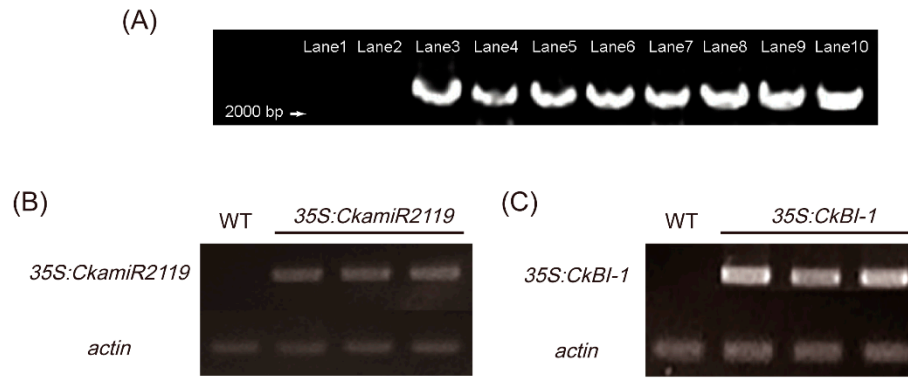


Figure S2. Screening of *CkamiR2119* and *CkBI-1* transgenic tobacco plants. (A) GUS gene detection of T₀ transgenic plants. Lane 1 was water, Lane 2 was wild control plant, Lane 3 was vector, Lane 4 - Lane 6 were *CkamiR2119* transgenic tobacco plants, Lane 7 - Lane 8 were *CkBI-1* transgenic tobacco plants, Lane 9 - Lane 10 were vector transgenic tobacco plants. (B) qRT-PCR identification of T₃ generation *CkamiR2119* transgenic plants. (C) qRT-PCR identification of T₃ generation *CkBI-1* transgenic plants.