

Supplementary Information

Figure S1. Phylogenetic analysis of bZIP protein sequences. Phylogenetic relationship of bZIP proteins from *T. hispida* and Arabidopsis. The amino acid sequences of ThbZIPs and 31 Arabidopsis bZIP genes were aligned, and the unrooted NJ tree was constructed using MEGA 6.06. The sequences of the Arabidopsis bZIP domain proteins were downloaded from the Arabidopsis genome TAIR 9.0 [1].

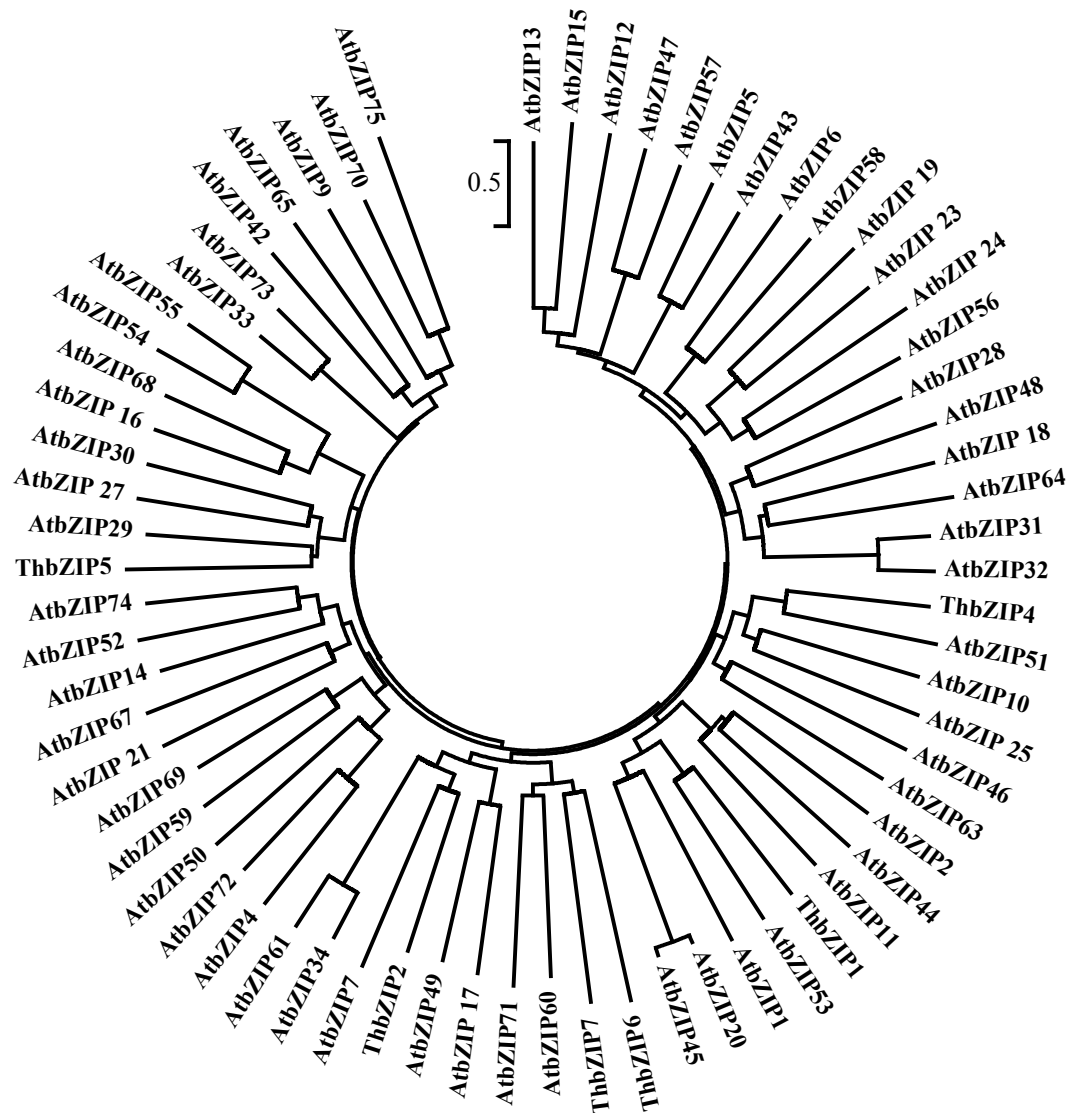


Table S1. The primers used for the yeast two-hybrid system analysis.

Primer Names	Primers Sequences (5'–3')
AD-ThbZIP1F	AAGCAGTGGTATCAACGCAGAGTGGCCATTATG GCCCCATGTATCAACCCGTGAGTTCTGGT
AD-ThbZIP1R	TCTAGAGGCCGAGGCGGCCGACATGTTAGAACTGAAACATATCAGCGGT
AD-ThbZIP2F	AAGCAGTGGTATCAACGCAGAGTGGCCATTAT GCCCCATGGGGTCTTCGAACTCGAAGCCA
AD-ThbZIP2R	TCTAGAGGCCGAGGCGGCCGACATGTCAGAGCCTTCTTCTACCATTGT
AD-ThbZIP4F	AAGCAGTGGTATCAACGCAGAGTGGCCATTAT GCCCCATGAACCCAAATTACTACTCCAAG
AD-ThbZIP4R	TCTAGAGGCCGAGGCGGCCGACATGTTATTGAATCCTATGATTATAGTC
AD-ThbZIP5F	AAGCAGTGGTATCAACGCAGAGTGGCCATTATG GCCCCATGTTGTCCACAATTCCGGCTAAT
AD-ThbZIP5R	TCTAGAGGCCGAGGCGGCCGACATGTTATGGCCATGCAAAAGACTGCTC
AD-ThbZIP6F	AAGCAGTGGTATCAACGCAGAGTGGCCATTAT GCCCCATGGCTTGTATGAAGTTAGGATCT
AD-ThbZIP6R	TCTAGAGGCCGAGGCGGCCGACATGTCACAGGTTTTTCTTGTGCCTTGG
AD-ThbZIP7F	AAGCAGTGGTATCAACGCAGAGTGGCCATTAT GCCCCATGGCGATGCAGACTGGAGTAGGG
AD-ThbZIP7R	TCTAGAGGCCGAGGCGGCCGACATGCTACAATACTAAACCCGCTGGCTT
BD-ThbZIP1F	CATGGAGGCCGAATTCATGTATCAACCCGTGAGTTCTGGT
BD-ThbZIP1R	GCAGGTCGACGGATCCGAACCTGAAACATATCAGCGGTATT
BD-ThbZIP2F	CATGGAGGCCGAATTCATGGGGTCTTCGAACTCGAAGCCA
BD-ThbZIP2R	GCAGGTCGACGGATCCTTACGAGCCTTCTTCTACCATTGT
BD-ThbZIP4F	CATGGAGGCCGAATTCATGAACCCAAATTACTACTCCAAG
BD-ThbZIP4R	GCAGGTCGACGGATCCTTGAATCCTATGATTATAGTCTAG
BD-ThbZIP5F	CATGGAGGCCGAATTCATGTTGTCCACAATTCCGGCTAAT
BD-ThbZIP5R	GCAGGTCGACGGATCCTGGCCATGCAAAAGACTGCTCATG
BD-ThbZIP6F	CATGGAGGCCGAATTCATGGCTTGTATGAAGTTAGGATCT
BD-ThbZIP6R	GCAGGTCGACGGATCCAGGTTTTTCTTGTGCCTTGGATG
BD-ThbZIP7F	CATGGAGGCCGAATTCATGGCGATGCAGACTGGAGTAGGG
BD-ThbZIP7R	GCAGGTCGACGGATCCCAATACTAAACCCGCTGGCTTAA

Table S2. Primers used for construction of the reporter and effector vectors.

Primer Names	Primers Sequences (5'–3')
pROKII-ThbZIP1F	CTCTAGAGGATCCCCATGTATCAACCCGTGAGTTCTGGT
pROKII-ThbZIP1R	TCGAGCTCGGTACCCTTAGAACTGAAACATATCAGCGGT
pROKII-ThbZIP2F	CTCTAGAGGATCCCCATGGGGTCTTCGAACTCGAAGCCA
pROKII-ThbZIP2R	TCGAGCTCGGTACCCTCAGAGCCTTCTTCTACCATTGT
pROKII-ThbZIP4F	CTCTAGAGGATCCCCATGAACCCAAATTACTACTCCAAG
pROKII-ThbZIP4R	TCGAGCTCGGTACCCTTATTGAATCCTATGATTATAGTC
pROKII-ThbZIP7F	CTCTAGAGGATCCCCATGGCGATGCAGACTGGAGTAGGG
pROKII-ThbZIP7R	TCGAGCTCGGTACCCCTACAATACTAAACCCGCTGGCTT
pCAM-C-boxF	AGCTTGACGTCGACGTCGACGTCACCCCTTCTCTATATA AGGAAGTTCATTTCAATTTGGAGAGAACACGGC
pCAM-C-boxR	CATGGCCGTGTTCTCTCCAAATGAAATGAACTTCCTTAT ATAGAGGAAGGGTGACGTCGACGTCGACGTCA

Table S3. Primer sequences used in real time RT-PCR.

Gene	GenBank Accession Number	Forward Primers (5'–3')	Reverse Primers (5'–3')
<i>ThbZIP1</i>	FJ752700	AGGATGATCTCCAACCGG	AAGGAATTCAGAGAATTC
<i>ThbZIP2</i>	JX169811	G TTCAGGGATTCATCAGG	ATGGCTATCAATCCAACC
<i>ThbZIP4</i>	JX169812	GATTCGGTGCTTGATGGT	TTGCTCCATGGCCTGCAG
<i>ThbZIP5</i>	JX169813	GTTATCATGCCGGTTCGG	GGTCGTCCGTTCGTGATT
<i>ThbZIP6</i>	JX169814	CTTCTGATGCCCAACTTC	CGATAAAGACCATCATCT
<i>ThbZIP7</i>	JX169815	GAGAGTGTTCAGATGCT	GTGGTTATATGACTGGAC
<i>Actin</i>	FJ618517	AAACAATGGCTGATGCTG	ACAATACCGTGCTCAATAGG
<i>α-tubulin</i>	FJ618518	CACCCACCGTTGTTCCAG	ACCGTCGTCATCTTCACC
<i>β-tubulin</i>	FJ618519	GGAAGCCATAGAAAGACC	CAACAAATGTGGGATGCT

Table S4. Primer sequences used in construction of the overexpression vectors of *ThbZIP1* and *ThbZIP1* fused with GFP.

Primer Names	Primers Sequences (5'–3')
GFP- <i>ThbZIP1</i> F	CTCTAGAGGATCCCCATGTATCAACCCGTGAGTTCTGGT
GFP- <i>ThbZIP1</i> R	GAAC TGAAACATATCAGCGGTATT
GFP- <i>ThbZIP2</i> F	CTCTAGAGGATCCCCATGGGGTCTTCGAACTCGAAGCCA
GFP- <i>ThbZIP2</i> R	TTACGAGCCTTCTTCTACCATTTGT
GFP- <i>ThbZIP4</i> F	CTCTAGAGGATCCCCATGAACCCAAATTACTACTCCAAG
GFP- <i>ThbZIP4</i> R	TTGAATCCTATGATTATAGTCTAG
GFP- <i>ThbZIP5</i> F	CTCTAGAGGATCCCCATGTTGTCCACAATTCCGGCTAAT
GFP- <i>ThbZIP5</i> R	TGGCCATGCAAAAGACTGCTCATG
GFP- <i>ThbZIP6</i> F	CTCTAGAGGATCCCC ATGGCTTGTATGAAGTTAGGATCT
GFP- <i>ThbZIP6</i> R	CAGGTTTTTCTTGTGCCTTGGATG
GFP- <i>ThbZIP7</i> F	CTCTAGAGGATCCCCATGGCGATGCAGACTGGAGTAGGG
GFP- <i>ThbZIP7</i> R	CAATACTAAACCCGCTGGCTTTAA
GFPR	TCGAGCTCGGTACCCTCACTTGTACAGCTCATCCATGCC