Supplementary materials:

Table S1 The *CONSTANS-like* genes published in other species.

Gene published	Gene ID	Species	Group	Function	Reference
CO	AT5G15840	Arabidopsis	I	Accelerating flowering in response to long days	[1]
COL1	AT5G15850	Arabidopsis	I	Accelerating the circadianclock	[2]
COL2	AT3G02380	Arabidopsis	I	No influence on flowering time in overexpression plant	[2]
COL3	AT2G24790	Arabidopsis	I	Promoting lateral root development; daylength-sensitive regulator of shoot branching	[3]
COL5	AT5G57660	Arabidopsis	I	Inducing flowering under short days condition	[4]
COL7	AT1G73870	Arabidopsis	III	Regulating branching and shade avoidance rsponse	[5]
COL8	AT1G49130	Arabidopsis	III	Delaying flowering under long-day conditions	[6]
COL9	AT3G07650	Arabidopsis	II	Delaying flowering	[7]
Hd1	Os06g0275000	Rice	I	Promotion of flowering under short-day conditions and inhibition under long-day conditions	[8]
Ghd7	Os07g0261200	Rice	II	Delaying flowering under long day condition	[9]
OsCO3	AB001887	Rice	I	Delaying flowering under short day condition	[10]
OsCOL4	Os02g0610500	Rice	I	Delaying flowering	[11]
DTH2	JX202590	Rice	II	Promoting flowering under long day condition	[12]
LpCO	AY600919	Ryegrass	I	Accelerating flowering	[13]
HvCO1	AF490467	Barley	I	Accelerating flowering	[14]
HvCO9	AB592332	Barley	I	Delaying flowering	[15]

References

[1] Suarez-Lopez P., Wheatley K., Robson F., Onouchi H., Valverde F., Coupland G., CONSTANS mediates between the circadian clock and the control of flowering in *Arabidopsis*, Nature 2001, 40, 11161120.

[2] Ledger S., Strayer C., Ashton F., Kay S., Putterill J., Analysis of the function of two circadian-regulated CONSTANS-LIKE genes, Plant J., 2001, 26, 15–22.

[3] Datta S., Hettiarachchi G., Deng X., Holm M., *Arabidopsis* CONSTANS-LIKE3 is a positive regulator of red light signaling and root growth, Plant Cell, 2006, 18, 70–84.

[4] Hassidim M., Harir Y., Yakir E., Kron I., Green R.M., Overexpression of *CONSTANS-LIKE 5* can induce flowering in short-day grown *Arabidopsis*, Planta 2009, 230, 481–491.

[5] Wang H., Zhang Z., Li H., Zhao X., Liu X., Ortiz M., Lin C., Liu B., CONSTANS-LIKE 7 regulates branching and shade avoidance response in *Arabidopsis*, J. Exp. Bot., 2013, 64, 1017–1024.

[6] Takase T., Kakikubo Y., Nakasone A., Nishiyama Y., Yasuhara M., Kiyosue Y., Characterization and transgenic study of *CONSTANS-LIKE8* (*COL8*) gene in *Arabidopsis thaliana 35S:COL8* delays flowering under long-day conditions, Plant Biotechnol., 2011, 28, 439-446.

[7] Cheng X.F., Wang Z.Y., Overexpression of *COL9*, a CONSTANSLIKE gene, delays flowering by reducing expression of CO and FT in *Arabidopsis thaliana*, Plant J., 2005, 43, 758–768.

[8] Yano M., Katayose Y., Ashikari M., Yamanouchi U., Monna L., Fuse T., Baba T., Yamamoto K., Umehara Y., Nagamura Y., Sasaki T., *Hd1*, a major photoperiod sensitivity quantitative trait locus in rice, is closely related to the Arabidopsis flowering time gene *CONSTANS*, Plant Cell, 2000, 12, 2473–2484.

[9] Xue W., Xing Y., Weng X., Zhao Y., Tang W., Wang L., Zhou H., Yu S., Xu C., Li X., Zhang Q., Natural variation in Ghd7 is an important regulator of heading date and yield potential in rice, Nat. Genet. 2008, 40 (6), 761–767

[10] Kim S., Yun C., Lee J., Jang Y., Park H., Kim J., *OsCO3*, a *CONSTANS-LIKE* gene, controls flowering by negatively regulating the expression of *FT*-like genes under SD conditions in rice, Planta 2008, 228, 355–365.
[11] Lee Y., Jeong D., Lee D., Yi J., Ryu C., Kim S., Jeong H., Choi S., Jin P., Yang J, et al., *OsCOL4* is a constitutive flowering repressor upstream of *Ehd1* and downstream of *OsphyB., Plant J. 2010, 63, 18-30*.
[12] Wu W., Zheng X., Lu G., Zhong Z., Gao H., Chen L., Wu C., Wang H., Wang Q., Zhou K., et al., Association of functional nucleotide polymorphisms at DTH2 with the northward expansion of rice cultivation in Asia, Proc. Natl. Acad. Sci. USA, 2013, 110, 2775–2780.
[13] Martin J., Storgaard M., Andersen C., Nielsen K., Photoperiodic regulation of flowering in perennial ryegrass involving a CONSTANS like homolog, Plant Mol. Biol., 2004, 56, 159–169.
[14] Campoli C., Drosse B., Searle I., Coupland G., von Korff M., Functional characterisation of HvCO1, the barley (*Hordeum vulgare*) flowering time ortholog of CONSTANS, Plant J. 2012, 69, 868–880.
[15] Kikuchi R., Kawahigashi H., Oshima M., Ando T., Handa H., The differential expression of HvCO9, a member of the CONSTANS-like gene family, contributes to the control of flowering under short-day conditions in barley, J. Exp. Bot., 2012, 63, 773–784.

Table S2 Primer sequences used for qRT-PCR.

	Forward primer	**Reverse primer**
BniCOL01	GCACGACACTTTGTTCCCTT	TTACAACCCTAAGCTGCCGA
BniCOL02	CGTTCAGAATCGGTCAACCC	CCGACGAGTCTCTCCAGAAA
BniCOL03	TGGCCAGACTGCATGGATAT	TTCTTGGCCTCTTCTCTGCA
BniCOL04	GGAAGAGCAAGACCAACAGC	GAGAGGGTCCAATATCGGCA
BniCOL05	AGATGGACGGGGAACAAGAG	AGAGGAAGAGGTTGTCGGTG
BniCOL06	CTCTCGAAGGCTTCAATGGC	ACCCACAGAGCAAGGAACAT
BniCOL07	GGAGAACTTCAGGCACTTGG	CTTCCGACACGCATACTTGA
BniCOL08	CAACTCCTTCGAGCAAAAGC	GACCTCTGTGTCCCTCGAAC
BniCOL09	CGACACACCGAAGAGGAAGA	GGCTTTGACCATGGCACTAC
BniCOL10	TCAAAATTTCGCCCAAGAAG	ATCGAGATAGCCGCTGTGAT
BniCOL11	GAGCAAAGCGTGTCGTTACA	ATGGCTCCACTGAGCAATTT
BnHDZIP01	TAATGGCTCAGGACCACCTC	TCGCATTCCATCTCTGTCTG
BnHDZIP02	CCCTGACAGGAAAATGAAGC	ACTGCTTGCTCGCTTAGCAT
BnHDZIP03	ATTTCCGGCGAAGTAGAGGT	TGTGGTGTGCTCTTTGAAGC
BnHDZIP04	GGACTCAGACAGCGGAAAAG	ATCGGGAGATGTCAACGAAC
BnHDZIP05	TCCTGGAGAAGAGCTTCGAG	GACTCGTAGTCGGCCTTGAG
BnHDZIP06	ATGTTGTCGGGCAACTTTTC	TGACTTGAGACTCGCATTGG
BnHDZIP07	AGGACGAGGACGGCTCTAAC	CTTCCGTTTGCTTCAGCTTC
BnHDZIP08	AGCAGAAATGCTTCCCAGTG	ATTTCTTGGGCAATTTGTCG
BnHDZIP09	CAACAAAAACCCACAAACCC	CTTCGTTTCGAGCTCTCGTC
BnHDZIP10	CTTGGCGTCCAAGTTTGAGT	CGCTCAAAATCGCCTCTATC
BnHDZIP11	TCTAACCCAACCACACCACA	CCTTCTCGAAGCTCATCACC
BnHDZIP12	AACATACGCAGAGCACAACG	ATTTGGACCCACTCAACAGC
BnHDZIP13	GAGACCGCCGTTGTTATCAT	GGGTCGGAACTAGTGGTGAA
BnHDZIP14	ATGAGCGGAAGATTTGATGG	CAACACGGAGAAGGTGTGTG
BnHDZIP15	CCCTTGCCTTGTGCTAAGAG	GGGGGAAGTGAAAAGTGTGA
BnHDZIP16	GAGGGGAAAGGAAGAGATGC	TGTCATCTGGGTGTGGACAT
BnHDZIP17	AGATCCGAGACATGGACGAC	CACGGCTCAACTCCTTTCTC
BnHDZIP18	GCCCACCAAAAGATCACAGT	CTCTCTGGCTCGAGCTTGTT
BnHDZIP19	TGCTTGTCTCCATGGTCTTG	CAAACAGGCGTGAACTCAAA

	Forward primer	Reverse primer
BnHDZIP20	ATTGACAGCCCTCTCTCCAA	TGGAGGTGTTGGTGATGTTG
BnHDZIP21	GCCATAGCCGAAGAAAACAG	GGTCTGGCTTGTTGTCGTTT
BnHDZIP22	TGTCGTCGTTTCACATGGAT	CGAGTTGACCCGTTTTCTTC
BnHDZIP23	CCGACAACAACAGCAACAAT	ACAGCTCCACCCATTTGTTC
BnHDZIP24	CGAGAATCTGACGGAGGAGA	GCCCATAAGAGTGTGGGTGT
BnHDZIP25	GGAGATCGTCAACCAGTCGT	ACAAAAACGACACCGACCTC
BnbZIP01	GAAACCCATTTCCGTCCTTC	ATCCGTTCGGTTACTGTTCG
BnbZIP02	AGCGAGCACAGGATTAGCAT	CCTTATTGGTCGTTGCAGGT
BnbZIP03	CCAGTGCAGCCAAAACACTA	ATGAGCTCTCTGGGGTTCAA
BnbZIP04	GTTGTTGGGTTCGGTAATGG	CTCCTCCTCAAGCCTCACTG
BnbZIP05	CCAAGAGGATTCTTGCGAAC	CCATTGCTTGTAACCGGAGT
BnbZIP06	CTTCAGCTGATTGTGGCTCA	ACTGTTCGTGTGACGATCCA
BnbZIP07	TCAACGATTGCTTCTGAACG	GCTGTTGGTGATGGTGATTG
BnbZIP08	TGCCACCAAAAATACCGATT	ATCATCAGAGGCTCCAGGAA
BnbZIP09	TCGATCGGTACCAGAGGACT	TCTGCAAAGAGCCTTCCATT
BnbZIP10	TAACACTGCCACTTCCACCA	GGTCGGTGGTGAGTTGATCT
BnbZIP11	ACGTCTTCCACCTCATCACC	TGATCCAACCCCTGAGAGAG
BnbZIP12	CCATGCCTCCTGATAAGCTC	TAACGCGAACCTGGAACAGT
BnbZIP13	CCAGGATGAGGAAGCAGAAG	ACGATCTCGTCAAGGGACTG
BnbZIP14	GGCGATCACGAAGAAGAAAG	AGCCTCTTGCAACCATGTCT
BnbZIP15	GAAGAACAATGAGGCGGGTA	CGGAGGACCATGCATAGAAT
BnbZIP16	GGAAGCAGAAGCAGATGGAG	GACCTGGAGGAACGAGTTGA
BnbZIP17	AGAGGGCACTCCAACAACTG	GAAGGCAAAACTGGGTTCAA
BnbZIP18	TCCTCCTCTGCTTCTGCTGT	TGGAGGATTTCCTGACGAAG
BnbZIP19	TGGCTAAGGTGGTGAAGACC	ATGGCATAACCATCGCATTT
BnbZIP20	TTCGATGGAGGATAGGGATG	CACCAACTGAGCACCATCAG
BnbZIP21	TTCTCAAGGTAACGGCCAAC	AGAGCTCTCCTCGACCTTCC
BnbZIP22	AGGCAAGGGTCGTTGACTC	TGAGCGTCGTTGTTGTCTTC
BnbZIP23	ACGTTCGAGATGGAATACGG	AAATGCCGGACATGAGGTAA
BnbZIP24	GATTCGGACGATGATGACCT	AGGCGCTTTAGCAACGTAGA
BnbZIP25	AGGGCTAGGGTTTTGCATTT	AAGGCTCAGGCTTCACATTG
BnbZIP26	TCACGTTCGTCCTGTGAAAG	GCTCCATGCCTGCAACTAAT
BnbZIP27	TTCCGAAATCCTTTTCTTGC	CCAGCTCGTGTACCCTTGTT
BnbZIP28	GTTGAGCGATGATGACGAAA	CCACTCAACTGTTGCCTCAA
BnbZIP29	CAAACAATGGGGTCTCAAGG	TCCGGTGCTCTGATTAGCTT
BnbZIP30	GGAGAGAGAATGACCGGTTG	AAGCTAAACTCGCTCCAACG
BnbZIP31	ATCGTGAGAATTGGGGTGAG	CAGCTTCACGATTTTGAGCA
BnbZIP32	TTTCGCTGTCCTTGTTGTTG	GACGGAGAAGGATTGAACGA
BnbZIP33	TCCCATCTCCAAGAAACGTC	AAGGCATTATTGCCCATCTG
BnERF01	GTGTTGGATTTGTGCTGTGG	TCTGGGAACGGCAAGTTAAG

	Forward primer	Reverse primer
BnERF02	GCTTCCAACCACTCTTCAGC	CTGTGACACCGCTCGAATTA
BnERF03	TCATGATGATGATCACCGCT	GCAGAGTAGCCGGAAACAAG
BnERF04	GGCAAGAGGAGATTCAGCAG	TGAAATCGGCTGTGAGACTG
BnERF05	TCAACGTCGACAATATCCCA	GGTCCAATGTTGTTCCATCC
BnERF06	TGAACAGCAACAACCTCTGC	GAACGGAGCTCTGAAAATCG
BnERF07	CCAATCACAGCCGTTTATCC	GAATCTCCACGTTGATGCAC
BnERF08	CTCCAGAACAACCCTCATCC	ATCAGTGCCGCCAGTACTCT
BnERF09	GCAGACCAGTTGTCCAATCA	TGGTGGGAGGGGTAGTTGTA
BnERF10	ACTCTCAAGGCCAAGCTTCA	AGCTCTCTCCTTGGCCATTC
BnERF11	CAGAAATTCGCCACCCTTTA	GCTCTTGTTGGCCGAATTAT
BnERF12	AGGCAGTTGAGAAACCCTCA	CCTGGAAGAACTGGAGCAAG
BnERF13	CGATATTGGCAAAGACGACA	CAAAACGCTCAAACACTCTCC
BnERF14	GTTTCGCCGACTGGACTAAG	GACATTGACAACGAGGACGA
BnERF15	ACAGCAAGCAGGAAGAGGAA	GGAAATTTGCTTTCCGATGA
BnERF16	TACACTTCCGGACCAACTCC	CTCTCCGTCTGCCAAAAGTC
BnERF17	ACCCTAACCCTAGCCTCAGC	CTACCACAGACGACGACGAA
BnERF18	GCGAAGAGGCTCTAGGGTTT	TTTCTTCTCAACCGCACAGA
BnERF19	TGGCTTTTCAAGAGGAGCTT	CGGCTTATGTCGAAGTTGGT
BnERF20	GAGGAAATGCTCCTCTACGG	GCGTCGAGTCCCTTATCTCC
BnERF21	GCAAATGACCAAAGCCAACT	GATCTTGGTCGTGCTCGAAT
BnERF22	GGAGATGGGAAGCAAGGATT	TTGGGAAGCAAGAGAATTGG
BnERF23	GAGATCAGAGACCCGACCAG	CCTCCGACCTTCTCCTCTTC
BnERF24	AAGCCAGCTCTAAACCAGCA	AAGTTGGGCTGCTGAAAATG
BnERF25	TGATTCCAATTGGGTTTTGA	ATCATCTGCCTTGCCAATCT
BnERF26	TGCAACACAAGAGGAAGCAG	TAAATGAGGCTTCGGAGACG
BnERF27	CCCCTCGCAGTCCTTAATTT	CCTCCAAAACCTTGTCATCC
BnERF28	AAAACGACACGGATTTGAGG	CCCGGACGACAAAAATAAAG
BnERF29	ATTTCCCACTGCGTTTGAAG	AGACCTCTGAGCGGAATGAA
BnERF30	CGTCTTCAGGGTCTTTGAGC	GTACCTTCTCCTCGGCCTCT
BnERF31	GAGAACCCAACAGCAAAAGC	TGCTAGACGCCATTTCATTG
BnERF32	CTTCGAATTGAAGCCTGAGC	AACTCGATCCACTTCGGTTG
BnERF33	AGGCATCACCATAACGGAAG	TCGGGGATGTTGATTTTGTT
BnERF34	CAAACTCATCGAACCCGATT	AGCGAAATCAGAGTCCAAGC
BnERF35	GCGAAGGTGAAGAAGAGTCG	CAGCTTCAAGTCCTCGGAAC
BnERF36	GGCTTGTTTGACACGGAGAT	ATTGCTTGGCTTTGAGGTTG
BnERF37	CTGGATGTCAGTTGCATGGT	CCAAATGGAGGCAATGAAAT
BnERF38	ACAAGCTAAGTCGGCCTTGA	GGAACCGAAAAAGGGTTTCT
BnERF39	GCAGCAACAAGCCTACCTTC	GTTGAAAGTTCCCAGCCAGA
BnERF40	TGACCCTCTGCTTCTCACCT	AGCCCAACCAAATCCTTTCT
BnERF41	TTTCCATGCCATCAAGATCA	CCCCAAACCCCTAAAGGTAA

	Forward primer	Reverse primer
BnERF42	TTGGGATGGAGCTTGTAACC	TTCCGAGCCACATCCTTATC
BnERF43	TGACACCTCTAATCGCGACA	GAATCTCCGACACCCACTTC
BnMYB01	GCCGAGATTGATCCAGAAGA	CGAACACTGCTCGAAATTCA
BnMYB02	TATTCACGCCGTTACCGACT	AGGACCAGCGACACGATAAT
BnMYB03	CAGAAACCAAGGCGTTTTTC	CCCCCAGTACTGAAGCATGT
BnMYB04	GGGTTTGGATATTGGTCGTG	CGACCTATTTGCCTCTTTGC
BnMYB05	CCAAACACGTCGCTACTCAG	TGGGGTTTTAAGTTCGCTTG
BnMYB06	AGGCAACGAGAGCTTCAGAG	GTCCCATGGCTGTTGAGAAT
BnMYB07	GGCTCTAATTGGTCCGTGTC	GATGGTCAGCAATAGCAGCA
BnMYB08	TTCTGATCAGCTTCCCAACC	CGTTCTCGGAGATGATGCTT
BnMYB09	TTCTTCCCGGTAGATGTTCG	ATCTTTGCCCAAGAATGCAG
BnMYB10	GTCGTGGATGCTCGATCTCT	ACGACCCCGATAGGAAGAAG
BnMYB11	CAACGCCATGAGATAATTGG	CTTTGTCCCTCCTTTGGAGA
BnMYB12	ATCGGAGGAGGACCAAAAAC	CCACCGGTTTCCTAGGAGTT
BnMYB13	TTCGCAAGATCACGAGAAGA	AAGCTGTGACGACGTTGTTG
BnMYB14	TCAACAAACAGCTCACCAGC	TGATCAGGCTTGATTAGGGC
BnMYB15	AATCGTCGACATCGAAATCC	ATACCAGGATCCGACAAGCA
BnMYB16	TTGGAACACCAAGCTCAAGA	GAGGATGGCATGAGAAGATGA
BnMYB17	CATGCCTGCAAATATGGCTA	AGCTCGGGCATTTTACTTCA
BnMYB18	AACTAATTTCCCGGCCATTC	GCCGGAAAGCTATAGTGGTG
BnMYB19	TCATGGCGTTGTAGGCAATA	GCATGAGATTTGAGGGTGGT
BnMYB20	CACCAATGCCAACAATACCA	TGATCACGATTTTGCTCCAG
BnMYB21	ACTGGAACTCCACCCTCAAG	TTATCGGGATGGGTCTGAAG
BnMYB22	GCTCATCAATGGCGATCATA	ATGTGACGTCAACAGCAAGC
BnMYB23	GCATTTGGCTCAGAAAGCTC	TCGCCGTATCTTCTTCATCC
BnMYB24	CCCGACATACTTGGAATCGT	GGGTCCTGCATTGTTTGTCT
BnMYB25	GCCACAATTCTGTGAAATGC	AAAGCACCATGACCAAATCC
BnMYB26	TCAATTGGCAAAACAACCAA	TGTTGGATTTCCCCATCAAC
BnMYB27	TCCAGAAGCCAGTCCAACTC	TCTTCTCCGACTTCCTCAGC
BnMYB28	CGCCTTCATAACCTTCTTGG	CCCCGACGGGATAGAATAGT
BnMYB29	TGTAAACCGGTCCTTCAAGC	CGCGAGCGGTACTACAGAAT
BnMYB30	TTGGACAATTTTGACGTGGA	GAAAACAGGCGAAGAAGACG
BnMYB31	AGATCTTTTCGCGAGGTCAA	CTCAACTCCTCGTGGCTAGG
BnMYB32	GGTCAAAGCAGGAAGACCAA	AAGGAGAGCATGGAGCTTGA
BnMYB33	GACCGTGAAACTTTGGAGGA	GCAGCAGCCTTAACACTTCC
BnMYB34	AATTCCTCCTTTTGGGCAAT	GAGGGTTTTACCCGGAACAT
BnMYB35	CCGGGTTACACAACTTCCAC	CCAATCCCCTTTCCCATACT
BnMYB36	CATAGCCGAAAAGCTCCAAG	ATGGTTCTTGACCGCATTGT
BnMYB37	GGTTCTGAATCCCGAACTTG	GGTCCACGCGTCTTTTCTAA
BnMYB38	CATTAAGCGTGGCAATCTGA	ATCCTTTGCCTTCGGATTCT

	Forward primer	Reverse primer
BnMYB39	TTGAGGTCCATGGAAGGAAG	TGACATCCGAGATGCTGGTA
BnMYB40	AATTTTTGGGCCAAGGAGAG	ATTGGCGTTCTCGTGAATCT
BnMYB41	TCTCGATCACCACTCATTCG	CTGCGTCAGCTTCCTCTTCT
BnMYB42	AACGACAGGGCTCTAGACGA	AATCGTCGTCGCCTTTTAGA
BnMYB43	TATGGGCCAAAGAAGTGGTC	CTGTCCTTCCAGGCAAGAAT
BnMYB44	ATCCAAATATGGGGCAACAA	TCCCGGTAAAACCTTAGCAA
BnMYB45	TGTAAAATTGCGATGCAGGA	GCAATCTCCTTGGTGACGTT
BnMYB46	GCCTTCATAGGTGGCAGAAG	GCTCCTTGTTTATGGCAGGA
BnMYB47	TTTCCTTGATGGGCTACCTG	ACGTCAAACTTCCCAGCAAC
BnMYB48	GGCTGAAGAAGACGAAGTGC	ACTCCGCCTGCAACTCTATC
BnMYB49	CCGAGTCGAATCTCGTTAGC	AAGAGGTAATTGGCGTCGAA
BnMYB50	AGTCGGCGAAGGTGTTTATG	GGCATCCTTCTTCTGCGATA
BnMYB51	CGACAGTCCTAATGGGCTTC	CAACTCTCCCCAAGCTTCAC
BnMYB52	AGCGTTGGACATCTGAGGAG	AATCACCAGACGCTGCTCTT
BnMYB53	GTGAGAACGGATTGCCTGAT	GTTCCACGGCATTTTCGTAT
BnMYB54	GGAGGCTGGGGGTTCTAATA	GAATGGTGGAGGAAGCATGT
BnMYB55	GCGAGCAATGATAGCAACAA	GAGGAGCTTTTCCCTCCAAG
BnMYB56	AAAATCCAGCAGCGAAGCTA	AGTAGCGCAACCGCTAAGAG
BnMYB57	CCCGACATACTTGGACTCGT	GGGTCCTGCATTGTTTGTCT
BnMYB58	TACCGGTGTAGGAGGACTGG	GGTCTTTCAGGCACCAATGT
BnMYB59	CCCTCAAAACTGGAACCTCA	GTCAGTCCTTCCTGGGAACA
BnMYB60	TCTGAGGCAAATTCCAGGAG	GTCTTTGCGGATGTTCCAAT
BnMYB61	TGGAACACCCATCTGAAGAA	GTGTTGGTGGTGACGATGAG
BnMYB62	ACCTGAGGCCTGACTTGAAA	GCTTGTGAGTGTTTGGGTCA
BnMYB63	CTTGCGCTTGTTGTCCCT	GGAGAATTGGATGAAGGGGT
BnMYB64	ACATGTCGTTTTGGGTCCAT	TTCGACGCAATCTTGTTGAG
BnMYB65	ATGAAGCGAAAACCGAAGAA	ACGGAGTTAGCAACGATTGG
BnMYB66	TCGCCTTCCAACTCTTCATT	TGCCTCTCCAATCACCTTTC
BnMYB67	ATGACGAACACAAGCACTCG	AGACACATTCCCCCTCTTCC

Table S3 Basic genetic information for five TF families.

Gene	Genebank ID	Varietes	Gene length (bp)	Predicted protein (aa)	Expression response to stresses			Expression levels in five tissues relative to the leaf tissue					
					Drought	Cd	Pest	leaf	bast	xylem	shoot	root	flower
BniCOL01	KF928219	Zhongzhu 1	3121	408				1	2.73	18.33	0.40	0.67	4.29
BniCOL02	KF928220	Zhongzhu 1	3007	392	6.986357		4.067126	1	8.13	30.49	0.00	0.01	0.00
BniCOL03	KF928221	Zhongzhu 1	1973	453				1	0.08	0.18	0.02	0.03	0.08
BniCOL04	KF928222	Zhongzhu 1	1942	458	3.317106			1	1.65	7.72	0.53	1.04	2.64
BniCOL05	KF928223	Zhongzhu 1	1929	444				1	0.47	4.31	0.50	0.83	1.83
BniCOL06	KF928224	Zhongzhu 1	1713	371				1	2.01	11.97	0.27	0.47	1.29
BniCOL07	KP229725	Qingyezhuma	1142	313				1	1.58	1.22	2.27	1.20	0.82
BniCOL08	KP229726	Qingyezhuma	1115	322				1	1.50	1.16	1.52	0.68	0.82
BniCOL09	KP229727	Qingyezhuma	908	181				1	106.56	36.67	1.49	0.61	0.58
BniCOL10	KP229728	Qingyezhuma	1354	284				1	92.98	41.83	8.33	3.88	4.24
BniCOL11	KP229729	Qingyezhuma	1147	261	-50.9807	-39.8587	-38.9899	1	6.82	45.04	1.29	0.50	0.82
BnHDZIP01	KP229700	Qingyezhuma	775	188	-4.34	-5.51		1	2.01	3.51	7.74	1.51	0.73
BnHDZIP02	KP229701	Qingyezhuma	1082	274				1	0.94	0.71	1.26	0.11	0.06
BnHDZIP03	KP229702	Qingyezhuma	1391	332	-17.01	-26.62	-6.97	1	571.80	915.81	0.74	0.65	0.42
BnHDZIP04	KP229703	Qingyezhuma	1155	230	-7.70	-10.28		1	45.94	12.39	0.02	0.02	0.03
BnHDZIP05	KP229704	Qingyezhuma	1657	314	-5.25	-7.03		1	48.46	38.71	8.91	9.62	7.03
BnHDZIP06	KP229705	Qingyezhuma	1048	182	-5.05	-7.29		1	3.50	2.18	1.67	0.77	0.37
BnHDZIP07	KP229706	Qingyezhuma	1423	287				1	320.26	388.28	1.97	5.47	4.62
BnHDZIP08	KP229707	Qingyezhuma	3059	859	-4.95	-5.65		1	157.41	2402.02	4.40	11.79	307.57
BnHDZIP09	KP229708	Qingyezhuma	1694	279				1	19.10	42.17	2.12	1.60	1.58
BnHDZIP10	KP229709	Qingyezhuma	1271	237				1	17.46	17.88	1.44	0.25	0.11
BnHDZIP11	KP229710	Qingyezhuma	1229	303	8.31			1	30.88	15.22	1.87	0.49	0.32
BnHDZIP12	KP229711	Qingyezhuma	3836	837				1	5.79	129.93	1.62	0.46	0.84
BnHDZIP13	KP229712	Qingyezhuma	2497	653	8.77			1	5.93	0.49	0.93	0.27	0.49
BnHDZIP14	KP229713	Qingyezhuma	3019	774	6.35		-4.15	1	2.80	1.06	2.61	0.21	0.25
BnHDZIP15	KP229714	Qingyezhuma	3305	845		-6.47	-3.52	1	8.55	0.86	0.88	0.28	0.32
BnHDZIP16	KP229715	Qingyezhuma	2897	812				1	2.33	2.78	2.64	1.58	0.96

Gene	Genebank ID	Varietes	Gene length (bp)	Predicted protein (aa)	Expression response to stresses			Expression levels in five tissues relative to the leaf tissue					
					Drought	Cd	Pest	leaf	bast	xylem	shoot	root	flower
BnHDZIP17	KP229716	Qingyezhuma	3411	733				1	1.07	0.62	1.22	1.89	4.01
BnHDZIP18	KP229717	Qingyezhuma	1202	301	29.99	37.10	7.17	1	318.33	192.53	0.15	0.21	0.06
BnHDZIP19	KP229718	Qingyezhuma	960	210	5.71			1	52.41	2.29	0.15	0.08	0.03
BnHDZIP20	KP229719	Zhongzhu 1	2060	359				1	3.53	1.90	1.58	0.92	1.22
BnHDZIP21	KP229720	Zhongzhu 1	2473	683				1	47.24	20.74	3.32	1.10	1.47
BnHDZIP22	KP229721	Zhongzhu 1	1525	357	5.40			1	102.59	1233.77	203.69	12.21	18.74
BnHDZIP23	KP229722	Zhongzhu 1	2564	733	-2.83	-5.78		1	1.23	0.96	1.44	0.05	0.03
BnHDZIP24	KP229723	Zhongzhu 1	1540	333				1	2.77	1.32	1.74	1.18	0.89
BnHDZIP25	KP229724	Zhongzhu 1	2699	761				1	1.51	1.40	1.25	0.60	0.82
BnbZIP01	KP229667	Qingyezhuma	1177	203	13.68			1	14.12324	41.56722	1.259112	0.849121	0.172575
BnbZIP02	KP229668	Qingyezhuma	1674	515				1	2.575444	20.58661	5.100784	2.038646	0.822933
BnbZIP03	KP229669	Qingyezhuma	624	205	7.23			1	64.59786	11.49025	1.377196	7.143732	0.58601
BnbZIP04	KP229670	Qingyezhuma	1454	296				1	0.365738	0.361175	0.518834	0.072705	0.143794
BnbZIP05	KP229671	Qingyezhuma	1421	342				1	99.80833	123.4839	0.091158	0.052833	0.00276
BnbZIP06	KP229672	Qingyezhuma	1675	440				1	10.48346	50.47735	1.555637	2.358367	2.536348
BnbZIP07	KP229673	Qingyezhuma	1313	235		3.21		1	5.838118	222.0788	0.493763	0.158535	0.230851
BnbZIP08	KP229674	Qingyezhuma	1298	327			-3.43	1	14.67484	305.6765	1.888679	0.909142	0.746259
BnbZIP09	KP229675	Qingyezhuma	1582	253	13.16	6.20		1	772.9309	1609.63	0.613118	0.878224	1.054149
BnbZIP10	KP229676	Qingyezhuma	1426	317				1	1.092982	0.994341	1.66793	0.85012	0.507612
BnbZIP11	KP229677	Qingyezhuma	1207	362				1	19.06935	34.72377	2.320737	1.199039	1.003236
BnbZIP12	KP229678	Qingyezhuma	1966	205	3.21	4.14		1	40.09206	57.24621	1.232614	0.733419	0.556241
BnbZIP13	KP229679	Qingyezhuma	1258	159	8.93			1	835.3164	866.2802	1.879997	2.307447	2.769499
BnbZIP14	KP229680	Qingyezhuma	1557	349	57.79	4.96	3.38	1	177.4543	163.8859	0.182849	0.569232	0.104939
BnbZIP15	KP229681	Qingyezhuma	2129	405	42.08	3.58		1	116.7597	173.2441	0.358034	0.021296	0.029108
BnbZIP16	KP229682	Qingyezhuma	1376	144	49.97	20.35	3.08	1	109.3297	420.6924	0.390943	0.190719	0.188547
BnbZIP17	KP229683	Qingyezhuma	1951	403	15.68		-6.88	1	319.7566	758.4049	0.169793	0.413633	0.213017
BnbZIP18	KP229684	Qingyezhuma	1376	328	19.90	5.17	3.76	1	130.294	230.7068	4.573464	1.856239	1.420194

Gene	Genebank ID	Varietes	Gene length (bp)	Predicted protein (aa)	Expression response to stresses			Expression levels in five tissues relative to the leaf tissue					
					Drought	Cd	Pest	leaf	bast	xylem	shoot	root	flower
BnbZIP19	KP229685	Qingyezhuma	2066	484	34.13	10.62		1	50.63038	75.48693	0.271487	0.361832	0.473829
BnbZIP20	KP229686	Qingyezhuma	2561	540		-3.54	-8.82	1	29.99234	81.15633	3.875144	2.895316	3.505236
BnbZIP21	KP229687	Qingyezhuma	1794	270				1	27.75926	76.02103	6.041831	5.298281	3.953201
BnbZIP22	KP229688	Qingyezhuma	1762	411		25.20		1	72.2297	100.092	2.113733	0.40376	1.217165
BnbZIP23	KP229689	Qingyezhuma	2082	363	116.89	16.79		1	4381.684	2725.755	0.534394	0.488163	0.194493
BnbZIP24	KP229690	Qingyezhuma	1691	418	27.90	9.58		1	236.8392	563.6586	1.034922	0.48407	0.373208
BnbZIP25	KP229691	Qingyezhuma	2408	438	20.85			1	281.8883	665.6697	1.737448	7.684339	0.529508
BnbZIP26	KP229692	Qingyezhuma	1886	276		3.92	3.53	1	37.31553	19.87688	0.56935	0.020717	0.015125
BnbZIP27	KP229693	Qingyezhuma	1346	166	12.69	3.57		1	9.430805	9.661869	0.042244	0.003439	0.000238
BnbZIP28	KP229694	Qingyezhuma	2836	781	28.45			1	117.2956	288.907	1.000591	0.120435	0.216507
BnbZIP29	KP229695	Qingyezhuma	1482	333	5.12			1	445.657	837.4425	4.721997	0.657002	0.31425
BnbZIP30	KP229696	Zhongzhu 1	644	145				1	1.692735	1.448719	1.657981	0.585105	0.520594
BnbZIP31	KP229697	Qingyezhuma	2190	469	22.37			1	137.8184	246.5416	0.158033	0.037341	0.640048
BnbZIP32	KP229698	Zhongzhu 1	1500	168	16.89			1	170.8	60.64498	4.108426	0.276158	0.956723
BnbZIP33	KP229699	Zhongzhu 1	2134	249	1220.89	445.57	31.65	1	85.72444	806.4902	0.243251	0.084652	0.010079
BnERF01	KP229624	Zhongzhu 1	3513	294	4.72			1	25.81	103.17	1.31	0.12	0.14
BnERF02	KP229625	Zhongzhu 1	1147	349	8.32	3.12		1	111.71	141.01	0.42	0.11	0.01
BnERF03	KP229626	Zhongzhu 1	1986	528				1	2.81	2.32	2.35	0.73	0.83
BnERF04	KP229627	Zhongzhu 1	1848	545				1	2.06	2.47	1.74	3.86	2.74
BnERF05	KP229628	Qingyezhuma	1862	548		-3.53		1	31.60	51.28	1.42	0.80	0.47
BnERF06	KP229629	Zhongzhu 1	1627	369	7.29			1	7.19	24.93	1.59	0.36	0.02
BnERF07	KP229630	Zhongzhu 1	1433	294				1	7.86	119.66	2.58	0.25	0.55
BnERF08	KP229631	Zhongzhu 1	1013	297				1	5.10	9.92	1.12	0.01	0.01
BnERF09	KP229632	Zhongzhu 1	1718	299	1238.98	33.97	23.36	1	1737.17	1526.95	0.18	0.10	0.03
BnERF10	KP229633	Zhongzhu 1	794	214				1	17.50	25.55	3.76	1.61	1.53
BnERF11	KP229634	Zhongzhu 1	935	262			-3.46	1	2.60	0.57	1.45	0.22	0.02
BnERF12	KP229635	Zhongzhu 1	1931	443	14.45			1	2690.78	3985.73	2.63	0.57	0.70
BnERF13	KP229636	Zhongzhu 1	1884	291				1	36.38	34.19	0.32	0.65	0.58

Gene	Genebank ID	Varietes	Gene length (bp)	Predicted protein (aa)	Expression response to stresses			Expression levels in five tissues relative to the leaf tissue					
					Drought	Cd	Pest	leaf	bast	xylem	shoot	root	flower
BnERF14	KP229637	Zhongzhu 1	1531	322	5.60	2.94		1	20.74	55.48	0.63	0.80	0.46
BnERF15	KP229638	Zhongzhu 1	1387	298				1	8.98	50.25	0.68	0.11	0.18
BnERF16	KP229639	Zhongzhu 1	1345	373	-6.06			1	1.43	1.26	2.94	4.07	4.42
BnERF17	KP229640	Zhongzhu 1	1236	206				1	102.68	90.88	2.83	3.22	3.97
BnERF18	KP229641	Zhongzhu 1	1157	294	-5.08	-3.61		1	18.19	259.24	1.65	2.25	0.99
BnERF19	KP229642	Zhongzhu 1	1026	235				1	2.26	1.16	3.54	6.55	12.29
BnERF20	KP229643	Zhongzhu 1	912	256				1	1.26	1.31	3.01	4.82	6.00
BnERF21	KP229644	Zhongzhu 1	893	209				1	78.25	218.75	0.14	0.18	0.08
BnERF22	KP229645	Zhongzhu 1	853	230				1	25.96	83.42	0.05	0.05	0.24
BnERF23	KP229646	Zhongzhu 1	841	251				1	1.93	4.14	4.33	1.97	3.43
BnERF24	KP229647	Zhongzhu 1	831	214				1	1.07	1.06	1.30	1.10	1.89
BnERF25	KP229648	Zhongzhu 1	707	222	3.70	5.58	5.37	1	2.04	0.17	0.30	0.08	0.10
BnERF26	KP229649	Zhongzhu 1	1448	370			-6.35	1	89.94	89.29	41.19	37.08	57.66
BnERF27	KP229650	Qingyezhuma	507	135				1	6.43	2.69	6.80	0.80	5.32
BnERF28	KP229651	Qingyezhuma	1163	219	136.10	23.89		1	7.11	0.02	0.52	0.18	0.02
BnERF29	KP229652	Qingyezhuma	2110	368	3.08			1	14.69	81.47	1.55	4.10	4.08
BnERF30	KP229653	Qingyezhuma	885	276				1	2.34	5.96	2.23	9.03	5.22
BnERF31	KP229654	Qingyezhuma	1527	376				1	2.15	1.90	0.79	0.74	1.07
BnERF32	KP229655	Qingyezhuma	1278	279				1	1.82	6.56	1.81	1.05	0.52
BnERF33	KP229656	Qingyezhuma	1241	266	80.03			1	4.89	3.71	1.18	0.11	0.51
BnERF34	KP229657	Qingyezhuma	1201	191		3.72	35.97	1	1.50	7.51	2.92	2.28	2.09
BnERF35	KP229658	Qingyezhuma	1829	248				1	6.68	3.33	4.14	4.68	6.30
BnERF36	KP229659	Qingyezhuma	1942	506				1	185.30	230.84	2.81	34.42	36.28
BnERF37	KP229660	Qingyezhuma	1598	187			-4.97	1	2.79	2.06	1.34	0.27	0.11
BnERF38	KP229661	Qingyezhuma	2012	145	47.59	26.70	4.00	1	8.65	59.62	0.48	0.03	0.06
BnERF39	KP229662	Qingyezhuma	1724	392				1	50.68	68.69	1.39	0.14	0.19
BnERF40	KP229663	Qingyezhuma	1112	212	8.81	32.96	128.71	1	16.35	33.17	0.68	0.04	0.03
BnERF41	KP229664	Qingyezhuma	1843	337	26.59			1	2873.21	5474.38	1.78	1.04	0.54

Gene	Genebank ID	Varietes	Gene length (bp)	Predicted protein (aa)	Expression response to stresses			Expression levels in five tissues relative to the leaf tissue					
					Drought	Cd	Pest	leaf	bast	xylem	shoot	root	flower
BnERF42	KP229665	Qingyezhuma	1384	285		7.05		1	4.33	1.46	3.16	0.00	0.04
BnERF43	KP229666	Qingyezhuma	1148	257				1	1.78	8.05	2.15	0.14	0.06
BnMYB01	KP229557	Qingyezhuma	1365	310	6.42		4.50	1	299.12	124.03	0.70	0.06	0.11
BnMYB02	KP229558	Qingyezhuma	1688	330	-3.98	-12.05	-4.79	1	1.72	1.58	0.96	0.08	0.10
BnMYB03	KP229559	Qingyezhuma	1614	491		5.79	4.59	1	10.03	30.46	0.86	0.04	0.01
BnMYB04	KP229560	Qingyezhuma	824	260				1	1.35	1.16	2.11	0.24	0.05
BnMYB05	KP229561	Qingyezhuma	818	192				1	1.94	1.03	1.18	0.02	0.04
BnMYB06	KP229562	Qingyezhuma	1585	314	224.30	98.99	8.38	1	301.41	338.96	0.50	0.06	0.06
BnMYB07	KP229563	Qingyezhuma	1146	262				1	14.20	27.12	10.54	0.65	3.03
BnMYB08	KP229564	Qingyezhuma	1437	368	4.24			1	66.31	0.22	0.57	6.75	2.33
BnMYB09	KP229565	Qingyezhuma	1580	337	7.71		3.92	1	0.61	1.00	1.68	0.30	0.14
BnMYB10	KP229566	Qingyezhuma	981	241				1	7.46	55.33	0.70	0.08	0.06
BnMYB11	KP229567	Qingyezhuma	673	208			8.34	1	74.39	4332.87	0.12	0.05	0.36
BnMYB12	KP229568	Qingyezhuma	823	212				1	1.35	1.12	1.66	0.14	0.15
BnMYB13	KP229569	Qingyezhuma	1164	324				1	1.02	0.90	2.36	0.12	0.06
BnMYB14	KP229570	Qingyezhuma	1359	383				1	34.66	12.93	45.91	13.71	10.53
BnMYB15	KP229571	Qingyezhuma	877	245			5.01	1	2.56	0.00	0.21	0.19	0.14
BnMYB16	KP229572	Qingyezhuma	1033	337				1	6.48	24.13	2.18	1.83	0.68
BnMYB17	KP229573	Qingyezhuma	3762	347	65.52	20.89		1	25.82	669.55	0.19	1.17	1.28
BnMYB18	KP229574	Qingyezhuma	1195	298				1	21.80	9.83	4.29	2.38	4.12
BnMYB19	KP229575	Qingyezhuma	1118	359			-5.79	1	53.35	71.77	2.70	0.14	0.05
BnMYB20	KP229576	Qingyezhuma	964	304				1	0.37	0.04	0.07	0.01	0.01
BnMYB21	KP229577	Qingyezhuma	1701	277	32.15			1	20.85	92.86	19.99	0.01	0.07
BnMYB22	KP229578	Qingyezhuma	749	232				1	3.24	3.78	5.62	6.02	5.14
BnMYB23	KP229579	Qingyezhuma	1365	332				1	17.07	2.76	3.40	0.13	0.17
BnMYB24	KP229580	Qingyezhuma	3319	680				1	1.68	0.06	1.81	0.12	0.12
BnMYB25	KP229581	Qingyezhuma	1443	331	-6.42	-3.31		1	3.45	4.18	6.84	0.04	0.01
BnMYB26	KP229582	Qingyezhuma	1519	324		-3.68	-5.24	1	2.38	0.79	2.25	0.00	0.00

Gene	Genebank ID	Varietes	Gene length (bp)	Predicted protein (aa)	Expression response to stresses			Expression levels in five tissues relative to the leaf tissue					
					Drought	Cd	Pest	leaf	bast	xylem	shoot	root	flower
BnMYB27	KP229583	Qingyezhuma	1303	320	15.91	6.89	4.00	1	4.51	1.03	2.31	0.20	0.05
BnMYB28	KP229584	Qingyezhuma	975	234	12.40			1	38.36	1.24	5.30	0.00	0.00
BnMYB29	KP229585	Qingyezhuma	1425	394	-35.84	-31.21	-19.58	1	0.80	0.69	1.38	0.00	0.00
BnMYB30	KP229586	Qingyezhuma	1027	291				1	1.33	0.61	1.28	0.04	0.05
BnMYB31	KP229587	Qingyezhuma	1070	299			-3.49	1	1.15	0.57	0.69	0.00	0.00
BnMYB32	KP229588	Qingyezhuma	1328	264				1	2.17	0.94	0.00	0.05	0.08
BnMYB33	KP229589	Qingyezhuma	3212	823				1	1.60	0.95	0.83	0.28	0.38
BnMYB34	KP229590	Qingyezhuma	1749	293			-3.55	1	2.06	1.95	1.64	6.56	0.52
BnMYB35	KP229591	Qingyezhuma	1283	308				1	101.50	124.50	0.46	0.14	0.06
BnMYB36	KP229592	Qingyezhuma	1194	269	-3.78		-2.87	1	2.48	0.46	9.16	0.03	0.09
BnMYB37	KP229593	Qingyezhuma	1375	413	-29.34	-8.80	-139.97	1	13.73	13.04	3.31	0.02	0.37
BnMYB38	KP229594	Qingyezhuma	1638	337				1	1.30	0.78	1.76	0.07	0.13
BnMYB39	KP229595	Qingyezhuma	1819	395	-14.08		-5.64	1	6.59	29.11	0.71	0.64	0.60
BnMYB40	KP229596	Qingyezhuma	2020	455				1	4.19	4.70	9.07	2.36	5.24
BnMYB41	KP229597	Qingyezhuma	3611	517		2.99		1	1.21	0.77	2.15	0.36	0.63
BnMYB42	KP229598	Qingyezhuma	1211	326				1	1.25	0.73	2.96	0.06	0.05
BnMYB43	KP229599	Qingyezhuma	3604	1002			-4.33	1	0.67	0.74	2.03	0.65	0.59
BnMYB44	KP229600	Qingyezhuma	2492	600				1	1.16	0.78	1.45	0.00	0.02
BnMYB45	KP229601	Qingyezhuma	3129	175				1	3.12	2.22	4.55	0.68	0.83
BnMYB46	KP229602	Qingyezhuma	3284	953				1	1.45	0.78	1.55	0.04	0.04
BnMYB47	KP229603	Qingyezhuma	3743	1078				1	1.59	1.42	2.47	3.08	1.34
BnMYB48	KP229604	Qingyezhuma	588	183				1	1.55	0.77	3.56	0.17	0.18
BnMYB49	KP229605	Qingyezhuma	898	244	-5.97	-3.38	-10.20	1	1.60	0.90	1.08	0.08	0.09
BnMYB50	KP229606	Zhongzhu 1	4089	795				1	9.72	15.44	2.92	0.30	0.19
BnMYB51	KP229607	Zhongzhu 1	3121	434				1	0.63	0.45	1.42	0.02	0.02
BnMYB52	KP229608	Zhongzhu 1	1855	363				1	1.40	1.12	1.59	0.02	0.03
BnMYB53	KP229609	Zhongzhu 1	1601	342	6.59			1	4.02	2.24	2.01	0.07	0.07
BnMYB54	KP229610	Zhongzhu 1	1594	303	14.91		3.18	1	3.65	10.22	3.87	0.19	0.26

Gene	Genebank ID	Varietes	Gene length (bp)	Predicted protein (aa)	Expression response to stresses			Expression levels in five tissues relative to the leaf tissue					
					Drought	Cd	Pest	leaf	bast	xylem	shoot	root	flower
BnMYB55	KP229611	Zhongzhu 1	1554	463	3.75			1	0.50	0.11	0.27	0.06	0.04
BnMYB56	KP229612	Zhongzhu 1	1316	396				1	1.02	0.80	1.72	0.01	0.01
BnMYB57	KP229613	Zhongzhu 1	997	239			-4.57	1	1.32	0.86	1.43	0.05	0.06
BnMYB58	KP229614	Zhongzhu 1	1624	419				1	1.10	0.63	1.11	0.07	0.08
BnMYB59	KP229615	Zhongzhu 1	1616	476		-3.44	-4.46	1	1.25	0.79	1.49	0.01	0.00
BnMYB60	KP229616	Zhongzhu 1	1400	299	2.94	14.35		1	1.04	1.58	1.37	0.01	0.01
BnMYB61	KP229617	Zhongzhu 1	1545	435				1	1.10	1.02	1.88	20.18	20.88
BnMYB62	KP229618	Qingyezhuma	1269	335				1	2.78	1.06	2.29	0.73	2.16
BnMYB63	KP229619	Zhongzhu 1	1506	365		11.76	6.38	1	1.05	0.62	1.71	1.05	1.00
BnMYB64	KP229620	Zhongzhu 1	1335	352				1	0.74	1.34	1.53	0.47	1.06
BnMYB65	KP229621	Qingyezhuma	1473	350	5.40		5.14	1	0.32	0.79	0.02	0.01	0.01
BnMYB66	KP229622	Zhongzhu 1	1735	470	4.78			1	3.38	2.21	2.19	0.73	0.89
BnMYB67	KP229623	Qingyezhuma	3009	684				1	1.21	0.82	2.99	2.99	2.73

Table S4 Comparison of the stress-responsive TFs from five families between this and previous studies.

Families	Stress-responsive genes in previous studies	Expression response detected by qRT-PCR in this study	
		Name designated	**Response to stresses**
MYB	CL3391.Contig1	BnMYB08	Have expression change
	Unigene1569	BnMYB06	Have expression change
	comp41485_c0	BnMYB27	Have expression change
	T1_Unigene_BMK.16854	BnMYB23	No response
	T1_Unigene_BMK.3283	Expression response has not been investigated because of no full-length ORF	
	T1_Unigene_BMK.5480	BnMYB19	Have expression change
	T1_Unigene_BMK.7314	BnMYB21	Have expression change
	T4_Unigene_BMK.18380	BnMYB61	No response
AP2/ERF	Unigene957	Expression response has not been investigated because of no full-length ORF length ORF, and expression response has not been investigated	
	Unigene4573	BnERF06	Have expression change
	T1_Unigene_BMK.11287	BnERF34	Have expression change
bZIP	T3_Unigene_BMK.24603	BnbZIP12	Have expression change
HDZIP	Unigene13048	BnHDZIP22	Have expression change
	CL5149.Contig1	BnHDZIP13	Have expression change
	Unigene565	BnHDZIP05	Have expression change
	comp45343_c0	BnHDZIP14	Have expression change
	T3_Unigene_BMK.22713	BnHDZIP17	No response
COL	comp24353_c0	BniCOL10	No response
	T2_Unigene_BMK.21157	BniCOL4	Have expression change

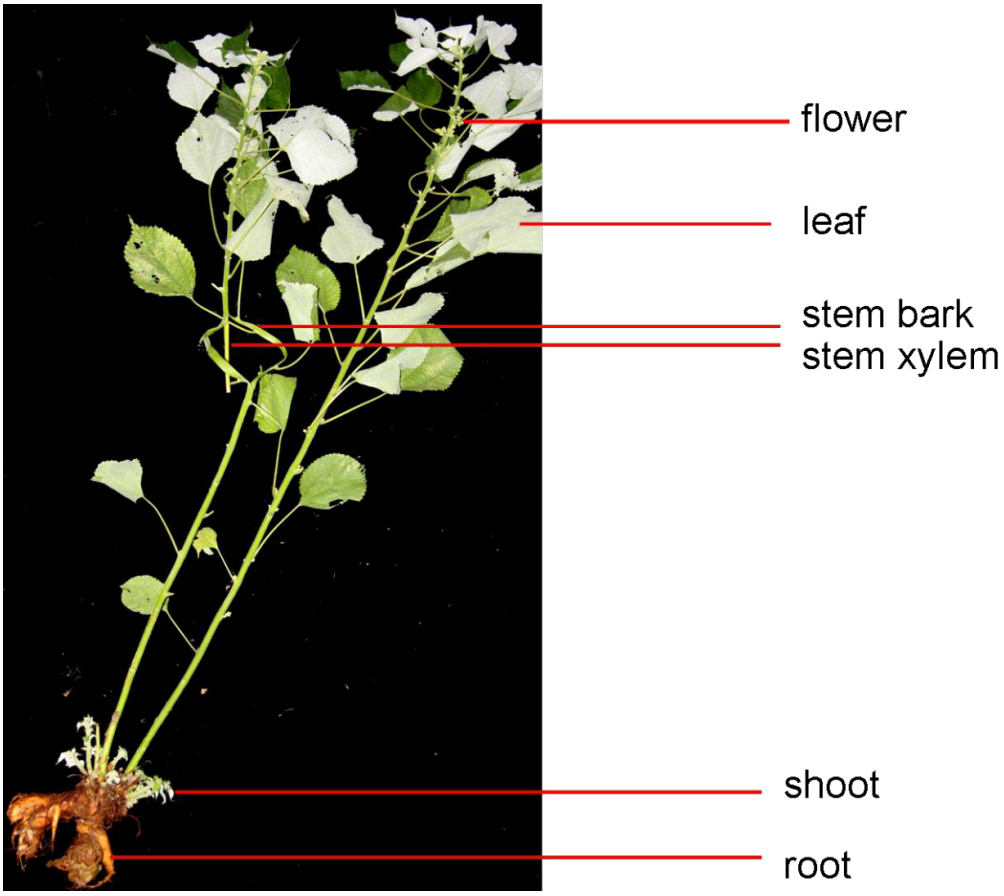

Figure S1 Illustration of six tissues that were used for analyzing gene expression patterns.