

Table 1 Suppl. Primer sequences for cloning *MnDREB* genes. Gene IDs are from the *Morus* database (<http://morus.swu.edu.cn/morusdb/>).

Gene ID	Forward (5' - 3')	Reverse (5' - 3')
Morus013794	F: GGGATGAATTTTCAGAGCTG	R: GGGTCAGTCAGTCCACAAAG
Morus001049	F: GGGGGTACCATGGATAATTTTAATAACTTGAGCC	R: GGGGGATCCTCATATAGAATAACTCCACAG
Morus012269	F: ATGGGTGCTCTTAATCA	R: CCTCTGATTATGGGTTTTG
Morus024469	F: ATGGAAGATCGCGAGAAAGATC	R: TCACAAGCTCCAAGGAGATGGGA
Morus002388	F: GATGGAAAAC TACAAGAAATCTCCC	R: TCAGAAGTTCCAAATGGAAGGGG
Morus009903	F: GGTACCATGGACGACGCATCTG	R: GAATTCTCAATCAGATCCTCTGAAATC
Morus023492	F: ATGGAGCAACCACCATTCGC	R: CTAGAGGCACGCCATGAAC
Morus024074	F: ATGAAAGACCCATCACTTC	R: TTACCATGATGGCAAAC
Morus010702	F: ATGAGTACTACTTCGGAGACAAC	R: GGGTCAATAATCACTCCATAAC
Morus010902	F: ATGTTGCCGACTGAGTCG	R: GGGGTTAATGTTGCCAC
Morus001767	F: ATGGCTGACCAAAATAATCCC	R: CCCTCAAAAATAACCCCACAAAC
Morus013800	F: ATGCATTACTCGTCCCCAAAC	R: CCCTTAGTGAAATTTCCAAAGG
Morus007221	F: GGGATGGAGGAAGAAGGAG	R: CTAATCCGAATTCCTGTCCCAG
Morus008873	F: ATGGAATTAGGAGATCAGTCTG	R: AGTTACTAGAAGTAGCCTCAG
Morus020177	F: ATGGTGAAGATTGAGAAGAGCC	R: TCAGCAGAAACTCCACAAAC
Morus014282	F: ATGAGTTATGAAAAGTCGGAAG	R:CTAGAGATAATCCTCAATCGAAATG
Morus002531	F: ATGGTGAAACCGGGTATAAGGAG	R: CTAGAATGTCCACAAACTAGGCG
Morus018629	F: ATGGAGATCAAGAGTGGAGAAAC	R: CCCTAAAAGTTCCAAAGAAACG
Morus002530	F: ATGGTGAAGCAGACGAGTAGTG	R: GGGTCAGAAATTCCAAAGGAAAG
Morus003964	F: GGATCCATGGCAGCAGCTATAG	R: GAATTCTCACAGAGCGTCCCAAT
Morus021553	F: GGATCCATGGCAGCTACAATG	R: GAATTCTAAAATAGAAGCCCAATCAATC
Morus003883	F: ATGGATAGAATCCATGACACCC	R: TCAATTAGCAAGAACCTCCC
Morus011587	F: ATGGCTGCAGCTAAGAACAG	R: GGGTCAATCTTGATCTTTCCAG
Morus021618	F: ATGGAAGATCAGTTTCCCAAG	R: TCATGATGTATCAGAGACCAGAAG

Table 2 Suppl. Primer sequences for detection of *MnDREBs* expression in qRT-PCR. Gene IDs are from the *Morus* database, *MnRPL15* was used as control.

Gene ID	Gene name	Forward (5' - 3')	Reverse (5' - 3')
Morus001049	<i>MnDREB1B</i>	F: TGGGGAGTAGTGAAGGGATG	R: AACTTGGTGTGGAGGGAGA
Morus012269	<i>MnDREB2A</i>	F: TGTGGTGTGATGGGGATT	R: GGCTGAACGGCATTATTGTA
Morus008736	<i>MnDREB2B</i>	F: TGTATGAAGGGAAAGGGAGG	R: TCAATGGCTGTTGGGAAGGT
Morus009488	<i>MnDREB2C</i>	F: CTCCGTTTCCACATTTGCCT	R: CCTCTGGTCCCATCAGCCTT
Morus023492	<i>MnDREB4A</i>	F: TCGCCGAAGATGAACCAAC	R: GAAAGGACCCGAGCCAAATG
Morus025497	<i>MnDREB4B</i>	F: CAGATTCAGGCGATAAACGAG	R: GCAGTAGTGATTGTAATGGTGGTC
Morus026252	<i>MnDREB4F</i>	F: GATAGTTGAGTTGCCGAACATAG	R: GACCACCTCCCACTCCAAGC
Morus008873	<i>MnDREB5B</i>	F: ATCTCCGTGGCTCGCTTG	R: ATGCTGGTTTGTAGTGGC
Morus020177	<i>MnDREB5C</i>	F: CTGGGTTTCCGAGATTAGG	R: GAAGTTGAGATTGGCTGAGG
Morus014282	<i>MnDREB5D</i>	F: GGGCAAATGGGTTTCGGAGAT	R: TGGAGACTGGCGACGGGAAG
Morus003964	<i>MnDREB6A</i>	F: TCCCTAAGAACAGAACCCG	R: CGAAGTCGCCCCGAAACA
Morus011587	<i>MnDREB6D</i>	F: GCTTGGGACCTTTGACACCG	R: ATCCGACGCCTGCGAACTCT
Morus024083	<i>MnRPL15</i>	F: -GGCTATGTGATTACCGTGTT	R: TTGGTCCAGTATGAGTTGAGAA

Table 3 Suppl. The classification of AP2/ERF families in *M. notabilis*.

Subfamily	Gene number	Domain
AP2	17	AP2+AP2
RAV	3	AP2+B3
ERF	54	AP2
DREB	30	AP2
Others	6	AP2

Table 4 Suppl. The summary of the conserved promoter elements of 28 *M. notabilis* DREB genes. ARE - *cis*-acting regulatory element essential for anaerobic induction; HSE - *cis*-acting element involved in heat stress responsiveness; MBS - MYB binding site involved in drought-inducibility; LTR - *cis*-acting element involved in low-temperature responsiveness; C-repeat/DRE - dehydration-responsive element; Box-W1 - fungal elicitor responsive element; WUN-motif - wound-responsive element; TC-rich repeats - *cis*-acting element involved in defense and stress responsiveness; AuxRR-core - *cis*-acting regulatory element involved in -auxin responsiveness; P-box - gibberellin-responsive element; CGTCA-motif - *cis*-acting regulatory element involved in MeJA-responsiveness; CE3 - *cis*-acting element involved in ABA and VP1 responsivenesses; GARE-motif - gibberellin-responsive element; ERE - ethylene-responsive element; ABRE - *cis*-acting element involved in abscisic acid responsiveness; TCA-element - *cis*-acting element involved in salicylic acid responsiveness; TGA element - auxin-responsive element; MBSI - MYB binding site involved in flavonoid biosynthetic genes regulation.

Table 5 Suppl. The source and Gene Bank Accession Nos. of each DREB in Fig. 3.

Proteins	Source	Accession. No.	Proteins	Source	Accession. No.
OsDREB1F	<i>Oryza sativa</i>	AAX23723	AtABI4	<i>Arabidopsis thaliana</i>	AAD25937.1
VrCBF1A	<i>Vitis riparia</i>	AAR28671.1	ZmABI4	<i>Zea mays</i>	AAM95247.1
AtCBF2	<i>Arabidopsis thaliana</i>	AF074601	ZmDRF2	<i>Zea mays</i>	AAM80485.1
AtCBF3	<i>Arabidopsis thaliana</i>	AF074602	TINY2	<i>Arabidopsis thaliana</i>	AED91698.1
AtCBF4	<i>Arabidopsis thaliana</i>	AB015478	GhDBP3	<i>Gossypium hirsutum</i>	DQ224382
BnCBF	<i>Brassica napus</i>	AAL38243.1	GhDBP4	<i>Gossypium hirsutum</i>	DQ224383
GhDREB1L	<i>Gossypium hirsutum</i>	ABD65473.1	GmDREB3	<i>Glycine max</i>	ABB36646.1
Cbcbf	<i>Capsella bursa-pastoris</i>	AAR26658.1	GhDBP1	<i>Gossypium hirsutum</i>	AAO43165.1
CaCBF1B	<i>Capsicum annuum</i>	AAQ88400.1	GmDREB1	<i>Glycine max</i>	AAP47161.1
LeCBF1	<i>Solanum lycopersicum</i>	AAK57551	GmDREB2	<i>Glycine max</i>	ABB36645
ZmDBP4	<i>Zea mays</i>	NP-001170481.1	RAP2.10	<i>Arabidopsis thaliana</i>	AEE86715.1
HvCBF1	<i>Hordeum vulgare</i>	AAX23686.1	DEAR3	<i>Arabidopsis thaliana</i>	AEC07444.1
TaCBF1	<i>Triticum aestivum</i>	AAL37944.1	PpDBF1	<i>Physcomitrella patens</i>	ABA43687.2
TaDREB6	<i>Triticum aestivum</i>	AAX13289.1	PeDREB2a	<i>Populus euphratica</i>	ABU86872.1
HvDREB1	<i>Hordeum vulgare</i>	AAY25517.1	PtDREB18	<i>Populus trichocarpa</i>	EEE94094
FaDREB2A	<i>Festuca arundinacea</i>	CAG30549.1	GhDBP2	<i>Gossypium hirsutum</i>	AAT39542.1
CdDREB2	<i>Cynodon dactylon</i>	AAS46285.1	RAP2.4	<i>Arabidopsis thaliana</i>	AEE36065.1
OsDREB2	<i>Oryza sativa</i>	AAN02487.2	AoDREB3A	<i>Asparagus officinalis</i>	ABB89754.1
SbDREB2	<i>Sorghum bicolor</i>	ABD66654.1	CiDREB1	<i>Cymbidium insigne</i>	ABR53728
GmDREBa	<i>Glycine max</i>	AAT12423.1	OsDBF1	<i>Oryza sativa</i>	BAD37688
PeDREB2	<i>Populus euphratica</i>	ABL86587.1	ZmDBF1	<i>Zea mays</i>	AAM80486
AtDREB2B	<i>Arabidopsis thaliana</i>	BAA36706.1	ZmDBP2	<i>Zea mays</i>	FJ805750
GmSGR	<i>Glycine max</i>	ABS30430.1			

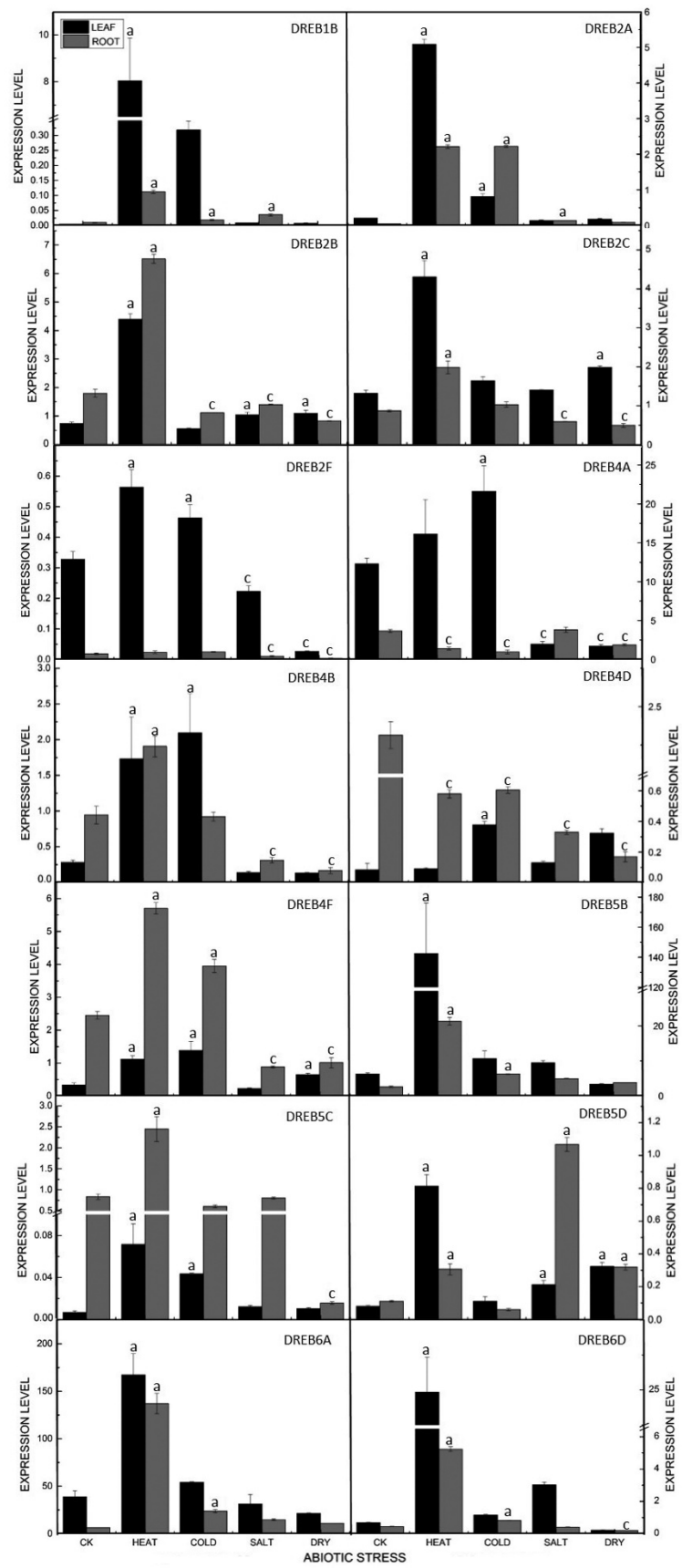


Fig. 1. Suppl. The expression profiles of *MnDREBs* in response to abiotic stresses. Error bars represent SE of means of three independent replicates. Differences between the transcript amounts of the treated samples and the control samples (CK) are statistically significant at $P < 0.05$ when indicated with different letters (a - up-regulated, c - down-regulated).