

Table S1 List of primers used in this study.

Primer Name	Primer Sequence (5'→3')	Purpose
<i>MdWRKY46-F</i>	ATGGATTCTAGTAAGAGCTGGG	full-length cDNA of <i>MdWRKY46</i>
<i>MdWRKY46-R</i>	TTATAAGAAAAATCCTGGGCA	full-length cDNA of <i>MdWRKY46</i>
<i>MdWRKY46-2F</i>	GAGCTCGGTACCCGGGGATCCATGGATTCTAGTAAGAGCTGGG	subcellular localization
<i>MdWRKY46-2R</i>	GCCCTTGCTCACCATGTCGACTAAGAAAAATCCTGGGCAGTC	subcellular localization
<i>MdWRKY46-qF</i>	CAAGCCAGATGAGAAACA	qPCR
<i>MdWRKY46-qR</i>	TCAAACGGGAAATAGGAG	qPCR
<i>Actin-F</i>	ACACGGGGAGGTAGTGACAA	qPCR
<i>Actin-R</i>	CCTCCAATGGATCCTCGTTA	qPCR
<i>AtKIN1-F</i>	AGCACAAACAGGCCGGAAAG	qPCR
<i>AtKIN1-R</i>	GTGGTGGTCTCTGTTGATCCA	qPCR
<i>AtRD29A-F</i>	GTGCCGACGGGATTGACG	qPCR
<i>AtRD29A-R</i>	CCCCAAGAAATCAAACAA	qPCR
<i>AtCOR47A-F</i>	ACAGAGGAATCACCAGCGACG	qPCR
<i>AtCOR47A-R</i>	CGTTGTTCTGTACTCCTCAGCCAT	qPCR
<i>AtDREB2A-F</i>	TGGAGAACATGGTGCAGGAAGA	qPCR
<i>AtDREB2A-R</i>	CTCCACTCTGATCATAAACTGCCAT	qPCR
<i>AtERD10-F</i>	AACACCGTCCAGAGCAGG	qPCR
<i>AtERD10-R</i>	CGGTGTTCTGTACTCTTCTGCCAT	qPCR
<i>AtRD29B-F</i>	CGGTGTTCTGTACTCTTCTGCCAT	qPCR
<i>AtRD29B-R</i>	GAAGGAGACGCAACAAGGG	qPCR
<i>MdWRKY46-hF</i>	GAGCTCGGTACCCGGGGATCCATGGATTCTAGTAAGAGCTGGG	homologous recombination
<i>MdWRKY46-hR</i>	TGCCTGCAGGTCGACTCTAGATAAGAAAAATCCTGGGCAGTC	homologous recombination

Table S2. The PCR reaction system of *MbWRKY46*

Component	Volume
cDNA	1.5 μL
<i>MbWRKY46-F</i>	1.0 μL
<i>MbWRKY46-R</i>	1.0 μL
2×Easy Taq® PCR SuperMix	12.5 μL
dd H ₂ O	9.0 μL
Total Volume	25 μL

Table S3. PCR reaction conditions

Step	Temperature	Time
Pre denaturation	95 °C	5 min
Denaturation	95 °C	45 s
Annealing	55 °C	1 min
Extend	72°C	5 min