

**Table S1.** qPCR Primers of stress response related genes.

Gene Name	Primer Sequence	Gene Function
<i>MsActin-F</i>	TTTGAGACTTTCAATGTGCCCCGCC	Action gene of alfalfa
<i>MsActin-R</i>	TAGCATGTGGGAGTGCATAACCCT	
<i>NtActin-F</i>	GCTTTCTTCGTCCCATCA	Action gene of tobacco
<i>NtActin-R</i>	CCCCAAGTACCCTCGTAT	
<i>CBL1-F</i>	GCCTCACAAGAAGAGAAGATCA	calcineurin B-like protein 1
<i>CBL1-R</i>	AACTTCATCTCAGACTCGCATAG	
<i>GAPC-F</i>	GTGCTGATTTCTGTTGTGGAATC	glyceraldehyde-3-phosphate dehydrogenase, cytosolic
<i>GAPC-R</i>	GAGCAGAGATCACAAACCTTCTT	
<i>BI-1-F</i>	CTTTGGAACATTGGTGGCTTAC	bax inhibitor 1-like
<i>BI-1-R</i>	CCATCAGAAGTGCTATCCTCTTT	
<i>Hxk3-F</i>	TTCATCAACCTCCTGGTAAGC	hexokinase-2-like
<i>Hxk3-R</i>	CCTTTCGTCCACCTGATAAGAG	
<i>GR1-F</i>	CAGAATGACCAGAGTCCTCTAAC	protein gamma response 1
<i>GR1-R</i>	CCAGCACTTCATGTTTGTCTTC	
<i>Cu,Zn-SOD-F</i>	AGCAGCAGTGAAGGTGTTAG	Superoxide dismutase [Cu-Zn] 2
<i>Cu,Zn-SOD-R</i>	GGCCAGAGACATTTCCAGTAA	
<i>MnSOD-F</i>	CGGCAATTAGCGGTGACATA	superoxide dismutase [Mn], mitochondrial-like
<i>MnSOD-R</i>	ATGGCGTCATGTAGCTGTTC	
<i>Ltp1-F</i>	CGAATTGGCACCTTGTCTTG	non-specific lipid-transfer protein 1
<i>Ltp1-R</i>	GCAGAATTCACCAGAGCCTTA	
<i>ERD10B-F</i>	CAAGGCGGAAGAAGGAAGAA	dehydrin DHN1-like
<i>ERD10B-R</i>	CGTAGTTGTTGCAGTTGAATGAG	
<i>SnRK2-F</i>	CTGTAGGGACGCCTGCTTATG	serine/threonine-protein kinase SRK2A
<i>SnRK2-R</i>	TGGACTTGTTTCGGGGATTGA	

**Table S2.** The full-length cDNA of *MsVDAC*.

Gene	Sequence
<i>MsVDAC</i>	ATGGCTAACGGTCCAGCACCGTTTTCTGAGATTGGCAAAGAGCAAG AGACCTCTTGTACAAGGATTATAATTCGACCACAAGTTTAGCCTGTCGAT TCCAAGTTCCACTGGATTGGGCCTTACAGCTACAGGGTTGAAGAGGGATA AATTTTTTGTGGTGACTTAAACACGCTTTACAAGAGTGGAATGTTACAG TGGATGTGAAAGTCAATACAGACTCTAATGTATCTACAAAAGTGACTTTGA ATGATGTTTCCCTTTCCCATAGTAAAAAGTAGCGTTGAGCTTCAATATAC CTGATCACAAGTCAGGAAAGTTGGATGTGCAGTATCTTCATCCTCATGCAG CTATTGATTCCAGTATTGGCTTGAACCCAGCCCCTAAATTGGAGCTTTCCG CTGCAATTGGAAGCAAAGATATATCTATGGGTGCTGAAGTTGGATTGATA CAACCTCTGCTTCATTCTCAACATATAATGCCGGGATTGCCTTCAATAAAC CAGATTTCTCTGCAACACTTATGCTGGCTGATAAAGGACAGTCTCTGAAG GCATCTTACATTCATTATGTGGACCGCCAGATGGATTAACAGTTGCTGCT GAACTCGCTCACAAGTTGTCCTTTCTGAGAACAGATTTACCTTTGGGAC CTCACAGTCAATAGATCCAAAAACAGTTTTGAAGACTCGATTCAGTGATG ATGGCAAAGCTGCCTTCCAATGCCAACGAGCGTGGAGGCCAAATTCCTC ATAACCCTATCTGCCGAGTATGACTCCAAAAAATCATTGGTTCACCTGCC AAATTCGGTCTCGCTCTTTCTCTCAAGCCTTAA