

Table S1. List of primers used in this study.

Primer Name	PrimerSequence (5'→3')	Purpose
<i>AtSOS1</i> -F	CTGCTTGCTACATTTCTGC	qPCR
<i>AtSOS1</i> -R	TGCTTCCTCTCCTTCCTT	qPCR
<i>AtSOS3</i> -F	GAATCCATCGCTCATCAA	qPCR
<i>AtSOS3</i> -R	CCATTTCCTCCTCTTCACA	qPCR
<i>AtNHX1</i> -F	AGCCTTCAGGGAACCACAAT	qPCR
<i>AtNHX1</i> -R	CTCCAAAGACGGGTCGCATG	qPCR
<i>AtLEA3</i> -F	GATTGACCCGGCTGAGCTACGA	qPCR
<i>AtLEA3</i> -R	AGATGGGATTCACCACAAAAGA	qPCR
<i>AtCCA1</i> -F	TTTGAGGCTTTATGGTAG	qPCR
<i>AtCCA1</i> -R	TTTCTGAGCGTGACTTCT	qPCR
<i>AtCOR4</i> -F	GAATCACCAGCGACGACA	qPCR
<i>AtCOR4</i> -R	CCCCAAGAAATCAAACAA	qPCR
<i>AtCBF1</i> -F	CCGACTTGTTGGATAATATGGCTGAAG	qPCR
<i>AtCBF1</i> -R	TTAGTAACTCCAAAGCGACACGTCACC	qPCR
<i>AtCBF3</i> -F	TTTACACGGCGGAACAGA	qPCR
<i>AtCBF3</i> -R	CACTGTACGGACGGAAGC	qPCR
<i>FvActin</i> -F	GCGACAATGGAACTGGAATGG	qPCR
<i>FvActin</i> -R	GACAATTTCCCGTTCAGCAGTG	qPCR
<i>FvMYB114</i> -F	ATGGAGGAGCAGACGGGT	full-length cDNA of FvMYB114
<i>FvMYB114</i> -R	CTATTCCGTATTATGCAAGATTTGTG	full-length cDNA of FvMYB114
<i>HR</i> -F	AGAACACGGGGGACGAGCTCATGGAGGAGCAGACGGGT	PCR for homologous recombination
<i>HR</i> -R	ACCATGGTGTCGACTCTAGACTATTCCGTATTATGCAAGATTTGT	PCR for homologous recombination
<i>FvMYB114</i> -qF	GGAGGAGCAGACGGGTTT	qPCR
<i>FvMYB114</i> -qR	TTGCCTAAGAGTTTGTGA	qPCR
<i>FvMYB114</i> -s1F	GTCGACATGGAGGAGCAGACGGGT	For subcellular localization
<i>FvMYB114</i> -s1R	TTCCGTATTATGCAAGATTGTGGATCC	For subcellular localization

ATGGAGGAGCAGACGGGTTTGAGAAAGGGCGCATGGACGAGAGAAGAAGATAATATTTTG
 M E E Q T G L R K G A W T R E E D N I L
AGGCAGTGCCTCGCAAAGCATGGAGAAGGAAAATGGCACCAGATTCTGCAGCTGCAGGC
 R Q C V A K H G E G K W H Q I P A A A G
TTGAAAAGATGCAGGAAGAGCTGTAGGCTAAGGTGGCTGAATTATCTGAAACCGGATATA
 L K R C R K S C R L R W L N Y L K P D I
AAGAGAGGAGACTTTGAGGATGCTGAAGTAGATCTCATCATTAGGCTTCACAAACTCTTA
 K R G D F E D A E V D L I I R L H K L L
 GGCAACAGGCAAGCAGAAACTTTATACATATACGCACAAATCTTGCATAATACGGAATAG
 G N R Q A E T L Y I Y A Q I L H N T E *

300bp

Figure S1. Sequence of *FvMYB114*. The whole length of *FvMYB114* is 300bp, encoding 99aa. Underline means conserved DNA-binding domain of *FvMYB114*. * means termination codon.

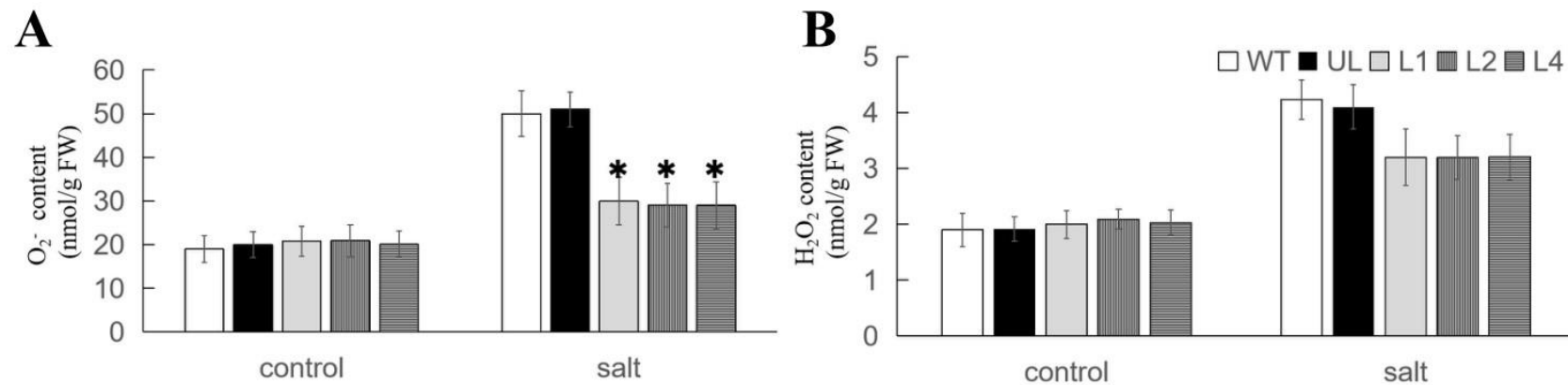


Figure S2. O₂⁻ content and H₂O₂ content were tested between WT, UL and transgenic *Arabidopsis* under salt treatment. (A) O₂⁻ content of WT, UL, L1, L2 and L4 under control and salt condition; (B) H₂O₂ content of WT, UL, L1, L2 and L4 under control and salt condition. * $P \leq 0.05$

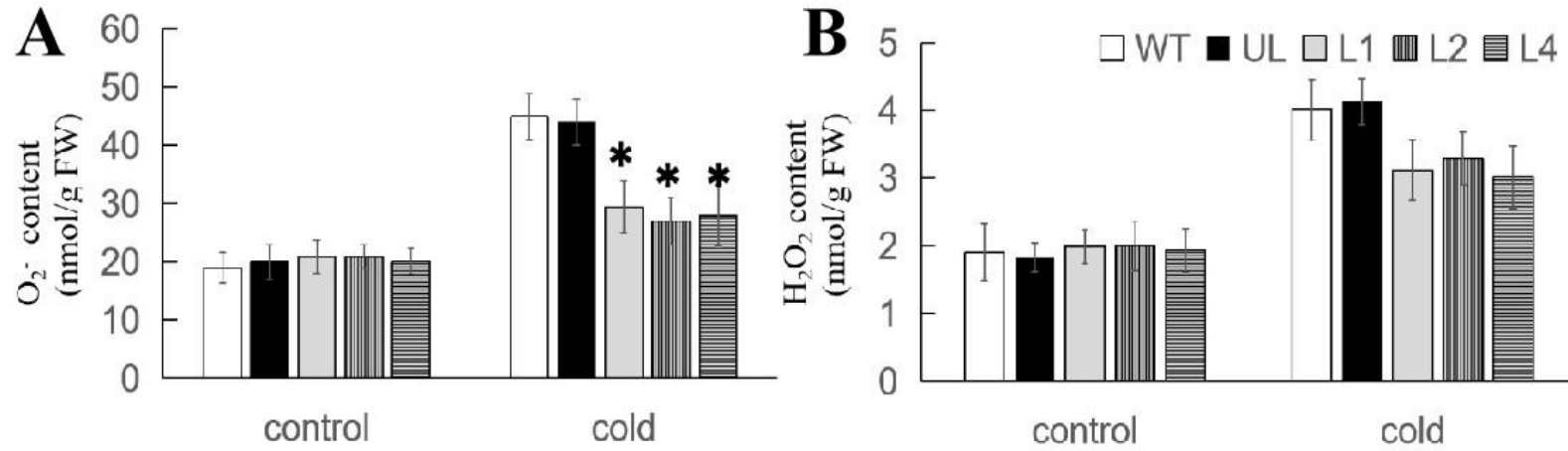


Figure S3. O_2^- content and H_2O_2 content were tested between WT, UL and transgenic *Arabidopsis* under cold treatment. (A) O_2^- content of WT, UL, L1, L2 and L4 under control and cold condition; (B) H_2O_2 content of WT, UL, L1, L2 and L4 under control and cold condition. * $P \leq 0.05$.