

Table S1. Primers used in this study.

Primer name	Primer sequence (5'-3')
Primers for subcellular localization	
<i>EkAACT</i> -F1	ATCGGGTACCATGGCCCCAGCTGCAGTC
<i>EkAACT</i> -R1	ATCGGAGCTCAACGCAAACAAGGAAATACTTTCTC
GFP-F1	ATCGGAGCTCATGGTGAGCAAGGGCGAGGA
GFP-R1	ATCGGAGCTCTTACTTGTACAGCTCGTCCA
Primers for transgenic overexpression in <i>Arabidopsis</i>	
<i>EkAACT</i> -OE-F	ATCGGTCGACATGGCCCCAGCTGCAGTC
<i>EkAACT</i> -OE-R	ATCGGAGCTCCTAAACGCAAACAAGGAAATACTTTCTC
Primers for real-time quantitative PCR in <i>Arabidopsis thaliana</i>	
<i>AtAACT-F</i>	CGTCGCTGATTCACCAACAACAAC
<i>AtAACT-R</i>	CGCCGAATGGAGAGAGCTGAAAG
<i>AtMDC-F</i>	GTGATGGTGACGGCGCAGAC
<i>AtMDC-R</i>	ACGGTGGTGAGAGTACAGAGGTG
<i>AtMK-F</i>	TCAGTGTTCAACGCCGTGGATTC
<i>AtMK-R</i>	GACAGGAGCAGACCTTGGTTCATC
<i>AtHMGR-F</i>	CTGGATCGAAGGACGTGGTAAGC
<i>AtHMGR-R</i>	AGCCTCAACGCTAGTCTTCAACAC
<i>AtHMGS-F</i>	TGGACGTTATGGCCTCGTCA
<i>AtHMGS-R</i>	GCCATGTGGCTTGCTCTCAA
<i>AtSOD-F</i>	ATGAGAAGTTCTATGAAGAG
<i>AtSOD-R</i>	GTCTTTATGTAATCTGGT
<i>AtPOD-F</i>	TCCGGGAGCCACACCATTGG
<i>AtPOD-R</i>	TGGTCGGAATTCAACAG
<i>Atactin-F</i>	GGTAACATTGTGCTCAGTGGTGG
<i>Atactin-R</i>	AACGACCTTAATCTTCATGCTGC

Primers were designed according to the sequence of unigene in transcriptome of *Euphorbia kansui* “ F ” and “ R ” denote “ forward ” and “ reverse ” primers, respectively. “ __ ” denote restriction enzyme cutting site.