

SUPPLEMENTARY DATA

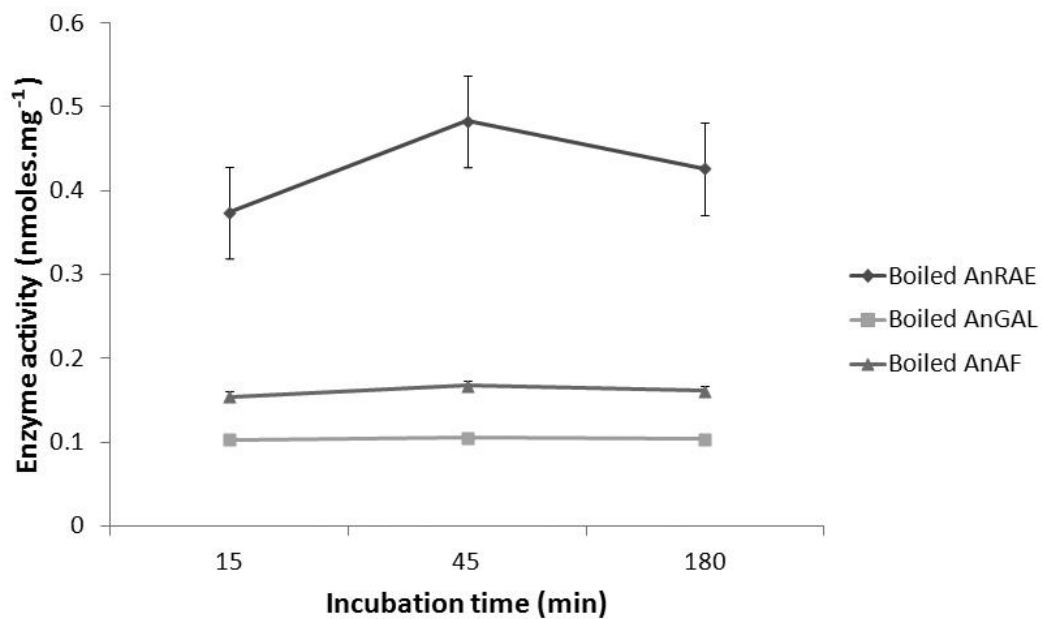
TABLE S1. List of primers used

Primer ID	Primer sequence 5'-3'
ZmSP-1	CACCTATGGGATCCCTCGTTAATAACATCATGGTCGTGGGCGCCGTCTTGCGGCGCTCGTCGCCGGCGGGTCGTGC
ZmSP-2	GGTACCTCTAGAGCACGACCCGCCGGCGACGAGCGCCGCAAGGACGGCGCCCACGACCATGATGTTATTAACGAGGGATCCCATA
ZmSP_F	GAATTCATGCGATCCCTCGTTAATAA
ZmSP_R	GGTACCCCATGGGTGACGACGTCGCACGACCCGCCGGCGACGA
GFP_F	GGGACTCTAGAGGATCCGAAGGAGATATA
GFP_R	GAGGGCCCCTAGTAACATAGATGACACCG
ZmUbiP_F1	GAGCTCGCGGCCGCTTTTGCAAATAGCTTCACCT
ZmUbiP_R1	ACTAGTCACTAGTACCTGCAGAAGTA
ZmUbiP_F2	CTGAGCTCTTTTGCAAATAGCTTCACCT
ZmUbiP_R2	GCGGCCGCCACTAGTACCTGCAGAAGTA
AnAF_Forw	TGAGAAACCTCAGTACCTGG
AnAF_Rev	CTTCAGGGTGAGGAGCCCTG
AnGL_Forw	TGTTCCGCTCAACGGCTACGGT
AnGL_Rev	CTGCCTTTCTAAGAAGACCAC
AnRAE_Forw	TGAAATCCATCGCTCTTACC
AnRAE_Rev	CAAGCATTACCGTCGAAATC
pUbiP_Rev3	CAGTTTAAACTATCAGTGTT
pUbiP_Rev2	CATGATCAGATTGTCGTTTC
pUbiP_Rev1	ACGTGACTCCCTTAATTCTC
pUbiP_Forw2	ATCCCCCTGGCTGCAGGAAT
pUbiP_Forw1	CGTCACCGAGATCTGATGAC

TABLE S2. Flanking sequence tags obtained from transiently expressing plants.

AnGL expressing plant.	T-DNA insertion localized in <i>Brachypodium distachyon</i> uncharacterized locus LOC100827459 predicted to encode 2226 bp mRNA (GenBank ID: XM_003565782) and located in the Chromosome 2 (GenBank ID: NC_016132.1)	nnnnnnnnnnnnnnnggennntgggcccgacgtcgcgatgctcccggccgcatggcggccgcgggaattc gattc CTTCAGTTTAAACTATCAGTGTTTGACAGGATATATTGGCGGGTAAACCTATGTGCCGCTGGCCGGTGAAATACAATCCGGCGATACAGTAA GCCTTGCTGTAACGGTGTGGTTACCGGTAGCCACACCGCTGAACGTAGGGCTTGACTGGTAGGCACCACCATCCAATGCGTACTCATAATTTATACCCAACGGCTGCTTACACTTATGGTACCTGAAGATACCGATNNNNTC
AnAF expressing plant.	T-DNA insertion localized in <i>Brachypodium distachyon</i> uncharacterized locus LOC100843429 predicted to encode 6384 bp mRNA (GenBank ID: XM_003581200) and located in the Chromosome 5 (GenBank ID: NC_016135.1)	nnnnnnnnnnnnnnntnaangagctctcccatatggtcgacctgcagggccgccaatt AGTTTAAACTATCAGTGTTTGACAGGATATATTGGCGGGTAAACCTGCCGTTCCGGCCGACGAGCCGCGTCCGGCCGCCTCGAAGCTCCCTTCCCCACGGGCGGCGGGCTGAATCCTTTGCAGACGACTTAAATACGCGACGGGGCATTGTAAGTGGCAGAGTGGCCTTGCTGCCACGATCCACTGAG
AnRAE expressing plant.	T-DNA insertion localized in <i>Brachypodium distachyon</i> locus LOC100826424 predicted to encode 4955 bp mRNA of sister chromatid cohesion protein PDS5 homolog B-B-like (GenBank ID: XM_003565782) and located in the Chromosome 1 (GenBank ID: NC_016131.1)	nnnnnnnnnnnnnnnagggnnantgggcccgacgtcgcgatgctcccggccgcatggc TCAGTTTAAACTATCAGTGTTTGACAGGATATATTGGCGGGTACCACACCAGCAA AAGACAATGATGAGATTTTAGTAAATTCTGTCAACACAGAAAAAATAAATCTTTGGAAAGCAAGTTGAAGAAGGAGAAAAAGCAGAGCT

FIG. S1. Negative controls for enzyme activity assays.



Apoplasmic fluid containing each enzyme type was boiled and incubated with appropriate substrate: AnRAE with pNP-acetyl; AnGAL with pNP- α -galactopyranoside; and AnAF with pNP-arabinoside. Mean \pm standard deviation ($n = 6$).