

Supplementary materials

Table S1 Primers used in this study

Primer name	Primer sequence (5'-3')
Primers for RACE	
5GSP1	TCCAAGTTCTCATGTCGGGC
5GSP2	TTCAAGCTCGGCCATGTCTT
3GSP1	ATGCAGTCAAGGGCGATAGG
3GSP2	CCGTTGTCAACATGGAAGGC
Primers for vector construction	
<i>pMDC83-AKR-F</i>	CCTTAATTAAATGGCGGCAGCAACGC
<i>pMDC83-AKR-R</i>	AGGCGCGCCACACAGCCTTCCATGTTGACAAC
<i>pC3301-121-AKR-F</i>	GCTCTAGAATGGCGGCAGCAACG
<i>pC3301-121-AKR-R</i>	CGAGCTCTTACACAGCCTTCCATGTTGACAA
Primers for identifying transformants	
<i>Bar-F</i>	TCTGCACCATCGTCAACCAC
<i>Bar-R</i>	AAACCCACGTCATGCCAGTT
Primers for qRT-PCR	
<i>APX-F</i>	GCCTGATGCTACCAAGGGTT
<i>APX-R</i>	AGGTATGGCCACCAGAGAGT
<i>GPX-F</i>	CGTGTGGACAGAATCGCAGT
<i>GPX-R</i>	TGCTGCAATCTCGAACCCTT
<i>Ibactin-F</i>	AGCAGCATGAAGATTAAGGTTGTAGCAC
<i>Ibactin-R</i>	TGGAAAATTAGAAGCACTTCCTGTGAAC
<i>IbAKR-F</i>	GTGCACCATCAGGGGAATGA
<i>IbAKR-R</i>	TTTCAAGCTCGGCCATGTCT
<i>MDHAR-F</i>	TCAAGTACGTGATCGTCGGC
<i>MDHAR-R</i>	GTTCCCCTGGCTTAACTCCC
<i>Ntactin-F</i>	GGAAACATAGTGCTCAGTGGTG
<i>Ntactin-R</i>	GCTGAGGGAAGCCAAGATAG
<i>POD-F</i>	TGCGATGGATCGCTACTCCT
<i>POD-R</i>	ACACCAGGGCACACTTTCTC

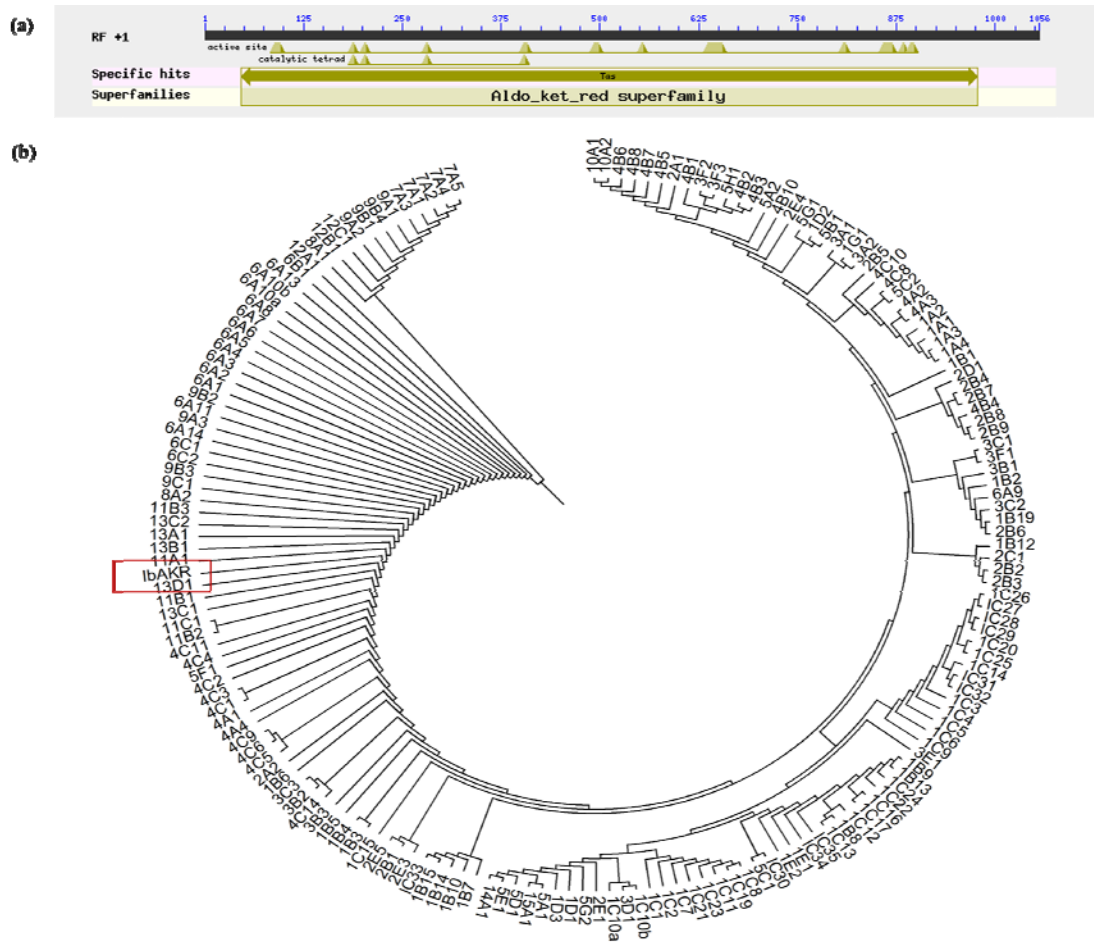


Fig. S1 Analyses of the *IbAKR* gene from sweet potato. (a) Structure analysis of the *IbAKR* protein; (b) multiple sequence alignment of *IbAKR* protein with all members in AKR family.