

**Supplementary Materials**

**Table S1. Primers used for qPCR.**

<b>Genes</b>	<b>Forward primers (5'→3')</b>	<b>Reverse primers (5'→3')</b>
<i>TaACSI</i>	gag gtt gtg aac gag cta gaa g	ctc gaa acc ctg caa gag ata g
<i>TaACO</i>	tgt cca tgg cct cct tct a	cga aca cga acc ttg ggt at
<i>TaEIL1</i>	ggc tca aca acc tgg att tt	ccc tgt cca aag aaa ccc t
<i>TaPIE1</i>	aca cat gcc gac gaa tct ac	ccg agt tca aac cca aat tca c
<i>TRbohD</i>	acc acc aga cca gac aga c	tgg ttg gat agg agg cgt ag
<i>TaRbohF</i>	tgg cac ccc ttc tca att ac	ctc tcg tgt cca gtc acc aa
<i>Ta PR1-4</i>	ata acc tgg gcg tct tca tc	gct tat tac ggc att cct ttt
<i>Ta PR2</i>	gcg tga agg tgg tga ttt	gtg ccc gtt aca ctt gga t
<i>TaIPT2</i>	att cgt aca tgg gtg ttc cta tac	aat tgt tgg tac gta ggt gga g
<i>TaIPT5</i>	cga act agc tgt cat gcc ata g	aga gct tga ccg tag cag ta
<i>TaZOG2-1</i>	cct gca tgt cca agg agt tcc tc	gaa gga cac gta gag cac cga ct
<i>TaGLU1-1</i>	aat aac aac gca acg gtg aca gtt a	gat ccc gac gac atg caa aca
<i>TaGLI4</i>	acg tga cgg tcg acg agt acc ata	tct cca aac acc ttg aag cag aac t
<i>TaCKX1</i>	gga ggt ggc gct gga caa gat c	gca gaa ccg cag tat ctt ctg gt
<i>TaRR21</i>	tca acc agt cag cct ttc at	tag agc cca ttc cca tag ag
<i>TaWRKY13</i>	gag gag gaa cat gag cag aag	gaa cca ccc gaa gtc gaa g
<i>TaRLI</i>	ttg-agc-aac-tca-tgg-acc-ag	gct-ttc-caa-ggc-aca-aac-at

**Table S2. The lists of orthologous genes used in this work.**

<b>Genes</b>	<b>Accession numbers</b>	<b>Orthologs</b>	<b>Accession numbers</b>	<b>References</b>
<i>TaACS1</i>	U35779	<i>OsACS6</i>	AK065212	Subramaniam et al., 1996
<i>TaACO</i>	KF900072	<i>AtACO</i>	NM_127517	Zhang et al., 2019
<i>TaEIL1</i>	KU030837	<i>AtEIN3</i>	NM_112968	Duan et al., 2013
<i>TaPIE1</i>	EF583940	<i>AtERF1</i>	NM_113225	Zhu et al., 2014
<i>TRbohD</i>	AK335454	<i>AtRbohD</i>	NM_124165	Dmochowska-Boguta et al., 2013
<i>TaRbohF</i>	AY561153	<i>AtRbohF</i>	NM_105079	Dmochowska-Boguta et al., 2013
<i>TaPR1-4</i>	KF196278	<i>AtPR1</i>	NM_127025	Lu et al., 2011
<i>TaPR2</i>	DQ090946	<i>AtBGL2</i>	NM_115586	Lu et al., 2011
<i>TaIPT2</i>	JN128577	<i>ZmIPT2</i>	ABY78882	Song et al., 2012
<i>TaIPT5</i>	JN128579	<i>ZmIPT5</i>	NP001121194	Song et al., 2012
<i>TaZOG2-1</i>	JN128594	<i>ZmcZOG2</i>	Q8RXA5	Song et al., 2012
<i>TaGLU1-1</i>	JN128599	<i>ZmGLU2</i>	ACG24271	Song et al., 2012
<i>TaGLU4</i>	JN128604	<i>HvGLU</i>	ACF07988	Song et al., 2012
<i>TaCKX1</i>	JN128583	<i>ZmCKX1</i>	NP001105591	Song et al., 2012
<i>TaRR21</i>	JF951927	<i>AtRR2</i>	NM117704	Zhang et al., 2012
<i>TaWRKY13</i>	EF397614	<i>AtWRKY70</i>	NM_115498	Wu et al., 2008

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