

Supplementary Material

Table S1 Eigenvalue and cumulative contribution of PCs of photosynthetic parameter and their corresponding loading

PCs	Eigenvalue	Variance contribution rate %	Cumulative contribution rate %
1	9.91848	56.80025	56.80025
2	2.81164	17.49358	74.29384
3	1.77146	10.96433	85.25817
Photosynthesis and related parameters		Loading	
		PC1	PC2
Osmotic substances	Suc	0.09407	0.19112
	K ⁺	0.25998	0.11004
	RWC	0.26668	0.14955
Leaf moisture status	ψ _p	0.31871	-0.03719
	ψ _s	0.29453	0.05814
	ψ _m	0.31042	0.01048
	Tr	0.31471	0.04608
	l	-0.30989	-0.12071
Photosynthesis	g _m	-0.11068	0.38633
	Ci	0.04836	0.46685
	A	0.3065	0.11886
	g _s	0.30575	0.16694
	Je	-0.24672	0.33996
Chlorophyll fluorescence	Y(II)	-0.24672	0.33996
	NPQ	-0.004	0.47595
	Fv/Fm	0.22116	-0.20142

Table S2 The concentration and components of macronutrients in both treatments

Treatment	N (5 mM)	K (3 mM)	Ca (1.5 mM)	Mg (1 mM)	P (1 mM)
AN	(NH ₄) ₂ SO ₄	KH ₂ PO ₄ / K ₂ SO ₄	CaCl ₂ / CaSO ₄	MgSO ₄	KH ₂ PO ₄
NN	Ca(NO ₃) ₂ / KNO ₃	KH ₂ PO ₄ / KNO ₃	Ca(NO ₃) ₂	MgSO ₄	KH ₂ PO ₄

Note: AN, ammonium stress treatment; NN, nitrite treatment.

Table S3. The primer sequence in this study

Gene name	Primer sequence (5' → 3')	Primer sequence (3' → 5')
<i>TaHAI</i>	CAACGACAAGAGCAGCTACC	GATGGTGTCTGATGTCAAGGC
<i>TaKAT1</i>	TTCTGGGATGGGCTTCACAT	CCAGAATCTGTAGCGGGGAT
<i>TaKOR1</i>	CAAGGCAGTGCAGTTGATCA	TCTCCTCTTGACCGTCTTCG
<i>TaTIP2.3</i>	GCCATTCTAAGCCACCAT	ATGAACTCGGCGATGTAG
<i>TaPIP1.2</i>	TCCTCTGTCTGAACTTGA	GAATACTACTGCTACCACAT
<i>TaTIP1:1</i>	TATGAGGCGTTAGTTACC	CTGCTCCAATCATTCAAC
<i>TaAKT1</i>	CCCTACGACCGCCGATAC	ATTCTGATGGGATGGTGGAG
<i>ACT</i>	CAGCAACTGGGATGATATGG	ATTTCGCTTTCAGCAGTGGT
<i>ADP</i>	GAGATGCGGATCCTGATGGT	CCCCGAGCTTGAGCTTGTAG