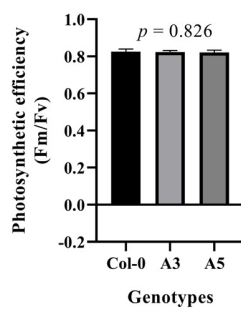


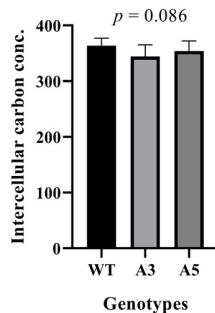
Supplementary Materials

Table S1. Primers for PCR and qRT-PCR

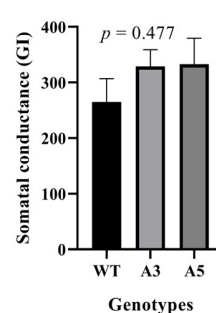
Name	Primer's sequence
<i>TrIAA27</i> -F	5'-ATGTCTGTGCCAGTGGAAC-3'
<i>TrIAA27</i> -R	5'-CTAGTTGCGACTTTTGCAC-3'
<i>TrIAA27</i> -RACE3'	5'-CCAAATGCATAAGCCATGCCATGCC-3'
<i>TrIAA27</i> -RACE5'	5'-ATGCCATTAACCCAATGGCATAACC-3'
<i>TrIAA27</i> -gene primer- F	5'-ATGTCTGTGCCAGTGGAAC-3'
<i>TrIAA27</i> -gene primer- R	5'-CTAGTTGCGACTTTTGCAC-3'
pCambia1301-vector construct-F	5'-ATGGCGGAAACCTTTCTATT-3'
pCambia1301-vector construct-R	5'-TTAAGCTTGAGGCTTCTCCCACTTG-3'
pSUPER1300- Vector construct-F	5'-CCAAATCGACTCTAGAATGTCTGTGCCAGTGGAACAAG-3'
pSUPER1300- Vector construct-R	5'-CCCTTGCTCACCATGGTACCGTTGCGACTTTTGCAC-3'
<i>TrIAA27</i> qRT-PCR-F	5'- CTCCTTCCATACTGGTCTCCTCCGC-3'
<i>TrIAA27</i> qRT-PCR-R	5'- GCCCAAACATTAGGTGGTCTT-3'
<i>Trβ</i> -Actin qRT-PCR-F	5'-TTACAATGAATTGCGTGTG-3'
<i>Trβ</i> -Actin qRT-PCR-R	5'-AGAGGACAGCCTGAATGG-3'



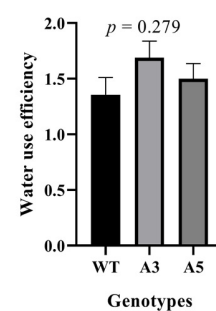
(a)



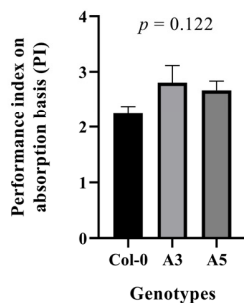
(b)



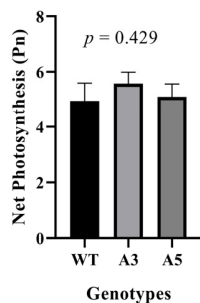
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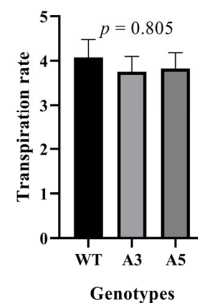
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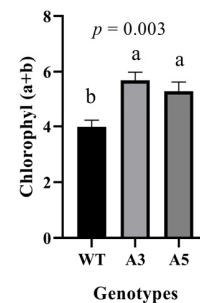
(e)



(g)



(h)



(i)

Supplementary Figure S1. Statistical comparison of photosynthesis-related traits of wild-type (WT) and *TrIAA27* overexpression (OE) lines of *Arabidopsis thaliana*. Different alphabet letters over bars show statistically significant differences (ANOVA, $p < 0.05$) among genotypes, and the error bar show standard error (SE). WT, OE3, and OE5 represent wild types, overexpression line 3 and overexpression line 5, respectively.