

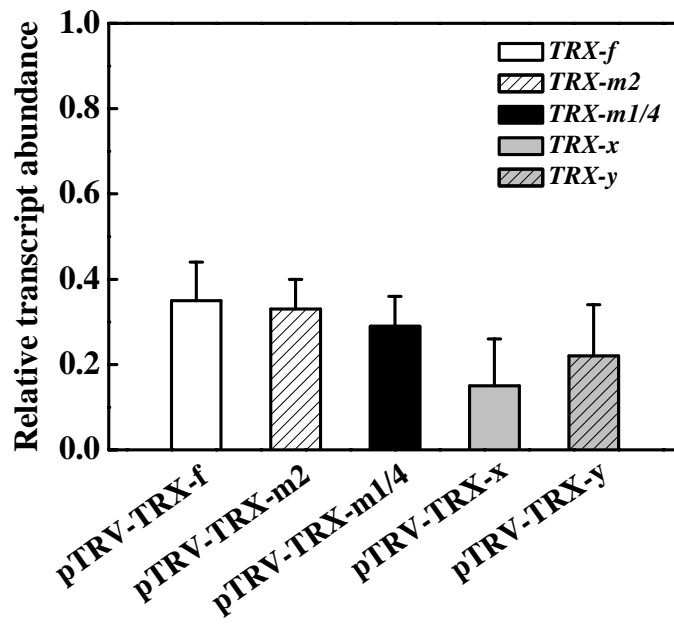
Supplemental Table S1. PCR primers designed for vector construction.

Vector	Forward primer	Reverse primer
pTRV2- <i>TRX-f</i>	5'-CGGCG <u>CTCGAG</u> ATATTTCTTCTTTTTTTT- 3'	5'-GGCGC <u>GAGCTC</u> AAGAATATGAGAATTTAGCT- 3'
pTRV2- <i>TRX-m2</i>	5'-CGGCG <u>CTCGAG</u> TACAATGGTGCGCGCATA- 3'	5'-GGCGC <u>GAGCTC</u> TAGTAGAATATTACTTCA- 3'
pTRV2- <i>TRX-m1/4</i>	5'-CGGCG <u>CTCGAG</u> CCTGGTGTTAATGATCAAT- 3'	5'-GGCGC <u>GAGCTC</u> TTACAAGAATTTTTCTAT- 3'
pTRV2- <i>TRX-x</i>	5'-CGGCG <u>CTCGAG</u> TATTCAGGGAAAAGTTCA- 3'	5'-GGCGC <u>GAGCTC</u> TGCATAAATACGATCATC- 3'
pTRV2- <i>TRX-y</i>	5'-CGGCG <u>CTCGAG</u> TCTTAGCGTGCTGCCTTT- 3'	5'-GGCGC <u>GAGCTC</u> TACATTGAACATCAGTTG- 3'

Supplemental Table S2. Gene-specific primers designed for quantitative real-time RT-PCR.

Gene	Accession numbers	Forward primer	Reverse primer
<i>actin</i>	S111g005330	5'-TGTCCTATTACGAGGGTTATGC- 3'	5'-CAGTTAAATCACGACCAGCAAGAT- 3'
<i>RCA</i>	S110g086580	5'-CTGTTGGTCATCCGATGTGT- 3'	5'-CCCAAGGTTTCAAACAGGAA- 3'
<i>rbcL</i>	S101g007330	5'-ACCGCAAATACTACCTTGGC- 3'	5'-CCACCAGACATACGTAACGC- 3'
<i>rbcS</i>	S102g063150	5'-TTGCTTGAATTCGAGACTG- 3'	5'-CTCTTGAACCTCAGCCAACA- 3'
<i>FBPase</i>	S102g062340	5'-GAAGAGAAATGGCATCAGCA- 3'	5'-AGTGAGTCCAGAAGGATGGG- 3'
<i>SBPase</i>	S105g052600	5'-AGTTGGTGCTGCTGTTTGAG- 3'	5'-TTCGCGATGCTCTAGAAAGA- 3'
<i>PGK</i>	S107g066610	5'-GAAGGGCAAGAAAGTCTTCG- 3'	5'-AGTGTTTGATGGTAGGGATGG- 3'
<i>PRK</i>	S108g076220	5'-GGGATATGGCTGAAAGAGGA- 3'	5'-CTGAGTTGGGAGCACTTCAA- 3'
<i>GAPDH</i>	S103g111010	5'-GATTGGAGAGGTGGAAGAGC- 3'	5'-ACCACGGACACATCAACAGT- 3'
<i>TRX-f</i>	S105g056300	5'-CACAGTGGTGTGGTCCTTGT- 3'	5'-TTTGCTAGTGGCCTGTTGTC- 3'
<i>TRX-m2</i>	S110g006970	5'-GTCGATCCTCGGCAGTTAAT- 3'	5'-TTTCCTGAGCTTCACAGACG- 3'
<i>TRX-m1/4</i>	S112g013810	5'-CCGTCGTTGTCTCCTGTTT- 3'	5'-GCCTCACAGACGATTCTTCC- 3'
<i>TRX-x</i>	S101g008250	5'-CCGTTGCTGAGGAGTACAAA- 3'	5'-TCTGGGACTTCCTTCCATC- 3'
<i>TRX-y</i>	S104g071560	5'-CGTCTTGTTCTCCTGTTGA- 3'	5'-TAGGAACCATGAACTGGCAA- 3'

Supplemental Figure S1. Relative mRNA abundance of *TRX-f*, *TRX-m2*, *TRX-m1/4*, *TRX-x* and *TRX-y* in respective virus-induced gene silencing (VIGS) plants. Data are the means of the 5th leaf of six silenced plants (\pm SD). Relative gene expression for each *TRX* gene was calculated as the pTRV plants (control)=1.



Supplemental Figure S2. Changes in maximum quantum yield of PSII (F_v/F_m) in the leaves of pTRV and various partially *TRX*-silenced plants. F_v/F_m was measured with imaging PAM (IMAG-MAXI; Heinz Walz, Effeltrich, Germany) after whole plants were dark adapted for 30 min. Minimal fluorescence (F_o) was measured during the weak measuring pulses and maximal fluorescence (F_m) was measured by a 0.8-s pulse light at about $4,000 \mu\text{mol m}^{-2} \text{s}^{-1}$. $(F_m - F_o)/F_m = F_v/F_m$. Data are the means of four replicates with SDs. Means followed by the same letter are not significantly different according to Tukey's test ($P < 0.05$).

