

Table S1. Primers used for this article.

Primer name	Primer sequence (5'-3')	Usage
PpOG1-A-rec-F	CCAGTCACTATGGCGGCCGCATGGCGCCGAAGGCCAAAC	Overexpression of A
PpOG1-A-rec-R	TTCTCCTTTACCCATCTCGAGGTCTTCAATCTTTATCGAAATTG	Overexpression of A
F	CTTGGTGTTTCGAGCTTTTCC	PCR for A
R	CCATGATGTATACGTTGTGGG	PCR for A
Ppactin_F	CGGAGAGGAAGTACAGTGTGTG	qRT-PCR for actin
Ppactin_R	ACCAGCCGTTAGAATTGAGCC	qRT-PCR for actin
PpRNH1A-qPCR-F	ACCGGGCTTTCATATTAGGGT	qRT-PCR for A
PpRNH1A-qPCR-R	GGAGTCCTTCATCGTTCACC	qRT-PCR for A

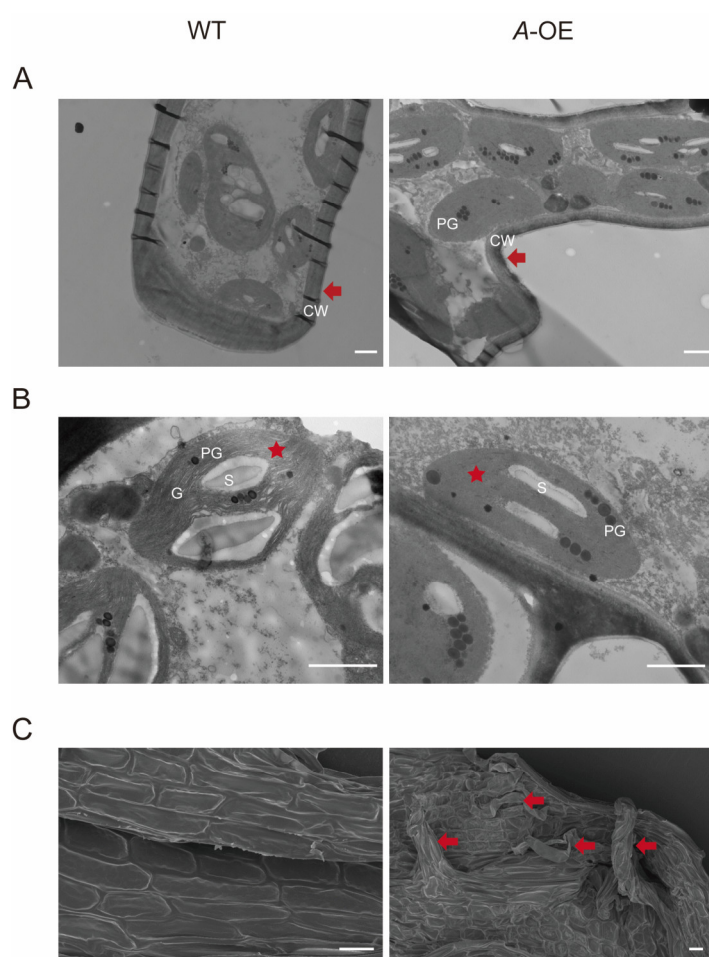


Figure S1. Morphology comparison between WT and A-OE plants. (A) Ultrastructure of cells of WT and A-OE were observed under transmission electron microscopy (TEM). Scale bar = 1 μ m. CW: cell wall; PG: plastoglobuli; the red arrows indicate the difference in cell wall between the WT and A-OE plants. (B) Ultrastructure of chloroplasts of WT and A-OE were observed under transmission electron microscopy (TEM). Scale bar=1 μ m. S: starch; G: granum; the red stars indicate the difference in chloroplast structure between the WT and A-OE plants. (C) The epidermal structure of WT and A-OE were observed under the scanning electron microscope (SEM). The red arrows indicate the protrusions and abnormalities on the surface of the A-OE plants. Scale bar = 20 μ m.