

Supplementary materials

Fig. S1. Photographs of 6-week old *Arabidopsis thaliana* plants used for experiments. Individual leaves, darkened for 4 days, are marked with asterisks.



Fig. S2. The molar content of carotenoids normalized by the molar content of chlorophylls, in control and 4-day darkened leaves of *Arabidopsis* WT and phototropin mutants. Each bar corresponds to an average of 4 biological replicates. Asterisks indicate statistically significant differences of means (P values adjusted with the Holm method: *P = 0.01–0.05; **P = 0.001–0.01, ***P < 0.001).

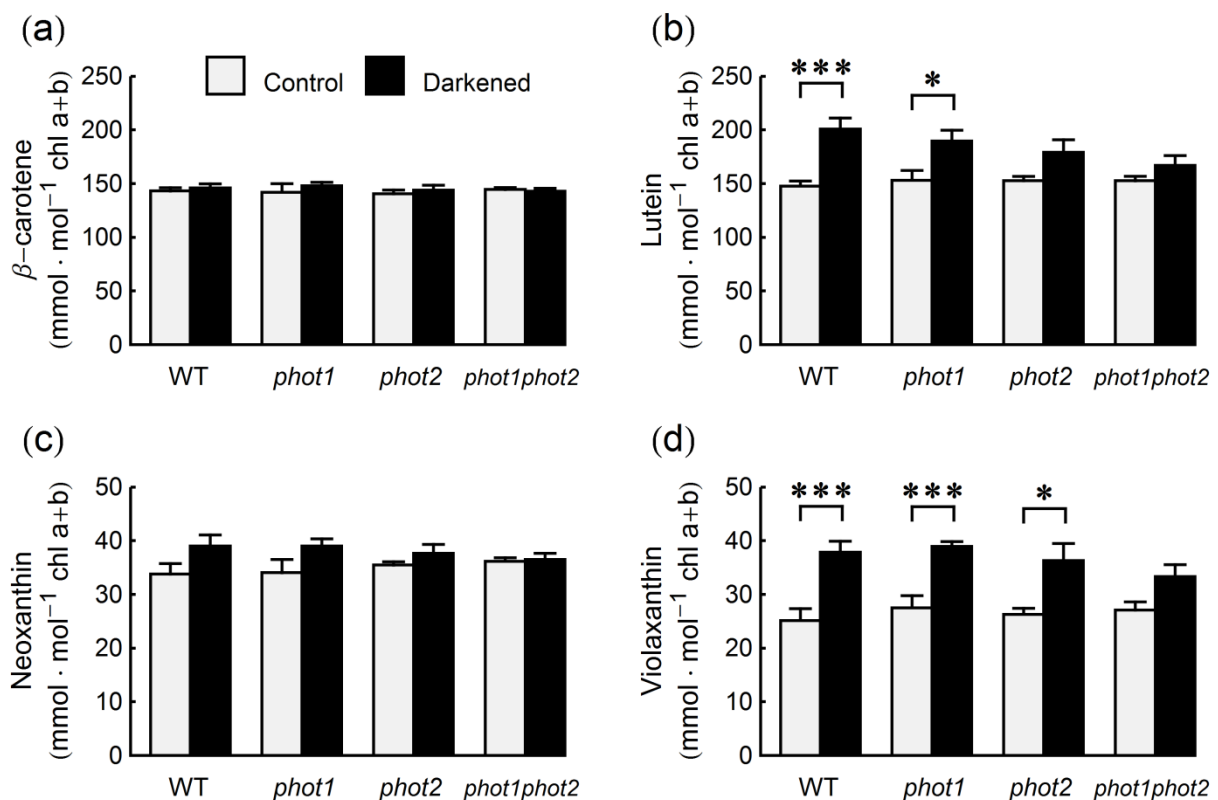


Table S1. Primer sequences and annealing temperatures used for real-time PCR experiments.

Name	sequence 5'-3'	annealing T [°C]
RBCS1AF	TTCGGAATCGGTAAGGTCAGG	63
RBCS1AR	AACGGCGGAAGAGTTAACTGC	
CABs_RTf	CCAGAGGCATTCGCTGAGTTG	53
CABs_RTR	CCTTACCAGTGACGATGGCTTG	
SAG12RT2F	GTGTCTACGCGGATGTGAAG	53
SAG12RT2R	CAGCAAACCTGATTTACCGCA	
SAG13_RTf	CTCTTCTCGTGACCAACGAGTG	53
SAG13_RTR	GCTTGAATATTGACGTTCCCAC	
SEN1_RTf	CACCTCTACAAACATGTGGATC	53
SEN1_RTR	GTTGTCGTTGCTTTCTCCATC	
PAL1_RTR	GCTTCC GAATAT TCCGGC GTTAA	53
PAL1_RTf	CCAAAA ACGGTG TCGCAC T	
UBQ10F	GGCCTTGATAATCCCTGATGAATAAG	53
UBQ10R	AAAGAGATAACAGGAACGGAAACATAGT	
UBCF	CTGCGACTCAGGGAATCTTCTAA	53
UBCR	TTGTGCCATTGAATTGAACCC	
SANDF	AACTCTATGCAGCATTGATCCACT	53
SANDR	TGATTGCATATCTTTATCGCCATC	

The CABs primers anneal with the sequences of two genes belonging to the family of chlorophyll a/b binding proteins, i.e. *CAB1* (*LHCBI.3*, At1g29930) and *CAB2* (*LHCBI.1*, At1g29920).