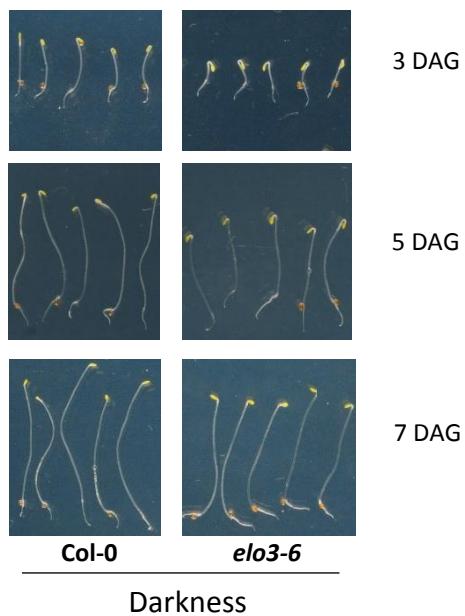


A



B



**Fig. S1 Phenotype of *elo3-6* seedlings grown in long day photoperiod or in darkness.** (A) Morphology of *elo3-1*, *phyB-1* and *phyA-201phyB-5* mutant seedlings grown for three weeks in long-day photoperiod (16-h light/8-h darkness). (B) *Col-0* and *elo3-6* seedlings grown for 3, 5 or 7 days on half-strength MS medium in darkness.

**Table S1.** PLAZA enrichment of Biological Process Gene Ontology (GO) categories identified within genes upregulated in the *elo3-6* mutant in darkness as compared to the wild type.[Click here to Download Table S1](#)**Table S2.** Gene classes identified as overrepresented by PLAZA 2.5 software within genes downregulated in the *elo3-6* mutant in continuous darkness as compared to the wild type.[Click here to Download Table S2](#)**Table S3.** Primer sequences and detection assays used for genotyping double or triple *Arabidopsis* mutants.

Mutant	Mutation	Detection	Forward primer sequence	Reverse primer sequence	Restriction enzyme	Product size (bp) Wild type	Product size (bp) Mutant type
<i>elo3-1</i>	Point mutation	dCAPS	AGCTTCCCTCCTATGTTCTGTT	AGGGTGGATATTTAACAGAT	<i>Bg</i> /II	238	
<i>elo3-6</i>	T-DNA insertion	PCR	TGGGGTTTAGGTAGTTGGG TGGGGTTAGGTAGTTGGG	ACCGTAAATCAGCATTGTCG ATATTGACCATCATACTCATTGC		1182	589
<i>phyA-201</i>	Point mutation	dCAPS	GAAGTGTGACTGCTCCACGAGT	TAGCAAGATGCACAGAACGCC	<i>Hinf</i> I	212, 29	241
<i>phyB1</i>	Point mutation	PCR-RFLP	TATTGCGTCTTAGCAATGGC	AAGCAACCACTCCACAACATC	<i>Alw</i> NI	247, 174	421
<i>phyB5</i>	Point mutation	PCR-RFLP	CGTGACGCGCCTGCTGGAATTGTT	TCCATTGATGCAGCCTCCGGCA	<i>Bsa</i> BI	666	375, 291
<i>hfr1-101</i>	Deletion	PCR	AATTAGGATGAATCGGAGGAG	AGTTGCTGTAGCTTACGCATC		117	104
<i>pif3-3</i>	Deletion	PCR	TTTCTTAAATCTACTTTGACCCG	TTAGGCCAAGAAAAACTGCC		2850	343
<i>pif4-2</i>	T-DNA insertion	PCR	ACCTCCTCAAGTCATGGTTAAGCTAAGCC TAGCATCTGAATTCTATAACCAATCTCGATACAC	TCCAAACGAGAACCGTCGGT TCCAAACGAGAACCGTCGGT		1400	300

**Table S4.** Primer sequences used for qPCR.[Click here to Download Table S4](#)**Table S5.** Primer sets and sequences used for the ChIP-qPCR analysis.[Click here to Download Table S5](#)