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## **Supplementary Material**

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## Light regulates hydrogen sulfide signalling during skoto- and photo-morphogenesis in foxtail millet

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**Fig. S1.** Sequence alignment between AtLCD, FMLCD1, and FMLCD2. (a, b): comparison of presumed amino acid sequences of FMLCD1 and FMLCD2 with AtLCD. (c) Comparison of presumed amino acid sequences of FMLCD1 with FMLCD2. Identical amino acids have a black background and unmatched amino acids have a white background.



**Fig. S2.** Photoresponsive cis-acting elements analysis of promoters of *LCD1*, *LCD2*, and *DES*. Promoter sequences of *LCD1* and *LCD2* and *DES* were analysed in SOGO promoter analysis (https://sogo.dna.affrc.go.jp/cgi-bin/sogo.cgi). A few light responsive cis-acting elements were found, such as GT-1 motif, I-Box, SORLREPs (sequences over-represented in light-repressed promoters), SORLIPs (sequences over-represented in light-induced promoters), and -10PEHVPSBD ("-10 promoter element" found in the barley (H.v.) chloroplast psbD gene promoter).

Primers used for qRT-PCR analysis	
Name	Sequence (5'-3')
ACTIN-qPCR-F	GGTATGGAGTCGCCTGGAATCC
ACTIN-qPCR-R	GCGGTCAGCAATACCAGGGAAC
LCD1-qPCR-F	TTCACCACCCTGTTGTCTCG
LCD1-qPCR-R	CAGCAAGCATCCTACCCATC
LCD2-qPCR-F	GCCTGGTTGCCTTGGTATT
LCD2-qPCR-R	GTCACTTGATCGCCATTCG
DES-qPCR-F	GGTGCTGAACTTGTCCTTAC
DES-qPCR-R	ACCTTCCCCTTTGAATCCTC

Table S1. Primers used for qRT-PCR analysis