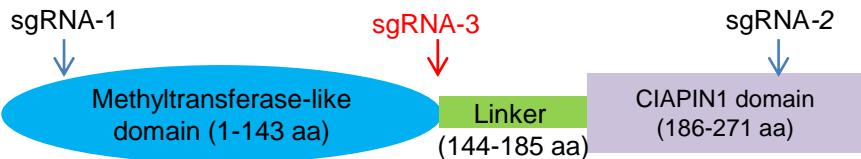
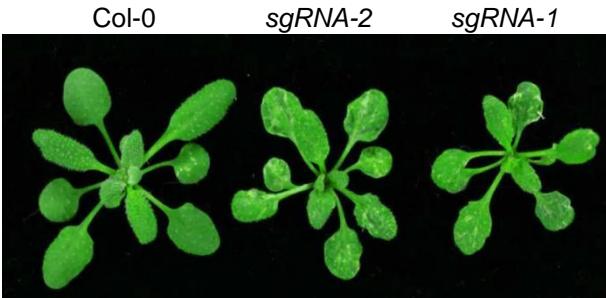
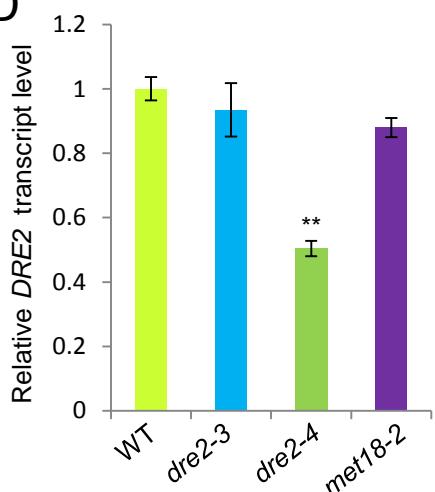


**A****B****C****E****D**

### S1 Fig. Generation of *dre2* hypomorphic mutants using the CRISPR/Cas9 system.

(A-B) Positions of sgRNAs targeting *DRE2*. Gene (A) and protein (B) structure of *DRE2*. Positions of the three sgRNAs are marked by colored arrows. Sequencing results of T3 generation of *dre2* mutants carrying sgRNA-1 and sgRNA-2 are shown. (C) Phenotype of 28-day-old Col-0 and *dre2* mutants carrying sgRNA-1 and sgRNA-2. (D) Second biological replicate of Fig 1E. (E) The developmental phenotype of *dre2-4*. (F) Splicing variants of *DRE2* mRNA in *dre2-4*. Upper: sequence alignment of *DRE2* genomic DNA (DRE2g), wild type *DRE2* CDS, and mutant forms of *DRE2* CDS. Lower: a closer view of the wrong splicing site in *dre2-4*. The red box shows the original 'AG' splicing site, while the green box shows the alternatively selected 'AG' splicing site in *dre2-4*. Blue arrows indicate the positions of primers used for amplification of splicing variants of *DRE2* mRNA in Fig 1C. (G) Amino acid sequence alignment of wild type and mutated forms of *DRE2*.

# S1 Fig

