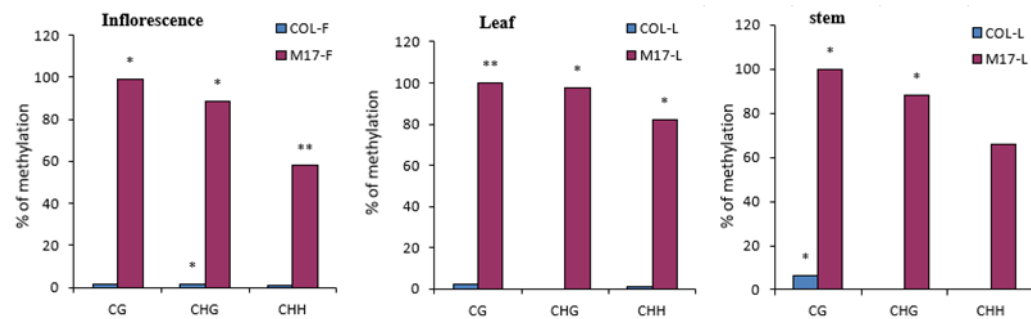
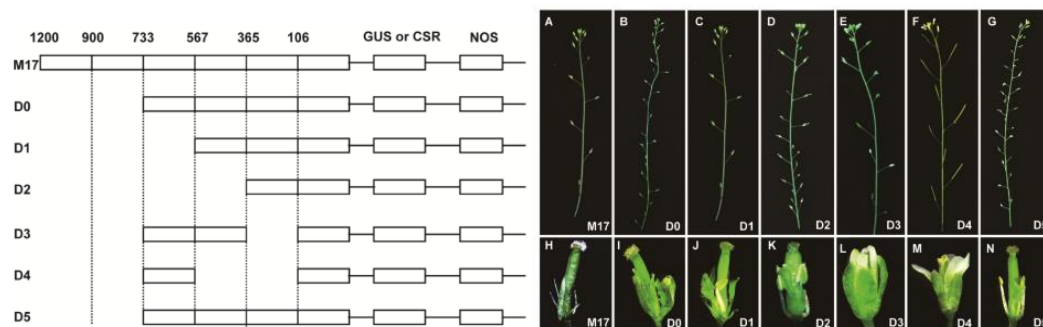


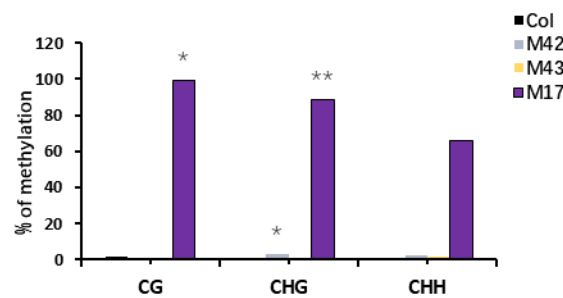
Supplementary Figure S1. The expression levels of these genes between col-0 and M17 flowers.



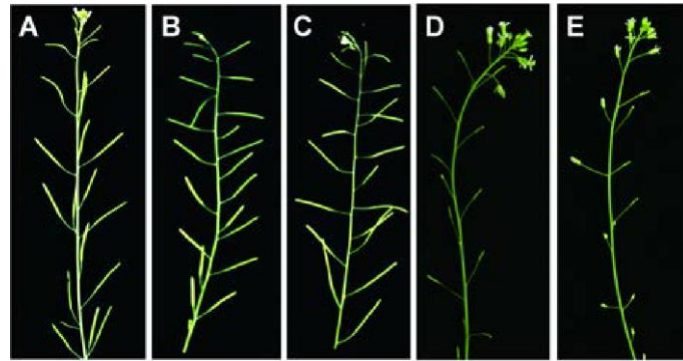
Supplementary Figure S2. DNA methylation analysis using leaves, stems and inflorescences. T test analysis of methylation differences in the group.



Supplementary Figure S3. *AP3* promoter truncation experimental vector schematic and transgenic phenotype.



Supplementary Figure S4. *AP3* promoter DNA methylation analysis M17, M42, M43, Col-0. T test analysis of methylation differences in the group



Supplementary Figure S5. Other transgenic phenotypes of the *ap3*-like phenotype. (A): 35SCSR; (B): ECSR; (C): ACSR; (D): PCP; (E): PCSR.