

Figure S1 The spectra of different light sources used in this study.

BL, blue light; GL, green light; RL, red light.

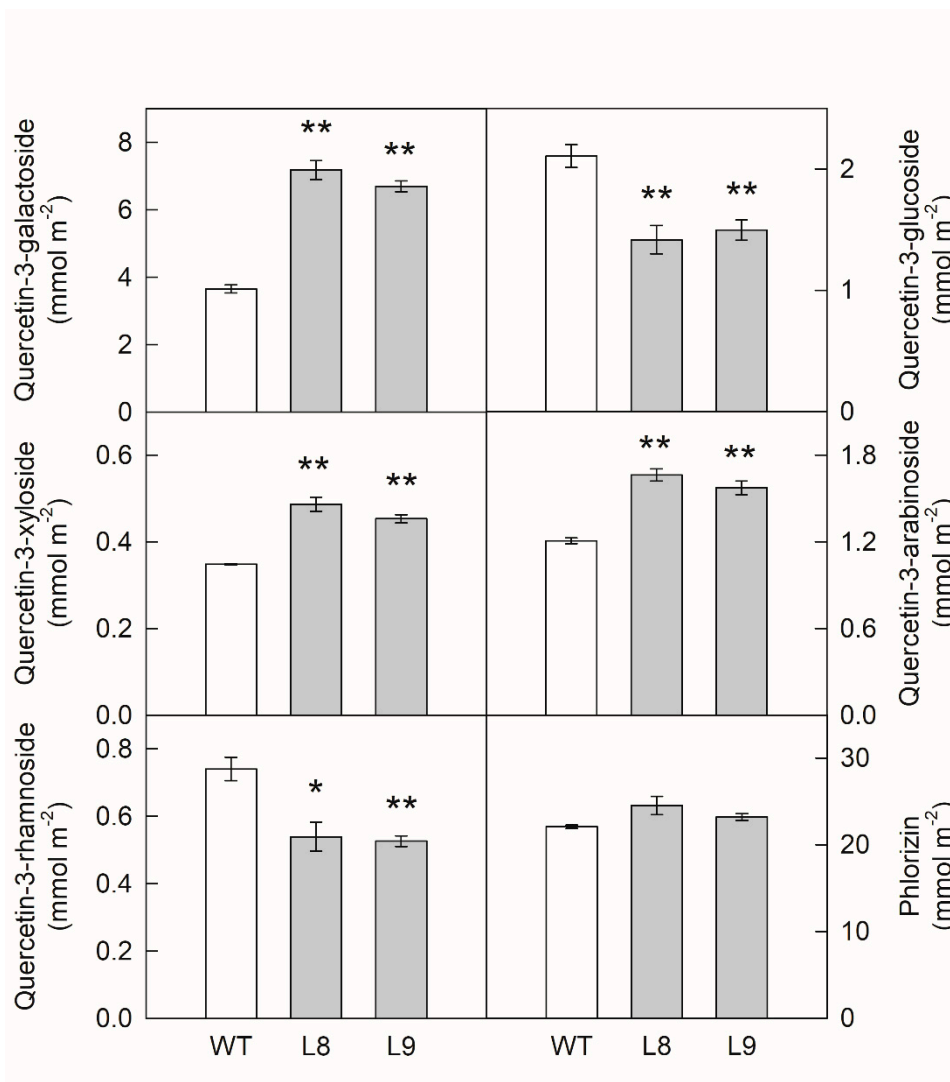


Figure S2 The contents of flavonol compounds and phlorizin in leaves of ‘Galaxy Gala’ (WT) and its transgenic lines (L8, L9) with *MdMYB10* overexpression.

Data are means \pm SE (n = 5). The “*” or “**” indicates a significant difference at $P < 0.05$ or $P < 0.01$, respectively, *t*-test.

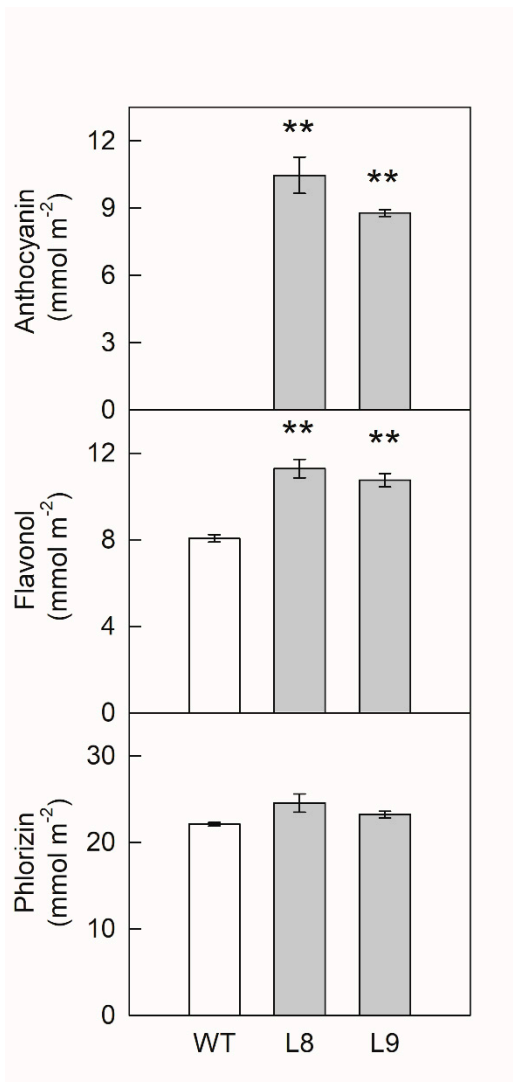
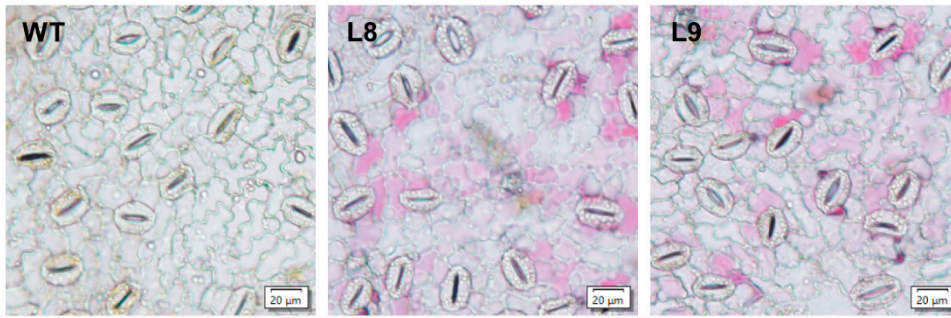


Figure S3 Flavonoid content in the bark of young branches of ‘Galaxy Gala’ (WT) and its transgenic lines (L8, L9) with *MdMYB10* overexpression.

Data are means \pm SE (n = 5). For the statistical analysis, “**” indicates a significant difference at $P < 0.01$, *t*-test.

A



B

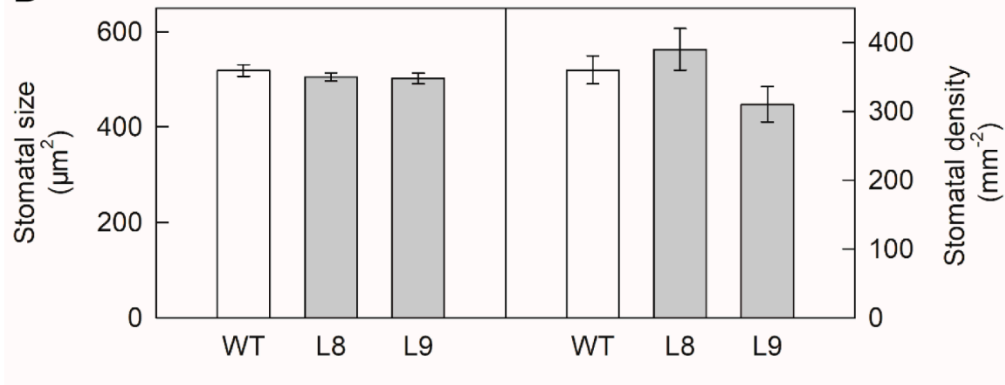


Figure S4 Stomatal phenotypes (A), size, and density (B) in leaves of ‘Galaxy Gala’ (WT) and its transgenic lines (L8, L9) with overexpression of *MdMYB10*. Five biological replicates were performed for each point.

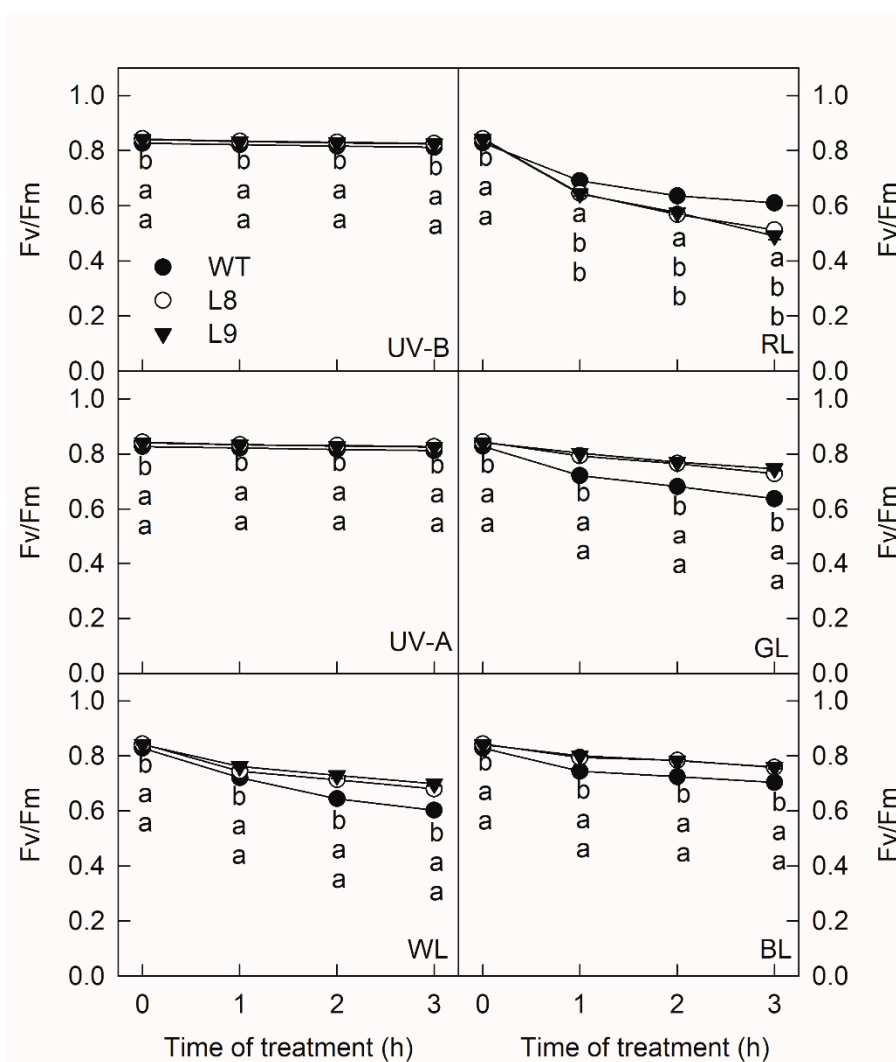


Figure S5 Relative changes in the maximum quantum yield of PSII (Fv/Fm) in leaves of ‘Galaxy Gala’ (WT) and its transgenic lines (L8, L9) with *MdMYB10* overexpression after different treatments under laboratory conditions.

WL, white light, RL, red light; GL, green light; BL, blue light. Data are means \pm SE (n = 5). Different small letters below the symbols indicate a significant difference among genotypes at P < 0.01, LSD.