

Supplementary Figure S3. Effects of *RhARF8* overexpression and IAA co-treatment on the relative e xpression of

anthocyanin biosynthesis-related genes in rose petals.

The relative expression levels of key anthocyanin biosynthesis-related genes, including RhCHSa, RhCHSc, RhCHI, RhF3H, RhF3'H, RhDFR, RhANS, RhGT1, and RhUF3GT, were analyzed under four treatments: Mock (empty vector control), ARF8 overexpression alone, IAA treatment alone (50 μ M IAA), and RhAR F8 overexpression combined with IAA treatment. Gene expression was normalized to the internal reference gene, and data are presented as mean \pm SE (n = 3). Different letters above the bars indicate significant differences among treatments (P < 0.05, one-way ANOVA with Tukey's test).