

Supplemental Figure 1. Identification of transgenic materials.

(A-B) qRT-PCR analysis for the expression of MdTCP46 in transgenic apple fruits. pIR, IL60-1 + IL60-2; MdTCP46-pIR, IL60-1 + MdTCP46-IL60-2; TRV, TRV1 + TRV2; MdTCP46-TRV, TRV1 + MdTCP46-TRV2. The value of pIR or TRV was set to 1. Error bars denote standard deviations. Asterisks indicate statistical significance based on t-test. *, P < 0.05; **, P < 0.01. (C) qRT-PCR analysis for the expression of MdTCP46 in transgenic apple callus. WT, wild-type apple callus; MdTCP46, MdTCP46-overexpressing apple callus; asMdTCP46, apple callus with suppression of MdTCP46. The anthocyanin content in WT was set to 1. (D) qRT-PCR analysis for the expression of MdRGL2a in transgenic apple callus. WT, wild-type apple callus; MdRGL2a, MdRGL2a-overexpressing apple callus; asMdRGL2a, apple callus with suppression of MdRGL2a. The anthocyanin content in WT was set to 1. Error bars denote standard deviations. Different lowercase letters indicate significant difference at P < 0.05 based on one-way ANOVA test.