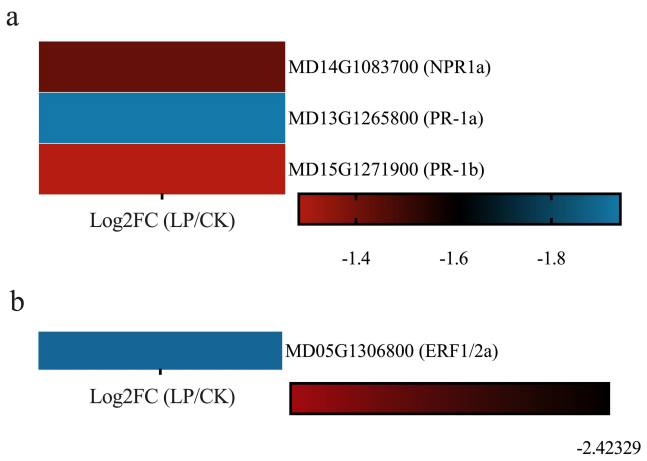


**Fig. S2.** Transcriptomic analysis of K2 apple rootstock stem cuttings on the 3rd day of adventitious root (AR) formation under low-phosphorus (LP, 0.08 g/L; total P 0.12 g/L) treatment compared with the control (CK, basal P level of standard MS medium, 0.04 g/L). Selected differentially expressed genes (DEGs) from RNA-seq data (at 3 d, which is crucial for the initiation of molecular reprogramming required for AR formation) related to (a) salicylic acid and (b) ethylene were analyzed across the pairwise comparison of CK_vs_LP. The heatmap displays the log2FC values for genes involved in salicylic acid and ethylene metabolism and signaling pathways. The color gradient represents the gene expression levels.