



**Fig. S3.** 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). Differentially expressed genes (DEGs) related to hormone signaling pathways were mapped to the KEGG plant hormone signal transduction pathway. Upregulated genes are shown in red, downregulated genes in green, genes showing both up- and downregulation in blue, and pathways with no DEGs detected are left uncolored.