



**Fig. S1.** 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). (a) Gene expression levels of the samples (CK and LP) displayed in a boxplot for comparison. (b) Density distribution curves, where the height of each curve indicates the density of gene expression in each sample. (c) Principal Component Analysis (PCA) showing the clustering of gene expression profiles across the samples (c).