



**Figure S1.** Expression profiles of the 23 *GuCPK* genes in *Glycyrrhiza uralensis* roots under CaCl<sub>2</sub> and NaCl stimulations. The heatmap of the 23 *GuCPKs* at 0, 3, 6, 12 and 24 h treatment of the mixture of 2.5 mM CaCl<sub>2</sub> and 30 mM NaCl was performed by R package based on the qRT-PCR data. Each value indicates the mean of the expression levels of three independent replicates. Genes that highly or weakly expressed in different treated materials were colored by red or green, respectively. The color bar was showed at the upper apex.