**Supplemental Figure Captions**

**Supplemental Fig.1** The Directed Acyclic Graph of GO enrichment terms. The DAG is a graphical presentation of DEP GO enrichment results. (A) The detailed GO terms of biological process. (B) The detailed GO terms of molecular function. (C) The detailed GO terms of cellular component. Each node stands for a GO term. The depth of the color stands for the level of enrichment, and the darker the color indicates the higher the concentration of enrichment. The name of the term and the adjusted P value of enrichment analysis were shown on each node