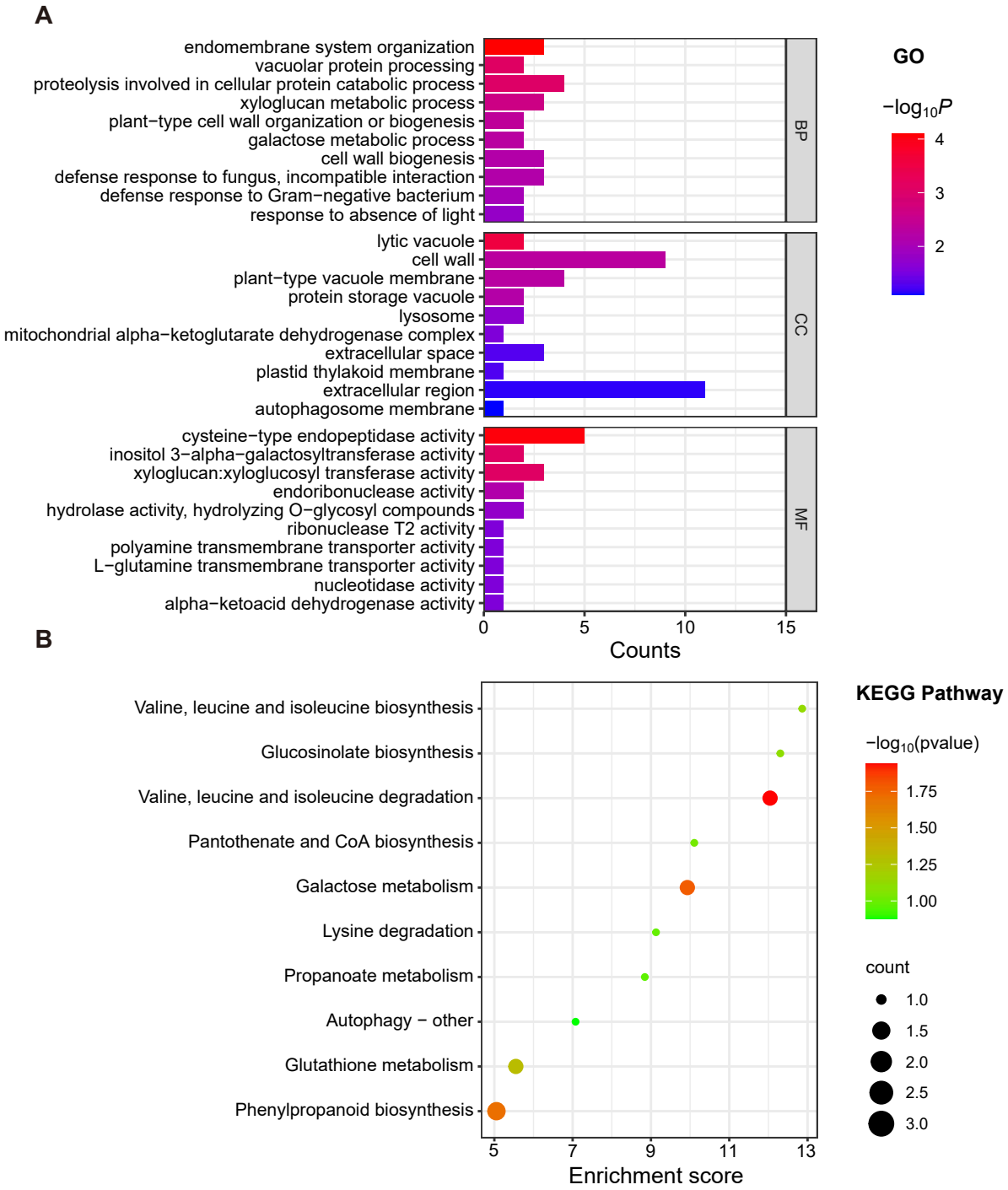



**Figure S4 Genes which were up-regulated in *lon1-2* but downregulated in *atg5-1* are slightly enriched with ER and lytic vacuole processes.**

**(A)** A total of 37 genes were upregulated in *lon1-2* but downregulated in *atg5-1*, and were subjected to Enrichment of Gene Ontology (GO) analysis. The horizontal bars represent the counts for Biological Processes (BP), Cell Compartments (CC) and Molecular Functions (MF), while the blue-red color bar indicates the range of Log-transformed P values. (B) KEGG pathway enrichment analysis of down-regulated genes in all three mutants. The size of the bubbles corresponds to the number of genes involved, while the green-red color bar indicates the range of Log-transformed P values.