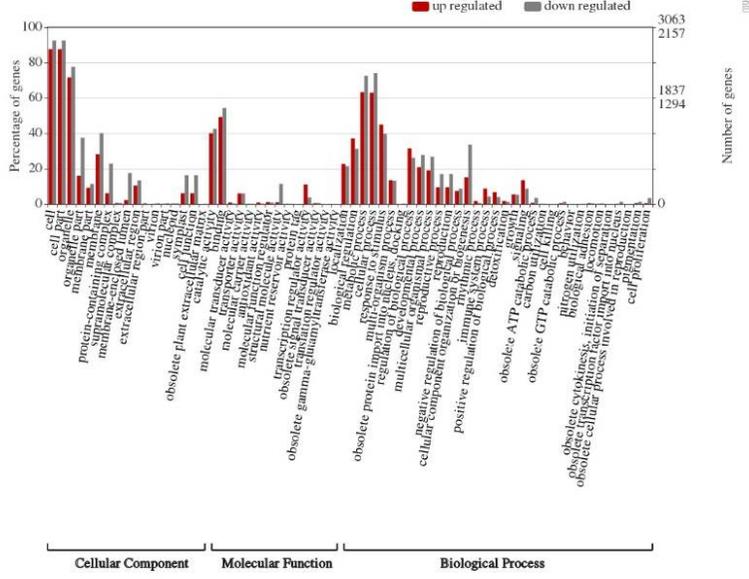
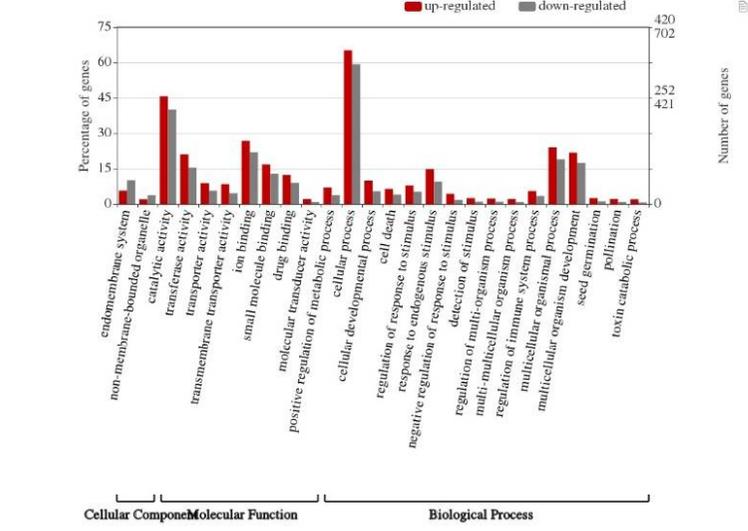


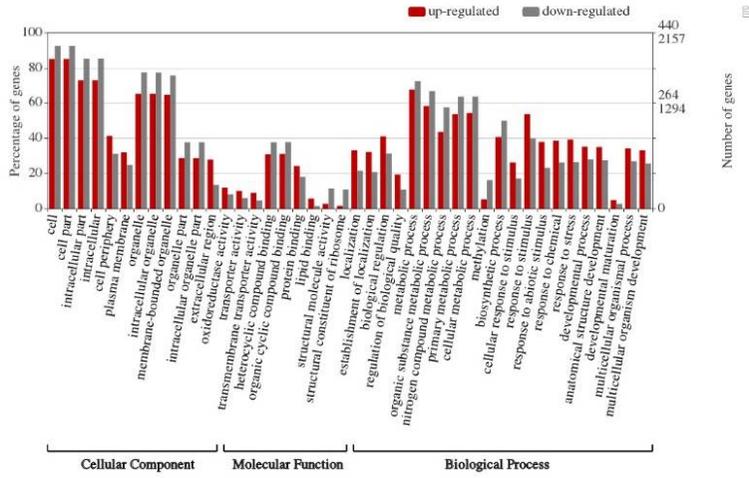
a



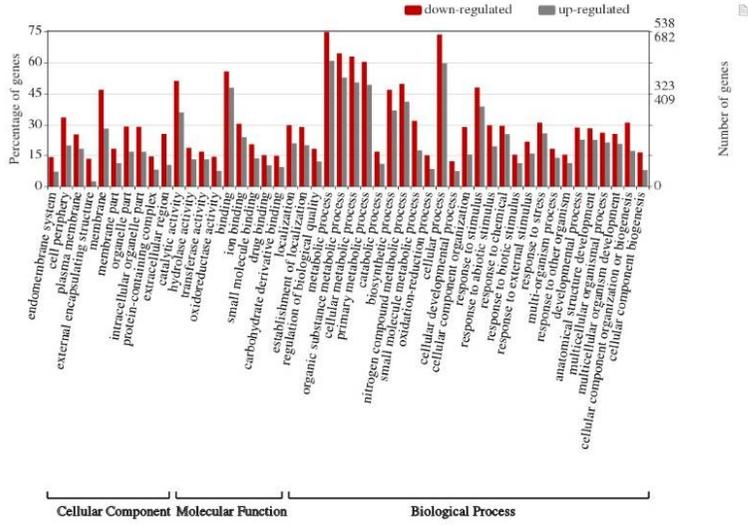
b



c



d



2 **Supplementary Figure S1 Functional annotation of all of the overdominant DEGs in the root of F₁ hybrids based on GO classification.** GO term classification
3 for DEGs was performed by WEGO software. (a) The FO hybrid at 21 days after sowing. (b) the FV hybrid at 21 days after sowing. (c) The FO hybrid at 24 days after
4 sowing. (d) The FV hybrid at 24 days after sowing. The obtained results are summarized under three top-level ontologies: biological process, molecular function,
5 and cellular component. The left y-axis indicates the percentage of a specific GO category in that main category. The right y-axis indicates the annotated gene number
6 expressed in a given sub-category. The down-regulated DEGs are represented by grey, and the up-regulated DEGs are represented by red.