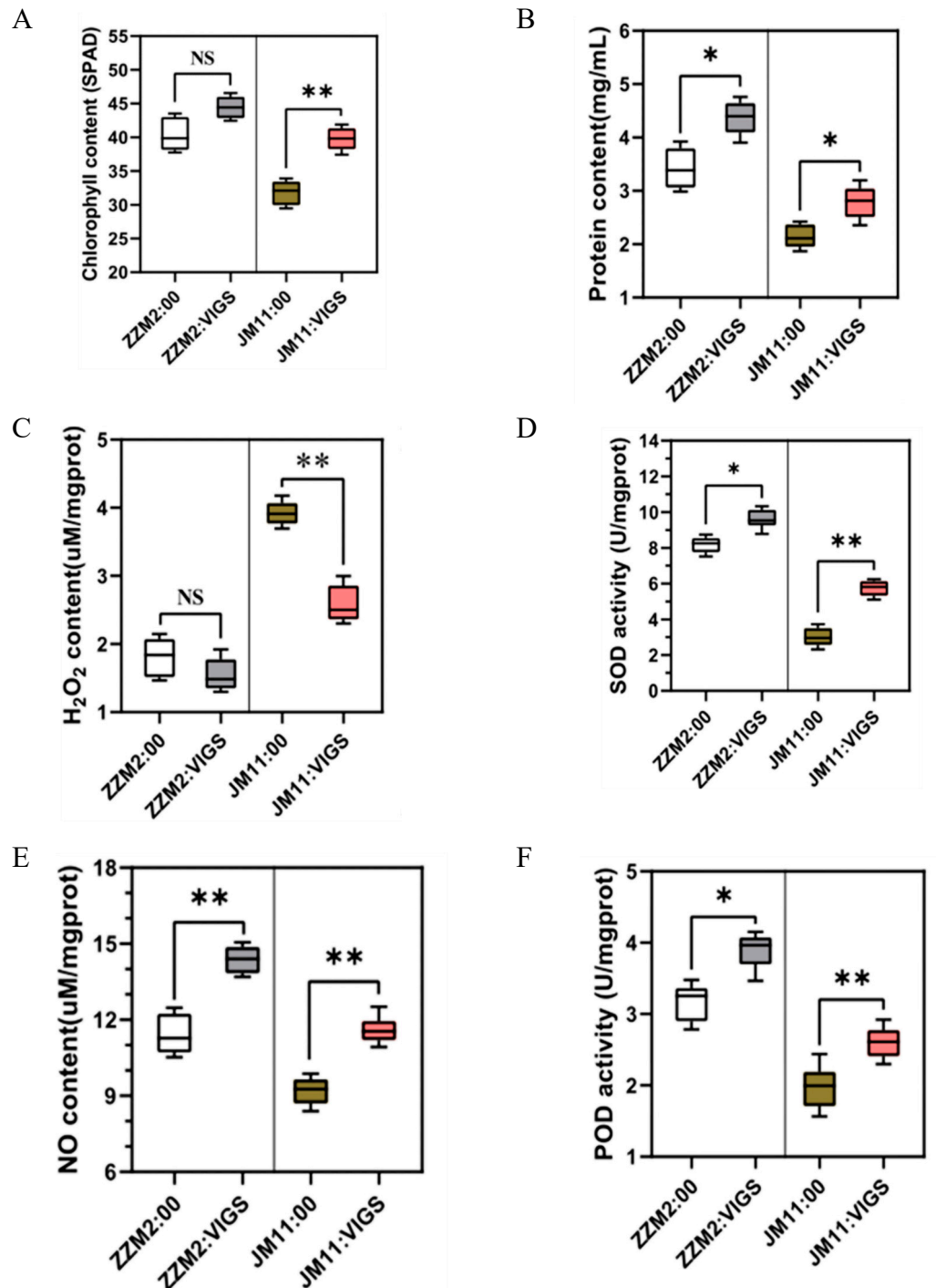
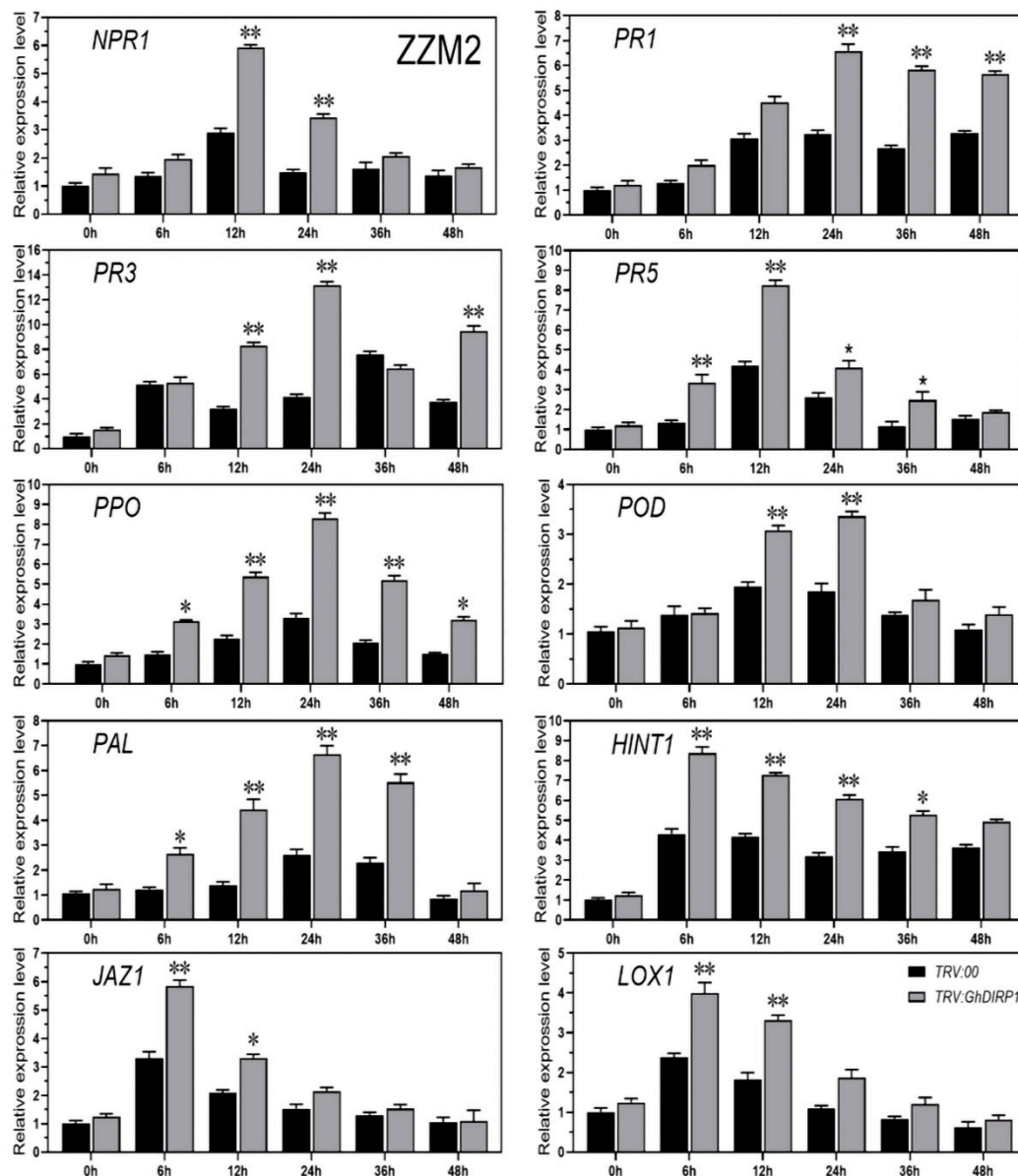


Supplementary Figure S1. Determination of ROS-related enzymes. (A) Chlorophyll content. (B) Protein content. (C) H₂O₂ content. (D) SOD content. (E) NO content. (F) POD content. ns: no statistical difference; * and **: statistical difference at $p < 0.05$ and $p < 0.01$, respectively.

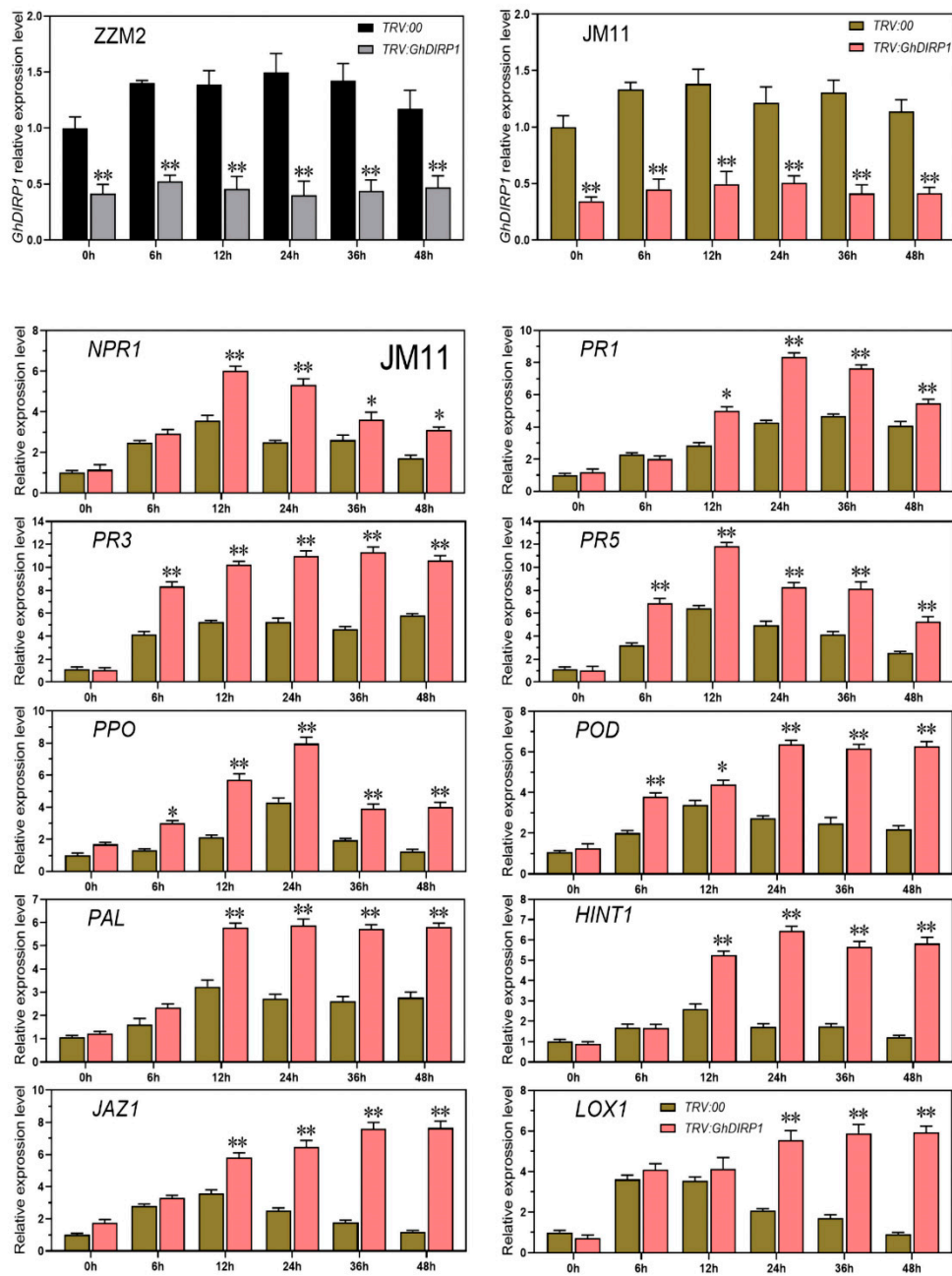


Supplementary Figure S2. Analysis of disease resistance-related genes by qRT-PCR in *GhDIRP1*-silenced and -unsilenced ZYM2 and JM11 plants upon *Verticillium dahliae* infection. (A) Changes of disease resistance-related genes in *GhDIRP1*-silenced and -unsilenced ZYM2 plants. (B) Changes of disease resistance-related genes in *GhDIRP1*-silenced and -unsilenced JM11 plants. ns: no statistical difference; * and **: statistical difference at $p < 0.05$ and $p < 0.01$, respectively.

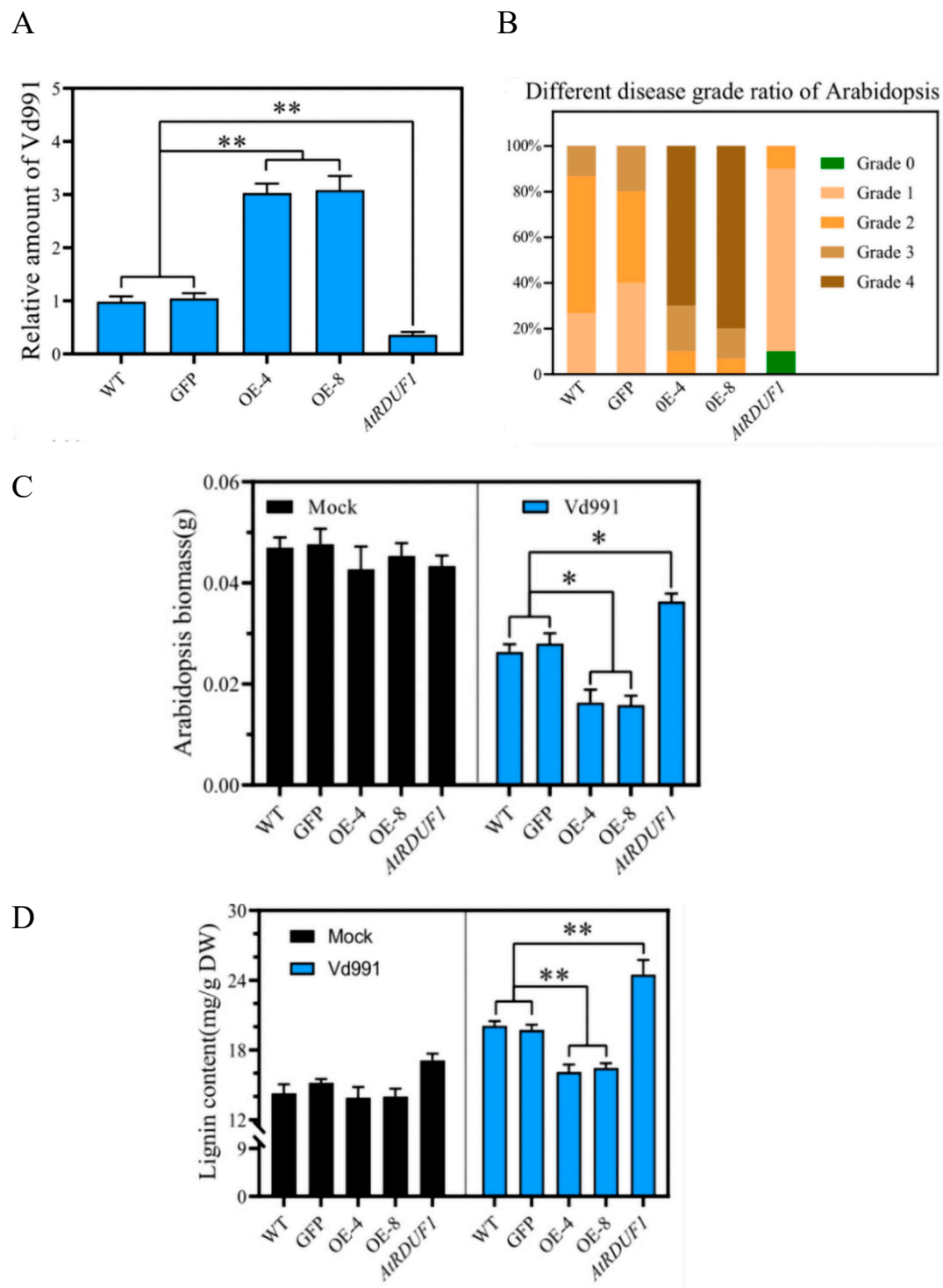
A



B

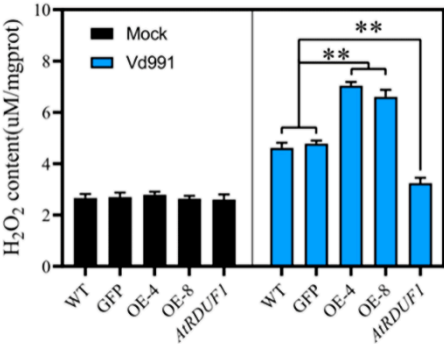


Supplementary Figure S3. Comparison of the pathogen content, the level of disease, biomass, and lignin content in transgenic Arabidopsis plants after *Verticillium dahliae* infection. (A) The pathogen content in roots. (B) Disease index. (C) Comparison of biomass between the mock and *Verticillium dahliae* infected plants. (D) Comparison of lignin content between the mock and *Verticillium dahliae* infected plants. ns: no statistical difference; * and **: statistical difference at $p < 0.05$ and $p < 0.01$, respectively.

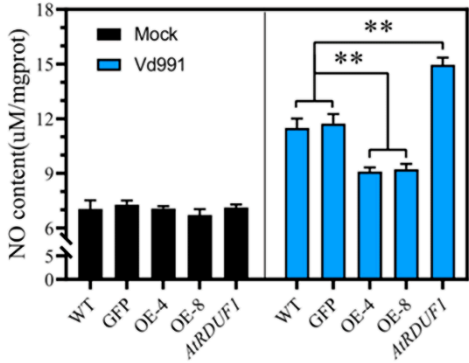


Supplementary Figure S4. Determination of ROS-related enzyme activities in transgenic Arabidopsis. (A) H₂O₂ content. (B) NO content. (C) POD content. (D) SOD content. ** indicates statistical difference at p<0.01.

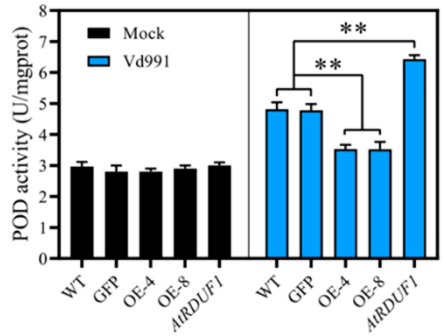
A



B



C



D

