

Supplementary Materials

Supplementary Figures

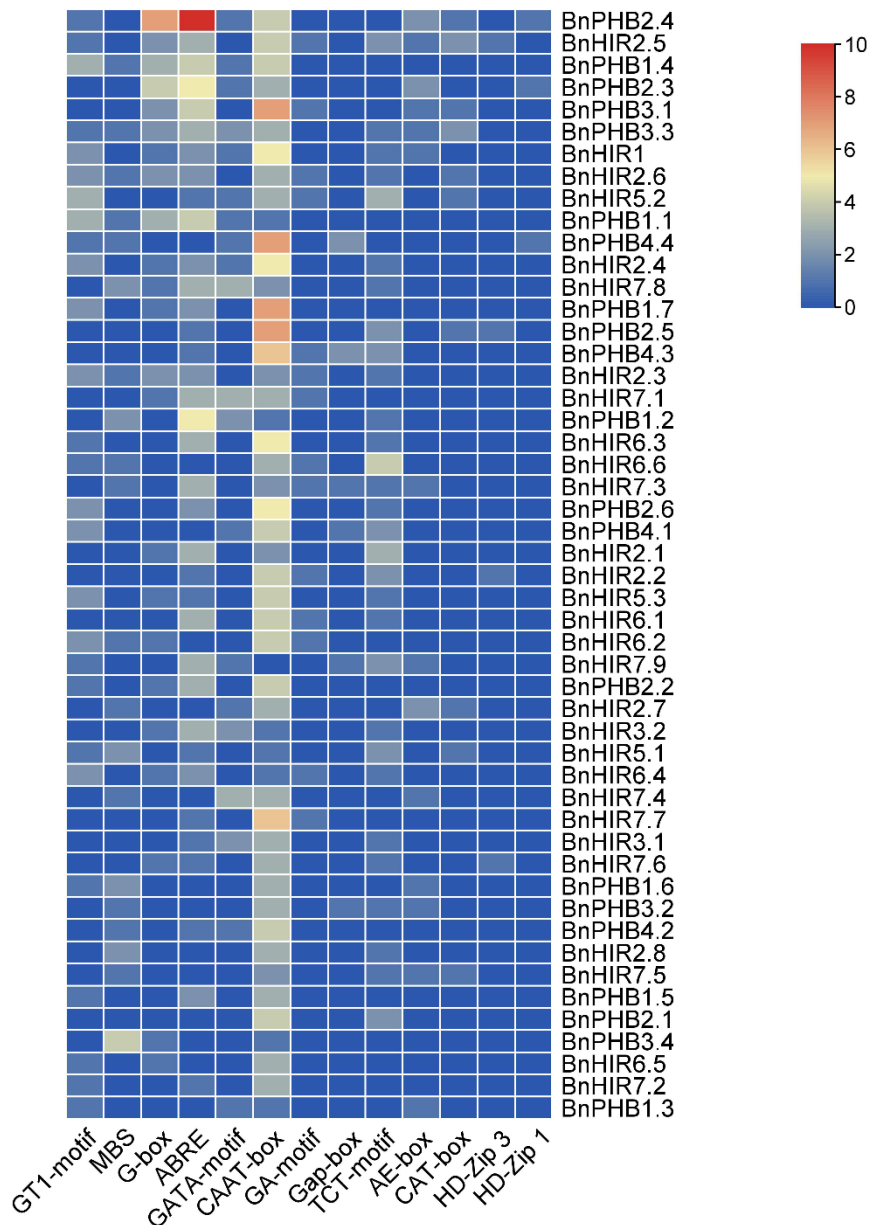


Figure S1. Statistics of *cis*-acting elements in the *BnHIR* promoter region. The distribution of *cis*-acting elements of different genes is shown in the figure. *Cis*-acting elements in promoter regions were predicted using PlantCARE (<http://bioinformatics.psb.ugent.be/webtools/plantcare/html/>) and plotted by TBtools.

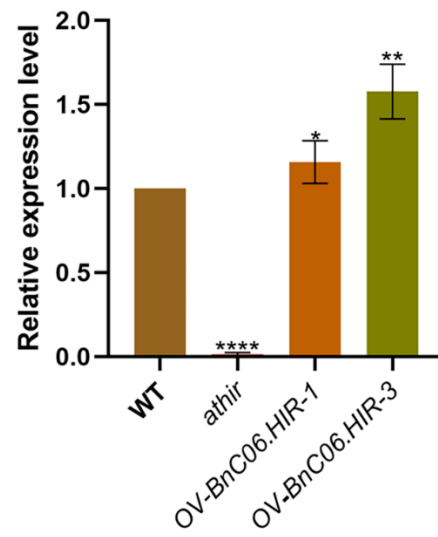


Figure S2. Relative expression level of *Arabidopsis* transgenic lines. Relative expression levels of wild type, *Athir2.7-Mu* mutant line, *OV-BnHIR2.7-1* and *OV-BnHIR2.7-3* lines.

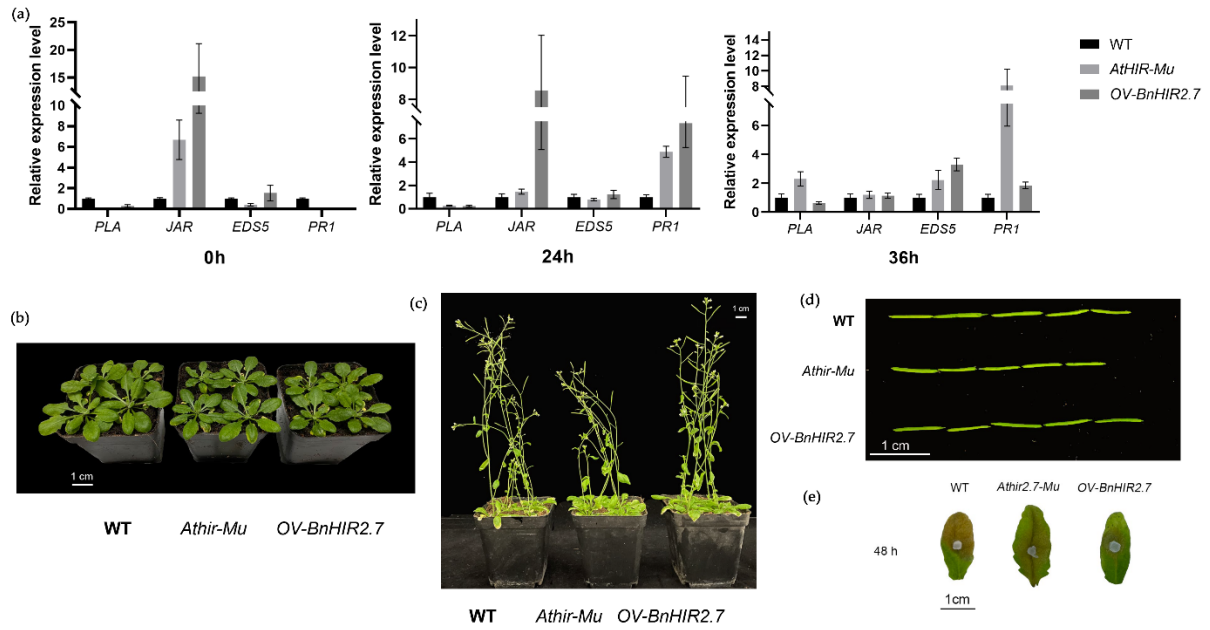


Figure S3. Phenotype comparison of wild type, Athir2.7-Mu, and OV-BnHIR2.7 lines. (a) The expression levels of SA and JA pathway marker genes in each time period after *S. sclerotiorum* inoculation. (b) *Arabidopsis* at the seedling stage. (c) Flowering time and plant height 40 d after germination. (d) Length of silique from the middle main inflorescence 20 d after flowering. (e) Leaves of *Arabidopsis* 48 hours after inoculation with *S. sclerotiorum*.

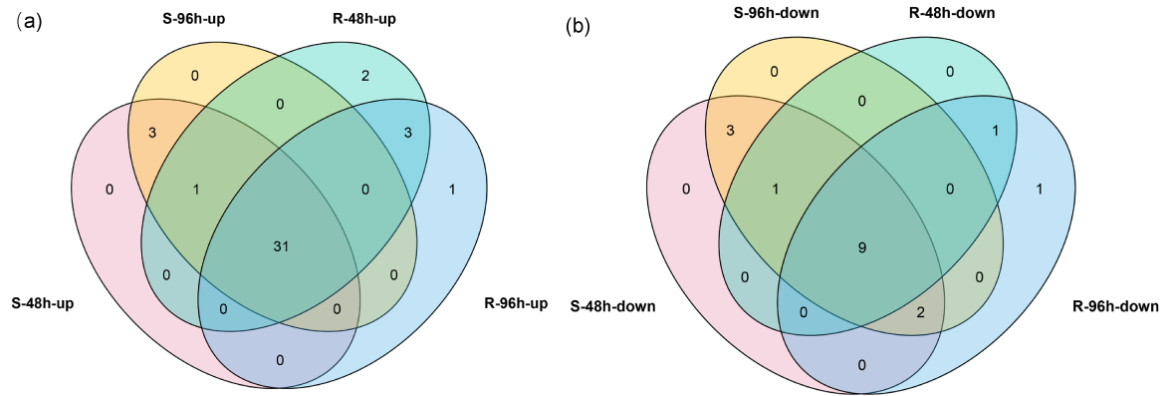


Figure S4. Venn diagram of changes in *HIR* gene expression after inoculation of *Sclerotinia sclerotiorum* (a) Venn diagram of up-regulated *HIR* genes. (b) Venn diagram of down-regulated *HIR* genes. Changes in gene expression were calculated according to the control group of the material, and the figure was plotted using TBtools.

Table S1. Primers used in this study

Primer name	Sequences
OV-BnHIR2.7-F	5'-ATGGGTCAAGTTTTAGGATGTGTCC-3'
OV-BnHIR2.7-R	5'-TCAGGGAAACGCTGCTGCTGAGTAA-3'
F35S3ND	5'-GGAAGTTCATTTTCATTTGGAGAG-3'
OCS5ND	5'-CGATCATAGGCGTCTCGCATATCTC-3'
Athir2.7-LP	5'-AAGAAAATTTTGTTCAGAAAAAGAG-3'
Athir2.7-RP	5'-ATACAACCCAAAGCTTGACCC-3'
LBb1.3	5'-ATTTTGCCGATTTCGGAAC-3'
M13F	5'-TGTAACACGACGGCCAGT-3'
M13R	5'-CAGGAAACAGCTATGACC-3'
AtHIR2.7-qPCR-F	5'-ACTTTTGGGAAATTCGACGAAG-3'
AtHIR2.7-qPCR-R	5'-GAACACGTAAAGAAAGGTGACC-3'
BnHIR2.7-qPCR-F	5'-AGGCTATGTTCGCATTACGGG-3'
BnHIR2.7-qPCR-R	5'-CTTGTCTCTGGCGGGCAATA-3'
Athir2.7-qPCR-F	5'- ACTTTTGGGAAATTCGACGAAG-3'
Athir2.7-qPCR-R	5'-GAACACGTAAAGAAAGGTGACC-3'
AtPR1-qPCR-F	5'-TGGTCACTACACTCAAGTTGTT-3'
AtPR1-qPCR-R	5'-GCTTCTCGTTCACATAATTCCC-3'
AtEDS5-qPCR-F	5'-TAATCTTCCCAAGGCTAGAACG-3'
AtEDS5-Qpcr-R	5'-CGCCATGAAGAAAGGTATAAGC-3'
Actin7-F	5'-TGGGTTTGCTGGTGACGAT-3'
Actin7-R	5'-TGCCTAGGACGACCAACAATACT-3'