

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Annotated genes within the genetic interval between markers of wsnp Ex c2258_4232538 and Xcau.3D-4.

File Name: Supplementary Data 2

Description: Candidates of TaSG-D1-interacting protein from Y2H screening.

File Name: Supplementary Data 3

Description: Down-regulated genes in Tapif4 knockout lines compared with WT at 0 h, 3 h and 6 h after heat stress, respectively.

File Name: Supplementary Data 4

Description: LC-MS/MS results of TaPIF4 phosphorylation sites analysis.

File Name: Supplementary Data 5

Description: Passport information and haplotype of 331 hexaploid wheat accessions in this study.

File Name: Supplementary Data 6

Description: Primers used in this study.