

Supplementary data

Supplementary Table S1: Predicted His-kinase proteins in soybean

Supplementary Table S2: His-containing phosphotransfer (HPt) proteins in soybean

Supplementary Table S3: Response regulator proteins in soybean

Supplementary Figure S1: cDNAs, protein sequences and promoter regions of soybean TCS members: Comparative amino acid sequence alignment of His-kinase proteins from *Arabidopsis*, rice and soybean.

Supplementary Figure S2: Heat map representation for the amino acid sequence identity of His-kinase proteins from *Arabidopsis*, rice and soybean. Elevated identity levels are indicated by increasing intensities of green color.

Supplementary Figure S3: Comparative amino acid sequence alignment of phosphotransfer (HPt) proteins from *Arabidopsis*, rice and soybean.

Supplementary Figure S4: Heat map representation for the amino acid sequence identity of phosphotransfer (HPt) proteins from *Arabidopsis*, rice and soybean. Elevated identity levels are indicated by increasing intensities of green color.

Supplementary Figure S5: Amino acid sequence alignment of response regulator proteins from *Arabidopsis*, rice and soybean.

Supplementary Figure S6: Heat map representation for the amino acid sequence identity of response regulator proteins from *Arabidopsis*, rice and soybean. Elevated identity levels are indicated by increasing intensities of green color.

Supplementary Dataset 1: cDNAs, protein sequences and promoter regions of soybean TCS members