

Description of additional supplementary Data

Supplementary Data

Supplementary Data 1. Haplotype analysis of the candidate genes at the *qSCN10* locus.

Supplementary Data 2. Haplotype analysis of *GmTGA1*, *GmSCT1*, and *GmLRR1* promoters.

Supplementary Data 3. *cis-elements* analysis of the TGA (Glyma.10g194800) promoter (~2Kb).

Supplementary Data 4. *cis-elements* analysis of the SCT (Glyma.10g196400) promoter (~2Kb).

Supplementary Data 5. *cis-elements* analysis of the LRR (Glyma.10g195700) promoter (~2Kb).

Supplementary Data 6. Common *GmTGA1*, *GmSCT1*, and *GmLRR1* *cis-elements*.

Supplementary Data 7. *Rhg4* and *rhg1* promoter and gene haplotype clustering and copy number variations.

Supplementary Data 8. Overexpression of the *GmTGA1-10* & *GmSCT-10* genes.

Supplementary Data 9. SCN screening of TILLING mutants.