# Supplemental Materials

## Growth and Molecular Responses of Tomato to Prolonged and Short-Term Heat Exposure

**Table S1.** Genes and primer sequences used for quantitative real-time PCR analysis. Reference genes *ACT* and *EFI-α* were used as internal controls for normalization. Genes *DREB1*, *HSFA3*, *HSFB1*, *NAC4* and *NAC6* and appropriate primers were selected based on literature data (last column) and adapted for quantitative PCR analysis.

| Gene | Primer | Sequence 5' - 3' | Reference |
|---|---|---|---|
| ***DREB1*** **Solyc06g050520** | qS-DREB1-Fw | CCTAAAAGAGGTAGTAGGTTATG | [77] |
| | qS-DREB1-Rev | TGCACAAGGACCATACATAGC | |
| ***HSFA3*** **Solyc09g009100** | qS-HSFA3-Fw | GACAGAAGCAGATGGTTTCATTC | [51] |
| | qS-HSFA3-Rev | ATTTCCTCATTGTTCTTGGACTAG | |
| ***HSFB1*** **Solyc02g090820** | qS-HSFB1-Fw | GATGACATAGGTTCAAGTTCTAC | [51] |
| | qS-HSFB1-Rev | TTCTCATTCTCATCCGACAAGTC | |
| ***NAC4*** **Solyc11g017470** | qS-NAC4-Fw | CGTCTTATCACGTTTACAATGAC | [48] |
| | qS-NAC4-Rev | TTCGGCTTCGGCTCACTCT | |
| ***NAC6*** **Solyc10g055760** | qS-NAC6-Fw | AAGCACGTACACAGCTCTCCT | [49] |
| | qS-NAC6-Rev | TAACCTATCATCATCTACTTCATCC | |
| ***EFI-α*** **Solyc06g005060** | qS-EFIα-Fw | TACTGGTGGTTTTGAAGCTGG | [76] |
| | qS-EFIα-Rev | AACTTCCTTCACGATTTCATCATAC | |
| ***ACT*** **Solyc11g005330** | qS-ACT-Fw | TGTCCCTATTTACGAGGGTTATG | [75] |
| | qS-ACT-Rev | CAGTTAAATCACGACCAGCAAGA | |

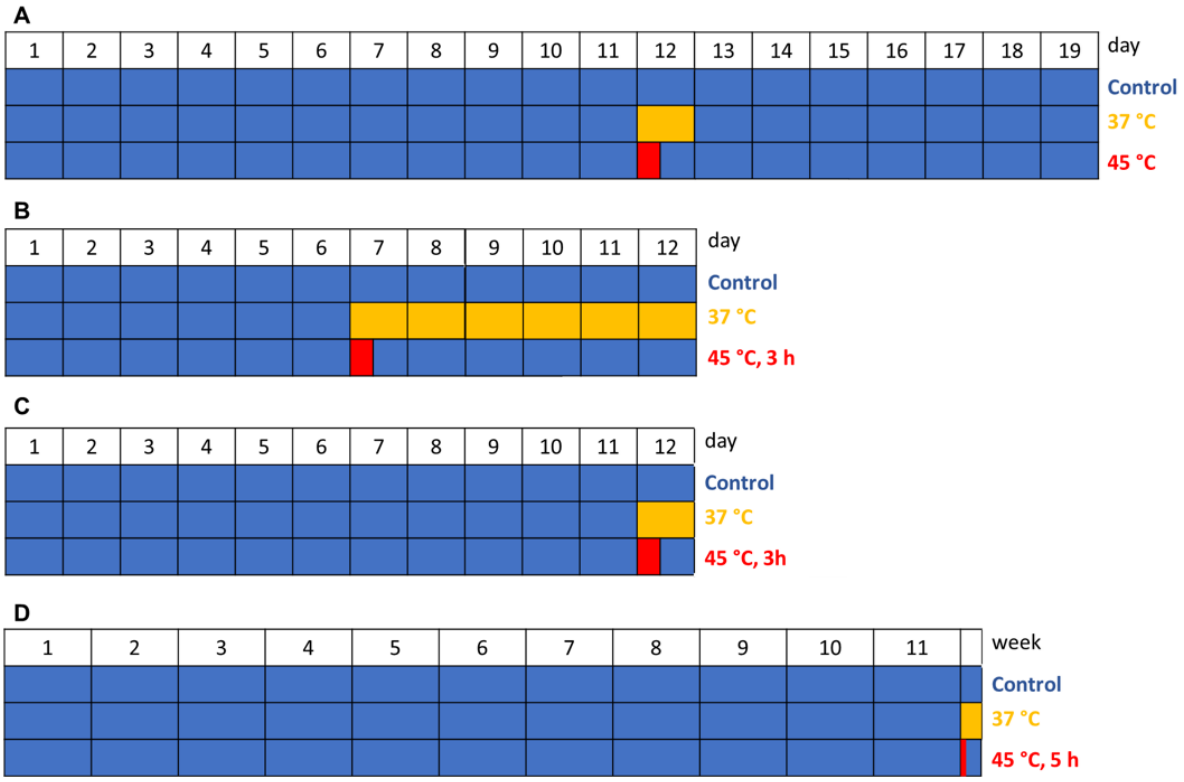



**Figure S1. Heat stress treatments of seedlings (A–C) and adult plants (D).** Twelve-day old seedlings were exposed to 37 °C for 24 h or to 45 °C for 1, 3, 6 or 12 h and further cultured for 7 days at control conditions (24 °C) when seedling survival rate was determined (A). Seven-day old seedlings were cultured either at 37 °C for 5 days, or exposed to 45 °C for 3 h and further cultured in control conditions at 24 °C (B). Twelve-day old seedlings were exposed to 37 °C for 24 h or to 45 °C for 3 h and further cultured in control conditions at 24 °C (C). Eleven-week old adult plants were exposed to 37 °C for 24 h or to 45 °C for 5 h and further cultured in control conditions at 24 °C (D).