

Flowering retardation by high temperature in chrysanthemums: involvement of *FLOWERING LOCUS T-like 3* gene repression. Yoshihiro Nakano, Yohei Higuchi, Katsuhiko Sumitomo, Tamotsu Hisamatsu

SUPPLEMENTARY DATA

Figure S1. Representative *C. seticuspe* exposed to 30 °C for 1 week at different growth stages. Plants were grown at 20 °C with a 10-h photoperiod and transferred to 30 °C at the first, second, third, fourth or fifth week. The plants were photographed after 50 SDs.



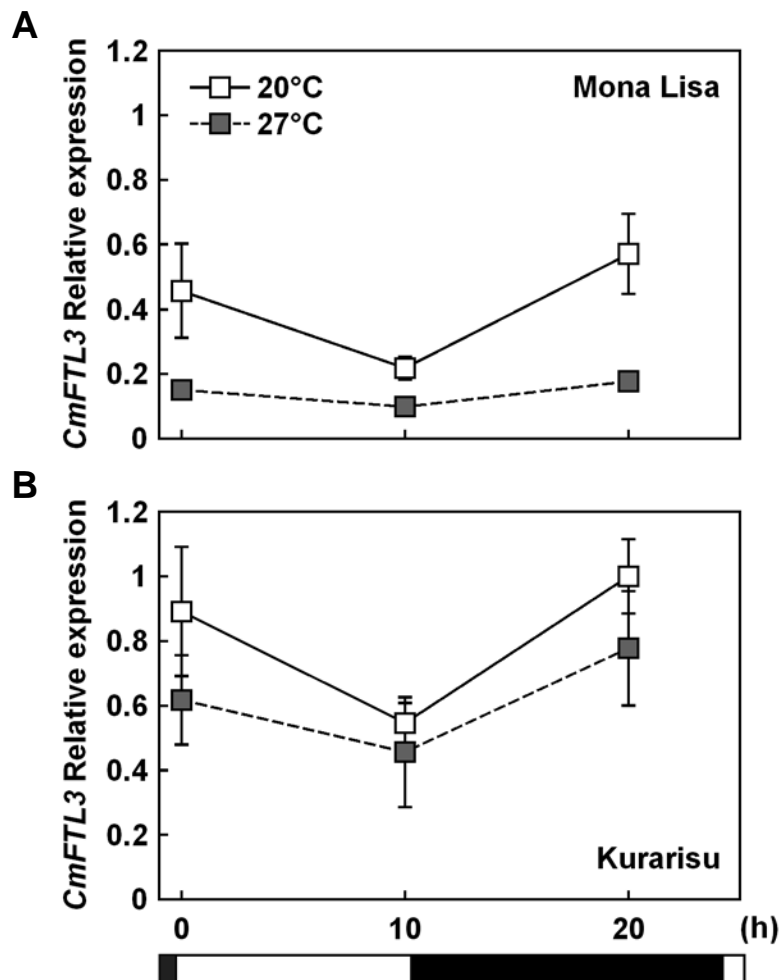


Fig. S2. Expression analysis of *CmFTL3* in the leaves of *C. morifolium* 'Mona Lisa' (A) and 'Kurarisu' (B) by using qRT-PCR in grafting experiment. Grafted plants were grown at 20 °C or 27 °C with a 10-h photoperiod. The leaves were harvested from the stock after 3 weeks. Open and closed horizontal bars represent light and dark periods, respectively. *CmACT* was used as an internal standard. Values are means \pm SE ($n = 3$).

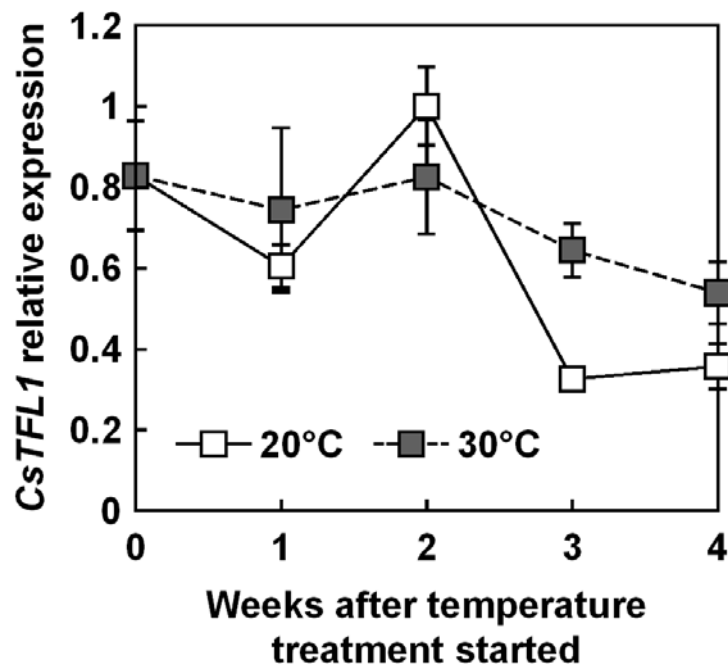


Fig. S3. Expression analysis of *CsTFL1* in the shoot tip of *C. seticuspe* by using qRT-PCR. Shoot tips (3 mm) were harvested every 1 week from plants grown at 20 °C or 30 °C with a 10-h photoperiod. *CsEF1 α* was used as an internal standard. Values are means \pm SE (n = 3).

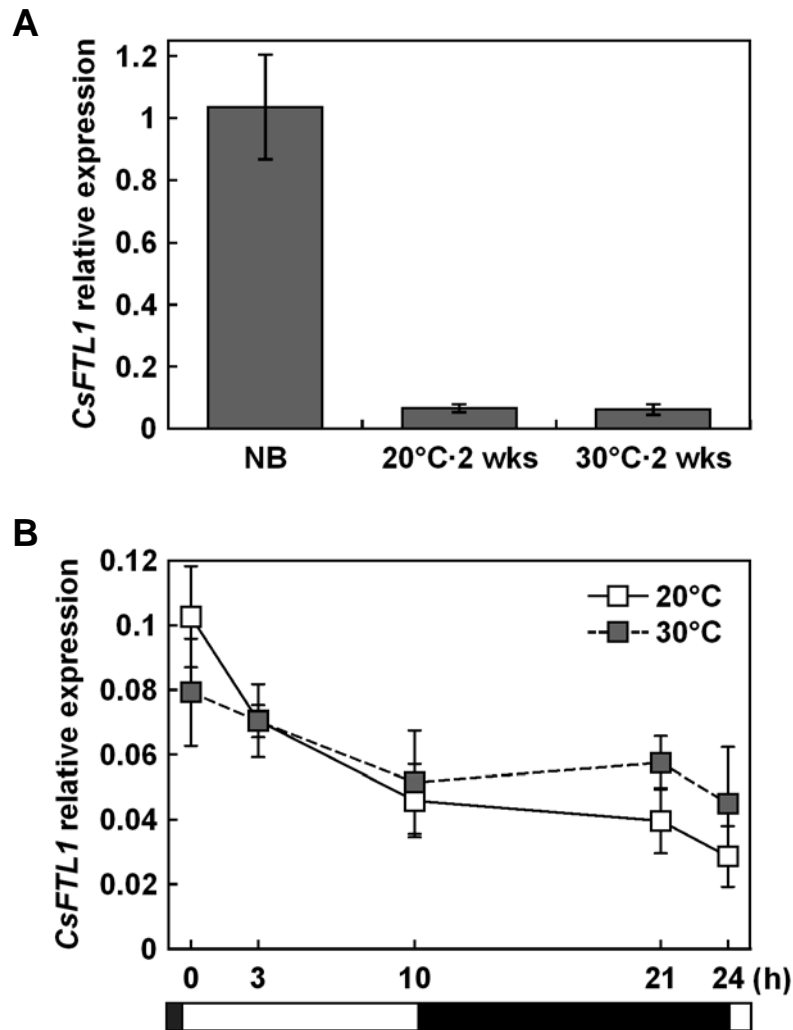


Fig. S4. Expression analysis of *CsFTL1* in the leaves of *C. seticuspe* by using qRT-PCR. Plants were grown at 20 °C or 30 °C with a 10 h-photoperiod. The leaves were harvested after 2 weeks. (A) Comparison with NB condition at light on. (B) Diurnal expression changes at 20 °C and 30 °C. Open and closed horizontal bars represent light and dark periods, respectively. *CsACT* was used as an internal standard. Values are means \pm SE (n = 3).

Table S1. Primer sequences used in this study

| Target | Accession no. | Forward primer | Reverse primer |
|---------------|---------------|--------------------------|---------------------------|
| <i>CsFTL3</i> | AB679272 | GAAGGCGTAACAAATAAAAATAGC | CAAGTCTTACAATTTGGTACTGTCC |
| <i>CmFTL3</i> | AB545937 | | |
| <i>CsACT</i> | XXXXXXXXX | CAGGATGAGCAAGGAAATCACC | AGGTGCTGAGTGATGCAAGGAT |
| <i>CmACT</i> | XXXXXXXXX | | |
| <i>CsM8</i> | XXXXXXXXX | TATCATGCCCCCATGGATGG | CCATTTACATCCATGGTCC |
| <i>CsM19</i> | XXXXXXXXX | CATGCAATTGCTACTGGAGC | ATGAACAAGGATAACGAGCC |
| <i>CsM37</i> | XXXXXXXXX | GGTCGAAACTATCTTCAGTCG | CCAAGAAACCTTAAGTCCTTC |
| <i>CsM41</i> | XXXXXXXXX | CTCGAGCTCATCATGTCTCC | GGTCTTACGTGTATATGATGC |
| <i>CsM44</i> | XXXXXXXXX | CCATCGGATTCATTAACGGC | TTACTGCAACTTGGCCCTGC |
| <i>CsM86</i> | XXXXXXXXX | GATTACCAAGCTCATGAACC | ATTACAAACCTTGGGCAACG |
| <i>CsTFL1</i> | XXXXXXXXX | GCAGCCAGAAGACGTTAACC | GAAGATCCTCACAATTAGGCC |
| <i>CsFTL1</i> | AB679270 | CATATTGAAAGCACGCACACAT | ACACGGGTTGGCTGTAGCATT |