

Table S1.Cis-acting elements analysis of *SmTAT1* promoter

| Cis-Elements | Sequence | Number | Functions |
|--------------|----------|--------|--|
| ABRE | ACGTG | 1 | abscisic acid responsiveness element |
| LTR | CCGAAA | 1 | involved in low-temperature responsiveness |
| TATC-box | TATCCCA | 1 | involved in gibberellin-responsiveness |
| G-box | CACGTT | 2 | involved in light responsiveness |
| ABRE | ACGTG | 2 | involved in the abscisic acid responsiveness |
| MBS | CAACTG | 3 | involved in drought-inducibility |

Cis-acting elements analysis of *SmTAT2* promoter

| Cis-Elements | Sequence | Number | Functions |
|--------------|------------|--------|---|
| ABRE | ACGTG | 3 | abscisic acid responsiveness element |
| TGA-element | AACGAC | 1 | involved in auxin-responsive element |
| ARE | AAACCA | 2 | related to the anaerobic induction |
| G-box | CACGTC | 3 | involved in light responsiveness |
| WUN-motif | AAATTTCT | 1 | related to the wound-responsive element |
| circadian | CAAAGATATC | 1 | involved in circadian control |

Cis-acting elements analysis of *SmTAT3* promoter

| Cis-Elements | Sequence | Number | Functions |
|--------------|----------|--------|--------------------------------------|
| ABRE | ACGTG | 4 | abscisic acid responsiveness element |
| TGACG-motif | TGACG | 2 | involved in the MeJA-responsiveness |
| ABRE | ACGTG | 4 | abscisic acid responsiveness element |
| G-box | TACGTG | 2 | involved in light responsiveness |
| MBS | CAACTG | 2 | involved in drought-inducibility |
| P-box | CCTTTTG | 3 | gibberellin-responsive element |