***Supplementary Material***

Molecular and Phylogenetic Analyses of the Mediator subunit genes in Solanum lycopersicum

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**Supplementary Table S1.** Primers for PCR amplification and quantification. All the primers we used were designed by Primer premier 5.0 software.

| Primer names | Sequences (5' →3') |
| --- | --- |
| SLMED3-Q-F | ATGGTATGCGTGAATTTCCGA  |
| SlMED3-Q-RSlMED8-Q-FSlMED8-Q-R | CTCATTTTGATAGTGACTGCCTGTTCAACACCTATCGGTAGCATCCCCCCCTGTCTGGTTCCAAAGTAG |
| SlMED9-Q-F | AAATGCTAAATCAGCGAAGGGA |
| SlMED9-Q-RSlMED11-Q-FSlMED11-Q-R | GACAGGTGATTCAACTCAACTTCTTT TAATCAAGGACATCCAAGTCACACTTAATCAAGGACATCCAAGTCACACT |
| SlMED15a-Q-F | GCCTTTGAGATTGCTCGTTG |
| SlMED15a-Q-R | AAGACTTCGCAGGGAGACACTA |
| SlMED17-Q-F | TTCTCAAACAAAGTCCTCGCAG |
| SlMED17-Q-R | ACATAGTCAGATGAGTGAGACAGGC |
| SlMED18-Q-F | ATATCTTGCACCGCTCCTTCA |
| SlMED18-Q-R | GGGAAGGAGAATGGCGAAATA |
| SlMED19a-Q-F | TGATGGAGAGGAGGAATTTAATGAT |
| SlMED19a-Q-RSlMED21-Q-FSlMED21-Q-R | GGGTGCTTGAGCAAAAAAGTTAGGAGGGGAATAGTTATGGAGATGGTGGTAATGATCGTTTTCCAAGAG |
| SlMED21-Q-F | TCCTTTATCGGATGGGAGTGAA |
| SlMED21-Q-R | CAGGCAGTTATCTGTTGCTTGGT |
| SlMED23-Q-F | CATTTCGCATTATGGGTCCC |
| SlMED23-Q-RSlMED25-Q-FSlMED25-Q-R | CCGTTGCTTCAATAGGTGCTGGTATTTATTACCAGATTGGAGGGGCGATGGGAGTTGTATTACCGC |
| SlMED26b-Q-F | ATGTTCGGCATCTATCTCGGAC |
| SlMED26b-Q-R | CTAAGTCATCTAAAGGCGGGG |
| SlMED33-Q-F | GCCATTTAATAGGCTACGCTCC |
| SlMED33-Q-R | GATATTGGGAGCACACGAACC |
| SlMED37-Q-F | AAGGTGAAAGGAGCTTAACGAA |
| SlMED37-Q-RSlCAC-Q-FSlCAC-Q-R | ATTTCTTCCTGGCTTAGACGCCTCCGTTGTGATGTAACTGGATTGGTGGAAAGTAACATCATCG |

**Supplementary Table S2.**  The RPKM values of RNA- seq data for SlMED genes in the different tissues.

**Supplementary Table S3.** Kinds and numbers of stress‐related and hormone‐related, in the upstream of *SlMED* genes. The names, position and their functional descriptions of each regulatory elements were listed.