Supplementary file 1. qRT-PCR primers for expression analysis of *SHMT* gene family in *Solanum lycopersicum*.

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| Gene name | Primer sequence (5，to 3，) |
| *SlSHMT1* | F:GAGAGAGTGCGGATGAGGAGAG | R: CTAACCGCATTTCTTCGTGACTC |
| *SlSHMT2* | F: CCTGAGATTGCTGACATTATTGAG | R:CGTTTCTGGCATAAGGTTTCTG |
| *SlSHMT3* | F: CAATACAAGTCGTCTTTGCCTAATC | R:CAAGACCCTTCCATTGCCTAG |
| *SlSHMT4* | F:GCTTTAACCAACAAATACTCAGAGG | R: GAATAAGGCTGAACATTAACACCC |
| *SlSHMT5**SlSHMT6**SlSHMT7**SlActin* | F: GAGTCGGGTAAAGTTATGCTCTGTCF:GCCTCCTTCTTCTGTTTCTGTTCF: CGCTGTAATTGAAGCTCTAGGCF: AATGAACTTCGTGTGGCTCCAGAG | R: CTCCTAAACTGACGCTGCTTCTC R: CCGCCTCCATCACTGCTCR: CCTGAATATGGCTGAACATTAACACR: ATGGCAGGGGTGTTGAAGGTTTC |