**Supplementary Information**

Figure S1. Alignment of GAUT1-like family.



Table S1. The primer pairs for pectin biosynthesis and depolymerization-related gene expression analysis.

|  |  |  |
| --- | --- | --- |
|  | **FORWARD PRIMER** | **REVERSE PRIMER**  |
| **PE2** | ATACAGAACACAGCAGGACCAGC | AGGCCACTTGACACGCTTACTAG |
| **PG2** | GAGCCCAAATACTGATGGAG | GATCCTCCCTGCCAAGTCTTGAT |
| **GAUT1-like family** | TCTTCGCTCTTAGACCTTTTAGG | CATCAAGAAAAAGGATTTTATTCA |
| **rRNA** | GCAAATTACCCAATCCTGAC | CTATTGGAGCTGGAATTACC |