**Supplementary Information**

Figure S1. Alignment of GAUT1-like family.

C:\Users\Hyodo\Desktop\Supplement Figure S1.tif

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

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