

## Supplementary Table.S2 Primers of floral-organ identity genes

### (A) Primers for RT-qPCR

| No. | genes ID   | sequences for RT-qPCR  | bp | products |
|-----|------------|------------------------|----|----------|
| 1   | qACTIN-F   | ATATCCTCCGTTTGGACCTTG  | 21 | 101      |
|     | qACTIN-R   | TTCCCGTTCTGCTGTCGTT    | 19 |          |
| 2   | qAP1/FUL-F | TCCTTCCTTCCAGTGCAGAC   | 20 | 115      |
|     | qAP1/FUL-R | TGTGGCGAAGCATCCAATGT   | 20 |          |
| 3   | qAP2-F     | TGGGGGAGATCAGTTTGGTG   | 20 | 141      |
|     | qAP2-R     | ACATGAACTGTTGAGGCTGGG  | 21 |          |
| 4   | qAP3-1-F   | AACTGGCAACTGATGGTGCT   | 20 | 115      |
|     | qAP3-1-R   | GCCAATCGGAGCTGATGGAA   | 20 |          |
| 5   | qAP3-2-F   | GAGGGAGATACATCGTGCCAT  | 21 | 154      |
|     | qAP3-2-R   | GGGTCAAAGCATAGGAGCCAT  | 21 |          |
| 6   | qPI-1-F    | CAGGAGCAGCAAATGGAAATGA | 22 | 107      |
|     | qPI-1-R    | TGGATTGGCTGGACACGGAA   | 20 |          |
| 7   | qPI-2-F    | GGACAGTGCACCAGCAAGAA   | 20 | 127      |
|     | qPI-2-R    | GGTTTGGCTGGATGGACACA   | 20 |          |
| 8   | qAG-F      | GCCTGATGCCTGGGAATGAA   | 20 | 132      |
|     | qAG-R      | ACCCAAGTTGAAGCGTTGTTT  | 21 |          |

### (B) Primers for RT-PCR

| No. | Genes ID  | Sequences for RT-PCR      | bp | products |
|-----|-----------|---------------------------|----|----------|
| 1   | actin-F   | TTGCCATTCAGGCTGTTCTT      | 20 | 221      |
|     | actin-R   | TTCCCGTTCTGCTGTCGTT       | 19 |          |
| 2   | AP1/FUL-F | ATGGGGAGAGGTAGGGTTCA      | 20 | 731      |
|     | AP1/FUL-R | GCTGAAAACCTCTCACACCCTACT  | 23 |          |
| 3   | AP2-F     | GTTTCATCTCATCTCATGAAAAAGT | 24 | 1517     |
|     | AP2-R     | TCGCCTTCTCAAGTATGTGG      | 20 |          |
| 4   | AP3-1-F   | GTCCATTTCCACTCAAGCCA      | 20 | 687      |
|     | AP3-1-R   | ACAAAAATTAAGATGGGAAGAGGA  | 24 |          |
| 5   | AP3-2-F   | TTCAAGCAAGGGTCAAAGCA      | 20 | 675      |
|     | AP3-2-R   | AGAAGCATGGGTAGGGGGAA      | 20 |          |
| 6   | PI-1-F    | GATTTCCCTATTTACTCTCCTGT   | 23 | 644      |
|     | PI-1-R    | GAAAAGAGATCATGGGGAGAGG    | 22 |          |
| 7   | PI-2-F    | AGATCATGGGGAGAGGAAAG      | 20 | 640      |
|     | PI-2-R    | GTAGTTCTATTTGTTCTCCTGT    | 22 |          |
| 8   | AG-F      | GGGGAGAGGCAAGATTGAGAT     | 21 | 818      |
|     | AG-R      | CCCAAGTTGAAGGGTTGTTTGA    | 22 |          |