Supplementary Material

**An *APETALA2* homolog, *RcAP2*, regulates the number of rose petals derived from stamens and response to temperature fluctuations**

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**Supplemental information:**

Supplemental Table S1: The exons information of *RcAP2* DNA sequence.

Supplemental Table S2: The transcriptional regulatory motifs information of *RcAP2* cDNA sequence.

Supplemental Table S3: The cis-acting elements information of *proRcAP2*.

Supplemental Table S4: The primer sequences involved in this article.

Supplemental Figure S1: The AT-rich sequence element analysis of *RcAG* DNA sequence.

Supplemental Figure S2: The original image from Figure 4D.

Supplemental Table S1: The exons information of *RcAP2* DNA sequence.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Exon** |  **mRNA coordinate**  |  **DNA coordinate**  |  **Length**  |  **Type**  |
| 1 | 1 ~ 569 | 1 ~ 569 | 569 | <exon>GT |
| 2 | 570 ~ 595 | 723 ~ 748 | 26 | AG<exon>GT |
| 3 | 596 ~ 626 | 845 ~ 875 | 31 | AG<exon>GT |
| 4 | 627 ~ 714 | 1007 ~ 1094 | 88 | AG<exon>GT |
| 5 | 715 ~ 860 | 1290 ~ 1435 | 146 | AG<exon>GT |
| 6 | 861 ~ 905 | 1619 ~ 1663 | 45 | AG<exon>GT |
| 7 | 906 ~ 997 | 1760 ~ 1851 | 92 | AG<exon>GT |
| 8 | 998 ~ 1194 | 1926 ~ 2122 | 197 | AG<exon>GT |
| 9 | 1195 ~ 1404 | 2220 ~ 2429 | 210 | AG<exon>GT |
| 10 | 1405 ~ 1608 | 2513 ~ 2716 | 204 | AG<exon> |