

过表达森林草莓 *FvBBX22* 促进拟南芥花青素合成和 延迟开花时间

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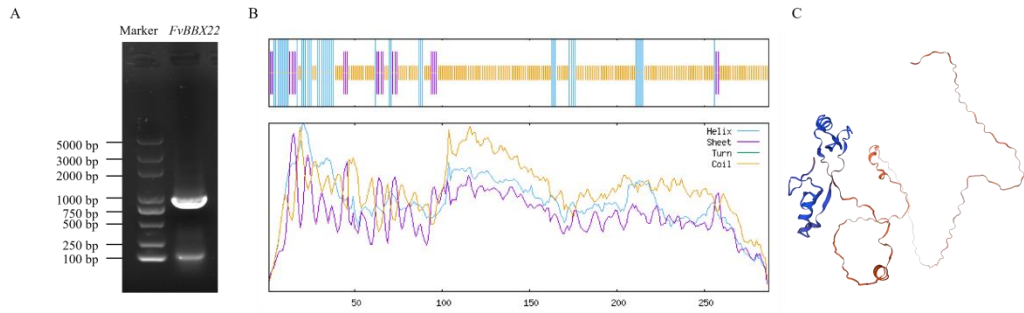
Overexpression of *FvBBX22*, A Gene from *Fragaria Vesca*, Promotes Anthocyanin Synthesis and Delays Flowering Time in *Arabidopsis thaliana*

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附表 1 引物序列

Table S1 Primer sequences

| 基因 | 正向引物序列 | 反向引物序列 | 用途 |
|----------------|---------------------------------|---------------------------------|--------------------|
| Gene | Forward primer sequence (5'-3') | Reverse primer sequence (5'-3') | Usage |
| <i>FvBBX22</i> | ATGAAGATACAGTGTAACGTGTGCG | TAGTTGCCTACGACGTTTTGAGAC | 基因克隆 Gene clone |
| <i>FvBBX22</i> | GTTTTCTGGGGCTCTGGA | TCCCAAGTTTACCGCAGTC | 实时荧光定量 |
| <i>AtACT2</i> | AAGCTGGGTTTTATGAATGG | TTGTCACACACAAGTGCATCAT | RT-qPCR |
| <i>Fv26S</i> | TAACCGCATCAGGTCTCAA | CTCGAGCAGTTCTCCGACAG | |
| <i>AtCHS</i> | GGCTCAGAGAGCTGATGGAC | GATACTCCGCCTGAAGCACA | |
| <i>AtCHI</i> | ATGTCTTCATCCAACGCCTGCGCC | GACGGTGAAGATCACGAATTTACC | |
| <i>AtF3H</i> | TCGCTCGTGACTTCTTTGCT | AATCTTGACAGCCTCTCCC | |
| <i>AtDFR</i> | ATGCCGCCTAGCCTTATCAC | ATATAACGTCCCTTGGCGGC | |
| <i>AtANS</i> | GGCTGTGTTTTGTGAACCCC | TGAGCAAAAGTCCGTGGAGG | |
| <i>AtUF3GT</i> | ACTTGCCGTGAGACAGAAGG | GGAGGGCTGATTAGGTTGGG | |
| <i>AtCO</i> | ATTCTGCAAACCCACTTGCT | CCTCCTTGGCATCCTTATCA | |
| <i>AtFT</i> | CTGGAACAACCTTTGGCAAT | AGCCACTCTCCCTCTGACAA | |
| <i>AtFUL</i> | GGAGAAGAAAACGGGTCAGC | ACTCGTTCGTAGTGGTAGGAC | |
| <i>AtLFY</i> | TCCAAGAAGATGATTGGACAGG | TGCGTCCAGTAACCACTTC | |



A: *FvBBX22* 基因的 CDS 扩增; B: *FvBBX22* 蛋白二级结构; C: *FvBBX22* 蛋白三级结构。

A: CDS amplification of *FvBBX22* gene; B: Secondary structure of the *FvBBX22* protein; C: Tertiary structure of the *FvBBX22* protein.

附图 1 *FvBBX22* 基因的克隆和蛋白结构分析

Fig. S1 Cloning and protein structure analysis of *FvBBX22* gene