

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

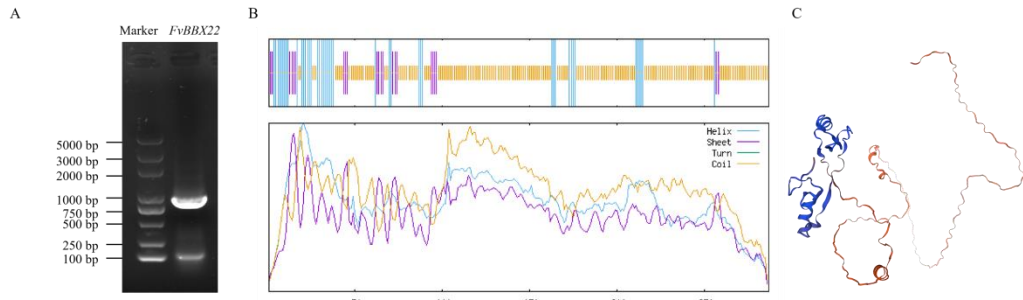
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Overexpression of *FvBBX22*, A Gene from *Fragaria
Vesca*, Promotes Anthocyanin Synthesis and Delays
Flowering Time in *Arabidopsis thaliana*

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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>	GTTTTTCTGGGGGCTCTGGA	TCCCAAGTTTACCGCAGTC	实时荧光定量
<i>AtACT2</i>	AAGCTGGGGTTTTATGAATGG	TTGTCACACACAAGTGCATCAT	RT-qPCR
<i>Fv26S</i>	TAACCGCATCAGGTCTCCAA	CTCGAGCAGTTCTCCGACAG	
<i>AtCHS</i>	GGCTCAGAGAGCTGATGGAC	GATACTCCGCCTGAAGCACA	
<i>AtCHI</i>	ATGTCTTCATCCAACGCCTGCGCC	GACGGTGAAGATCACGAATTTACC	
<i>AtF3H</i>	TCGCTCGTGACTTCTTTGCT	AATCTTGCACAGCCTCTCCC	
<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	TGCGTCCCAGTAACCACTTC	

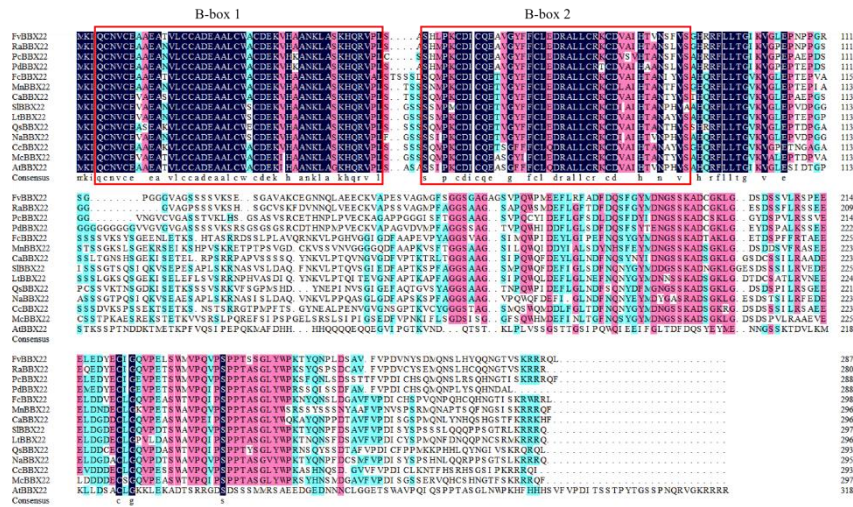


A: *FvBBX22* 基因的 CDS 扩增; B: *FvBBX22* 蛋白二级结构; C: *FvBBX22* 蛋白三级结构。

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



附图 2 不同物种 BBX22 蛋白序列比对分析

Fig. S2 Multiple sequence alignment analysis of BBX22 proteins from different species