

ApGA20ox1 通过赤霉素代谢途径正向调控早花百子莲开花

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ApGA20ox1 Positively Regulates Flowering of *Agapanthus praecox* via the Gibberellin Metabolic Pathway

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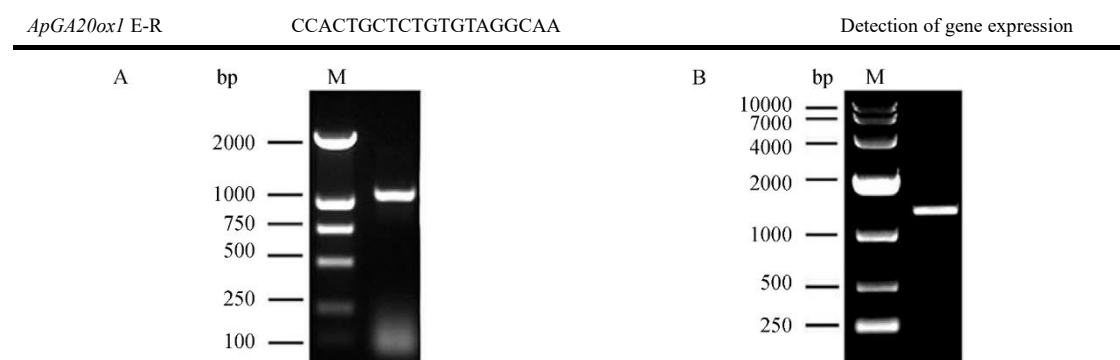
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附表 1 引物序列及其用途

Table S1 Primer sequences and their applications

引物名称	引物序列	用途
Primer name	Primer sequence (5'-3')	Application
ApGA20ox1-F	CTTGAGCCTGGAGGATGTATT	保守区扩增
ApGA20ox1-R	AACCTCATCGTCGAATCGTTC	Conserved region amplification
ApGA20ox1 F-F	ATGGTGCTTCAACCCCTTCGTGTTCTG	全长扩增
ApGA20ox1 F-R	TCATTGTGTCAGGGTGCCTTGAGCCT	Full-length amplification
pEG101-ApGA20ox1-F	GGGGACAAGTTTGTACAAAAAAGCAGGCTTCATGGTG CTTCAACCCCTTCGTGTTCTG	亚细胞定位载体
pEG101-ApGA20ox1-R	GGGGACCACTTTGTACAAGAAAGCTGGGTCTTTGTGCA GGGTGCCTTGAGCCT	Subcellular localization vector
pHB-ApGA20ox1-F	CGGGATCCATGGTGCTTCAACCCCTTCGTGTTCTG	过表达载体
pHB-ApGA20ox1-R	CCAATGCATTGGTTCTGCAGTCATTGTGCAGGGTGCCT TGAGCCT	Overexpression vector
ApGA20ox1-RNAi-F	GGGGTACCACTAGTCAAGCAAGTAGGCGAAGC	RNAi 载体
ApGA20ox1-RNAi-R	CGGGATCCGAGCTCGAAGAGTAACGGAACGAGA	RNAi vector
Hyg-F	TCCACTATCGGCGAGTACTTCT	转基因植株检测
Hyg-R	AGAGCCTGACCTATTGCATCTC	Transgenic plant detection
ApGA20ox1 E-F	ATGGTGCTTCAACCCCTTCGT	基因表达检测

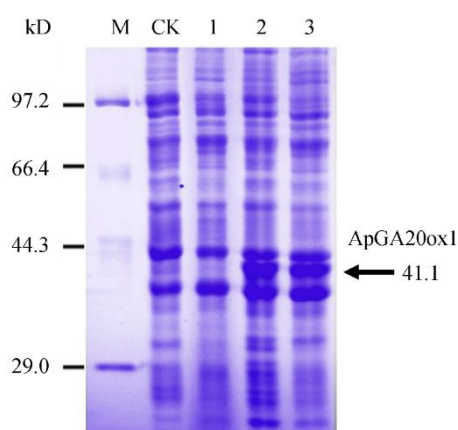


A: *ApGA20ox1* 基因 ORF 电泳图, M 为标准 DNA 分子量 DL2000; B: *ApGA20ox1* 基因 ORF 对应 DNA 电泳, M 为标准 DNA 分子量 DL10000

A: Electrophoresis of the *ApGA20ox1* ORF, M presents DL2000 standard DNA marker. B: Electrophoretic analysis of the coding region DNA of *ApGA20ox1* gene, M presents DL10000 standard DNA marker

附图 1 早花百子莲 *ApGA20ox1* 基因全长扩增

Fig. S1 Electrophoresis of full-length *ApGA20ox1*



M 为蛋白标准分子量, CK 为不含载体的 *Transetta* (DE3) 菌株, 泳道 1, 2 和 3 分别为 *Transetta* (DE3) 含载体 pEASY-*ApGA20ox1* 诱导表达 1 h, 2 h 和 3 h

Lane M indicates protein marker; lane CK refers proteins of *Transetta* (DE3); lane 1, 2 and 3 refer *Transetta* (DE3) harbored pEASY-*ApGA20ox1* induced for 1 h, 2 h and 3 h respectively

附图 2 *ApGA20ox1* 基因原核表达分析

Fig. S2 The prokaryotic expression of *ApGA20ox1*



附图 3 拟南芥抗性株系筛选

Fig. S3 Resistant line screening in *A. thaliana*