

棉花 *GhMYB1R1* 的表达分析及对黄萎病胁迫的响应

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Expression Analysis of Cotton *GhMYB1R1* and Its Response to *Verticillium* Wilt Stress

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附表 1 生物信息学分析在线软件及网址

Appendix Table 1 Bioinformatics analysis software used in this article

软件及网址 Software and website address	功能 Function
ExPASy-ProtParam	蛋白质理化参数计算 Calculation of protein physicochemical parameters
SignalP-5.0	蛋白信号肽预测 Prediction of protein signal peptides
TMHMM 2.0-DTU Health Tech-Bioinformatic Services	预测跨膜结构域 Prediction of transmembrane domains
CELLO v.2.5: http://cello.life.nctu.edu.tw/	蛋白质的亚细胞定位分析 Analysis of protein subcellular localization
CDSearch: Navigate results	蛋白结构域预测 Prediction of protein domains
PlantCARE, a database of plant promoters and their cis-acting regulatory elements	启动子顺式作用元件分析 Analysis of promoter <i>cis</i> -acting elements

附表 2 文中用到的引物序列

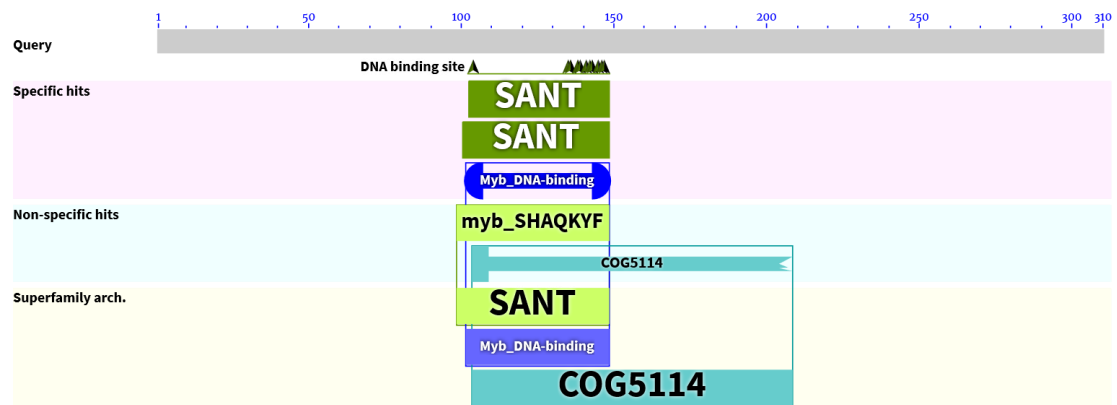
Appendix Table 2 Primer sequences used in this study

引物 Primer	序列 sequence/5'-3'	用途 usage
GhUBQ7-F	GAAGGCATTCCACCTGACCAAC	RT-qPCR
GhUBQ7-R	CTTGACCTTCTTCTTGTGCTT	RT-qPCR
q-F	GATGCCGTTCTCTCACTCTCTG	RT-qPCR
q-R	GGCTTGCTACTTGTGTCGGAG	RT-qPCR
VIGS-F	CGGAATTCCCGACGATGCCGTTCTCAC	VIGS 载体构建 VIGS vector construction
VIGS-R	GGGGTACCGATTCTGAATTGGAACCGCGG	VIGS 载体构建 VIGS vector construction

附表 3 *GhMYB1R1* 的生物信息学分析

Appendix Table 3 Bioinformatics analysis of *GhMYB1R1*

基因 Gene	开放阅读框 ORF/bp	氨基酸 amino acid	相对分子量 Molecular weight/kDa	理论等电点 Theoretical <i>pI</i>	平均疏水性 Average hydropathicity	信号肽 Signal Peptide	亚细胞定位 Subcellular localization	脂肪系数 Aliphatic index	跨膜结构域 Transmembrane domain
<i>GhMYB1R1</i>	933	310	33.9	9.26	-0.645	无 None	Nuclear	67.29	无 None



附图 1 GhMYB1R1 蛋白结构域预测
Appendix Fig.1 Protein domain prediction of GhMYB1R1