

生物技术—研究报告

皇冠草 (*Echinodorus amazonicus*) 细胞色素P450相似基因的研究

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摘要:

为了研究皇冠草基因组内的细胞色素P450基因或与P450基因相似的序列, 根据哺乳动物细胞色素P450基因设计8条引物, 以皇冠草总DNA为模板, 进行PCR扩增。结果表明: 共获得了26条扩增片段, 片段长度300~1500 bp; 将其中三条片段进行测序, BLAST分析表明这些序列与已发表的16种植物的细胞色素P450基因具有一定的相似性。这表明在皇冠草基因组内存在P450基因或者有与P450基因相似的序列。

关键词: 相似基因

Isolation of Cytochrome P450 Gene-analogues from *Echinodorus amazonicus*

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Abstract:

In order to study Cytochrome P450 gene of *Echinodorus amazonicus*, PCR amplification was conducted using 8 primers which were designed according to the gene of mammalian cytochrome P450 genes. 26 amplified fragments were obtained and the length varied from 300 to 1500bp. 3 fragments of them were sequenced. BLAST search analysis revealed that these amplified fragments possessed homologies to other cytochrome P450 genes and proteins in different 16 kinds of plant varieties.

Keywords: gene-analogues

收稿日期 2010-11-25 修回日期 2011-03-21 网络版发布日期 2011-06-16

DOI:

基金项目:

哈尔滨师范大学骨干教师资助计划

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