

植物生产层

微孔草Actin基因核心片段的克隆及序列分析

吴淑娟, 张一弓, 张丽静, 傅 华

摘要:

提取微孔草*Microula sikkimensis*叶片的总RNA, 并以其为模板, 运用RT-PCR方法扩增出Actin基因的核心序列。通过连接、转化后对阳性克隆进行PCR鉴定并测序, 序列分析结果表明: 微孔草Actin基因核心片段长599 bp, 编码199个氨基酸。将该序列与GenBank中已注册的植物Actin基因序列进行同源性比较, 发现它们之间的同源性在84%以上, 氨基酸序列同源性在95%以上, 具有高度的保守性。

关键词: 微孔草 Actin基因 序列分析

Cloning and sequence analysis of Actin gene fragment of *Microula sikkimensis*

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Abstract:

Total RNA of *Microula sikkimensis* was extracted from leaf. The actin gene fragment was amplified by reverse transcription polymerase chain reaction RT-PCR and then cloned into pGEM-T vector. The gene fragment was sequenced after identifying the positive clone by PCR. The results revealed that the actin gene fragment from *M. sikkimensis* contains 599 bp and encodes a protein of 199 amino acids. Similarity comparison with other actin gene sequence in the GenBank showed that it shared over 84% of nucleotide sequence similarity and over 95% of amino acid sequence similarity with other actin, which suggests that actin gene of *M. sikkimensis* was highly conservative.

Keywords: *Microula sikkimensis* Actin gene sequence analysis

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