

AFLP分析中多态性扩增产物的回收、克隆及鉴定 Recovery, Cloning and Identification of Polymorphic AFLP Products

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摘要 本研究在摸索和优化了水稻AFLP分析体系的基础上, 发展了多态性AFLP产物的高效克隆方法。特异AFLP扩增产物直接从变性聚丙烯酰胺凝胶上分离纯化, 再经过一至二轮PCR扩增, 即可高效地克隆于pGEM-Teasy vector系统中。本实验利用该方法成功地克隆了水稻温敏核不育等位突变系546 0S和5460F间的4个多态性AFLP产物, Southern blotting分析证明其中3个产物在水稻基因组中为单拷贝序列, 另一个为低拷贝序列。AFLP技术强有力的多态性检出能力再结合多态性扩增产物的高效克隆方法, 为寻找与目标基因紧密连锁的分子标记提供了有力工具。

Abstracts:An efficient method for cloning DNA fragment from denaturing polyacrylamide gels was developed to allow the isolation of specific bands obtained from amplified fragment length polymorphism(AFLP)products. After isolation and purification from the thin denaturing polyacrylamide gels, specific AFLP products were successfully cloned after one or two rounds of PCR reamplification. Using this method 4 polymorphic AFLP products between a pair of rice allelic lines differing for thermo-sensitive genic male sterile(TGMS)ene were cloned and it was confirmed that 3 of the AFLP products represented single copy sequences and the other 1 represented low copy sequence in rice genome.

关键词 [水稻](#) [AFLP](#) [分子标记](#) **Key words** [Rice](#) [Amplified fragment length polymorphism\(AFLP\)](#) [Molecular marker](#)

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