

番茄RAPD分析有效引物3'端序列的偏倚分布及其与基因组序列结构的关系 **A Partial Distribution of the 3' Sequences of Effectual Primers in RAPD Analysis for Lycopersicon sp. and with Relation to Sequential Feature of Tomato Genome**

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收稿日期 修回日期 网络版发布日期 接受日期

摘要 对番茄RAPD分析的有效引物与Operon引物系列(OP系列)的3'端序列作了统计比较。研究结果指出, 番茄有效引物系列不是OP系列的随机样本, 而是3'端序列的种类和分布上有偏倚性的选择性样本。虽然两个系列的引物都具有3'端同序现象, 但对其分布频率正交比较结果差异极显著, 此类同序性3'端在番茄基因组的RAPD座位中是普遍分布的。RAPD引物3'端序列的非随机分布, 反映了番茄基因组内的多态性区段侧翼具有序列的特异性, 这种特异性结构应是番茄基因组序列的一种属性, 这种属性为番茄属基因组所共有。

Abstract: The study of compared effectual primers 3' end sequences between RAPD analysis used in tomato and Operon system. It is suggested that 3' end sequences of primers for tomato RAPD are not the random samples of OP system, their 3' end sequences are partial distribution in kinds and frequency. Though there have homologous sequences at 3' end in both systems. But their distribution of frequency shows significant difference in orthogonal comparison. The 3' ending homologous sequences in RAPD loci are found all over in tomato genome. Therefore the nonrandom distribution of 3' end sequences of effectual primers in tomato RAPD reflected the sequence-specific structure may occur in tomato genome at flank of polymorphic regions. It is probably an attribute of tomato genomic sequence and is common in Lycopersicon.

关键词 [番茄](#) [RAPD引物](#) [3'端序列](#) [基因组序列](#) **Keywords** [tomato](#) [RAPD primer](#) [3' end sequence](#) [genomic sequence](#)

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