

质粒DNA的构型变化对转录的调控作用¹⁾

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摘要 本文以重组质粒pZrns 51 DNA为转录模板, 在无细胞离体转录系统中研究了质粒DNA的构型变化与其模板活性的关系。结果表明: (1) 质粒DNA的构型变化对其模板活性有明显影响; (2) 超螺旋化对于质粒DNA在转录水平上的表达是必需的。这些结果对于离体转录的研究有其生物学意义。

关键词

分类号

Structural Variation of Recombinant Plasmid DNA and Its Regulation on Transcription

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Abstract

The relationship between template activity and structural variation of recombinant plasmid DNA was studied in a cell-free system for *in vitro* transcription which was developed with maize RNA polymerase B and recombinant plasmid DNA. Results demonstrate that: (1) Structural variation of recombinant plasmid DNA gives an obvious effect on its template activity. Form I DNA gives the highest template activity. (2) Supercoiling is necessary for the expression of recombinant plasmid DNA at transcription level. These results are of important biological significance for *in vitro* transcription.

Key words

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