

## 插入序列IS2的研究: II. 突变体的极性效应和DNA序列分析

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**摘要** 插入序列IS2插入某转录子后产生极性效应, 研究 I 发现左插和右插的极性效应不同。本研究(II)表明, 不同IS2左插后的极性效应也有很大差异。对IS2的DNA序列分析表明, 当IS2中ORF的方向和被插入转录子的转录方向相同时为左插, 极性效应较小, 当IS2中ORF的方向和被插入转录子的转录方向相反时为右插, 极性效应较强。当IS2发生碱基突变出现终止密码子时, 将增加左插的极性效应。

**关键词** [插入序列](#) [极性效应](#)

分类号

## The Study of Insertion Sequence IS2 II.Polarity Effect of the Mutant and DNA Sequence Analysis

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### Abstract

Insertion Sequence IS2 brought about polarity effect when it was inserted into a transcripton. In study I, we found that the into polarity effects were different whether IS2 was inserted into the left side or into the right side .In this study,further research also. showed that the polarity effects were very different when different IS2 was inserted into the the left side. The analysis on IS2 DNA sequence showed that when the direction of IS2 ORF was the same as the transcription direction of the inserted transcripton known as a left insertion,the polarity effect was weaker. When the direction of IS2 ORF was opposite to the transcription direction of the inserted transcripton, known as a right insertion,the polarity effect was stronger. When a stop codon was produced in IS2 due to base mutation, the polarity effect of a left inserion was increased.

**Key words** [Insertion sequence](#) [Polarity effect](#)

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