

家蚕核型多角体病毒山东株p35基因的克隆及序列分析 Cloning and Sequencing of p35 Gene from Bombyx mori Nuclear Polyhedrosis Virus Strain Shandong

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摘要 根据家蚕核型多角体病毒T3株p35基因非编码区序列设计一对特异性引物, 应用PCR技术从家蚕核型多角体病毒山东株中扩增得到一条1 080 bp的片段。测序结果表明, 该片段含有p35基因, 开放阅读框长900 bp, 编码299个氨基酸, 分子量为34.91kDa, pI=6.4。序列分析表明, BmNPV山东株的p35基因与T3株存在差异。

Abstract: According to the 5' and 3' untranslated region sequences of p35 gene from Bombyx mori nuclear polyhedrosis virus isolate T3, a pair of primers was designed employing computer analysis. With the primers, polymerase chain reaction (PCR) was performed and a 1 080 bp fragment was obtained from BmNPV strain Shandong. Sequencing result showed that it was p35 gene (GenBank accession number: AY157746), and it included an open reading frame of 900 bp, encoding 299 amino acids with Mr=34.91kDa and pI=6.40. BLAST analysis indicated that there were seven bases and three amino acids difference between p35 from BmNPV strain Shandong and that from BmNPV isolate T3.

关键词 [家蚕核型多角体病毒山东株](#) [p35基因](#) [克隆](#) [序列分析](#) **Key words** [Bombyx mori nuclear polyhedrosis virus strain Shandong](#) [p35 gene](#) [clone](#) [sequence analysis](#)

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