

貂肠炎病毒的核苷酸序列和基因组结构

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摘要 本试验测定了已克隆的貂肠炎病毒(MEV)复制型(RF)DNA的核苷酸序列,确定MEV基因组全长约为5064个核苷酸(nucleotides, nt),推测了3'端和5'端结构,在5'端非编码区有3个51nt的重复。MEV基因组序列与犬细小病毒(CPV)、猫细小病毒(FPV)有很高的同源性,结构基因区的同源性分别达99.1%和99.9%,但在5'端非编码区有较大差异。MEV基因组结构与CPV和FPV基本一致,有两个大的开放阅读框架,分别编码688和722个氨基酸。在map unit (m. u.)3.7和m. u. 39处有两个启动子,在m. u. 97处有polyA位点。NS2、VP1和VP2的mRNA都发生剪接。

关键词 [MEV,核苷酸序列,基因组结构](#)

分类号

Nucleotide Sequence and Genome Structure of Mink Enteritis Virus

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Abstract

This paper reports the sequence of the cloned mink enteritis virus(MEV) RF DNA and its 3' and 5' end structure predicted. MEV genome is near 5064 nucleotides (nt) in length. In its 5' end non-coding region, there are three 51 nt repeated sequences. The nucleotide sequence of MEV genome has very high homology with those of canine parvovirus (CPV) and feline parvovirus (FPV), reaching 99.1% and 99.9% respectively in the structure gene region. But they differ notably in 5' end non-coding region. The structure of MEV genome is almost same as those of CPV and FPV. It has two large open reading frames which code for 688 and 722 amino acids respectively. There are two promoters at map unit 3.7 and 39. At map unit 97, there is a poly A site. All the mRNAs of NS2, VP1 and VP2 are spliced

Key words [MEV](#) [Nucleotide sequence](#) [Genome structure](#)

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