

研究报告

三大不同品种马mtDNA Cytb基因的PCR-RFLP分析

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摘要 用BamH I、Taq I、HaeIII、Rsa I和Hinc II 5种限制性内切酶通过PCR-RFLP技术检测了包括引入品种、培育品种和地方品种的6个类型共256匹马的mtDNA Cytb基因部分序列多态性。用8%非变性聚丙烯酰胺凝胶电泳将酶切产物分离,并用银染法显色。结果BamH I和Taq I表现出多态,5种酶共检测到7种态型,归纳为3种单倍型,以单倍型I和III为主体单倍型,但通过一个特殊的酶型BamH I-B分析推测所研究的马起源于一个母系祖先。

关键词 [限制性内切酶,PCR-RFLP,马,mtDNA Cytb基因,多态性](#)

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PCR-RFLP analysis of the mtDNA Cytb gene in three different horse breeds

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Abstract

5 restriction endonucleases, namely BamH I, Taq I, HaeIII, Rsa I and Hinc II, were used to analyze the polymorphism of mtDNA Cytb gene part sequences of 256 horses from 6 types including importing breed, cultivating breed and local breed. The products of endonuclease cutting were detected by 8 percent non-denatured polyacrylamide gel electrophoresis and showing in silver staining protocol. The result indicated BamH I and Taq I showed polymorphism, 7 restriction morph were detected and 3 haplotypes sorted, in which haplotype I and III were the basic haplotypes, but we guessed that these horses came of one female ancestor analyzed thorough one especial morph, namely BamH I-B.

Key words [restriction endonucleases](#) [PCR-RFLP](#) [Horses](#) [mtDNA Cytb gene](#) [Polymorphism](#)

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