

毛冠鹿ZFY、ZFX基因片段的克隆与性别鉴定 Cloning of ZFY /ZFX Gene of the Tufted Deer and identification of its sex

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收稿日期 修回日期 网络版发布日期 接受日期

摘要

根据人和鼠性别分化相关的ZFY、ZFX基因序列设计引物, 以雌雄毛冠鹿的基因组DNA为模板进行PCR扩增, 将扩增产物克隆到pMD18T上, 获得ZFY、ZFX重组克隆, 并测定了ZFY、ZFX基因片段的序列, 序列比较显示两者同源性达91%, 仅在少数位点有差异, 以此确定Ava II为ZFX上特异酶切位点, 通过PCR扩增和Ava II特异酶切对毛冠鹿性别进行鉴定。

Abstract: According to the human sex differentiation related ZFY and ZFX genes, a pair of primers were designed, and fragments were amplified from the genomic DNA of male or female tufted deer. Subsequently the amplified fragments were cloned into the vector pMD18T and were sequenced. It is found that the sequences of ZFY gene and ZFX gene have 91% homology. Based on the different nucleotides, restriction site of Ava II was found to be specific to ZFX gene. The results show that the combination of PCR with Ava II digestion is a simple and sensitive way to identify the tufted deer sex.

关键词 [毛冠鹿\(Elaphodus cephalophus\)](#) [ZFY](#) [ZFX](#) [性别鉴定](#) Key words [Elaphodus cephalophus](#) [ZFY](#) [ZFX](#) [sexual identification](#)

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