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论文

牛催乳素受体基因遗传多态性及其与部分精液品质性状的关联分析

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摘要:

采用PCR-SSCP方法对种公牛群体的催乳素受体基因(PRLR)所有外显子及5′UTR多态性进行检测。结果表明:外显子1及外显子8分别检测到了2种等位基因A、B和C、D,其中A、C为群体中优势基因,其他外显子及5′UTR没有遗传多态性;相关性分析表明,第1外显子位点AA型鲜精顶体完整率显著高于AB型(P=0.012),第8外显子位点CD型冻精活力显著高于CC型和DD型(P=0.004)。初步推断PRLR为影响种公牛繁殖性状的一个候选基因。

关键词: 种公牛 催乳素受体 生产性状

SNP Analysis of Prolactin Receptor Gene and Its Relationship with Semen Quality in Bulls

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Abstract:

The exons and 5 ′ UTR polymorphisms of PRLR gene in bulls were detected in this reserch by PCR-SSCP. The result showed that alleles A, B in exon 1 and C, D in exon 8 were detected in this population, among which A and C dominated, and there was no polymorphism in other exons and 5 ′ UTR; The relationship between genetypes and performances was analyzed, and the results indicated that fresh acintegrity rate of genotype AA was higher than genotype AB in exon 1 and frozen semen energy of genotype CD was much higher than genotypes CC and CD in exon 8. It was initially concluded that PRLR is one of the candidate genes for breeding traits.

Keywords: bull prolactin receptor performance

收稿日期 2009-03-04 修回日期 2009-12-03 网络版发布日期

DOI:

基金项目:

国家"863"计划项目(2008AA101010),国家科技支撑计划项目(2007BAD55B03)

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