

研究报告

*FUT1*基因多态性及其与产仔性状的关联性研究

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收稿日期 2006-4-4 修回日期 2006-10-8 网络版发布日期 2006-12-4 接受日期

摘要

采用PCR-RFLP技术6个中外品种共245头猪的*FUT1*基因进行了研究, 结果表明, *Hin* 6 I 位点上, 大白猪、长白猪和杜洛克猪3个外来猪种均存在多态, 且以敏感型(GG型和AG型)居多; 山西黑猪、太原花猪和马身猪3个本地猪种的所有检测样品都表现为GG型。用方差分析方法分析*FUT1*基因型、品种和胎次与产仔性状之间的关系, 基因型和品种对猪的总产仔数的影响显著, 胎次对总产仔数影响不显著。而基因型、品种和胎次对产活仔数影响均不显著。

关键词 [猪](#) [FUT1基因](#) [PCR-RFLP](#) [产仔性状](#)

分类号

FUT1 gene polymorphism and its association with litter size in pigs

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Abstract

<P>The genetic variations of FUT1 gene at nucleotide position 307 of its open reading frame were investigated by PCR-RFLP in a total of 245 pigs from 3 exotic pig breeds and 3 Chinese native pig breeds. Results showed that the genetic polymorphisms of the FUT1 locus were only detected in the 3 exotic pig breeds. There were 3 different genotypes and the majority were the susceptible forms including GG and AG. All Chinese native pig breeds only presented the susceptible genotype <I>FUT 1</I>. Univariate analysis of variance components indicated that FUT 1 gene and the type of breeds significantly affected total number born, whereas parities did not. None of these factors significantly affected the number of liveborns.</P>

Key words [pig](#) [FUT1 gene](#) [polymorphisms](#) [litter trait](#)

DOI: 10.1360/yc-007-0052

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