

研究报告

# MyoG基因对金华猪繁殖性状的影响

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**摘要** 用PCR-RFLP方法对金华猪I系(109头)、II系(15头)、III系(25头)的MyoG基因的第二内含子内(PCR1-Msp I-RFLP)和3'-端(PCR2-Msp I-RFLP)位点进行了多态性分析。结果表明:PCR1-Msp I-RFLP位点有3种基因型(AA、AB、BB),其基因型频率分别为0.1544, 0.3826, 0.4631;PCR2-Msp I-RFLP位点只有2种基因型(MM、MN),其基因型频率分别为0.9953和0.0047。采用SPSS程序分析MyoG基因对金华猪繁殖性状的影响。结果表明:MyoG基因对金华母猪初胎的总产仔数、二胎的产活仔数影响显著(P<0.05),而对其他胎次组合的总产仔数、产活仔数以及初生窝重没有显著影响(P<0.05)。

**关键词** [金华猪](#) [MyoG基因](#) [繁殖性状](#)

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## Influences of MyoG Gene on Reproductive Traits in Jinhua Pig

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### Abstract

The genotypes in the second intron and 3' UTR region of myogenin gene in 149 Jinhua pigs (line I, 109; line II, 15; line III, 25) were detected by PCR-RFLP method. The results showed that three genotypes (AA, AB and BB) in the PCR1-MspI-RFLP site were detected and their frequencies were 0.1544, 0.3826, 0.4631, respectively; MM and MN genotypes were found in PCR2-MspI-RFLP site and their frequencies were 0.9953 and 0.0047. The effect of MyoG gene on the reproductive traits was analyzed using SPSS software. Significant associations were found between MyoG locus and total number born (TNB) in first parity (P<0.05), and number born alive (NBA) in the second parity (P<0.05), but no significant associations existed in other parity combinations of TNB, NBA and litter weight birth (LWB) (P<0.05).

**Key words** [jinhua pig](#) [myogenin gene](#) [reproductive traits](#)

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