

研究报告

鸭生长激素基因内含子2、3多态性分析

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摘要

根据鸭生长激素基因内含子2、3的序列设计5对引物, 利用PCR-SSCP方法对北京鸭、西湖野鸭、金定鸭、山麻鸭、荆江鸭、绍兴鸭等6个鸭品种进行了单核苷酸多态性分析, 并检测其多态性。结果共发现8个突变位点, 其中内含子2有7个: 2593处C-T, 2770处G-A, 2813处T-A, 2829处C-A, 2894处C-T, 2896处T-C, 3100处C-G; 内含子3有1个: 3270处A-G。统计结果显示, 这8个变异位点的基因型频率分布与品种有关, 在这些基因座的变异水平上, 北京鸭和绍兴鸭表现出了相当的品种保守性, 本研究所检测到的这些基因座可能与鸭的生产性能有关。

关键词 [鸭](#) [生长激素基因](#) [单核苷酸多态性](#)

分类号

Polymorphic analysis of intron 2 and 3 of growth hormone gene in duck

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Abstract

<P>The single nucleotide polymorphism (SNP) of growth hormone gene was investigated in various breeds of duck, including Beijing ducks, Xihu mallards, Jinding ducks, Shan Partridge ducks, Jingjiang ducks and Shaoxing ducks. The primers for intron 2 and 3 in GH gene were designed based on the database of duck genomic sequence and the SNPs were detected by PCR-SSCP method. Eight SNPs were found among individuals within a breed, which were 2593(C-T), 2770(G-A), 2813(T-A), 2829(C-A), 2894(C-T), 2896(T-C), and 3100(C-G) in intron 2 and 3270(A-G) in intron 3. The analytic results showed that the frequencies of genotypes in different breeds were significantly different. Based on these SNPs, Beijing ducks and Shaoxing ducks represented their own unique conservativeness, indicating that these SNPs may have relationship with some productive traits of duck.</P>

Key words [duck](#) [growth hormone gene](#) [single nucleotide polymorphism](#)

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