

蒙古山羊和哈萨克山羊GOLA-DRB3基因的HaeIII酶切多态性分析 Polymorphism Analysis of the GOLA-DRB3 Gene Digested with HaeIII in Mongolian Goat and Kazakh Goat

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摘要

采用限制性内切核酸酶HaeIII对蒙古山羊和哈萨克山羊GOLA-DRB3基因外显子2的285bp扩增产物进行了PCR-RFLP多态性分析,共检测到17种基因型,由A、B、C、D、E、F和H等7个复等位基因控制;通过酶切图谱分析发现蒙古山羊和哈萨克山羊的GOLA-DRB3基因外显子2的154、168和220位碱基表现出多态性。并对基因型频率和等位基因频率进行了统计分析,结果表明,GOLA-DRB3基因的部分基因型频率和等位基因频率在两个群体之间差异显著($P < 0.10$ 或 $P < 0.05$)或极显著($P < 0.01$); χ^2 适合性检验结果表明,蒙古山羊和哈萨克山羊的GOLA-DRB3基因外显子2的HaeIII酶切位点均未达到Hardy-Weinberg平衡状态($P < 0.01$)。

Abstract:The exon2 of GOLA-DRB3 gene was amplified and a uniform fragment of 285bp was obtained in Mongolian Goat and Kazakh Goat.The 285bp PCR product was digested with restriction endonuclease Hae III and genetic polymorphism was investigated by PCR-RFLP.Seventeen kinds of genotypes were found in two populations,which were controlled by seven alleles.There are significant differences in some genotypic frequencies and gene frequencies between the two populations ($P < 0.10, P < 0.05, P < 0.01$);The results of χ^2 test showed that genotypes of GOLA-DRB3 gene in two populations did not fit with Hardy-Weinberg equilibrium ($P < 0.01$).

关键词 [蒙古山羊](#) [哈萨克山羊](#) [GOLA-DRB3](#) [PCR-RFLP](#) Key words [Mongolian goat](#) [Kazakh goat](#) [GOLA-DRB3](#) [PCR-RFLP](#)

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