



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

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扩增产物进行酶切分析,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学分析,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。

Abstract: The exon2 of GOLA-DRB3 gene was amplified and a uniform fragment of 285bp was obtained in Mongolian Goat. The 285bp PCR product was digested with restriction endonuclease HaeIII and genetic polymorphism analysis was performed. Seventeen kinds of genotypes were found in two populations, which were controlled by seven alleles. There were significant differences in genotypic frequencies and gene frequencies between the two populations ($P < 0.10$, $P < 0.05$, $P < 0.01$); all genotypes of GOLA-DRB3 gene in two populations did not fit with Hardy-Weinberg equilibrium ($P < 0.01$).

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