

VLDL双向选择肉鸡群SSR指纹分析 SSR Fingerprinting in Broiler Selected for Very Low Density Lipoprotein (VLDL)

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摘要 对初步进行VLDL双向选择的三个世代高、低脂群肉鸡进行SSR指纹分析, 评定各基因座基因频率的变化, 进而判断SSR标记与肉鸡肥度性状VLDL的相关关系, 为低脂肉鸡的早期选育奠定基础。5个微卫星引物一个未扩增出产物, 其余4个引物扩增出14个微卫星位点。各位点在高、低脂系中的基因频率经卡方检验, 一世代有一个基因座的基因频率差异显著 ($P < 0.05$); 二世代两个基因座差异显著; 三世代共检测到4个基因座差异显著。

Abstract: SSR fingerprints were analyzed in three generations of fat line (FL) and lean line (LL) of broiler chickens. Changes in gene frequencies of every locus were evaluated. Thus the relationship between SSR markers and VLDL (a trait representing fat mass of broiler), which is the basis for early selection of LL broiler, was examined. Fourteen microsatellite locus were successfully amplified with 4 of 5 primers used. The results of χ^2 test for the gene frequencies of every locus show that one locus was significantly different in generation 1 ($P < 0.05$), two in generation 2 and 4 in generation 3.

关键词 [肉鸡](#) [SSR指纹](#) [遗传相关](#) **Key words** [broiler](#) [SSR fingerprinting](#) [genetic correlation](#)

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