

蓖麻蚕DNA导入家蚕引起遗传变异的研究-基因组DNA的RAPD检测 RAPD Analysis of Hereditary and Variation of Domesticated Silkworm Generated by Introduction of Eri Silkworm DNA

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摘要 借助于精子介导, 在家蚕受精的过程中将蓖麻蚕DNA转入家蚕卵内, 从它们后代获得了新的变异品系。本文采用RAPD技术对这些品系基因组DNA进行了分析。结果表明, 所用50种10mer随机引物中有49个检测出DNA的多态性, 统计分析图谱中各类扩增带, 其中变异品系与其相应受体的差异带占其总带数的26~37%, 提示外源DNA导入受体后引起后代基因组的显著变异, 并对这些变异的意义的了讨论。

Abstract: With the aid of domesticated silkworm sperms, eri silkworm DNA was transferred into domesticated silkworm eggs during insemination, and variant strains were obtained from the progenies. Genomes of three new strains were analyzed using RAPD assay. Polymorphic fingerprints were obtained from 49 out of 50 primers. Different kinds of amplified bands in RAPD patterns were calculated and analyzed, the variant bands between variants and their recipients counted for 26~37% of the total bands of each variant. The results indicated that exogenous DNA introduced into recipients induced remarkable variation in progeny genomes. The significance of the variation was discussed.

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