

# 玉米cyclinIII基因的染色体原位杂交物理定位 The Physical Location of the Maize cyclin III Gene by in situ Hypbridization

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摘要 本文首次报道了玉米低拷贝基因 cyclinIII (B-类)生物素标记的染色体原位杂交定位结果。供试探针为该基因的cDNA克隆,其长度仅为1.6kb。结果表明, 探针的信号分布在第6染色体短臂和第9染色体长臂,与着丝粒的百分距离分别为 $70.05 \pm 3.31$ 和 $86.86 \pm 1.64$ , 检出率分别为8.29%和6.83%。文中对基因的物理位置与功能间的关系等作了讨论。

Abstract:A biotin-labelled in situ hybridization technique was used to physically map a low copy gene cyclinIII in maize.The cDNA clone was 1.7kb in size.The probe was hybridized onto the short arm of chromosome 6 and the long arm of chromosome 9.The percent distances from centromere to detection site were  $70.05 \pm 3.31$  and  $86.86 \pm 1.64$  respetively.The detection rates of in situ hybridization were 8.29 and 6.83 respectively,The relationship between the position and function of the genes is discussed in this paper.

关键词 [玉米](#) [cyclinIII基因](#) [染色体原位杂交](#) [生物素标记](#) Key words [Maize](#) [Gene cyclinIII](#) [Chromosome in situ hybridization](#) [Biotin labeling](#)

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## Abstract

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