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棉花耐盐性的SSR标记研究

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Studies of Salinity-tolerance with SSR Markers on *G.hirsutum* L.

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摘要 针对两个典型的棉花耐盐材料(中07和中棉所35)和两个典型的盐敏感材料(新研96-48和中棉所12), 开展了寻找与棉花耐盐有关的SSR标记的研究。利用3528对引物, 最终筛选出274对引物在4个材料间具有SSR多态性。其中, 有10对引物Y01、Y02、Y03、Y04、Y05、Y06、Y07、Y08、Y09、Y10在耐盐性不同的材料中扩增出差异性片段。扩增图谱显示, 同一引物在耐盐的中07和中棉所35中扩出的片段与盐敏感的新研96-48和中棉所12扩出的片段不同。初步研究结果认为, 这10对引物有望成为鉴定棉花耐盐性的标准引物, 从而将耐盐材料与盐敏感材料从分子角度鉴别开来, 为棉花耐盐性分子鉴定等研究提供参考。

关键词: 棉花 耐盐 SSR

Abstract: Two typical salinity tolerance varieties (Zhong 07 and CCRI 35) and two typical salinity sensitive varieties (Xinyan 96-48 and CCRI 12), were tested by SSR method in order to analyze the salinity-related SSR markers. 274 pairs of SSR primers with polymorphism on the four cotton varieties were screened from 3528 pairs of SSR primers. Especially, 10 pairs of them such as Y01, Y02, Y03, Y04, Y05, Y06, Y07, Y08, Y09, Y10 could distinguish salinity-tolerance varieties from salinity-sensitive varieties, each of those showed in the electrophoregram showed that the same primer amplified different DNA bands between the two salinity-tolerance varieties and the other two salinity-sensitive varieties, thus can identify salinity tolerance between different cotton varieties from molecular background. These results are useful to develop molecular identification method of salinity-tolerance about cotton germplasm.

Keywords: cotton salinity-tolerance SSR

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