عنوان مقاله:

Efficiency of CORAP markers in genetic diversity study of Triticum durum accessions

محل انتشار:

سومین کنگره بین المللی و پانزدهمین کنگره ملی ژنتیک ایران (سال: 1397)

تعداد صفحات اصل مقاله: 1

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خلاصه مقاله:

In order to evaluation of genetic diversity of 17 wheat accessions belonging to Triticum durum species using CORAP marker, and also the efficiency of this marker, three primers combination were studied. The allelic pattern was scored based on the presence (1) and absence (0) of bands, and a total numbers of 127 different segments were replicated and identified. In the AP2+A2 primers combination, of forty seven replicated segments with 584 bands across all accessions, thirty two alleles were polymorph. In CAT+A2 primers combination, of thirty seven replicated segments with 559 bands, only thirteen alleles were polymorph. In the third primer combination, Chl(a)+A2, of forty three segments with 589 bands, thirty alleles were polymorph. The mean of polymorphism information content was 0.95 with the maximum PIC (0.96) for AP2+A2 and Chl(a)+A2 primer pairs. However, the highest marker index was for the third primers combination (Ap2+A2) with MI equal 23.2. The dendrogram obtained from the cluster analysis grouped 17 different wheat accessions of Triticum durum into six main clads. In conclusion, the results of this experiment confirmed the effectiveness of CORAP primers used in the separation and grouping of Triticum durum accessions.

کلمات کلیدی:

CORAP marker, Durum wheat, Genetic variation