

عنوان مقاله:

Development of disomic single-locus DNA microsatellite markers for Persian sturgeon (*Acipenser persicus*) from Caspian Sea

محل انتشار:

کنگره ملی ذخایر ژنتیکی و زیستی (سال: 1390)

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خلاصه مقاله:

Information about the number of discrete genetic stocksof Persian sturgeon (*Acipenser persicus*) is necessary for management of this commercially important species. Disomic DNA microsatellite markers are among the best tools for determining stock structure in fishes. However, because of the polyploid ancestry of all sturgeons, most loci exhibit more than two alleles per individual, prohibiting the use of powerful analytical methods that assume disomic inheritance. We scored products from 37 sets of microsatellite primers developed in lake sturgeon (*Acipenser fulvescens*) and one set of Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*) to determine whether they would amplify disomic loci in Persian sturgeon. Thirty six loci (95%) were successfully amplified in Persian sturgeon. We scored one monomorphic locus, 12 as being disomic, 19 tetrasomic, three octosomic, and one as ambiguous. This is the first report on development of disomic single-locus DNA microsatellite markers for Persian sturgeon. These loci could be used to characterize various geographical populations of the Persian sturgeon in their native ecosystem such as the Caspian Sea.

کلمات کلیدی:

Acipenser persicus, Caspian Sea, single locus DNA microsatellite markers

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