

Isolation, characterization and inheritance of polymorphic microsatellite loci in the olive flounder (*Paralichthys olivaceus*)

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We described the isolation, characterization and inheritance of twenty-seven microsatellite loci from olive flounder, *Paralichthys olivaceus*. All loci were found to be polymorphic, and had between five and 22 alleles with observed heterozygosity ranging from 0.161 to 1.0 in 31 individuals examined. Allele segregation patterns of all loci in controlled crosses of flounder were studied to assess the inheritability. Allele of all but 3 loci were segregated according to Mendelian transmission. However, 3 loci had a possibility of scoring errors of heterozygous individuals caused by unreproducible PCR amplification of a particular allele. 24 microsatellite loci are likely to be useful for studies of genome mapping, mating systems and population genetics in this species.

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