



Characterization of new microsatellite markers of *Siganus fuscescens* (Siganidae)

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ABSTRACT. *Siganus fuscescens*, which is a small commercially important marine fish, is widely distributed in shallow waters throughout the tropical and subtropical Indo-Pacific and Eastern Mediterranean regions. It is part of a group known as rabbitfish. Fifteen new polymorphic microsatellite markers for *S. fuscescens* were identified, and 32 wild individuals were used to evaluate the degree of polymorphism of these markers. The number of alleles per locus ranged from 2 to 12, and the polymorphism information content ranged from 0.210 to 0.849. The observed and expected heterozygosities were 0.142-0.808 and 0.225-0.853, respectively. Although significant deviations from Hardy-Weinberg equilibrium were detected at 2 loci (Sf1-37-2 and Sf1-47), no significant deviations were detected at the other 13 loci. These microsatellite markers will provide a useful tool for studies on genetic diversity and differentiation of *S. fuscescens*.

Key words: Genetic markers; *Siganus fuscescens*; Microsatellite; Magnetic bead enrichment