



Novel polymorphic microsatellite markers isolated from the pen shell *Atrina pectinata* (Mollusca: Bivalvia: Pinnidae)

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ABSTRACT. In this study, we isolated 21 novel polymorphic microsatellite DNA loci from the pen shell *Atrina pectinata* using magnetic-bead hybridization enrichment. The characteristics of these loci were tested using a population of 30 individuals collected from the Penglai coast, Shandong Province. The number of alleles ranged from 2 to 13, and polymorphism information content (PIC) varied from 0.1730 to 0.8954. Values for observed heterozygosity (H_o) and expected heterozygosity (H_e) ranged from 0.0714 to 0.9231 and from 0.1948 to 0.9237, respectively. Four loci deviated significantly from Hardy-Weinberg equilibrium. The newly developed microsatellite markers will be beneficial in assessing the genetic diversity, population structure and genetic conservation of *A. pectinata*, and in other relevant research.

Key words: *Atrina pectinata*; Microsatellite loci; Polymorphic