

Identification of Mx Gene Polymorphism in Indragiri Hulu duck by PCR-RFLP

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Abstract : The amino acid variation of Asn (allele A) at position 631 in Mx gene was specific to positive antiviral to avian viral disease. This research was aimed at identifying polymorphism of Mx gene in duck using molecular technique. Polymerase Chain Reaction-Restriction Fragment Length Polymorphism (PCR-RFLP) technique was used to select the genotype of AA, AG and GG. There were thirteen duck from Indragiri Hulu regency (Riau Province) used in this experiment. DNA amplification results showed that the Mx gene in duck is found in a 73 bp fragment. Mx gene in duck did not show any polymorphism. The frequency of the resistant allele (AA) was 0%, while the frequency of the susceptible allele (GG) was 100%.

Keywords : duck, Mx gene, PCR, RFLP

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