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Nucleotide Sequence and Sequence Comparison of the Repeat Sequence 529 (R529) of an Indonesian Toxoplasma Gondii Isolate

Abstract

Toxoplasmosis is one of the most common parasitic diseases in humans and other warm-blooded animals. In many species of animals, severe disease may result in disastrous effects and important economic consequences. In humans, infections are usually asymptomatic but severe disease can occur in immunocompromized individuals and newborns. Owing to the importance of the disease, the availability of efficient and sensitive early diagnosis is of capital importance. Toxoplasma gondii genome contains repeat sequences and due to their multiple copy number, they constitute ideal targets for genome-based detection methods. The repeat sequence 529 (R529) exhibits the highest copy number within the genome, ranging from 200 to 300 copies. To develop efficient R529-based diagnosis, it is important to establish its exact nucleotide sequence. We have isolated and amplified the R529 gene from an Indonesian isolate and determined its nucleotide sequence. Sequence comparison was done with two other R529 sequences. Variations were observed.

Keyword : Diagnosis, Indonesian, isolate, repeats, sequence, R529, sequence, comparison, Toxoplasma, gondii,

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