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ACCEPTED MANUSCRIPT

Protective immunity against *Eimeria maxima* induced by vaccines of Em14-3-3 antigen

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Highlights

- The subunit and DNA vaccines encoding Em14-3-3 were constructed.
- Em14-3-3 could elicit both humoral and cell-based immune responses
- The immunization with rEm14-3-3 and pVAX1-14-3-3 induced IFN- γ and TGF- β cytokine levels
- Em14-3-3 could be used as an effective antigen candidate for developing vaccines against *E. maxima*.

Abstract

Eimeria maxima 14-3-3 (Em14-3-3) open reading frame (ORF) which consisted of 861 bp encoding a protein of 286 amino acids was successfully amplified and sequenced. Subsequently, the Em14-3-3 ORF was subcloned into pET-32a (+) and pVAX1, respectively. RT-PCR and immunoblot analyses confirmed that the target

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