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Identification of a clip domain serine proteinase involved in immune defense in Chinese mitten crab *Eriocheir sinensis*

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Abstract

Clip-domain serine proteinase is an important serine proteinase family involved in many biological processes, which is only found in invertebrates. In the present study, the full-length cDNA of a clip domain serine proteinase (designed as *EsCDSP*) gene was cloned from Chinese mitten crab *Eriocheir sinensis* using rapid amplification of cDNA ends (RACE) technique. It was of 1488 bp with an open reading frame (ORF) of 1134 bp encoding a polypeptide of 377 amino acids. There were a signal peptide, a clip domain, and a Tryp_SPc domain in the deduced amino acid sequences of *EsCDSP*. Highly conserved cysteine residues were identified in the clip domain and Tryp_SPc

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