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A Prokineticin (PK)-like cytokine from Chinese mitten crab *Eriocheir sinensis* promotes the production of hemocytes via reactive oxygen species

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16 **Abstract**

17 Astakine is a cytokine-like factor containing a prokineticin domain, which directly
18 participates in hematopoiesis and blood cell differentiation. In the present study, a
19 novel Astakine gene was identified from Chinese mitten crab *Eriocheir sinensis*
20 (designated as *EsAst*). The full-length cDNA of *EsAst* was of 1163 bp, consisting of a
21 5' untranslated region (UTR) of 120 bp, a 3' UTR of 656 bp, and an open reading
22 frame (ORF) of 387 bp encoding a polypeptide of 128 amino acids. There were a

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