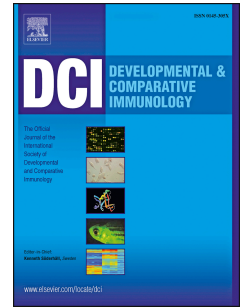


Accepted Manuscript

Chinese mitten crab (*Eriocheir sinensis*) iron-sulphur cluster assembly protein 2 (*EslscA2*) is differentially regulated after immune and oxidative stress challenges

Peng Zhang, Yu Liu, Min Wang, Miren Dong, Zhaoqun Liu, Zhihao Jia, Weilin Wang, Anguo Zhang, Lingling Wang, Linsheng Song



PII: S0145-305X(17)30649-3

DOI: [10.1016/j.dci.2018.03.007](https://doi.org/10.1016/j.dci.2018.03.007)

Reference: DCI 3123

To appear in: *Developmental and Comparative Immunology*

Received Date: 6 December 2017

Revised Date: 7 March 2018

Accepted Date: 8 March 2018

Please cite this article as: Zhang, P., Liu, Y., Wang, M., Dong, M., Liu, Z., Jia, Z., Wang, W., Zhang, A., Wang, L., Song, L., Chinese mitten crab (*Eriocheir sinensis*) iron-sulphur cluster assembly protein 2 (*EslscA2*) is differentially regulated after immune and oxidative stress challenges, *Developmental and Comparative Immunology* (2018), doi: 10.1016/j.dci.2018.03.007.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Chinese mitten crab (*Eriocheir sinensis*) iron-sulphur cluster assembly protein 2
(*EsIscA2*) is differentially regulated after immune and oxidative stress challenges

Peng Zhang^{1,2}, Yu Liu¹, Min Wang¹, Miren Dong¹, Zhaoqun Liu¹, Zhihao Jia², Weilin
Wang¹, Anguo Zhang¹, Lingling Wang^{1,2,3}, Linsheng Song^{1,2,3*}

¹Liaoning Key Laboratory of Marine Animal Immunology, Dalian Ocean University,
Dalian 116023, China

²Laboratory of Marine Fisheries Science and Food Production Processes, Qingdao
National Laboratory for Marine Science and Technology, Qingdao 266235, China

³Liaoning Key Laboratory of Marine Animal Immunology and Disease Control,
Dalian Ocean University, Dalian 116023, China

Abstract

Iron-sulphur clusters (ISCs), one of the oldest and most versatile cofactors of proteins, are involved in catalysis reactions, electron transport reactions, regulation processes as well as sensing of ambient conditions. Iron-sulphur cluster assembly protein (IscA) is a scaffold protein member of ISC formation system, which plays a significant role in the assembly and maturation process of ISC proteins. In the present study, the cDNA sequence of iron-sulphur cluster assembly protein 2 (designated as *EsIscA2*) was cloned from *Eriocheir sinensis*. The open reading frame (ORF) of *EsIscA2* was of 507 bp, encoding a peptide of 168 amino acids with a typically conserved Fe-S domain. A tetrameric form was predicated by the SWISS-MODEL

Download English Version:

<https://daneshyari.com/en/article/8497737>

Download Persian Version:

<https://daneshyari.com/article/8497737>

[Daneshyari.com](https://daneshyari.com)