

# Accepted Manuscript

Effects of a recombinant complement component C3b functional fragment  $\alpha_2$ MR ( $\alpha_2$ -macroglobulin receptor) additive on the immune response of juvenile orange-spotted grouper (*Epinephelus coioides*) after the exposure to cold shock challenge

Sheng-Wei Luo, Luo Cai, Zeng-Hua Qi, Cong Wang, Yuan Liu, Wei-Na Wang

PII: S1050-4648(15)00177-1

DOI: [10.1016/j.fsi.2015.04.019](https://doi.org/10.1016/j.fsi.2015.04.019)

Reference: YFSIM 3416

To appear in: *Fish and Shellfish Immunology*

Received Date: 16 February 2015

Revised Date: 4 April 2015

Accepted Date: 16 April 2015

Please cite this article as: Luo S-W, Cai L, Qi Z-H, Wang C, Liu Y, Wang W-N, Effects of a recombinant complement component C3b functional fragment  $\alpha_2$ MR ( $\alpha_2$ -macroglobulin receptor) additive on the immune response of juvenile orange-spotted grouper (*Epinephelus coioides*) after the exposure to cold shock challenge, *Fish and Shellfish Immunology* (2015), doi: 10.1016/j.fsi.2015.04.019.

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.



1 **Effects of a recombinant complement component C3b functional fragment  $\alpha_2$ MR**  
2 **( $\alpha_2$ -macroglobulin receptor) additive on the immune response of juvenile**  
3 **orange-spotted grouper (*Epinephelus coioides*) after the exposure to cold**  
4 **shock challenge**

5

6

7 Sheng-Wei Luo<sup>a</sup>, Luo Cai<sup>a</sup>, Zeng-Hua Qi<sup>a</sup>, Cong Wang<sup>b</sup>, Yuan Liu<sup>a</sup>, Wei-Na Wang<sup>a\*</sup>

8

9 <sup>a</sup>Key Laboratory of Ecology and Environmental Science in Guangdong Higher Education, Guangdong  
10 Provincial Key Laboratory for Healthy and Safe Aquaculture, College of Life Science, South China  
11 Normal University, Guangzhou 510631, PR China

12 <sup>b</sup>Agricultural University of Hebei, Baoding PR 071001, China

13

---

\* Corresponding author. College of Life Science, South China Normal University, Guangzhou  
510631, PR China Tel./fax: +86 20 8521 7322.

E-mail address: [wangwn@scnu.edu.cn](mailto:wangwn@scnu.edu.cn) ; [weina63@aliyun.com.cn](mailto:weina63@aliyun.com.cn) (W.-N. Wang)

Download English Version:

<https://daneshyari.com/en/article/10971813>

Download Persian Version:

<https://daneshyari.com/article/10971813>

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