

Accepted Manuscript

Alpha-2-macroglobulin is a modulator of prophenoloxidase system in pacific white shrimp *Litopenaeus vannamei*

Sirikwan Ponprateep, Tipachai Vatanavicharn, Chu Fang Lo, Anchalee Tassanakajon, Vichien Rimphanitchayakit



PII: S1050-4648(16)30791-4

DOI: [10.1016/j.fsi.2016.12.028](https://doi.org/10.1016/j.fsi.2016.12.028)

Reference: YFSIM 4369

To appear in: *Fish and Shellfish Immunology*

Received Date: 20 October 2016

Revised Date: 16 December 2016

Accepted Date: 22 December 2016

Please cite this article as: Ponprateep S, Vatanavicharn T, Lo CF, Tassanakajon A, Rimphanitchayakit V, Alpha-2-macroglobulin is a modulator of prophenoloxidase system in pacific white shrimp *Litopenaeus vannamei*, *Fish and Shellfish Immunology* (2017), doi: 10.1016/j.fsi.2016.12.028.

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.

Alpha-2-macroglobulin is a modulator of prophenoloxidase system in pacific white

shrimp *Litopenaeus vannamei*

Sirikwan Ponprateep^{a*}, Tipachai Vatanavicharn^b, Chu Fang Lo^c, Anchalee Tassanakajon^d,
Vichien Rimphanitchayakit^{d*}

^a Department of Chemistry, Faculty of Science, Srinakharinwirot University, 114 Sukhumvit
23 Road, Bangkok 10110, Thailand

^b Applied Analytical Chemistry Research Unit, Department of Chemistry, Faculty of Science,
King Mongkut's Institute of Technology Ladkrabang, Chalongkrung Road, Bangkok 10520,
Thailand

^c Institute of Bioinformatics and Biosignal Transduction, College of Bioscience and
Biotechnology, National Cheng Kung University, Tainan 701, Taiwan

^d Center of Excellence for Molecular Biology and Genomics of Shrimp, Department of
Biochemistry, Faculty of Science, Chulalongkorn University, Phyathai Road,
Bangkok 10330, Thailand

* Corresponding author: Tel.: (+66)-2-649-5000x18257; fax: (+66)-2-260-0128 (S. Ponprateep). Tel.:
(+66)-2-2185436; fax: (+66)-2-2185418 (V. Rimphanitchayakit).

E-mail addresses: sirikwanp@g.swu.ac.th (S. Ponprateep), kpvr2@yahoo.com (V.
Rimphanitchayakit)

Download English Version:

<https://daneshyari.com/en/article/5540551>

Download Persian Version:

<https://daneshyari.com/article/5540551>

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