

Supplementary materials
For
A Novel Antimicrobial Peptide Sparanegtin identified in
***Scylla paramamosain* showing antimicrobial activity and**
immunoprotective role *in vitro* and *vivo*

Xuewu Zhu¹, Fangyi Chen^{1,2,3}, Shuang Li¹, Hui Peng^{1,2,3}, Ke-Jian Wang^{1,2,3,*}

1State Key Laboratory of Marine Environmental Science, College of Ocean & Earth Sciences, Xiamen University, Xiamen, Fujian, China

2State-Province Joint Engineering Laboratory of Marine Bioproducts and Technology, College of Ocean & Earth Sciences, Xiamen University, Xiamen, Fujian, China

3Fujian Innovation Research Institute for Marine Biological Antimicrobial Peptide Industrial Technology, College of Ocean & Earth Sciences, Xiamen University, Xiamen, Fujian, China

* Correspondence: Ke-Jian Wang

College of Ocean & Earth Sciences, Xiamen University, Xiamen, Fujian 361102, PR China.

E-mail: wkjian@xmu.edu.cn (K.J. Wang)

Table and Figures

Table S1 Sequences of primers used in the study.

Primers	Sequence (5'-3')
<i>Sp</i> Toll2-qPCR-F	GTCCTCTCGTCCAGCTTCATTGAGA
<i>Sp</i> Toll2-qPCR-R	CAGGTGGATCTGCCATAGACAAT
<i>Sp</i> STAT-qPCR-F	TATATGGCTGAACCGGCACC
<i>Sp</i> STAT-qPCR-R	AGCAAGCGAGTGATGTGTGA
<i>Sp</i> Hyastatin-qPCR-F	TTACAACGCGAAGGTTCCGA
<i>Sp</i> Hyastatin-qPCR-R	GGCTTGGTGCCTACTCCAAT

<i>Sp</i> ALF2-qPCR-F	CGCGTGTGATGCTTCTCGT
<i>Sp</i> ALF2-qPCR-R	ACCACACGTCTCCCTGAAGT
<i>Sp</i> Myd88- qPCR-F	AGAATACGGAACTGTCTGGGT
<i>Sp</i> Myd88-qPCR-R	TGGTGACTGTGATGGAGATGGT
<i>Sp</i> CAT-qPCR-F	CAACACTCCCATCTTCATCAGG
<i>Sp</i> CAT-qPCR-R	TGTTGTTCTGGACCGAGGTGAT
<i>Sp</i> SOD-qPCR-F	GGGGATGGAAACAACCTCTGGAT
<i>Sp</i> SOD-qPCR-R	GGTGCCTGGTTAAATACACGGTGC
<i>Sp</i> GPx-qPCR-F	GCAACCCAGTCAAGAGATTCAAGC
<i>Sp</i> GPx-qPCR-R	AGGATGCAAGGAGGTGCTTCTG

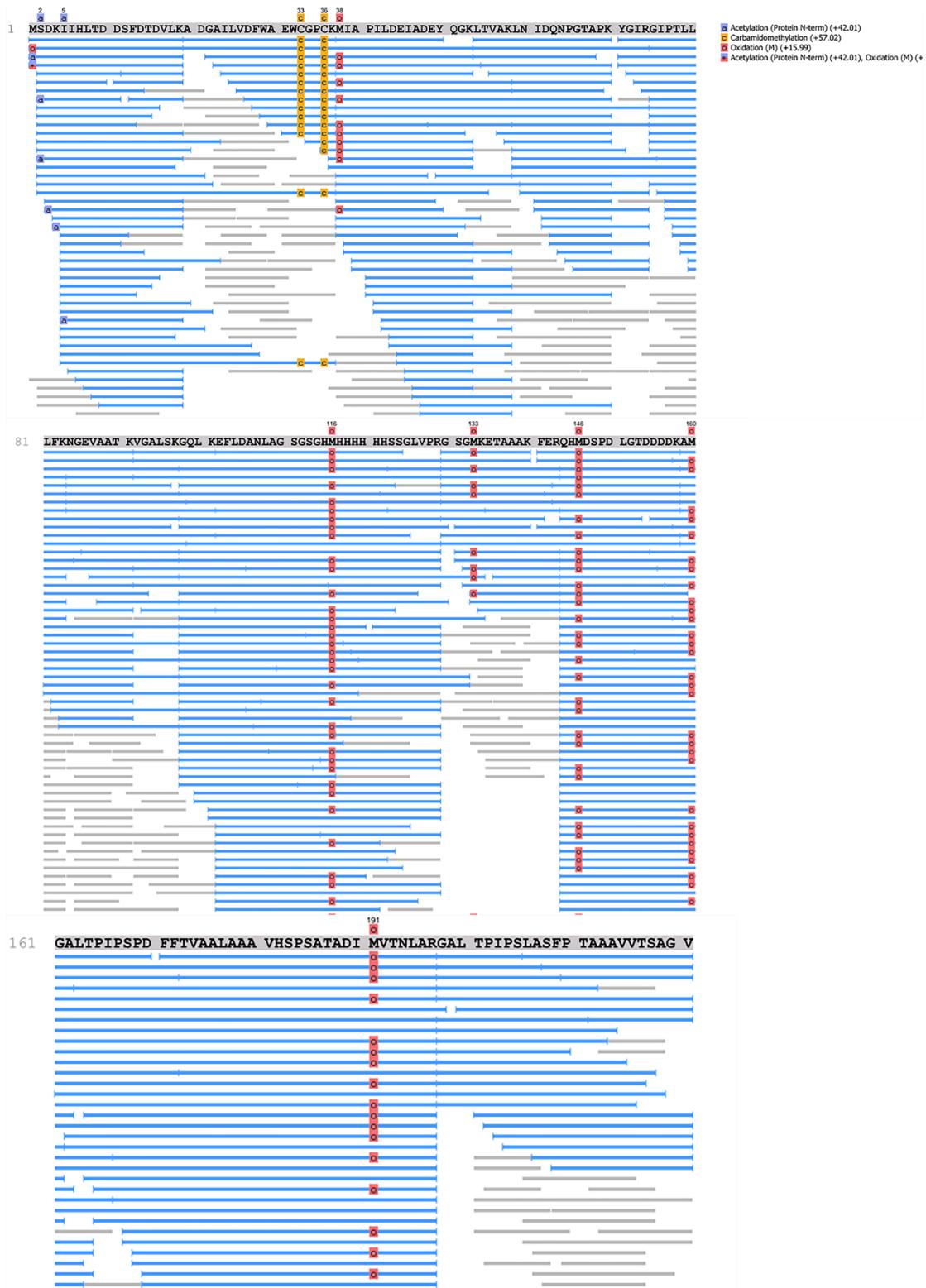


Figure S1 Mass spectrometry analysis of rSparanegtin.