

研究简报

## 日本血吸虫童虫cDNA文库免疫学筛选及阳性克隆的初步鉴定

段新伟<sup>1</sup>,傅颖慧<sup>3</sup>,卢艳<sup>2</sup>,黄成玉<sup>1</sup>,鞠川<sup>2</sup>,徐斌<sup>2</sup>,许学年<sup>2</sup>,冯正<sup>2</sup>,胡薇<sup>2</sup> \*

1 华东理工大学生物工程学院, 上海 200237; 2 中国疾病预防控制中心寄生虫病预防控制所, 世界卫生组织疟疾、血吸虫和丝虫病合作中心, 卫生部寄生虫病原与媒介生物学重点实验室, 上海 200025; 3 上海交通大学医学院, 上海200025

收稿日期 修回日期 网络版发布日期 接受日期

摘要

用日本血吸虫感染14 d的小鼠血清免疫筛选日本血吸虫童虫cDNA文库, 将获得的7个阳性克隆进行核苷酸序列同源性分析, 结果显示其中一个克隆所测序列与日本血吸虫HSP70有很高的同源性(分值 score=650), 另有2个克隆所测序列分别与已报道的日本血吸虫FABP (score=229) 和含锌指结构的CDGSH型蛋白样蛋白 (score=246) 明显同源, 其余4个未找到已知的同源序列, 为新基因。4个新基因序列已被GenBank接受(登录号为EU121231、202646、202647和202648)。

关键词

[日本血吸虫](#) [童虫](#) [cDNA文库](#) [免疫筛选](#) [抗原基因](#)

分类号

## Immunoscreening and Identification of *Schistosoma japonicum* Juvenile cDNA Library

DUAN Xin-wei<sup>1</sup>,FU Ying-hui<sup>3</sup>,LU Yan<sup>2</sup>,HUANG Cheng-yu<sup>1</sup>,JU Chuan<sup>2</sup>, XU Bin<sup>2</sup>,XU Xue-nian<sup>2</sup>,FENG Zheng<sup>2</sup>,HU Wei<sup>2</sup> \*

1 Biotechnology School, East China University of Science and Technology, Shanghai 200237, China; 2 National Institute of Parasite Diseases, Chinese Center for Disease Control and Prevention, WHO Collaborating Centre for Malaria, Schistosomiasis and Filariasis, Shanghai 200025, China; 3 Shanghai Jiaotong University School of Medicine, Shanghai 200025, China

Abstract

The cDNA library of *Schistosoma japonicum* (Sj) juveniles was immunoscreened with the anti-serum from day 14 post-infection mice. The inserts of the seven positive clones were sequenced and analyzed for their homology in GenBank database. Results showed that one was highly homologous to the SjHSP70 (score=650), two were significantly homologous to the SjFABP (score=229) and Sj CDGSH-type Zn finger-containing protein-like protein (score=246), and the other four were not homologous to genes in GenBank and thus identified as Sj novel genes. The sequences of the novel genes were submitted to GenBank and the accession numbers were obtained (EU121231, 202646, 202647 and 202648).

Key words [Schistosoma japonicum](#) [Schistosomula](#) [cDNA library](#) [Immunoscreening](#) [Antigen gene](#)

DOI:

通讯作者

作者个人主页 段新伟<sup>1</sup>;傅颖慧<sup>3</sup>;卢艳<sup>2</sup>;黄成玉<sup>1</sup>;鞠川<sup>2</sup>;徐斌<sup>2</sup>;许学年<sup>2</sup>;冯正<sup>2</sup>;胡薇<sup>2</sup> \*

扩展功能
本文信息
▶ <a href="#">Supporting info</a>
▶ <a href="#">PDF (246KB)</a>
▶ <a href="#">[HTML全文](OKB)</a>
▶ <a href="#">参考文献[PDF]</a>
▶ <a href="#">参考文献</a>
服务与反馈
▶ <a href="#">把本文推荐给朋友</a>
▶ <a href="#">加入我的书架</a>
▶ <a href="#">加入引用管理器</a>
▶ <a href="#">复制索引</a>
▶ <a href="#">Email Alert</a>
▶ <a href="#">文章反馈</a>
▶ <a href="#">浏览反馈信息</a>
相关信息
▶ <a href="#">本刊中 包含 “</a>
<a href="#">日本血吸虫” 的相关文章</a>
▶ 本文作者相关文章
· <a href="#">段新伟</a>
· <a href="#">傅颖慧</a>
· <a href="#">卢艳</a>
· <a href="#">黄成玉</a>
· <a href="#">鞠川</a>
· <a href="#">徐斌</a>
· <a href="#">许学年</a>
· <a href="#">冯正</a>
· <a href="#">胡薇</a>