



Molecular clone constructed by the fragment of chromosomal DNA from *Helicobacter pylori*

Xiu-Ying Pan, Wen-Yu Lin, Shen-Wu Wang, Guo-Dong Cao, Yong Liu

Xiu-Ying Pan, Wen-Yu Lin, Shen-Wu Wang, Guo-Dong Cao, Yong Liu, Department of People's Hospital, Beijing Medical University, Beijing 100044, China

Author contributions: All authors contributed equally to the work.

Correspondence to: Dr. Xiu-Ying Pan, Department of People's Hospital, Beijing Medical University, Beijing 100044, China

Received: June 28, 1998
Revised: August 7, 1998
Accepted: August 29, 1998
Published online: October 15, 1998

Abstract

AIM: *Helicobacter pylori* (Hp) was related to chronic gastritis and peptic ulcer. The fragment of chromosomal DNA from Hp amplified by PCR was cloned, which is significant on the basic research and clinical test for the positive control.

METHODS: Primer pairs were designed from the fragment of

Hp chromosome and the fragment was amplified by PCR, then the amplified product was inserted to pBluescript SK vector and transformed into *E. coli* DH5 α . The constructed clone of Hp DNA was certified by PCR, restriction endonuclease digestion and DNA sequencing.

RESULTS: PCR product was shown to be 203 bp electronic band, consistent to that of Hp standard strain. Analysis of Hp-DNA sequence was similar to known Hp sequence.

CONCLUSION: The Hp DNA clone is used as the positive control in the Hp test.

Key words: *Helicobacter pylori*; DNA, bacterial; Molecular cloning; Chromosome

© The Author(s) 1998. Published by Baishideng Publishing Group Inc. All rights reserved.

Pan XY, Lin WY, Wang SW, Cao GD, Liu Y. Molecular clone constructed by the fragment of chromosomal DNA from *Helicobacter pylori*. *World J Gastroenterol* 1998; 4(Suppl2): 105 Available from: URL: <http://www.wjgnet.com/1007-9327/full/v4/iSuppl2/105.htm> DOI: <http://dx.doi.org/10.3748/wjg.v4.iSuppl2.105>

E- Editor: Li RF



Published by **Baishideng Publishing Group Inc**
8226 Regency Drive, Pleasanton, CA 94588, USA
Telephone: +1-925-223-8242
Fax: +1-925-223-8243
E-mail: bpgoffice@wjgnet.com
Help Desk: <http://www.wjgnet.com/esps/helpdesk.aspx>
<http://www.wjgnet.com>

