World Journal of Gastroenterology

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World J Gastroenterol 2000 September 15; 6(Suppl 3): 45
ISSN 1007-9327 (print) ISSN 2219-2840 (online)

Cloning of gcys-18 overexpressed in Chinese gastric carcinoma and its clinical significance

Da-Xiang Cui, Xiao-Jun Yan, Li Zhang, Yang-Hai Guo, Jun-Rong Xu, Yu Hou, Ling-Xia Zhang, Cheng-Zhi Su, Ning-Xia Zhang

Da-Xiang Cui, Xiao-Jun Yan, Yang-Hai Guo, Yu Hou, Cheng-Zhi Su, Chinese PLA Institute of Gene Diagnosis, Fourth Military Medical University, Xi'an 710033, Shaanxi Province, China

Li Zhang, Jun-Rong Xu, Ling-Xia Zhang, Ning-Xia Zhang, Department of Digestion of Xi'an Municipal Central Hospital, Xi'an 710003, Shaanxi Province, China

Author contributions: All authors contributed equally to the work.

Supported by the National Natural Science Foundation of China, No. 39900177

Correspondence to: Da-Xiang Cui, Chinese PLA Institute of Gene Diagnosis, Fourth Military Medical University, Xi'an 710033, Shaanxi Province, China

Received: November 8, 1999
Revised: June 2, 2000
Accepted: July 10, 2000
Published online: September 15, 2000

Abstract

AIM: To isolate, clone and sequence gcys-18 overexpressed in gastric carcinoma.

METHODS: gcys-18 was isolated from differential display gel between GC7901 and GES-1 by mRNA differential display PCR, and was cloned into T vector. As a probe gcys-18 was hybridized to total RNAs of GC7901 and GES-1, and was sequenced. Its sequence was screened against GeneBank. According to the obtained sequence, a pair of primers were designed and used to examine 26 specimens of gastric cancers and corresponding paracancerous tissues by quantitative reverse transcriptase PCR.

RESULTS: gcys-18 was isolated and cloned, and confirmed to be expressed higher in GC7901 than in GES-1 by RNA dot blot; gcys-18 was 416 bp, and partly similar to HEK5, and its accepted number in GeneBank was AF071057; 18 out of 26 specimens of gastric cancers and 2 out of correspon ding paracancerous tissues were examined by RT-PCR.

CONCLUSION: gcys-18 may be an important expressed sequence tag in gastric cancer, and takes part in progression of gastric carcinoma.

Key words: Stomach neoplasm; Differential display; Polymerase chain reaction; Gene

Cui DX, Yan XJ, Zhang L, Guo YH, Xu JR, Hou Y, Zhang LX, Su CZ, Zhang NX. Cloning of gcys-18 overexpressed in Chinese gastric carcinoma and its clinical significance. *World J Gastroenterology* 2000; 6(Suppl 3): 45 Available from: URL: http://www.wjgnet.com/1007-9327/full/v3/iSuppl3/45.htm DOI: http://dx.doi.org/10.3748/wjg.v3.iSuppl3.45

E- Editor: Hu S

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