

Accepted Manuscript

Title: High-sensitive colorimetric biosensing of *PIK3CA* gene mutation based on mismatched ligation-triggered cascade strand displacement amplification

Authors: Chenlan Shen, Bo Shen, Fei Mo, Xiaoyan Zhou, Xiaolei Duan, Xiaotong Wei, Jia Li, Yu Duan, Wei Cheng, Shijia Ding



PII: S0925-4005(18)31146-8
DOI: <https://doi.org/10.1016/j.snb.2018.06.041>
Reference: SNB 24878

To appear in: *Sensors and Actuators B*

Received date: 16-2-2018
Revised date: 15-5-2018
Accepted date: 7-6-2018

Please cite this article as: Shen C, Shen B, Mo F, Zhou X, Duan X, Wei X, Li J, Duan Y, Cheng W, Ding S, High-sensitive colorimetric biosensing of *PIK3CA* gene mutation based on mismatched ligation-triggered cascade strand displacement amplification, *Sensors and Actuators: B. Chemical* (2018), <https://doi.org/10.1016/j.snb.2018.06.041>

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.

High-sensitive colorimetric biosensing of *PIK3CA* gene mutation based on mismatched ligation-triggered cascade strand displacement amplification

Chenlan Shen^{a,b,1}, Bo Shen^{c,1}, Fei Mo^{b,1}, Xiaoyan Zhou^b, Xiaolei Duan^b, Xiaotong Wei^b, Jia Li^b, Yu Duan^b, Wei Cheng^{a,*}, Shijia Ding^{b,*}

^a The Center for Clinical Molecular Medical detection, The First Affiliated Hospital of Chongqing Medical University, Chongqing 400016, P.R. China

^b Key Laboratory of Clinical Laboratory Diagnostics (Ministry of Education), College of Laboratory Medicine, Chongqing Medical University, Chongqing 400016, P.R. China

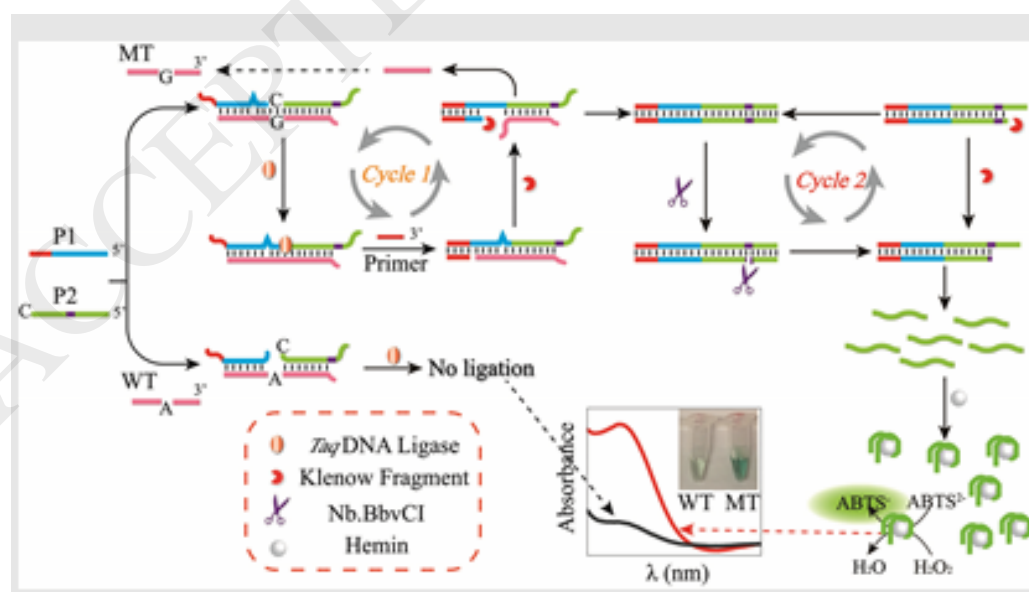
^c Department of Laboratory Medicine, Chongqing Traditional Chinese Medicine Hospital, Chongqing, 400021, P.R. China

* Corresponding author. Tel./Fax: +86-23-89011816.

Email: chengwei@hospital.cqmu.edu.cn (w. Cheng) and dingshijia@163.com (S.J. Ding)

¹ These authors contributed equally to this work.

Graphical Abstract



As low as 0.2% *PIK3CA*^{H1047R} mutation could be detected.

Download English Version:

<https://daneshyari.com/en/article/7138762>

Download Persian Version:

<https://daneshyari.com/article/7138762>

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