Reviewer’s report

Title: Accurate Detection of KRAS, NRAS and BRAF Mutations in Metastatic Colorectal Cancers by Bridged Nucleic Acid-Clamp Real-Time PCR

Version: 0 Date: 26 Jun 2019

Reviewer: Takao Iida

Reviewer's report:

RE: Ms.No. MGNM-D-19-0188

Title: Rapid Detection of KRAS, NRAS and BRAF Mutations in Metastatic Colorectal Cancers by Bridged Nucleic Acid-Clamp Real-Time PCR

The authors evaluated BNA-clamp PCR method by detection of KRAS, NRAS and BRAF mutations in colorectal cancer and comparing with PCR-rSSO method. The overall concordance rate between the two methods was 94% and the BNA-clamp PCR results of three discrepancy between the two methods were consistent with the next generation sequencing results. BNA-clamp PCR method has several advantages compared with PCR-rSSO method.

However, the manuscript is not meet requirement of Submission Guidelines in BMC Medical Genomics because the abstract doesn't include Methods section. There is no evidence shown that the BNA-clamp PCR has high sensitivity and accuracy for the detection of BRAF mutations in colorectal cancer.

Therefore I cannot recommend the paper for publication in the journal.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

No
Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
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Not relevant to this manuscript

**Quality of written English**
Please indicate the quality of language in the manuscript:

Acceptable

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