

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 81899

Title: TAF15 TATA-box-binding protein-associated factor 15 is a Novel Biomarker that Promotes Cell Proliferation and Migration in Gastrointestinal Stomal Tumors

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06477977

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: China

Manuscript submission date: 2022-11-28

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-01-06 11:35

Reviewer performed review: 2023-01-06 13:11

Review time: 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This study initially implements a proteomic analysis to find new molecular therapeutic targets for GIST and discusses the expression level and underlying biological function of TAF15 in GIST. It point out that TAF15 would be a novel molecular biomarker for therapeutic targets of GIST. This brings new hope for the treatment of GIST. It's an interesting research direction.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 81899

Title: TAF15 TATA-box-binding protein-associated factor 15 is a Novel Biomarker that Promotes Cell Proliferation and Migration in Gastrointestinal Stomal Tumors

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 04737092

Position: Peer Reviewer

Academic degree: PhD

Professional title: Research Scientist

Reviewer's Country/Territory: India

Author's Country/Territory: China

Manuscript submission date: 2022-11-28

Reviewer chosen by: Jia-Ru Fan

Reviewer accepted review: 2023-03-14 11:04

Reviewer performed review: 2023-03-22 06:50

Review time: 7 Days and 19 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

SPECIFIC COMMENTS TO AUTHORS

The study entitled "TATA-box-binding protein-associated factor 15 is a Novel Biomarker that Promotes Cell Proliferation and Migration in Gastrointestinal Stomal Tumors" by Dr. Liuye Huang and co-workers is a promising effort towards the discovery of novel therapeutic targets for GISTs (Gastrointestinal Stomal Tumors) and to understand the molecular mechanism of TAF15 (TATA-box-binding protein-associated factor 15) in GIST progression. After evaluating the manuscript, I have the following queries/comments: 1. Why were other targets showing higher fold-change or statistical significance (Table-2) not considered? Was the selection of TAF15 as a target premeditated even before the execution of the study and start of experiments? If the decision was based on prior reported literature, a stronger justification must be provided, with support from relevant references. 2. In the methodology, it is stated that the human subjects were enrolled between March 2020 to June 2022. When was the Ethical clearance for use of human subjects/material taken from the relevant authorities/Committee? At present the document No.2022-48 submitted pertains to use of animals and not human subjects and is dated 13th May 2022. It must be provided, clearly showing that the Ethical clearance was obtained BEFORE sample collection. 3. The Core Tip matches exactly with sentences in the Abstract section, it may be re-worded emphasizing on the gist and key takeaways from the study. 4. Few sentences in the last paragraph of the Introduction section describing the results & data may be removed. 5. In Discussion, more information about previous studies on GIST including other biomarkers/ targets must be included with references. Also, some more information on FAT15 may be included either in the Introduction or Discussion section. 6. Conclusion section needs major changes; the last few sentences of this section need to be broken into two or more

separate sentences. 7. While the methodology and data presented in the results section study look interesting, the authors may consider revising or rewriting other sections of the manuscript to enhance its quality. At present, there are several grammatical errors and few sentences look incomplete. For example (specific to the entire text of the manuscript): a). At several points throughout the manuscript, there is a confusion on the plural or singular form of GIST and the subsequent use of "is" or "are". It is recommended that GIST may be referred to the singular form, followed by use of "is" and plural may be abbreviated as GISTs, to be followed by "are". These changes need to be made throughout the text of the manuscript. b). "in vivo" must be italicized at all places in the manuscript. Section-wise minor corrections to be addressed: In the Abstract: a) The word "understand" may be incorporated between the words "and" and "the" in AIM of the Abstract. b) Replace "a unmet" with "an unmet" in Background section c) Replace "inhibit" with "inhibited" and "decrease" with "decreased" in the Results section d) "GIST tumor tissues" may be replaced by "GIST tissues" in Conclusion In the Introduction: a) In Line No. 10, "Indeed" may be replaced by "In fact" b) In the sentence "Before the clinical application of imatinib.....of patients was only 27-34%", is the highlighted word correct or is some text missing? Otherwise, it may be changed to "by". c) In the following phrases, a word or some text appears missing "been highly effective life of GIST" and "high rate drug" d) "large unmet need" may be changed to "critical" or "important". Methodology: a) Due reference for "Chinese clinical guidelines" may be provided. b) In the paragraph for Western blotting, "1 h" may be changed to "1 hr" to maintain uniformity. c) In the paragraph for Modeling of GIST xenografts in nude mice "4 wk" may be written as "4 weeks" Discussion: a) "in recent years" in the first sentence may be removed or due references to recent papers may be added. b) In the second sentence, "Our study performed a proteomic analysis in patients" may be changed to "In the present study, proteomic analysis was performed



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in patients" c) "As a result" may be removed d) The word "discovered" may be replaced by a more appropriate word as the study was not focussed on discovery of any new proteins. e) "confirmed" may be replaced by "confirm" Research objectives: a) "GIST progress" may be changed to "GIST progression" These are some of the errors that I could find. Efforts must be made to find and correct any other grammatical and/or language errors. In conclusion, I feel that it is an interesting and relevant study and after making the necessary corrections and addressing the concerns/queries, it should appeal to the readers of WJG.