

Review Form 3

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| Journal Name: | Asian Journal of Biotechnology and Genetic Engineering |
| Manuscript Number: | Ms_AJBGE_131082 |
| Title of the Manuscript: | DESIGN AND IN SILICO VALIDATION OF PRIMERS FOR ASSESSING GENE EXPRESSION IN THE CANONICAL INFLAMMATORY PATHWAY |
| Type of the Article | Short communication |

PART 1: Comments

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| | Reviewer's comment Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review. | Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here) |
| Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part. | The manuscript presents a well-structured and methodologically sound study focused on the design and in silico validation of primers for assessing gene expression in the canonical inflammatory pathway. The research is timely and relevant, as it provides valuable tools for studying inflammation-related genes using RT-qPCR. The methodology is robust, and the results demonstrate the efficiency and specificity of the designed primers. | |
| Is the title of the article suitable? (If not please suggest an alternative title) | YES | |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | <ul style="list-style-type: none">The abstract concisely summarizes the study.Consider adding a sentence on the practical implications of the findings (e.g., potential applications in disease modeling or therapeutic research). | |
| Is the manuscript scientifically, correct? Please write here. | Yes, the manuscript is scientifically correct in terms of methodology, primer design principles, and in silico validation techniques. The research follows standard bioinformatics and molecular biology approaches, ensuring specificity and efficiency in primer selection for RT-qPCR applications. | |
| Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. | <ul style="list-style-type: none">Ensure consistency in the citation format as per the <i>Asian Journal of Biotechnology and Genetic Engineering</i> guidelines.Some references appear outdated (e.g., Lawrence, 2009); consider including more recent studies where applicable. | |
| Is the language/English quality of the article suitable for scholarly communications? | <ul style="list-style-type: none">The manuscript is generally well-written, but some sections contain grammatical errors and awkward phrasing. A professional language review is recommended.Standardize the formatting of gene and species names (e.g., <i>Mus musculus</i> should always be italicized). | |
| Optional/General comments | | |

Review Form 3

PART 2:

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| | Reviewer's comment | Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here) |
| Are there ethical issues in this manuscript? | (If yes, Kindly please write down the ethical issues here in details) | |

Reviewer Details:

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