

# Genome Annotation Submission Cover Sheet

## Preliminary Annotation Review Checklist 5-15-2018

Phage Name: DirtJuice  
Your Name: Heather Lindberg  
Your Institution: Virginia Western Community College  
Your email: hlindberg@virginiawestern.edu

Additional emails:  
(For correspondence)

*Please check each box indicating completion of each task. If you are not sure how to do something, please see the Online Bioinformatics manual page "How to Pass Preliminary Review".*

- 1. Does the genome sequence in your final contain the same number of bases and is it the same as the posted sequence on phagesdb.org?
- 2. Are all the genes "valid" when you click the "validate" button?
- 3. Have the genes been renumbered such that they go sequentially from 1 to the highest number?
- 4. Have all old BLAST hits been cleared, and all gene features reBLASTed?
- 5. Are the locus tags the "SEA\_PHAGENAME"?
- 6. Has the Documentation been recreated to match the information in the feature table?
- 7. Have tRNA ends been adjusted with web-based Aragorn and/or tRNAscan SE?
- 8. Has the frameshift in the tail assembly chaperone been annotated (where applicable?)

9. For the items below, generate a genome profile, and review the following. For the

YourPhageName\_CompleteNotes.dnam5 file:

- a. Have any duplicate genes (or any with the same stop coordinate?) been removed?
- b. Does every gene have **one and only one** complete set of Notes
- c. Do the functions in the Notes match the official function list?
- d. Are all three lines of functional evidence described for EVERY gene?
- e. Do the notes contain the initial Glimmer/GeneMark data from the autoannotation?

For the YourPhageName .dnam5 file:

- a. Have any duplicate genes (or any with the same stop coordinate?) been removed?
- b. Is the Notes field empty (including hidden marks?)
- c. Do the function names in the Product field either match the official function list or say "Hypothetical Protein"?
- d. Is the Function field empty (including hidden marks?)

- 10. Did you use PECAAN to annotate your phage?  
If, so please describe how in the text field after question 11.
- 11. Describe any issues or specific genes that you were unable to satisfactorily resolve, and warrant further inspection in the Quality Control review.

All student annotation and QC done in Pecaan.