## **Genome Annotation Submission Cover Sheet**

## Pre-SM\*ART QC Phage Genome Annotation Checklist

Phage Name:		Name	: TomBombadil	
Your Name:		lame:	Deborah Tobiason	
Your Institution:		nstitutio	on: Carthage College	
Your email:		mail:	dtobiason@carthage.edu	
		nal em orrespo	nails: ndence)	
ΡI	ease	check	each box indicating completion of each task.	
///////	2. 3. 4. 5. 6.	same Are al Have numbe Have Are th Has th Have Has th	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?  Are all the genes "valid" when you click the "validate" button?  Have the genes been renumbered such that they go sequentially from 1 to the highest number?  Have all old BLAST hits been cleared, and all gene features reBLASTed?  Are the locus tags the "SEA_ PHAGENAME"?  Has the Documentation been recreated to match the information in the feature table?  Have tRNA ends been adjusted with web-based Aragorn and/or tRNAscan SE?  Has the frameshift in the tail assembly chaperone been annotated (where applicable?)  For the items below, generate a genome profile, and review the following. For the	
		YourPhageName_CompleteNotes.dnam5 file:		
/////		b. c. d. e.	Have any duplicate genes (or any with the same stop coordinate?) been removed? Does every gene have <b>one and only one</b> complete set of Notes Do the functions in the Notes match the official function list? Are all three lines of functional evidence described for EVERY gene? Do the notes contain the initial Glimmer/GeneMark data from the autoannotation?	
////		a. b.	the YourPhageName .dnam5 file: Have any duplicate genes (or any with the same stop coordinate?) been removed? Is the Notes field empty for all the features with no known function (including hidden marks?	
/		c. d.	Do the function names in the Notes match the official function list?  Is the function field EMPTY for all features?	

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

Used Pecaan and starterator to update annotation done in 2016