Genome Annotation Submission Cover Sheet

Preliminary Annotation Review Checklist 4-4-2018

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	lease] 1.	Does to same a Are all Have to number Have a Are the Has the Have to Have to Have to Have to the Have	each box indicating completion of each task. If you are not sure how to do something Online Bioinformatics manual page "How to Pass Preliminary Review". The genome sequence in your final contain the same number of bases and is it the state posted sequence on phagesdb.org? The genes "valid" when you click the "validate" button? The genes been renumbered such that they go sequentially from 1 to the highest of the genes been cleared, and all gene features reBLASTed? The locus tags the "SEA_ PHAGENAME"? The Documentation been recreated to match the information in the feature table? The series and series are series and series and series and series and series and series and series are series and series and series are series and series and series are series and series and series and series are series and series and series are seri
	9.	For the	items below, generate a genome profile, and review the following. For the
_		YourPl	ageName_CompleteNotes.dnam5 file:
✓ ✓ ✓ ✓ ✓		b. c. d. e. For th a. b.	Have any duplicate genes (or any with the same stop coordinate?) been removed? Ones every gene have one and only one complete set of Notes to the functions in the Notes match the official function list? One all three lines of functional evidence described for EVERY gene? On the notes contain the initial Glimmer/GeneMark data from the autoannotation? We YourPhageName .dnam5 file: Have any duplicate genes (or any with the same stop coordinate?) been removed? It is the Notes field empty for all the features with no known function (including hidden marks? To the function names in the Notes match the official function list? The function field EMPTY for all features?
√] 10.		you use PECAAN to annotate your phage? To 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.

PECAAN was used by the students during annotation. The level at which PECAAN was relied on varied by student. Not all information in PECAAN has been corrected to reflect the final annotation. Gene 1 has the function as "endonuclease", which does not seem to appear on the official function list. BLASTing at both phagesdb and NCBI gave hits that listed endonuclease as the function, so we were unable to be more specific. All other listed functions are from the approved list. Two genes (gp3 and gp69 from the autoannotation) were deleted due to small size, lack of coding potential, and few or no BLAST hits. For other genes where choices for start site or function were difficult, a note was added at the end of the Notes field (see CompleteNotes file).