Genome Annotation Submission Cover Sheet

Preliminary Annotation Review Checklist 5-15-2018

Phage Name:		Typha
Your Name:		Mary Ann Smith
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ple. V V V V V V V V V V V V V V V V V V	 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:		
\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	b. Does e c. Do the d. Are all e. Do the For the You a. Have a b. Is the N c. Do the say "Hy	iny duplicate genes (or any with the same stop coordinate?) been removed? every gene have one and only one complete set of Notes functions in the Notes match the official function list? three lines of functional evidence described for EVERY gene? notes contain the initial Glimmer/GeneMark data from the autoannotation? rPhageName .dnam5 file: my duplicate genes (or any with the same stop coordinate?) been removed? Notes field empty (including hidden marks?) function names in the Product field either match the official function list or ypothetical Protein"?
 Did you use PECAAN to annotate your phage? If, so please describe how in the text field after question 11. Describe any issues or specific genes that you were unable to satisfactorily resolve, and warrant further inspection in the Quality Control review. GP9 - 37bp overlap, like in other Y phages (following Bipper); GP42 - Typha has coding in		
reverse, but Bipper has it forward; GAP 35900-36175 - tried different options - extend 47, no		

reverse, but Bipper has it forward; GAP 35900-36175 - tried different options - extend 47, no support, bad blast, no CP, tried to add gene, 35917-36117, only blimp of CP, bad blast, OneUp gp90, Phagesdb, Query 5: Subject 142, 29%, e=2.0; GAP 40500-40800 - checked no blast data to support extension of integrase, no CP or other phage support; GAP 41200-41380 - checked no support for gene, area for reverse/forward; GAP 63900-64150 - checked no support for gene; GAP 70700-71225 - checked area, very little CP, bad blast, 70811-71011, LastHope gp80, Phagesdb, Query 14: Subject 31, 34%, e=3.5; ORPHAMs-Several have really strong CP, Glimmer and GeneMark calls, area not conserved with other clusters and at times within cluster