**Agatha Annotation Cover Sheet**

**Pre-QC checklist**

**Phage = Agatha**

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**All genes are valid, numbered sequentially, and contain the phage name in the locus tag.**

**All genes have been reBLASTed.**

**Duplicate genes been removed:** No duplicate genes were found.

**Every gene have one complete set of notes:** Yes, every gene has a complete set of notes.

**Functions in the notes match official function list:** Yes, the functions in the notes match the official function list.

**Function field empty for all features:** Yes, the function field is empty for all features.

**Adjusted tRNAs:** We ran a tRNA test and found there to be no tRNAs present in the genome of Agatha.

**Adjustments to the Tail Assembly Chaperones Programmed:** Yes, adjustments have been made to the tail assembly chaperones.

**Notes contain initial Glimmer/ GeneMark data from the auto annotation:** Yes, notes contain initial data from the auto annotation.

**Describe issues or specific genes that were unable to be resolved and need further inspection:**

**Deleted genes:**

* Gene 3 (Fwd 829-999bp) was deleted because it had a complete overlap with genes 2 and 4.
* Gene 32 (Rev 25372- 25506bp) was deleted because it was short (135bps) and its presence did not leave enough room for promoters between this reverse gene and the next forward gene. Two other members of pham are draft.

**Added genes:**

* Gene 66 (Fwd 44923-45270bp) was added in an open reading frame that existed within a 273bp gap between two forward genes. The new gene had 1:1 alignment with related *Gordonia* phage but no function was determined.
* Gene 69 (Fwd 45781-46128bp) was added in an open reading frame that existed within a 273bp gap between two forward genes. The new gene had 1:1 alignment with related *Gordonia* phage but no function was determined.