# Pham 136073



1: Bloom_295 + 3

2: Mimi_9 + 1

3: Patbob_298 + 1

4: Racecar_297 + 1

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

# Pham 136073 Report

This analysis was run 04/28/24 on database version 559.

Pham number 136073 has 10 members, 8 are drafts.

Phages represented in each track:
• Track 1 : Bloom_295, Talia1610_295, Bloom_8, Talia1610_8
• Track 2 : Mimi_9, Mimi_299
• Track 3 : Patbob_298, Patbob_8
• Track 4 : Racecar_297, Racecar_8


***Summary of Final Annotations (See graph section above for start numbers):***

The start number called the most often in the published annotations is 2, it was called in 2 of the 2 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bloom_295, Bloom_8, Mimi_299, Mimi_9, Patbob_298, Patbob_8, Racecar_297, Racecar_8, Talia1610_295, Talia1610_8,

Genes that have the "Most Annotated" start but do not call it:
•

Genes that do not have the "Most Annotated" start:
•

**Summary by start number:**

Start 2:
• Found in 10 of 10 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 2 of 2
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bloom_295 (FC), Bloom_8 (FC), Mimi_299 (FC), Mimi_9 (FC), Patbob_298 (FC), Patbob_8 (FC), Racecar_297 (FC), Racecar_8 (FC), Talia1610_295 (FC), Talia1610_8 (FC),

**Summary by clusters:**

There is one cluster represented in this pham: FC

Info for manual annotations of cluster FC:
•Start number 2 was manually annotated 2 times for cluster FC.


### *Gene Information:*

Gene: Bloom_295 Start: 177973, Stop: 178344, Start Num: 2
Candidate Starts for Bloom_295:
(Start: 2 @177973 has 2 MA's), (3, 178156), (4, 178225), (5, 178306),

Gene: Bloom_8 Start: 4498, Stop: 4869, Start Num: 2
Candidate Starts for Bloom_8:
(Start: 2 @4498 has 2 MA's), (3, 4681), (4, 4750), (5, 4831),

Gene: Mimi_9 Start: 4440, Stop: 4811, Start Num: 2
Candidate Starts for Mimi_9:
(1, 4404), (Start: 2 @4440 has 2 MA's), (4, 4692), (5, 4773),

Gene: Mimi_299 Start: 177100, Stop: 177471, Start Num: 2
Candidate Starts for Mimi_299:
(1, 177064), (Start: 2 @177100 has 2 MA's), (4, 177352), (5, 177433),

Gene: Patbob_298 Start: 180149, Stop: 180520, Start Num: 2
Candidate Starts for Patbob_298:
(Start: 2 @180149 has 2 MA's), (3, 180332), (4, 180401), (5, 180482),

Gene: Patbob_8 Start: 4690, Stop: 5061, Start Num: 2
Candidate Starts for Patbob_8:
(Start: 2 @4690 has 2 MA's), (3, 4873), (4, 4942), (5, 5023),

Gene: Racecar_297 Start: 178207, Stop: 178578, Start Num: 2
Candidate Starts for Racecar_297:
(Start: 2 @178207 has 2 MA's), (4, 178459), (5, 178540),

Gene: Racecar_8 Start: 4498, Stop: 4869, Start Num: 2
Candidate Starts for Racecar_8:
(Start: 2 @4498 has 2 MA's), (4, 4750), (5, 4831),

Gene: Talia1610_295 Start: 178921, Stop: 179292, Start Num: 2
Candidate Starts for Talia1610_295:
(Start: 2 @178921 has 2 MA's), (3, 179104), (4, 179173), (5, 179254),

Gene: Talia1610_8 Start: 4449, Stop: 4820, Start Num: 2
Candidate Starts for Talia1610_8:
(Start: 2 @4449 has 2 MA's), (3, 4632), (4, 4701), (5, 4782),