

Pham 242624



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 242624 Report

This analysis was run 02/07/26 on database version 634.

Pham number 242624 has 9 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Racecar\_146, GoldenEssence\_131
- Track 2 : Phrampa\_139
- Track 3 : FloraSnap32\_144, FrostedClock\_147, Bloom\_148, Talia1610\_147, Patbob\_144
- Track 4 : Mimi\_145

### ***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 3 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- GoldenEssence\_131, Mimi\_145, Racecar\_146,

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

- Bloom\_148, FloraSnap32\_144, FrostedClock\_147, Patbob\_144, Talia1610\_147,

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

- Phrampa\_139,

### **Summary by start number:**

Start 2:

- Found in 8 of 9 ( 88.9% ) of genes in pham
- Manual Annotations of this start: 3 of 4
- Called 37.5% of time when present
- Phage (with cluster) where this start called: GoldenEssence\_131 (FC), Mimi\_145 (FC), Racecar\_146 (FC),

Start 3:

- Found in 8 of 9 ( 88.9% ) of genes in pham
- Manual Annotations of this start: 1 of 4
- Called 62.5% of time when present

- Phage (with cluster) where this start called: Bloom\_148 (FC), FloraSnap32\_144 (FC), FrostedClock\_147 (FC), Patbob\_144 (FC), Talia1610\_147 (FC),

Start 4:

- Found in 1 of 9 ( 11.1% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phrampa\_139 (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 3 times for cluster FC.
- Start number 3 was manually annotated 1 time for cluster FC.

### **Gene Information:**

Gene: Bloom\_148 Start: 99415, Stop: 99591, Start Num: 3

Candidate Starts for Bloom\_148:

(1, 99346), (Start: 2 @99382 has 3 MA's), (Start: 3 @99415 has 1 MA's), (6, 99502), (7, 99505), (8, 99520), (10, 99556),

Gene: FloraSnap32\_144 Start: 98230, Stop: 98406, Start Num: 3

Candidate Starts for FloraSnap32\_144:

(1, 98161), (Start: 2 @98197 has 3 MA's), (Start: 3 @98230 has 1 MA's), (6, 98317), (7, 98320), (8, 98335), (10, 98371),

Gene: FrostedClock\_147 Start: 99412, Stop: 99588, Start Num: 3

Candidate Starts for FrostedClock\_147:

(1, 99343), (Start: 2 @99379 has 3 MA's), (Start: 3 @99412 has 1 MA's), (6, 99499), (7, 99502), (8, 99517), (10, 99553),

Gene: GoldenEssence\_131 Start: 93080, Stop: 93289, Start Num: 2

Candidate Starts for GoldenEssence\_131:

(1, 93044), (Start: 2 @93080 has 3 MA's), (Start: 3 @93113 has 1 MA's), (6, 93200), (7, 93203), (8, 93218), (10, 93254),

Gene: Mimi\_145 Start: 98447, Stop: 98656, Start Num: 2

Candidate Starts for Mimi\_145:

(Start: 2 @98447 has 3 MA's), (Start: 3 @98480 has 1 MA's), (7, 98570), (8, 98585), (10, 98621),

Gene: Patbob\_144 Start: 99242, Stop: 99418, Start Num: 3

Candidate Starts for Patbob\_144:

(1, 99173), (Start: 2 @99209 has 3 MA's), (Start: 3 @99242 has 1 MA's), (6, 99329), (7, 99332), (8, 99347), (10, 99383),

Gene: Phrampa\_139 Start: 100777, Stop: 100947, Start Num: 4

Candidate Starts for Phrampa\_139:

(4, 100777), (5, 100819), (6, 100858), (7, 100861), (8, 100876), (9, 100909), (10, 100912),

Gene: Racecar\_146 Start: 99435, Stop: 99644, Start Num: 2

Candidate Starts for Racecar\_146:

(1, 99399), (Start: 2 @99435 has 3 MA's), (Start: 3 @99468 has 1 MA's), (6, 99555), (7, 99558), (8, 99573), (10, 99609),

Gene: Talia1610\_147 Start: 99483, Stop: 99659, Start Num: 3

Candidate Starts for Talia1610\_147:

(1, 99414), (Start: 2 @99450 has 3 MA's), (Start: 3 @99483 has 1 MA's), (6, 99570), (7, 99573), (8, 99588), (10, 99624),