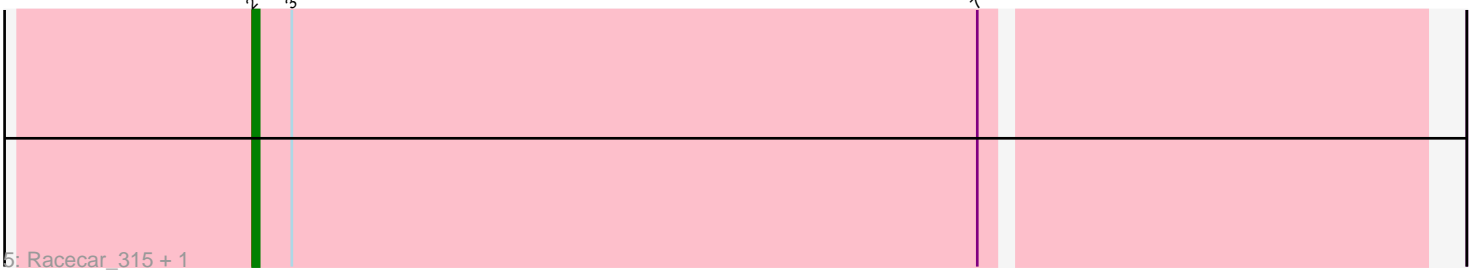
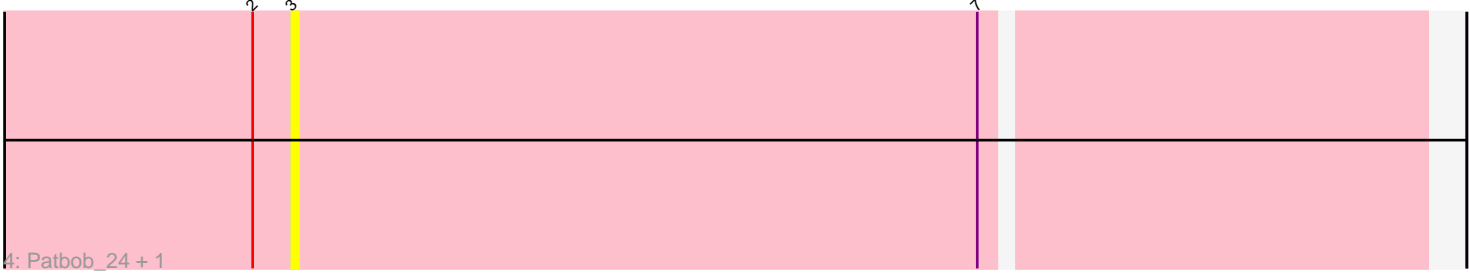
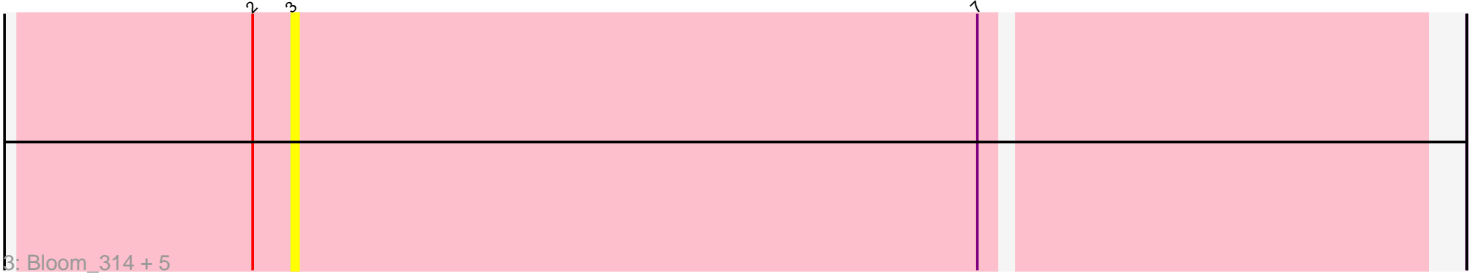
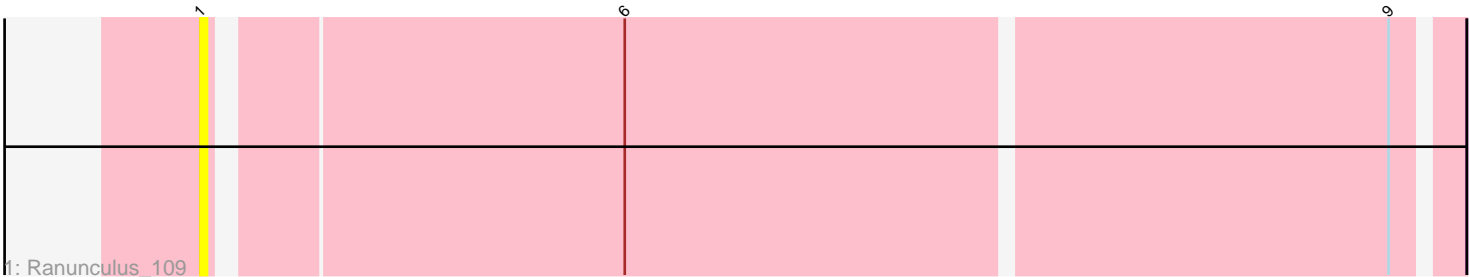


Pham 10375



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 10375 Report

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

Pham number 10375 has 12 members, 10 are drafts.

Phages represented in each track:

- Track 1 : Ranunculus\_109
- Track 2 : MellowYellow\_121
- Track 3 : Bloom\_314, Mimi\_27, Talia1610\_312, Mimi\_317, Talia1610\_25, Bloom\_27
- Track 4 : Patbob\_24, Patbob\_314
- Track 5 : Racecar\_315, Racecar\_26

### ***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:

- Racecar\_26, Racecar\_315,

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

- Bloom\_27, Bloom\_314, Mimi\_27, Mimi\_317, Patbob\_24, Patbob\_314, Talia1610\_25, Talia1610\_312,

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

- MellowYellow\_121, Ranunculus\_109,

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

Start 1:

- Found in 2 of 12 ( 16.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MellowYellow\_121 (AP2), Ranunculus\_109 (AP),

Start 2:

- Found in 10 of 12 ( 83.3% ) of genes in pham
- Manual Annotations of this start: 2 of 2
- Called 20.0% of time when present

- Phage (with cluster) where this start called: Racecar\_26 (FC), Racecar\_315 (FC),

Start 3:

- Found in 10 of 12 ( 83.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Bloom\_27 (FC), Bloom\_314 (FC), Mimi\_27 (FC), Mimi\_317 (FC), Patbob\_24 (FC), Patbob\_314 (FC), Talia1610\_25 (FC), Talia1610\_312 (FC),

### **Summary by clusters:**

There are 3 clusters represented in this pham: AP2, AP, FC,

Info for manual annotations of cluster FC:

- Start number 2 was manually annotated 2 times for cluster FC.

### **Gene Information:**

Gene: Bloom\_314 Start: 185745, Stop: 185915, Start Num: 3

Candidate Starts for Bloom\_314:

(Start: 2 @185739 has 2 MA's), (3, 185745), (7, 185850),

Gene: Bloom\_27 Start: 12270, Stop: 12440, Start Num: 3

Candidate Starts for Bloom\_27:

(Start: 2 @12264 has 2 MA's), (3, 12270), (7, 12375),

Gene: MellowYellow\_121 Start: 68235, Stop: 68047, Start Num: 1

Candidate Starts for MellowYellow\_121:

(1, 68235), (4, 68193), (5, 68181), (8, 68091),

Gene: Mimi\_27 Start: 11679, Stop: 11849, Start Num: 3

Candidate Starts for Mimi\_27:

(Start: 2 @11673 has 2 MA's), (3, 11679), (7, 11784),

Gene: Mimi\_317 Start: 184339, Stop: 184509, Start Num: 3

Candidate Starts for Mimi\_317:

(Start: 2 @184333 has 2 MA's), (3, 184339), (7, 184444),

Gene: Patbob\_24 Start: 12216, Stop: 12386, Start Num: 3

Candidate Starts for Patbob\_24:

(Start: 2 @12210 has 2 MA's), (3, 12216), (7, 12321),

Gene: Patbob\_314 Start: 187675, Stop: 187845, Start Num: 3

Candidate Starts for Patbob\_314:

(Start: 2 @187669 has 2 MA's), (3, 187675), (7, 187780),

Gene: Racecar\_315 Start: 185973, Stop: 186149, Start Num: 2

Candidate Starts for Racecar\_315:

(Start: 2 @185973 has 2 MA's), (3, 185979), (7, 186084),

Gene: Racecar\_26 Start: 12264, Stop: 12440, Start Num: 2

Candidate Starts for Racecar\_26:

(Start: 2 @12264 has 2 MA's), (3, 12270), (7, 12375),

Gene: Ranunculus\_109 Start: 67635, Stop: 67453, Start Num: 1

Candidate Starts for Ranunculus\_109:

(1, 67635), (6, 67575), (9, 67461),

Gene: Talia1610\_312 Start: 186165, Stop: 186335, Start Num: 3

Candidate Starts for Talia1610\_312:

(Start: 2 @186159 has 2 MA's), (3, 186165), (7, 186270),

Gene: Talia1610\_25 Start: 11693, Stop: 11863, Start Num: 3

Candidate Starts for Talia1610\_25:

(Start: 2 @11687 has 2 MA's), (3, 11693), (7, 11798),