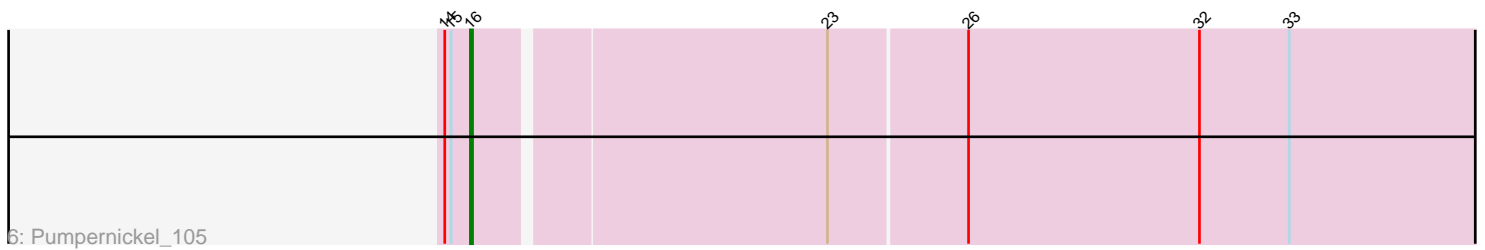
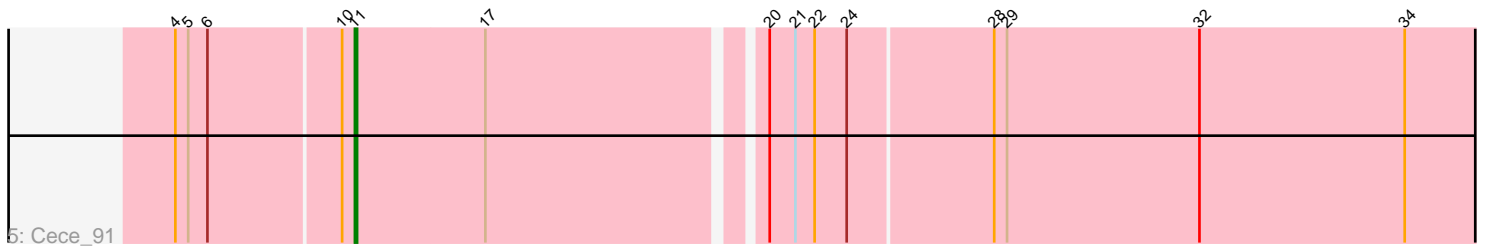
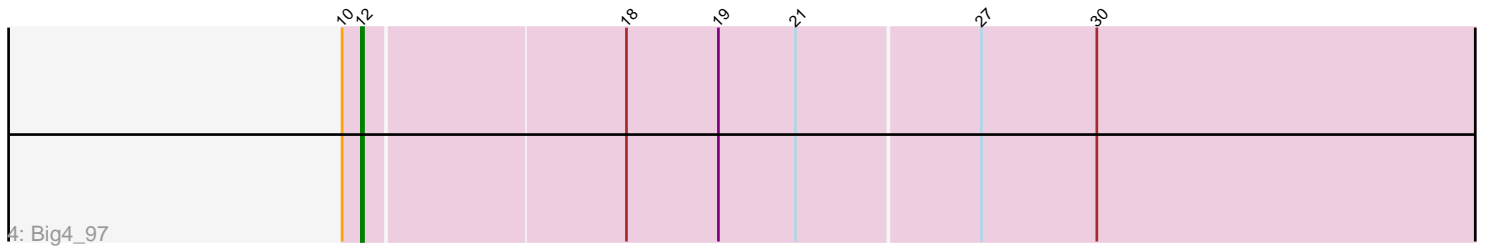
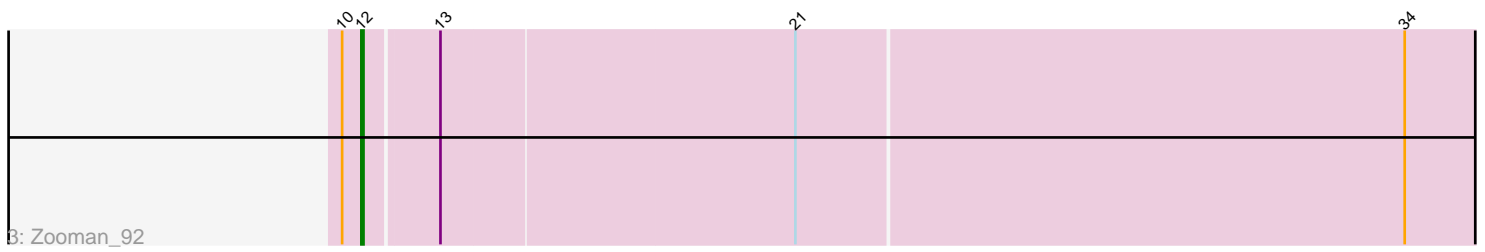
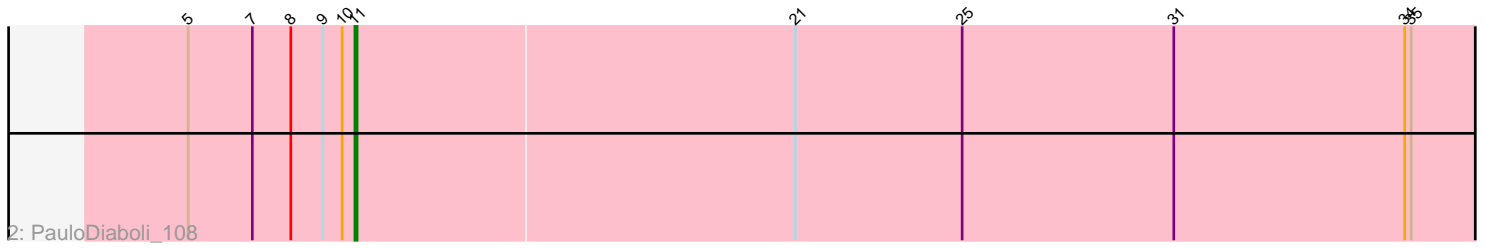
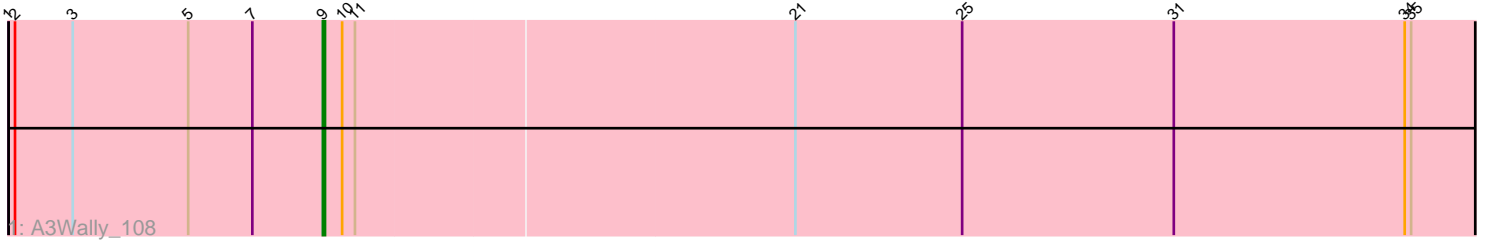


# Pham 162513



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 162513 Report

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

Pham number 162513 has 6 members, 0 are drafts.

Phages represented in each track:

- Track 1 : A3Wally\_108
- Track 2 : PauloDiaboli\_108
- Track 3 : Zooman\_92
- Track 4 : Big4\_97
- Track 5 : Cece\_91
- Track 6 : Pumpernickel\_105

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

The start number called the most often in the published annotations is 11, it was called in 2 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Cece\_91, PauloDiaboli\_108,

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

- A3Wally\_108,

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

- Big4\_97, Pumpernickel\_105, Zooman\_92,

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

Start 9:

- Found in 2 of 6 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 50.0% of time when present
- Phage (with cluster) where this start called: A3Wally\_108 (GD1),

Start 11:

- Found in 3 of 6 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 2 of 6
- Called 66.7% of time when present

- Phage (with cluster) where this start called: Cece\_91 (GD3), PauloDiaboli\_108 (GD1),

Start 12:

- Found in 2 of 6 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 2 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Big4\_97 (GD2), Zooman\_92 (GD2),

Start 16:

- Found in 1 of 6 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pumpernickel\_105 (GD4),

### **Summary by clusters:**

There are 4 clusters represented in this pham: GD1, GD2, GD3, GD4,

Info for manual annotations of cluster GD1:

- Start number 9 was manually annotated 1 time for cluster GD1.
- Start number 11 was manually annotated 1 time for cluster GD1.

Info for manual annotations of cluster GD2:

- Start number 12 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:

- Start number 11 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:

- Start number 16 was manually annotated 1 time for cluster GD4.

### **Gene Information:**

Gene: A3Wally\_108 Start: 73992, Stop: 73408, Start Num: 9

Candidate Starts for A3Wally\_108:

(1, 74139), (2, 74136), (3, 74109), (5, 74055), (7, 74025), (Start: 9 @73992 has 1 MA's), (10, 73983), (Start: 11 @73977 has 2 MA's), (21, 73776), (25, 73698), (31, 73599), (34, 73491), (35, 73488),

Gene: Big4\_97 Start: 73090, Stop: 72530, Start Num: 12

Candidate Starts for Big4\_97:

(10, 73099), (Start: 12 @73090 has 2 MA's), (18, 72973), (19, 72931), (21, 72895), (27, 72811), (30, 72757),

Gene: Cece\_91 Start: 76156, Stop: 75599, Start Num: 11

Candidate Starts for Cece\_91:

(4, 76237), (5, 76231), (6, 76222), (10, 76162), (Start: 11 @76156 has 2 MA's), (17, 76096), (20, 75976), (21, 75964), (22, 75955), (24, 75940), (28, 75874), (29, 75868), (32, 75778), (34, 75682),

Gene: PauloDiaboli\_108 Start: 73334, Stop: 72765, Start Num: 11

Candidate Starts for PauloDiaboli\_108:

(5, 73412), (7, 73382), (8, 73364), (Start: 9 @73349 has 1 MA's), (10, 73340), (Start: 11 @73334 has 2 MA's), (21, 73133), (25, 73055), (31, 72956), (34, 72848), (35, 72845),

Gene: Pumpernickel\_105 Start: 74888, Stop: 74379, Start Num: 16

Candidate Starts for Pumpernickel\_105:

(14, 74900), (15, 74897), (Start: 16 @74888 has 1 MA's), (23, 74732), (26, 74669), (32, 74561), (33, 74519),

Gene: Zooman\_92 Start: 70938, Stop: 70378, Start Num: 12

Candidate Starts for Zooman\_92:

(10, 70947), (Start: 12 @70938 has 2 MA's), (13, 70905), (21, 70743), (34, 70461),