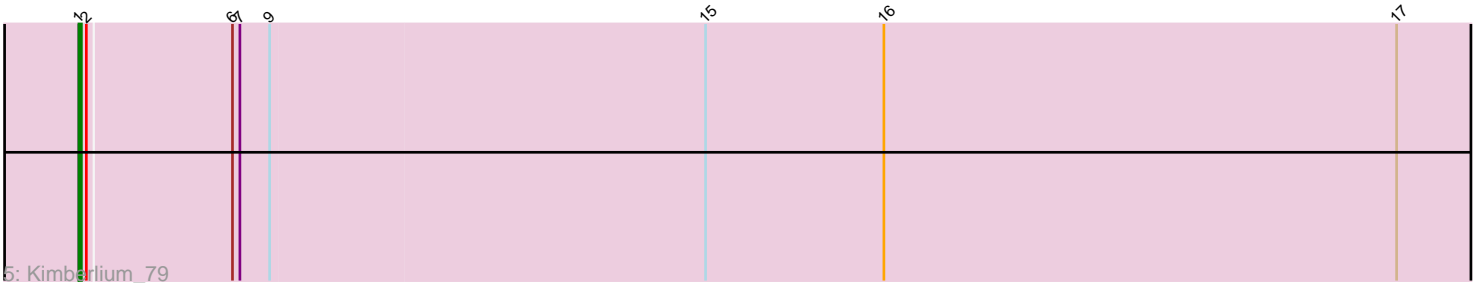
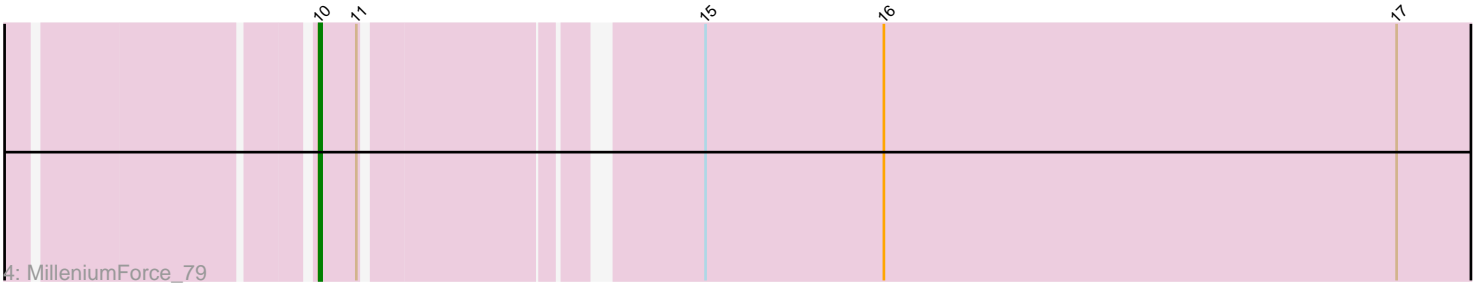
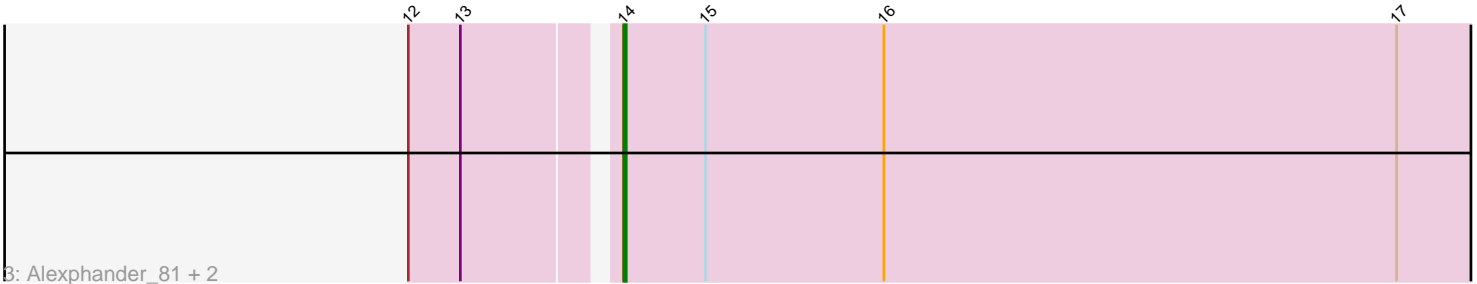
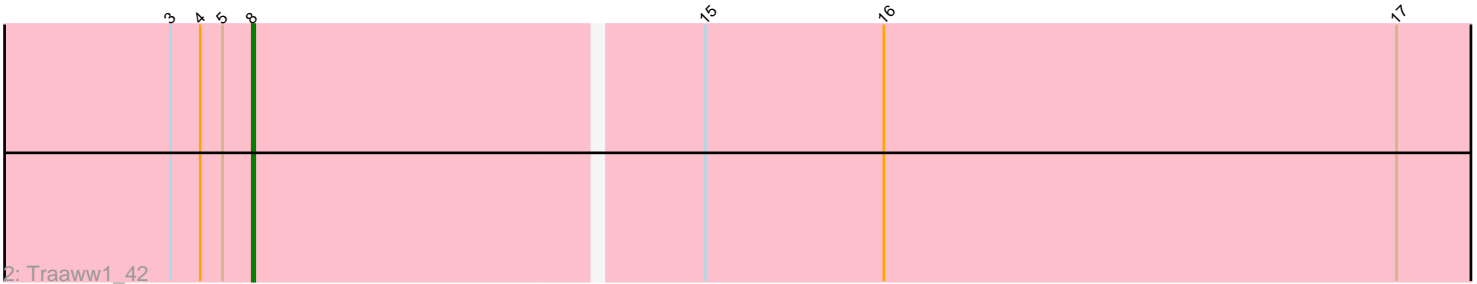
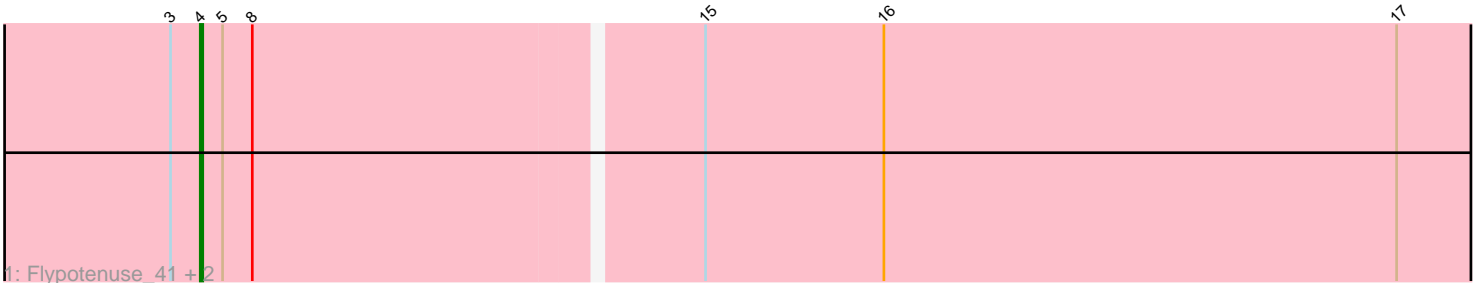


Pham 96940



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 96940 Report

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

Pham number 96940 has 9 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Flypotenuse\_41, Glexan\_44, Harella\_46
- Track 2 : Traaww1\_42
- Track 3 : Alexphander\_81, GUmbe\_75, RockyHorror\_82
- Track 4 : MilleniumForce\_79
- Track 5 : Kimberlium\_79

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

The start number called the most often in the published annotations is 14, it was called in 3 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alexphander\_81, GUmbe\_75, RockyHorror\_82,

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

- 

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

- Flypotenuse\_41, Glexan\_44, Harella\_46, Kimberlium\_79, MilleniumForce\_79, Traaww1\_42,

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

Start 1:

- Found in 1 of 9 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kimberlium\_79 (F1),

Start 4:

- Found in 4 of 9 ( 44.4% ) of genes in pham
- Manual Annotations of this start: 3 of 9
- Called 75.0% of time when present

- Phage (with cluster) where this start called: Flypotenuse\_41 (E), Glexan\_44 (E), Harella\_46 (E),

Start 8:

- Found in 4 of 9 ( 44.4% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Traaww1\_42 (E),

Start 10:

- Found in 1 of 9 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MilleniumForce\_79 (F1),

Start 14:

- Found in 3 of 9 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 3 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alexphander\_81 (F1), GUmbie\_75 (F1), RockyHorror\_82 (F1),

### **Summary by clusters:**

There are 2 clusters represented in this pham: F1, E,

Info for manual annotations of cluster E:

- Start number 4 was manually annotated 3 times for cluster E.
- Start number 8 was manually annotated 1 time for cluster E.

Info for manual annotations of cluster F1:

- Start number 1 was manually annotated 1 time for cluster F1.
- Start number 10 was manually annotated 1 time for cluster F1.
- Start number 14 was manually annotated 3 times for cluster F1.

### **Gene Information:**

Gene: Alexphander\_81 Start: 49209, Stop: 49616, Start Num: 14

Candidate Starts for Alexphander\_81:

(12, 49134), (13, 49155), (Start: 14 @49209 has 3 MA's), (15, 49242), (16, 49314), (17, 49521),

Gene: Flypotenuse\_41 Start: 35378, Stop: 34809, Start Num: 4

Candidate Starts for Flypotenuse\_41:

(3, 35390), (Start: 4 @35378 has 3 MA's), (5, 35369), (Start: 8 @35357 has 1 MA's), (15, 35183), (16, 35111), (17, 34904),

Gene: GUmbie\_75 Start: 47968, Stop: 48375, Start Num: 14

Candidate Starts for GUmbie\_75:

(12, 47893), (13, 47914), (Start: 14 @47968 has 3 MA's), (15, 48001), (16, 48073), (17, 48280),

Gene: Glexan\_44 Start: 36505, Stop: 35936, Start Num: 4

Candidate Starts for Glexan\_44:

(3, 36517), (Start: 4 @36505 has 3 MA's), (5, 36496), (Start: 8 @36484 has 1 MA's), (15, 36310), (16, 36238), (17, 36031),

Gene: Harella\_46 Start: 37021, Stop: 36452, Start Num: 4

Candidate Starts for Harella\_46:

(3, 37033), (Start: 4 @37021 has 3 MA's), (5, 37012), (Start: 8 @37000 has 1 MA's), (15, 36826), (16, 36754), (17, 36547),

Gene: Kimberlium\_79 Start: 47400, Stop: 48023, Start Num: 1

Candidate Starts for Kimberlium\_79:

(Start: 1 @47400 has 1 MA's), (2, 47403), (6, 47460), (7, 47463), (9, 47475), (15, 47649), (16, 47721), (17, 47928),

Gene: MilleniumForce\_79 Start: 48582, Stop: 49091, Start Num: 10

Candidate Starts for MilleniumForce\_79:

(Start: 10 @48582 has 1 MA's), (11, 48597), (15, 48717), (16, 48789), (17, 48996),

Gene: RockyHorror\_82 Start: 47978, Stop: 48385, Start Num: 14

Candidate Starts for RockyHorror\_82:

(12, 47903), (13, 47924), (Start: 14 @47978 has 3 MA's), (15, 48011), (16, 48083), (17, 48290),

Gene: Traaww1\_42 Start: 35825, Stop: 35277, Start Num: 8

Candidate Starts for Traaww1\_42:

(3, 35858), (Start: 4 @35846 has 3 MA's), (5, 35837), (Start: 8 @35825 has 1 MA's), (15, 35651), (16, 35579), (17, 35372),