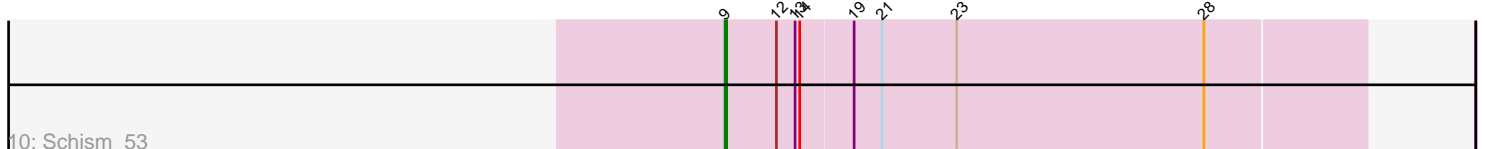
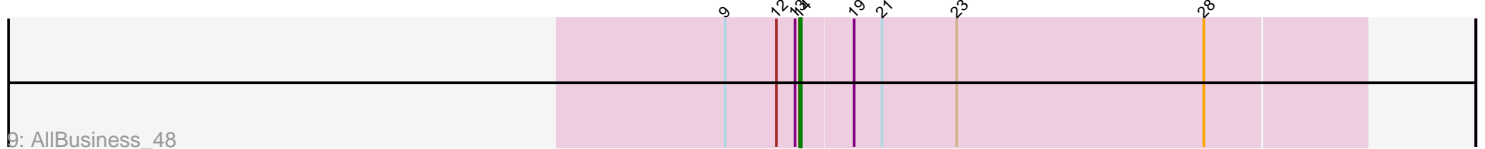
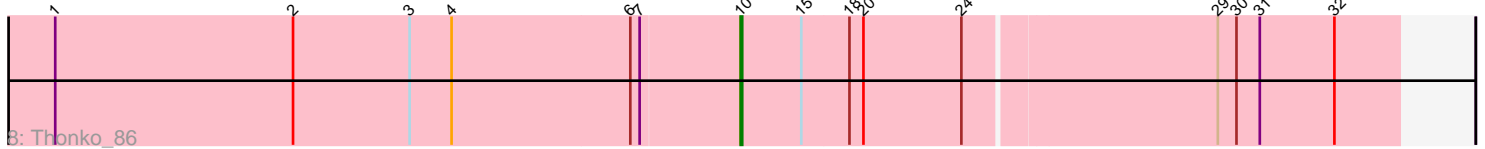
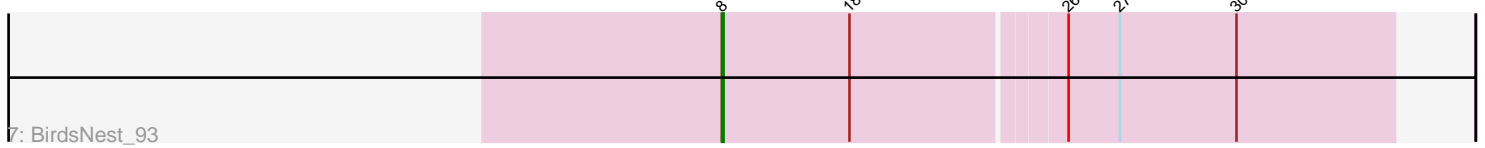
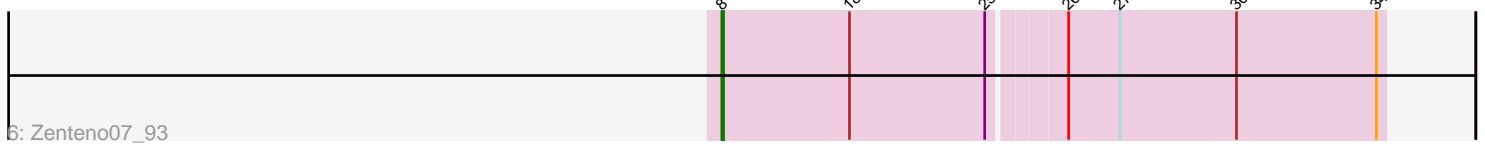
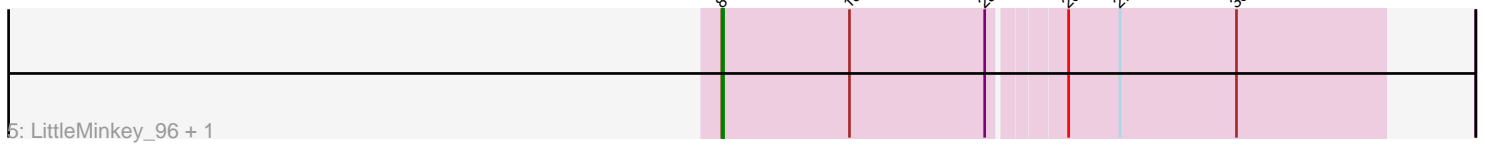
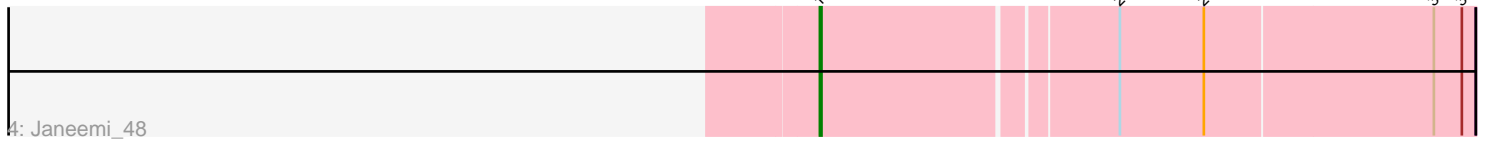
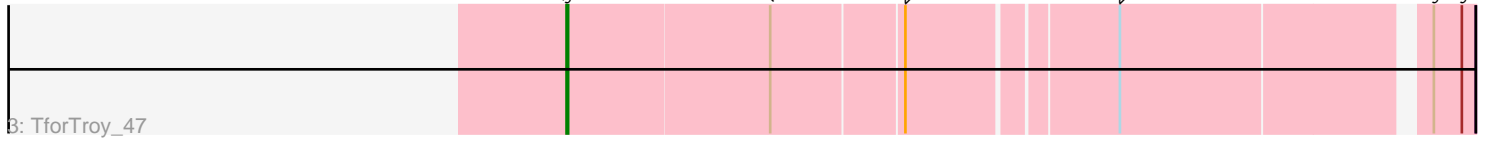
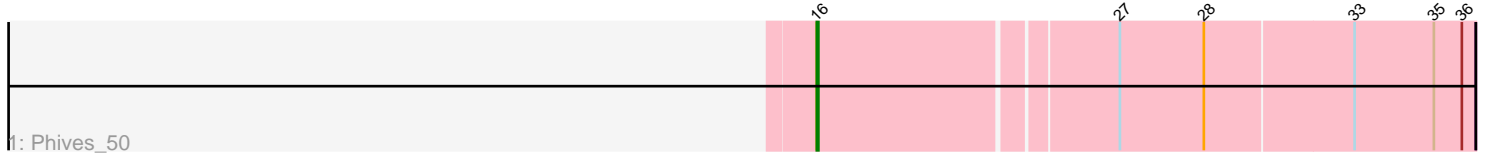


Pham 305468



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 305468 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305468 has 11 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Phives\_50
- Track 2 : Tuck\_49
- Track 3 : TforTroy\_47
- Track 4 : Janeemi\_48
- Track 5 : LittleMinkey\_96, Hashim76\_90
- Track 6 : Zenteno07\_93
- Track 7 : BirdsNest\_93
- Track 8 : Thonko\_86
- Track 9 : AllBusiness\_48
- Track 10 : Schism\_53

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

The start number called the most often in the published annotations is 8, it was called in 3 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BirdsNest\_93, Hashim76\_90, LittleMinkey\_96, Zenteno07\_93,

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

- 

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

- AllBusiness\_48, Janeemi\_48, Phives\_50, Schism\_53, TforTroy\_47, Thonko\_86, Tuck\_49,

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

Start 5:

- Found in 1 of 11 ( 9.1% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TforTroy\_47 (AZ1),

Start 8:

- Found in 4 of 11 ( 36.4% ) of genes in pham
- Manual Annotations of this start: 3 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BirdsNest\_93 (B13), Hashim76\_90 (B13), LittleMinkey\_96 (B13), Zenteno07\_93 (B13),

Start 9:

- Found in 2 of 11 ( 18.2% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Schism\_53 (FF),

Start 10:

- Found in 1 of 11 ( 9.1% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Thonko\_86 (B8),

Start 14:

- Found in 2 of 11 ( 18.2% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 50.0% of time when present
- Phage (with cluster) where this start called: AllBusiness\_48 (FF),

Start 16:

- Found in 1 of 11 ( 9.1% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phives\_50 (AZ1),

Start 17:

- Found in 2 of 11 ( 18.2% ) of genes in pham
- Manual Annotations of this start: 2 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Janeemi\_48 (AZ1), Tuck\_49 (AZ1),

**Summary by clusters:**

There are 4 clusters represented in this pham: AZ1, B8, B13, FF,

Info for manual annotations of cluster AZ1:

- Start number 5 was manually annotated 1 time for cluster AZ1.
- Start number 16 was manually annotated 1 time for cluster AZ1.
- Start number 17 was manually annotated 2 times for cluster AZ1.

Info for manual annotations of cluster B13:

- Start number 8 was manually annotated 3 times for cluster B13.

Info for manual annotations of cluster B8:

- Start number 10 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster FF:

- Start number 9 was manually annotated 1 time for cluster FF.
- Start number 14 was manually annotated 1 time for cluster FF.

### **Gene Information:**

Gene: AllBusiness\_48 Start: 35021, Stop: 35380, Start Num: 14

Candidate Starts for AllBusiness\_48:

(Start: 9 @34973 has 1 MA's), (12, 35006), (13, 35018), (Start: 14 @35021 has 1 MA's), (19, 35054), (21, 35072), (23, 35120), (28, 35279),

Gene: BirdsNest\_93 Start: 66573, Stop: 66154, Start Num: 8

Candidate Starts for BirdsNest\_93:

(Start: 8 @66573 has 3 MA's), (18, 66492), (26, 66363), (27, 66330), (30, 66255),

Gene: Hashim76\_90 Start: 66062, Stop: 65649, Start Num: 8

Candidate Starts for Hashim76\_90:

(Start: 8 @66062 has 3 MA's), (18, 65981), (25, 65894), (26, 65852), (27, 65819), (30, 65744),

Gene: Janeemi\_48 Start: 35112, Stop: 35516, Start Num: 17

Candidate Starts for Janeemi\_48:

(Start: 17 @35112 has 2 MA's), (27, 35292), (28, 35346), (35, 35490), (36, 35508),

Gene: LittleMinkey\_96 Start: 66537, Stop: 66124, Start Num: 8

Candidate Starts for LittleMinkey\_96:

(Start: 8 @66537 has 3 MA's), (18, 66456), (25, 66369), (26, 66327), (27, 66294), (30, 66219),

Gene: Phives\_50 Start: 35604, Stop: 36011, Start Num: 16

Candidate Starts for Phives\_50:

(Start: 16 @35604 has 1 MA's), (27, 35787), (28, 35841), (33, 35934), (35, 35985), (36, 36003),

Gene: Schism\_53 Start: 34682, Stop: 35089, Start Num: 9

Candidate Starts for Schism\_53:

(Start: 9 @34682 has 1 MA's), (12, 34715), (13, 34727), (Start: 14 @34730 has 1 MA's), (19, 34763), (21, 34781), (23, 34829), (28, 34988),

Gene: TforTroy\_47 Start: 33428, Stop: 33973, Start Num: 5

Candidate Starts for TforTroy\_47:

(Start: 5 @33428 has 1 MA's), (11, 33557), (22, 33638), (27, 33764), (35, 33947), (36, 33965),

Gene: Thonko\_86 Start: 63155, Stop: 62742, Start Num: 10

Candidate Starts for Thonko\_86:

(1, 63593), (2, 63440), (3, 63365), (4, 63338), (6, 63224), (7, 63218), (Start: 10 @63155 has 1 MA's), (15, 63116), (18, 63086), (20, 63077), (24, 63014), (29, 62858), (30, 62846), (31, 62831), (32, 62783),

Gene: Tuck\_49 Start: 35489, Stop: 35893, Start Num: 17

Candidate Starts for Tuck\_49:

(Start: 17 @35489 has 2 MA's), (27, 35669), (28, 35723), (33, 35816), (35, 35867), (36, 35885),

Gene: Zenteno07\_93 Start: 66203, Stop: 65790, Start Num: 8

Candidate Starts for Zenteno07\_93:

(Start: 8 @66203 has 3 MA's), (18, 66122), (25, 66035), (26, 65993), (27, 65960), (30, 65885), (34, 65795),