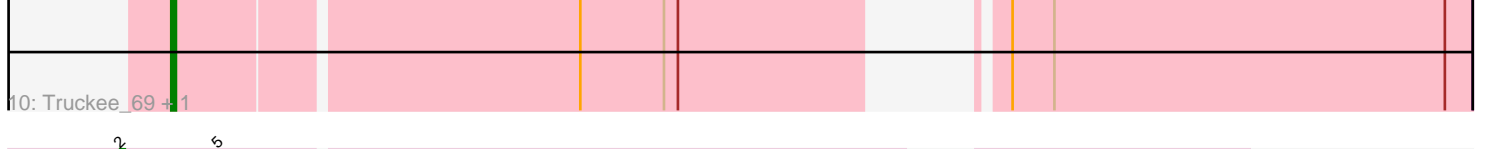
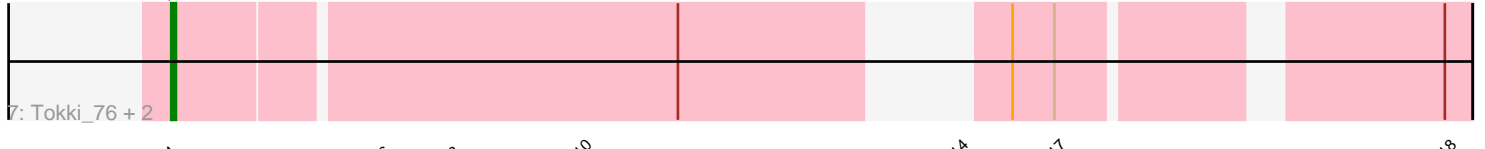
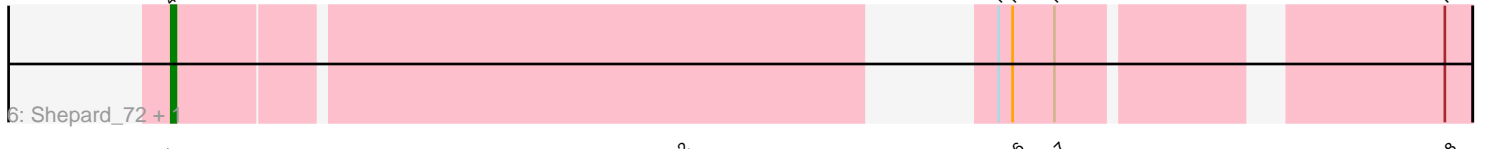
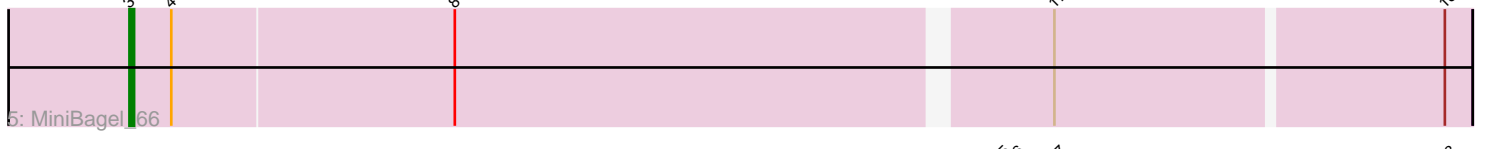
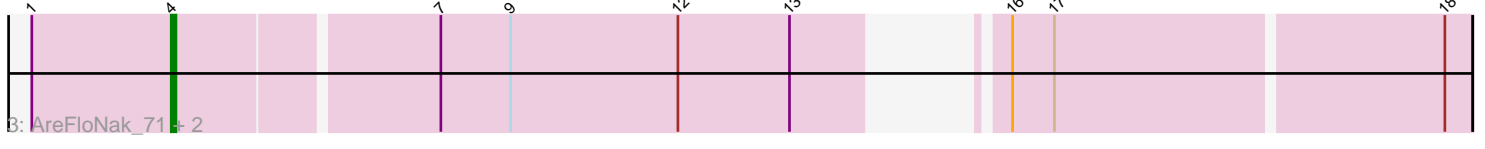
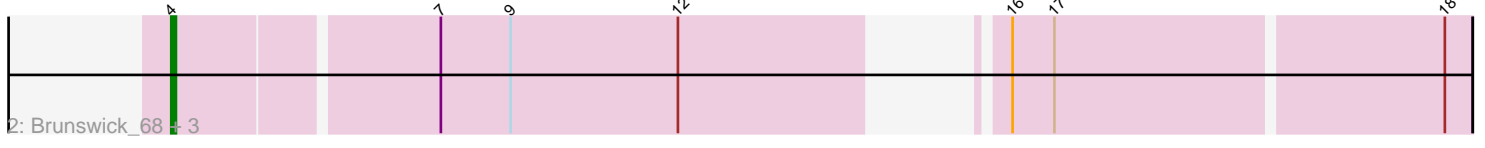
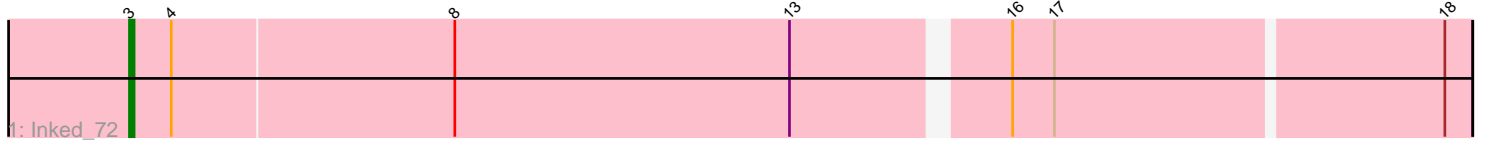


# Pham 214648



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 214648 Report

This analysis was run 02/22/25 on database version 588.

Pham number 214648 has 21 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Inked\_72
- Track 2 : Brunswick\_68, Niktson\_67, Tenno\_67, ElephantMan\_67
- Track 3 : AreFloNak\_71, ScienceWizSam\_68, Nightmare\_68
- Track 4 : Teacup\_68
- Track 5 : MiniBagel\_66
- Track 6 : Shepard\_72, LilHuddy\_71
- Track 7 : Tokki\_76, Giantsbane\_70, Phaby\_72
- Track 8 : MediumFry\_67
- Track 9 : Caterpillar\_66
- Track 10 : Truckee\_69, Makai\_71
- Track 11 : Qui\_131, Paella\_131

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

The start number called the most often in the published annotations is 4, it was called in 16 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AreFloNak\_71, Brunswick\_68, Caterpillar\_66, ElephantMan\_67, Giantsbane\_70, LilHuddy\_71, Makai\_71, MediumFry\_67, Nightmare\_68, Niktson\_67, Phaby\_72, ScienceWizSam\_68, Shepard\_72, Teacup\_68, Tenno\_67, Tokki\_76, Truckee\_69,

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

- Inked\_72, MiniBagel\_66,

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

- Paella\_131, Qui\_131,

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

Start 2:

- Found in 2 of 21 ( 9.5% ) of genes in pham
- Manual Annotations of this start: 2 of 20
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Paella\_131 (FK), Qui\_131 (FK),

#### Start 3:

- Found in 2 of 21 ( 9.5% ) of genes in pham
- Manual Annotations of this start: 2 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Inked\_72 (AU), MiniBagel\_66 (AU1),

#### Start 4:

- Found in 19 of 21 ( 90.5% ) of genes in pham
- Manual Annotations of this start: 16 of 20
- Called 89.5% of time when present
- Phage (with cluster) where this start called: AreFloNak\_71 (AU1), Brunswick\_68 (AU1), Caterpillar\_66 (AU4), ElephantMan\_67 (AU1), Giantsbane\_70 (AU2), LilHuddy\_71 (AU2), Makai\_71 (AU5), MediumFry\_67 (AU4), Nightmare\_68 (AU1), Niktson\_67 (AU1), Phaby\_72 (AU2), ScienceWizSam\_68 (AU1), Shepard\_72 (AU2), Teacup\_68 (AU1), Tenno\_67 (AU1), Tokki\_76 (AU2), Truckee\_69 (AU5),

### **Summary by clusters:**

There are 6 clusters represented in this pham: AU1, AU2, AU5, AU4, AU, FK,

Info for manual annotations of cluster AU:

- Start number 3 was manually annotated 1 time for cluster AU.

Info for manual annotations of cluster AU1:

- Start number 3 was manually annotated 1 time for cluster AU1.
- Start number 4 was manually annotated 7 times for cluster AU1.

Info for manual annotations of cluster AU2:

- Start number 4 was manually annotated 5 times for cluster AU2.

Info for manual annotations of cluster AU4:

- Start number 4 was manually annotated 2 times for cluster AU4.

Info for manual annotations of cluster AU5:

- Start number 4 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster FK:

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

### **Gene Information:**

Gene: AreFloNak\_71 Start: 46101, Stop: 46346, Start Num: 4

Candidate Starts for AreFloNak\_71:

(1, 46071), (Start: 4 @46101 has 16 MA's), (7, 46155), (9, 46170), (12, 46206), (13, 46230), (16, 46251), (17, 46260), (18, 46341),

Gene: Brunswick\_68 Start: 45935, Stop: 46180, Start Num: 4

Candidate Starts for Brunswick\_68:

(Start: 4 @45935 has 16 MA's), (7, 45989), (9, 46004), (12, 46040), (16, 46085), (17, 46094), (18, 46175),

Gene: Caterpillar\_66 Start: 45537, Stop: 45782, Start Num: 4

Candidate Starts for Caterpillar\_66:

(Start: 4 @45537 has 16 MA's), (16, 45687), (17, 45696), (18, 45777),

Gene: ElephantMan\_67 Start: 46565, Stop: 46810, Start Num: 4

Candidate Starts for ElephantMan\_67:

(Start: 4 @46565 has 16 MA's), (7, 46619), (9, 46634), (12, 46670), (16, 46715), (17, 46724), (18, 46805),

Gene: Giantsbane\_70 Start: 45239, Stop: 45478, Start Num: 4

Candidate Starts for Giantsbane\_70:

(Start: 4 @45239 has 16 MA's), (12, 45344), (16, 45392), (17, 45401), (18, 45473),

Gene: Inked\_72 Start: 47122, Stop: 47400, Start Num: 3

Candidate Starts for Inked\_72:

(Start: 3 @47122 has 2 MA's), (Start: 4 @47131 has 16 MA's), (8, 47191), (13, 47263), (16, 47305), (17, 47314), (18, 47395),

Gene: LilHuddy\_71 Start: 46367, Stop: 46606, Start Num: 4

Candidate Starts for LilHuddy\_71:

(Start: 4 @46367 has 16 MA's), (15, 46517), (16, 46520), (17, 46529), (18, 46601),

Gene: Makai\_71 Start: 46657, Stop: 46905, Start Num: 4

Candidate Starts for Makai\_71:

(Start: 4 @46657 has 16 MA's), (10, 46741), (11, 46759), (12, 46762), (16, 46807), (17, 46816), (18, 46900),

Gene: MediumFry\_67 Start: 45848, Stop: 46120, Start Num: 4

Candidate Starts for MediumFry\_67:

(Start: 4 @45848 has 16 MA's), (6, 45890), (8, 45905), (10, 45932), (14, 46013), (17, 46034), (18, 46115),

Gene: MiniBagel\_66 Start: 46629, Stop: 46907, Start Num: 3

Candidate Starts for MiniBagel\_66:

(Start: 3 @46629 has 2 MA's), (Start: 4 @46638 has 16 MA's), (8, 46698), (17, 46821), (18, 46902),

Gene: Nightmare\_68 Start: 46969, Stop: 47214, Start Num: 4

Candidate Starts for Nightmare\_68:

(1, 46939), (Start: 4 @46969 has 16 MA's), (7, 47023), (9, 47038), (12, 47074), (13, 47098), (16, 47119), (17, 47128), (18, 47209),

Gene: Niktson\_67 Start: 46565, Stop: 46810, Start Num: 4

Candidate Starts for Niktson\_67:

(Start: 4 @46565 has 16 MA's), (7, 46619), (9, 46634), (12, 46670), (16, 46715), (17, 46724), (18, 46805),

Gene: Paella\_131 Start: 71024, Stop: 71248, Start Num: 2

Candidate Starts for Paella\_131:

(Start: 2 @71024 has 2 MA's), (5, 71045),

Gene: Phaby\_72 Start: 46898, Stop: 47137, Start Num: 4

Candidate Starts for Phaby\_72:

(Start: 4 @46898 has 16 MA's), (12, 47003), (16, 47051), (17, 47060), (18, 47132),

Gene: Qui\_131 Start: 71024, Stop: 71248, Start Num: 2

Candidate Starts for Qui\_131:

(Start: 2 @71024 has 2 MA's), (5, 71045),

Gene: ScienceWizSam\_68 Start: 46263, Stop: 46508, Start Num: 4

Candidate Starts for ScienceWizSam\_68:

(1, 46233), (Start: 4 @46263 has 16 MA's), (7, 46317), (9, 46332), (12, 46368), (13, 46392), (16, 46413), (17, 46422), (18, 46503),

Gene: Shepard\_72 Start: 46220, Stop: 46459, Start Num: 4

Candidate Starts for Shepard\_72:

(Start: 4 @46220 has 16 MA's), (15, 46370), (16, 46373), (17, 46382), (18, 46454),

Gene: Teacup\_68 Start: 46608, Stop: 46853, Start Num: 4

Candidate Starts for Teacup\_68:

(Start: 4 @46608 has 16 MA's), (7, 46662), (12, 46713), (16, 46758), (17, 46767), (18, 46848),

Gene: Tenno\_67 Start: 46710, Stop: 46955, Start Num: 4

Candidate Starts for Tenno\_67:

(Start: 4 @46710 has 16 MA's), (7, 46764), (9, 46779), (12, 46815), (16, 46860), (17, 46869), (18, 46950),

Gene: Tokki\_76 Start: 46766, Stop: 47005, Start Num: 4

Candidate Starts for Tokki\_76:

(Start: 4 @46766 has 16 MA's), (12, 46871), (16, 46919), (17, 46928), (18, 47000),

Gene: Truckee\_69 Start: 46435, Stop: 46683, Start Num: 4

Candidate Starts for Truckee\_69:

(Start: 4 @46435 has 16 MA's), (10, 46519), (11, 46537), (12, 46540), (16, 46585), (17, 46594), (18, 46678),