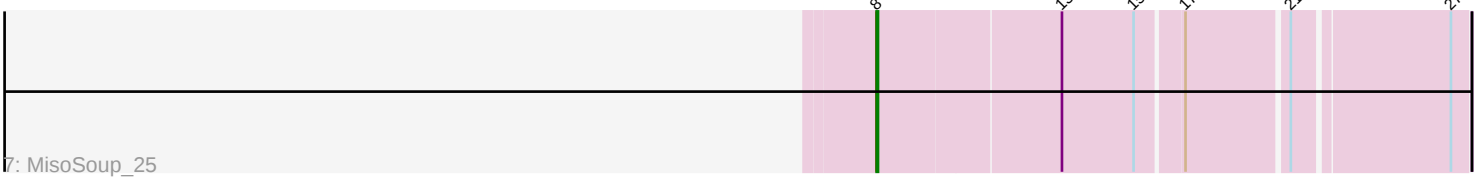
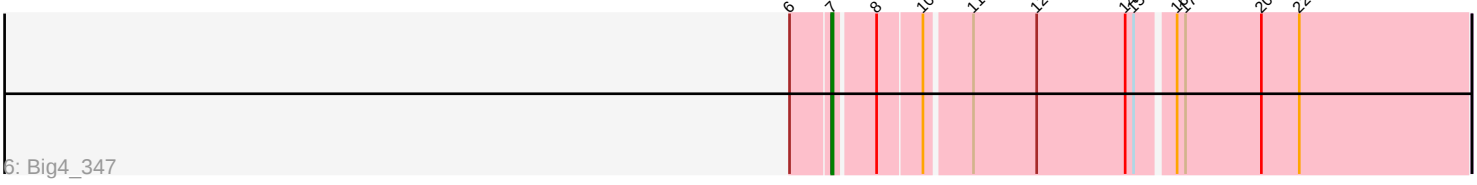
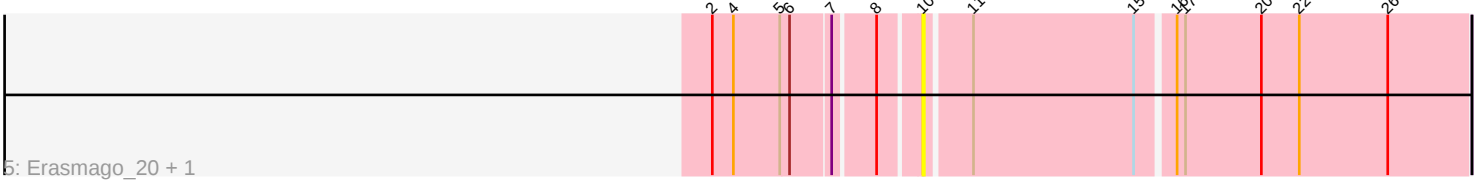
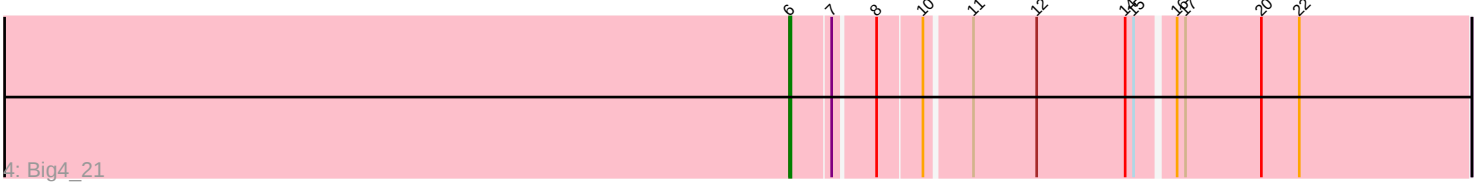
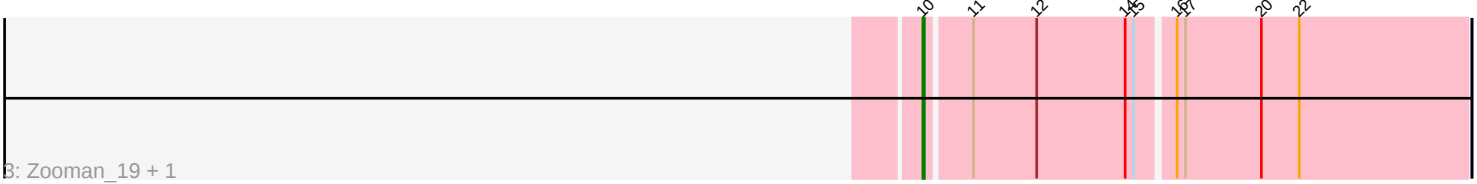
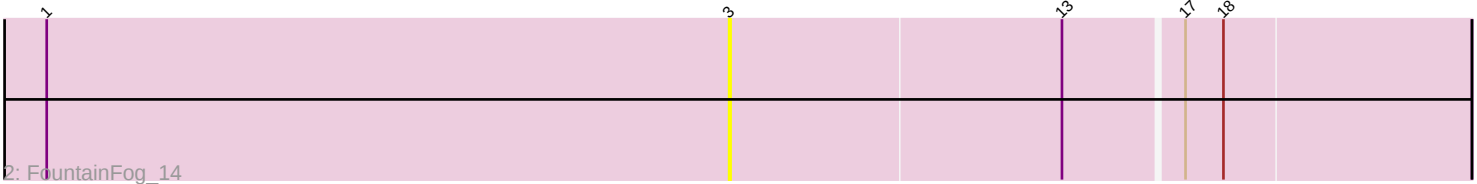
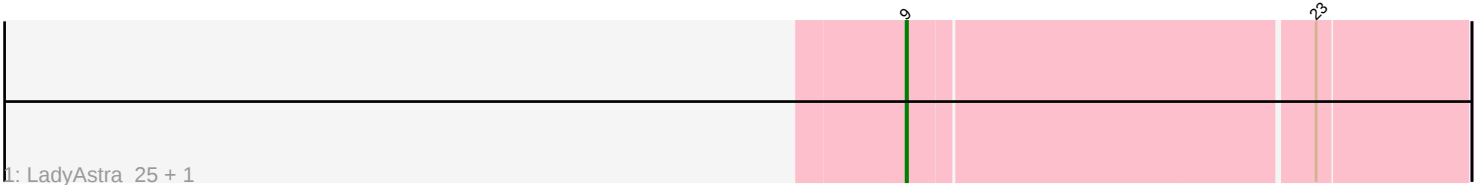


Pham 309696



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 309696 Report

This analysis was run 09/05/26 on database version 662.

Pham number 309696 has 11 members, 3 are drafts.

Phages represented in each track:

- Track 1 : LadyAstra_25, Origami_25
- Track 2 : FountainFog_14
- Track 3 : Zooman_19, Zooman_332
- Track 4 : Big4_21
- Track 5 : Erasmago_20, Erasmago_358
- Track 6 : Big4_347
- Track 7 : MisoSoup_25
- Track 8 : Cantare_80

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

The start number called the most often in the published annotations is 9, it was called in 2 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- LadyAstra_25, Origami_25,

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

•

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

- Big4_21, Big4_347, Cantare_80, Erasmago_20, Erasmago_358, FountainFog_14, MisoSoup_25, Zooman_19, Zooman_332,

Summary by start number:

Start 3:

- Found in 1 of 11 (9.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: FountainFog_14 (EF),

Start 6:

- Found in 4 of 11 (36.4%) of genes in pham

- Manual Annotations of this start: 1 of 8
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Big4_21 (GD2),

Start 7:

- Found in 4 of 11 (36.4%) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Big4_347 (GD2),

Start 8:

- Found in 6 of 11 (54.5%) of genes in pham
- Manual Annotations of this start: 2 of 8
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Cantare_80 (singleton), MisoSoup_25 (GM),

Start 9:

- Found in 2 of 11 (18.2%) of genes in pham
- Manual Annotations of this start: 2 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LadyAstra_25 (AZ4), Origami_25 (AZ4),

Start 10:

- Found in 6 of 11 (54.5%) of genes in pham
- Manual Annotations of this start: 2 of 8
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Erasmago_20 (GD2), Erasmago_358 (GD2), Zooman_19 (GD2), Zooman_332 (GD2),

Summary by clusters:

There are 5 clusters represented in this pham: GD2, EF, AZ4, GM, singleton,

Info for manual annotations of cluster AZ4:

- Start number 9 was manually annotated 2 times for cluster AZ4.

Info for manual annotations of cluster GD2:

- Start number 6 was manually annotated 1 time for cluster GD2.
- Start number 7 was manually annotated 1 time for cluster GD2.
- Start number 10 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GM:

- Start number 8 was manually annotated 1 time for cluster GM.

Gene Information:

Gene: Big4_21 Start: 9232, Stop: 9690, Start Num: 6

Candidate Starts for Big4_21:

(Start: 6 @9232 has 1 MA's), (Start: 7 @9259 has 1 MA's), (Start: 8 @9286 has 2 MA's), (Start: 10 @9316 has 2 MA's), (11, 9346), (12, 9391), (14, 9454), (15, 9460), (16, 9484), (17, 9490), (20, 9544), (22, 9571),

Gene: Big4_347 Start: 183953, Stop: 184384, Start Num: 7

Candidate Starts for Big4_347:

(Start: 6 @183926 has 1 MA's), (Start: 7 @183953 has 1 MA's), (Start: 8 @183980 has 2 MA's), (Start: 10 @184010 has 2 MA's), (11, 184040), (12, 184085), (14, 184148), (15, 184154), (16, 184178), (17, 184184), (20, 184238), (22, 184265),

Gene: Cantare_80 Start: 65298, Stop: 65687, Start Num: 8

Candidate Starts for Cantare_80:

(Start: 8 @65298 has 2 MA's), (12, 65397), (16, 65496), (17, 65502), (19, 65532), (24, 65592), (25, 65604),

Gene: Erasmago_20 Start: 7425, Stop: 7799, Start Num: 10

Candidate Starts for Erasmago_20:

(2, 7290), (4, 7305), (5, 7338), (Start: 6 @7344 has 1 MA's), (Start: 7 @7371 has 1 MA's), (Start: 8 @7398 has 2 MA's), (Start: 10 @7425 has 2 MA's), (11, 7455), (15, 7569), (16, 7593), (17, 7599), (20, 7653), (22, 7680), (26, 7743),

Gene: Erasmago_358 Start: 181934, Stop: 182308, Start Num: 10

Candidate Starts for Erasmago_358:

(2, 181799), (4, 181814), (5, 181847), (Start: 6 @181853 has 1 MA's), (Start: 7 @181880 has 1 MA's), (Start: 8 @181907 has 2 MA's), (Start: 10 @181934 has 2 MA's), (11, 181964), (15, 182078), (16, 182102), (17, 182108), (20, 182162), (22, 182189), (26, 182252),

Gene: FountainFog_14 Start: 7155, Stop: 7670, Start Num: 3

Candidate Starts for FountainFog_14:

(1, 6669), (3, 7155), (13, 7389), (17, 7470), (18, 7497),

Gene: LadyAstra_25 Start: 19447, Stop: 19830, Start Num: 9

Candidate Starts for LadyAstra_25:

(Start: 9 @19447 has 2 MA's), (23, 19726),

Gene: MisoSoup_25 Start: 15846, Stop: 16238, Start Num: 8

Candidate Starts for MisoSoup_25:

(Start: 8 @15846 has 2 MA's), (13, 15972), (15, 16023), (17, 16053), (21, 16122), (27, 16227),

Gene: Origami_25 Start: 19447, Stop: 19830, Start Num: 9

Candidate Starts for Origami_25:

(Start: 9 @19447 has 2 MA's), (23, 19726),

Gene: Zooman_19 Start: 8698, Stop: 9072, Start Num: 10

Candidate Starts for Zooman_19:

(Start: 10 @8698 has 2 MA's), (11, 8728), (12, 8773), (14, 8836), (15, 8842), (16, 8866), (17, 8872), (20, 8926), (22, 8953),

Gene: Zooman_332 Start: 184349, Stop: 184723, Start Num: 10

Candidate Starts for Zooman_332:

(Start: 10 @184349 has 2 MA's), (11, 184379), (12, 184424), (14, 184487), (15, 184493), (16, 184517), (17, 184523), (20, 184577), (22, 184604),