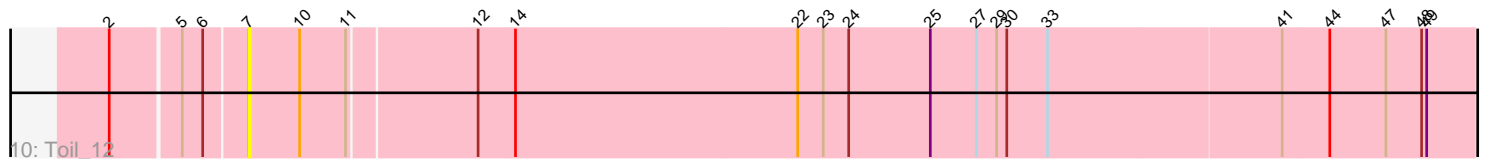
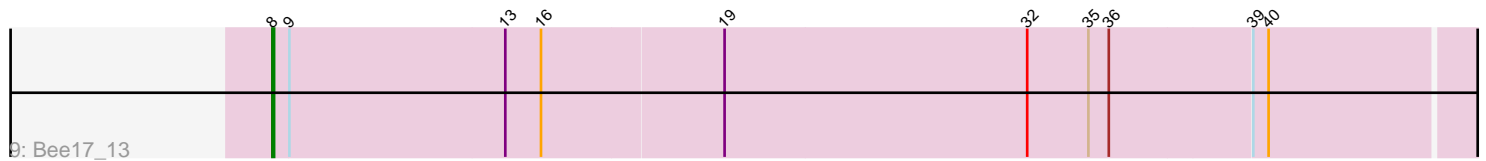
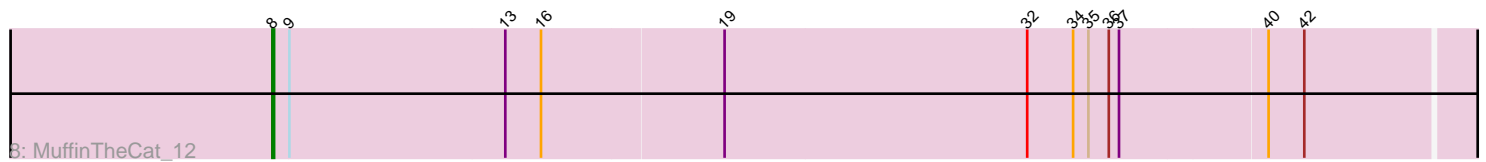
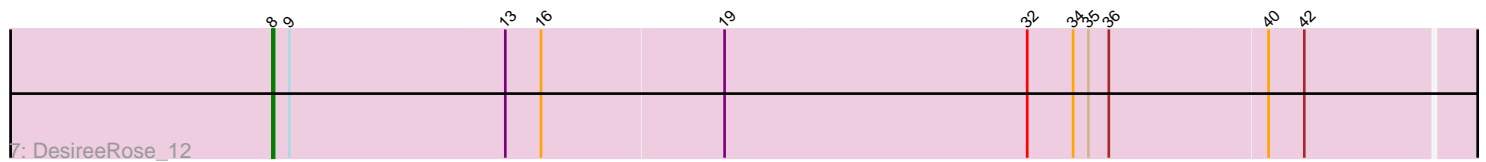
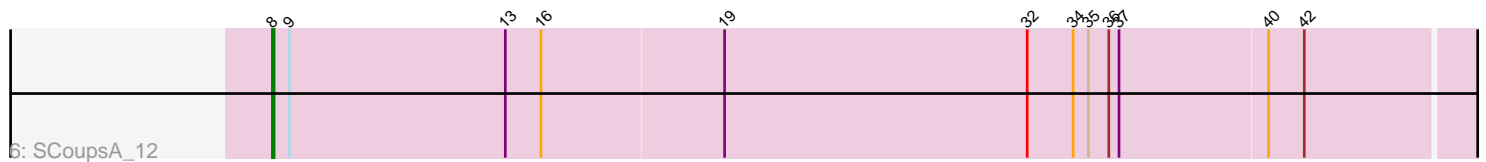
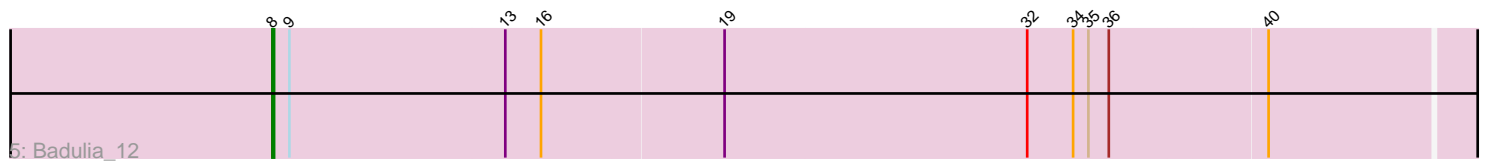
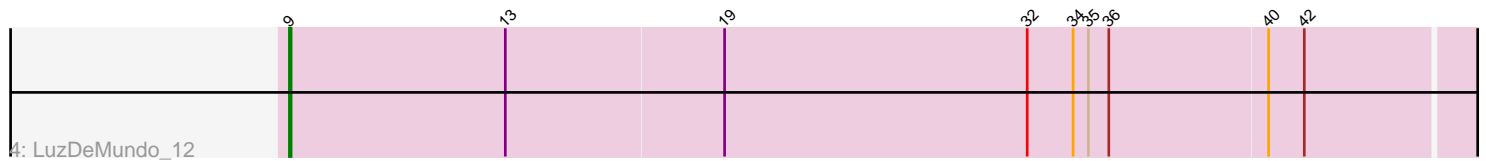
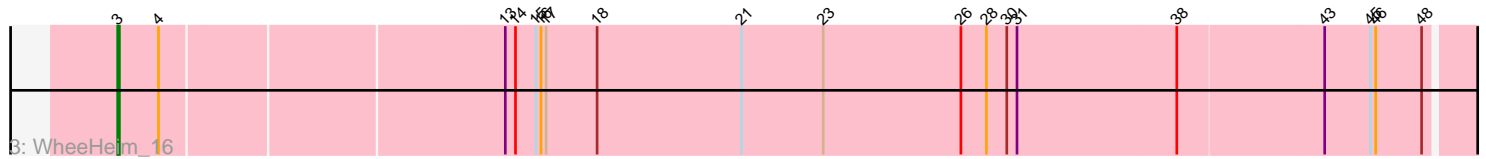
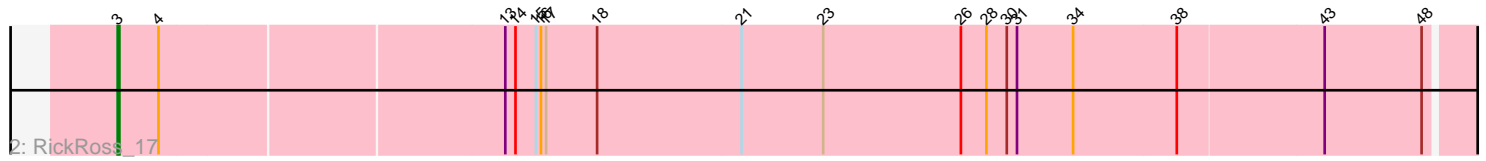
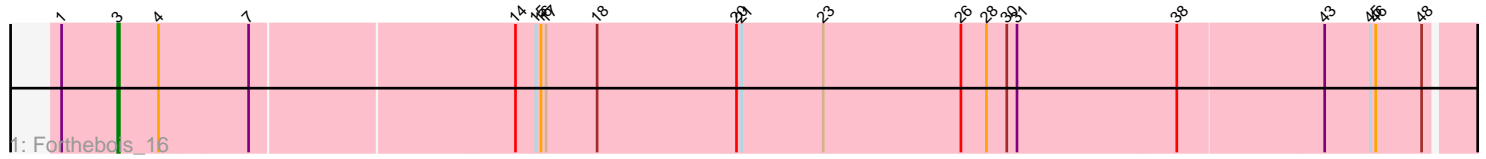


## Pham 126034



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 126034 Report

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

Pham number 126034 has 10 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Forthebois\_16
- Track 2 : RickRoss\_17
- Track 3 : WheeHeim\_16
- Track 4 : LuzDeMundo\_12
- Track 5 : Badulia\_12
- Track 6 : SCoupsA\_12
- Track 7 : DesireeRose\_12
- Track 8 : MuffinTheCat\_12
- Track 9 : Bee17\_13
- Track 10 : Toil\_12

### ***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 5 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Badulia\_12, Bee17\_13, DesireeRose\_12, MuffinTheCat\_12, SCoupsA\_12,

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

- 

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

- Forthebois\_16, LuzDeMundo\_12, RickRoss\_17, Toil\_12, WheeHeim\_16,

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

Start 3:

- Found in 3 of 10 ( 30.0% ) 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: Forthebois\_16 (BO), RickRoss\_17 (BO), WheeHeim\_16 (BO),

#### Start 7:

- Found in 2 of 10 ( 20.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Toil\_12 (singleton),

#### Start 8:

- Found in 5 of 10 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 5 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Badulia\_12 (GE), Bee17\_13 (GE), DesireeRose\_12 (GE), MuffinTheCat\_12 (GE), SCoupsA\_12 (GE),

#### Start 9:

- Found in 6 of 10 ( 60.0% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 16.7% of time when present
- Phage (with cluster) where this start called: LuzDeMundo\_12 (GE),

### Summary by clusters:

There are 3 clusters represented in this pham: GE, BO, singleton,

Info for manual annotations of cluster BO:

- Start number 3 was manually annotated 3 times for cluster BO.

Info for manual annotations of cluster GE:

- Start number 8 was manually annotated 5 times for cluster GE.
- Start number 9 was manually annotated 1 time for cluster GE.

### Gene Information:

Gene: Badulia\_12 Start: 5917, Stop: 6615, Start Num: 8

Candidate Starts for Badulia\_12:

(Start: 8 @5917 has 5 MA's), (Start: 9 @5926 has 1 MA's), (13, 6052), (16, 6073), (19, 6178), (32, 6355), (34, 6382), (35, 6391), (36, 6403), (40, 6493),

Gene: Bee17\_13 Start: 6063, Stop: 6761, Start Num: 8

Candidate Starts for Bee17\_13:

(Start: 8 @6063 has 5 MA's), (Start: 9 @6072 has 1 MA's), (13, 6198), (16, 6219), (19, 6324), (32, 6501), (35, 6537), (36, 6549), (39, 6630), (40, 6639),

Gene: DesireeRose\_12 Start: 5940, Stop: 6638, Start Num: 8

Candidate Starts for DesireeRose\_12:

(Start: 8 @5940 has 5 MA's), (Start: 9 @5949 has 1 MA's), (13, 6075), (16, 6096), (19, 6201), (32, 6378), (34, 6405), (35, 6414), (36, 6426), (40, 6516), (42, 6537),

Gene: Forthebois\_16 Start: 7723, Stop: 8511, Start Num: 3

Candidate Starts for Forthebois\_16:

(1, 7690), (Start: 3 @7723 has 3 MA's), (4, 7747), (7, 7798), (14, 7948), (15, 7960), (16, 7963), (17, 7966), (18, 7996), (20, 8077), (21, 8080), (23, 8128), (26, 8209), (28, 8224), (30, 8236), (31, 8242),

(38, 8335), (43, 8419), (45, 8446), (46, 8449), (48, 8476),

Gene: LuzDeMundo\_12 Start: 5912, Stop: 6601, Start Num: 9

Candidate Starts for LuzDeMundo\_12:

(Start: 9 @5912 has 1 MA's), (13, 6038), (19, 6164), (32, 6341), (34, 6368), (35, 6377), (36, 6389), (40, 6479), (42, 6500),

Gene: MuffinTheCat\_12 Start: 5941, Stop: 6639, Start Num: 8

Candidate Starts for MuffinTheCat\_12:

(Start: 8 @5941 has 5 MA's), (Start: 9 @5950 has 1 MA's), (13, 6076), (16, 6097), (19, 6202), (32, 6379), (34, 6406), (35, 6415), (36, 6427), (37, 6433), (40, 6517), (42, 6538),

Gene: RickRoss\_17 Start: 7806, Stop: 8594, Start Num: 3

Candidate Starts for RickRoss\_17:

(Start: 3 @7806 has 3 MA's), (4, 7830), (13, 8025), (14, 8031), (15, 8043), (16, 8046), (17, 8049), (18, 8079), (21, 8163), (23, 8211), (26, 8292), (28, 8307), (30, 8319), (31, 8325), (34, 8358), (38, 8418), (43, 8502), (48, 8559),

Gene: SCoupsA\_12 Start: 5917, Stop: 6615, Start Num: 8

Candidate Starts for SCoupsA\_12:

(Start: 8 @5917 has 5 MA's), (Start: 9 @5926 has 1 MA's), (13, 6052), (16, 6073), (19, 6178), (32, 6355), (34, 6382), (35, 6391), (36, 6403), (37, 6409), (40, 6493), (42, 6514),

Gene: Toil\_12 Start: 5783, Stop: 6499, Start Num: 7

Candidate Starts for Toil\_12:

(2, 5708), (5, 5747), (6, 5759), (7, 5783), (10, 5813), (11, 5840), (12, 5912), (14, 5933), (22, 6098), (23, 6113), (24, 6128), (25, 6176), (27, 6203), (29, 6215), (30, 6221), (33, 6245), (41, 6380), (44, 6407), (47, 6440), (48, 6461), (49, 6464),

Gene: WheeHeim\_16 Start: 7744, Stop: 8529, Start Num: 3

Candidate Starts for WheeHeim\_16:

(Start: 3 @7744 has 3 MA's), (4, 7768), (13, 7960), (14, 7966), (15, 7978), (16, 7981), (17, 7984), (18, 8014), (21, 8098), (23, 8146), (26, 8227), (28, 8242), (30, 8254), (31, 8260), (38, 8353), (43, 8437), (45, 8464), (46, 8467), (48, 8494),