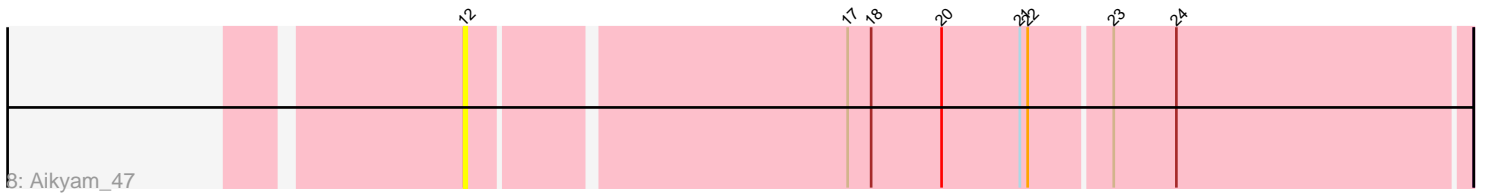
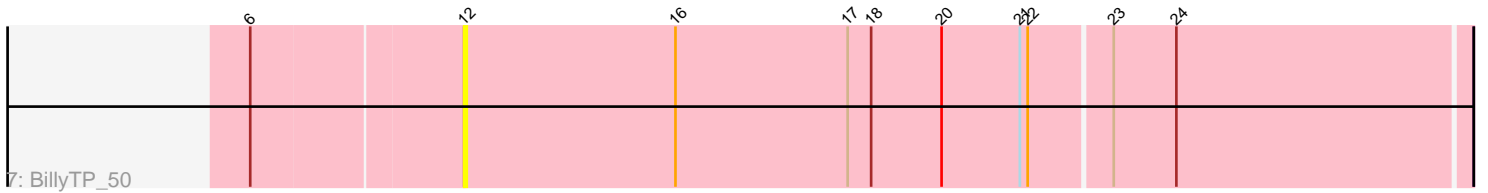
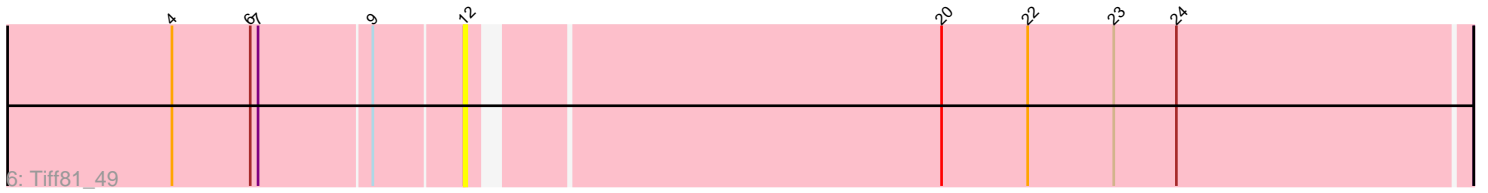
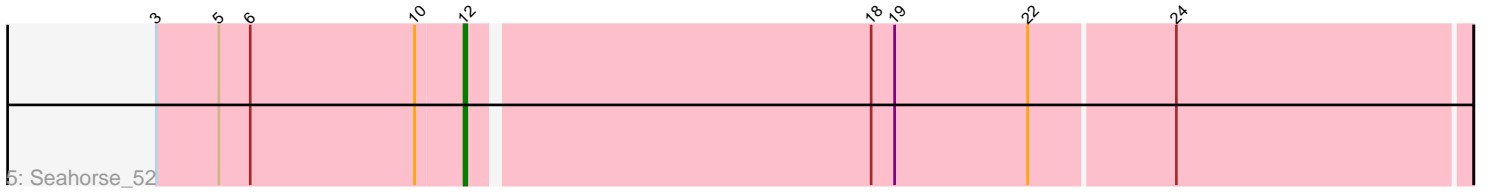
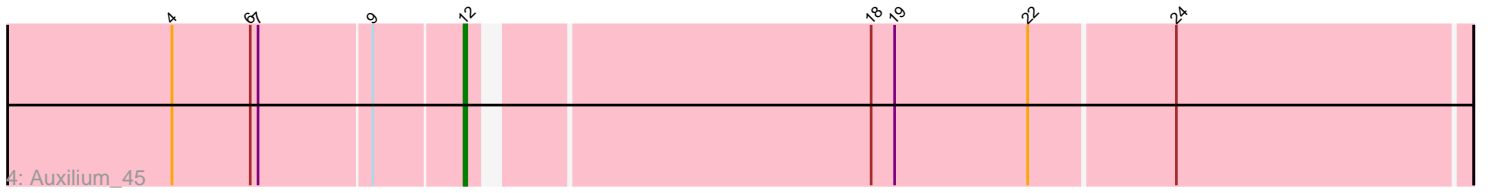
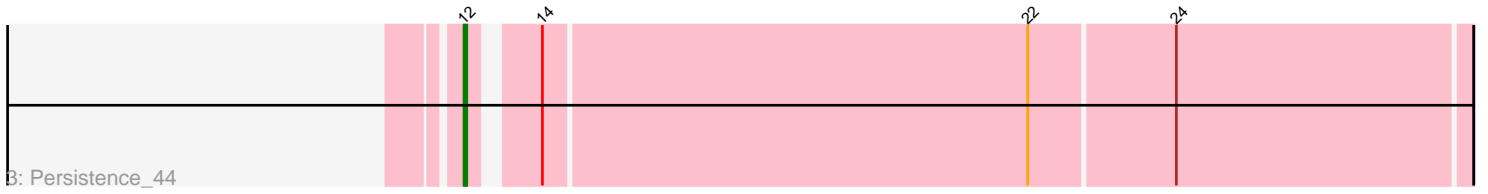
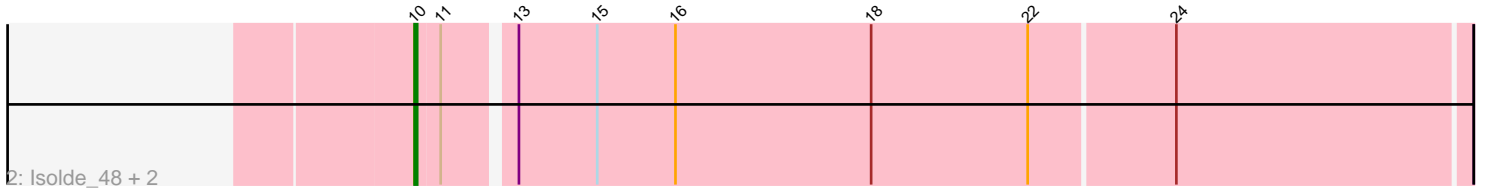
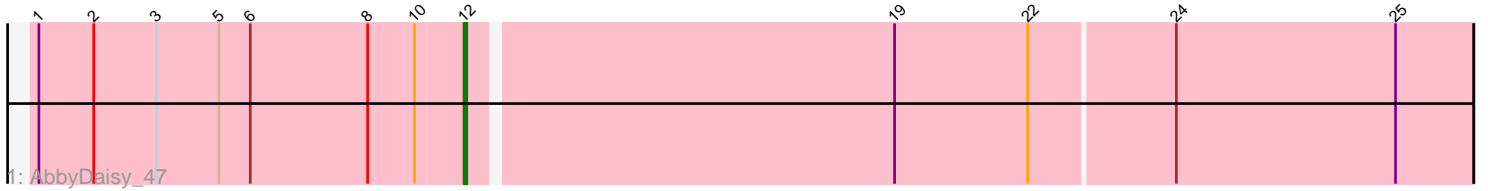


Pham 158374



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 158374 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158374 has 10 members, 5 are drafts.

Phages represented in each track:

- Track 1 : AbbyDaisy\_47
- Track 2 : Isolde\_48, Raphaella\_49, YoungHarleezy\_49
- Track 3 : Persistence\_44
- Track 4 : Auxilium\_45
- Track 5 : Seahorse\_52
- Track 6 : Tiff81\_49
- Track 7 : BillyTP\_50
- Track 8 : Aikyam\_47

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

The start number called the most often in the published annotations is 12, it was called in 4 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AbbyDaisy\_47, Aikyam\_47, Auxilium\_45, BillyTP\_50, Persistence\_44, Seahorse\_52, Tiff81\_49,

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

- 

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

- Isolde\_48, Raphaella\_49, YoungHarleezy\_49,

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

Start 10:

- Found in 5 of 10 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Isolde\_48 (AY), Raphaella\_49 (AY), YoungHarleezy\_49 (AY),

Start 12:

- Found in 7 of 10 ( 70.0% ) of genes in pham
- Manual Annotations of this start: 4 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AbbyDaisy\_47 (AY), Aikyam\_47 (AY), Auxilium\_45 (AY), BillyTP\_50 (AY), Persistence\_44 (AY), Seahorse\_52 (AY), Tiff81\_49 (AY),

### **Summary by clusters:**

There is one cluster represented in this pham: AY

Info for manual annotations of cluster AY:

- Start number 10 was manually annotated 1 time for cluster AY.
- Start number 12 was manually annotated 4 times for cluster AY.

### **Gene Information:**

Gene: AbbyDaisy\_47 Start: 30662, Stop: 31039, Start Num: 12

Candidate Starts for AbbyDaisy\_47:

(1, 30500), (2, 30521), (3, 30545), (5, 30569), (6, 30581), (8, 30626), (Start: 10 @30644 has 1 MA's), (Start: 12 @30662 has 4 MA's), (19, 30821), (22, 30872), (24, 30926), (25, 31010),

Gene: Aikyam\_47 Start: 28281, Stop: 28652, Start Num: 12

Candidate Starts for Aikyam\_47:

(Start: 12 @28281 has 4 MA's), (17, 28419), (18, 28428), (20, 28455), (21, 28485), (22, 28488), (23, 28518), (24, 28542),

Gene: Auxilium\_45 Start: 28077, Stop: 28445, Start Num: 12

Candidate Starts for Auxilium\_45:

(4, 27969), (6, 27999), (7, 28002), (9, 28044), (Start: 12 @28077 has 4 MA's), (18, 28221), (19, 28230), (22, 28281), (24, 28335),

Gene: BillyTP\_50 Start: 31459, Stop: 31839, Start Num: 12

Candidate Starts for BillyTP\_50:

(6, 31381), (Start: 12 @31459 has 4 MA's), (16, 31540), (17, 31606), (18, 31615), (20, 31642), (21, 31672), (22, 31675), (23, 31705), (24, 31729),

Gene: Isolde\_48 Start: 30136, Stop: 30528, Start Num: 10

Candidate Starts for Isolde\_48:

(Start: 10 @30136 has 1 MA's), (11, 30145), (13, 30169), (15, 30199), (16, 30229), (18, 30304), (22, 30364), (24, 30418),

Gene: Persistence\_44 Start: 29226, Stop: 29594, Start Num: 12

Candidate Starts for Persistence\_44:

(Start: 12 @29226 has 4 MA's), (14, 29247), (22, 29430), (24, 29484),

Gene: Raphaella\_49 Start: 30068, Stop: 30460, Start Num: 10

Candidate Starts for Raphaella\_49:

(Start: 10 @30068 has 1 MA's), (11, 30077), (13, 30101), (15, 30131), (16, 30161), (18, 30236), (22, 30296), (24, 30350),

Gene: Seahorse\_52 Start: 32428, Stop: 32802, Start Num: 12

Candidate Starts for Seahorse\_52:

(3, 32311), (5, 32335), (6, 32347), (Start: 10 @32410 has 1 MA's), (Start: 12 @32428 has 4 MA's), (18, 32578), (19, 32587), (22, 32638), (24, 32692),

Gene: Tiff81\_49 Start: 28602, Stop: 28973, Start Num: 12

Candidate Starts for Tiff81\_49:

(4, 28494), (6, 28524), (7, 28527), (9, 28569), (Start: 12 @28602 has 4 MA's), (20, 28773), (22, 28806), (23, 28839), (24, 28863),

Gene: YoungHarleezy\_49 Start: 30634, Stop: 31026, Start Num: 10

Candidate Starts for YoungHarleezy\_49:

(Start: 10 @30634 has 1 MA's), (11, 30643), (13, 30667), (15, 30697), (16, 30727), (18, 30802), (22, 30862), (24, 30916),