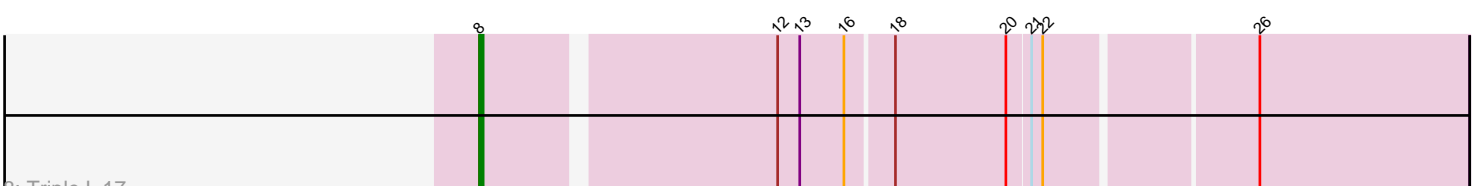
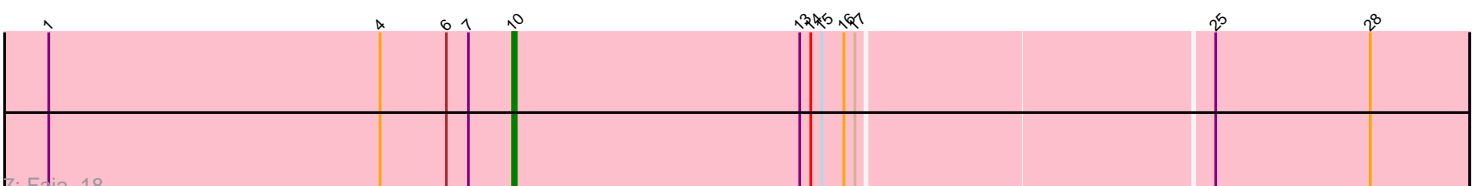
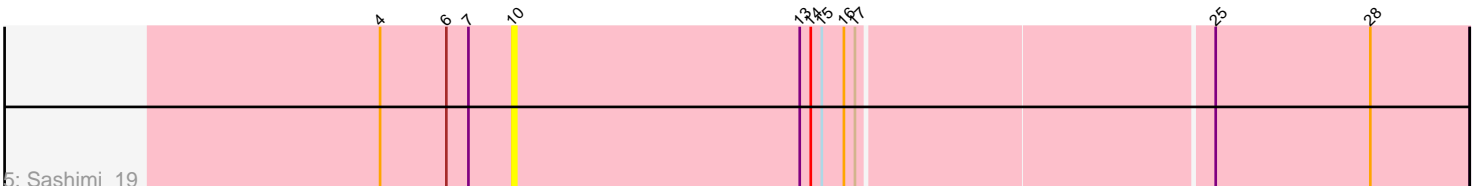
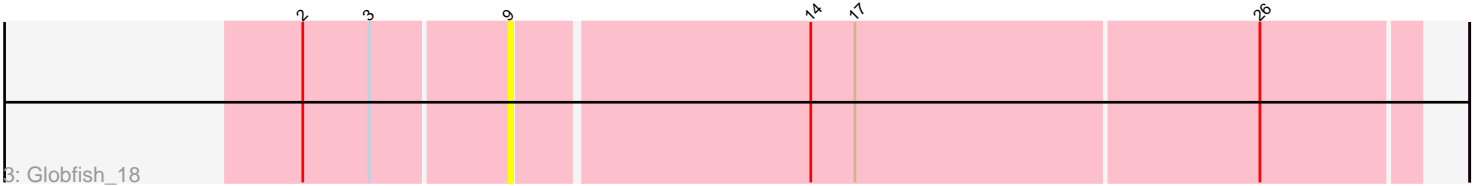
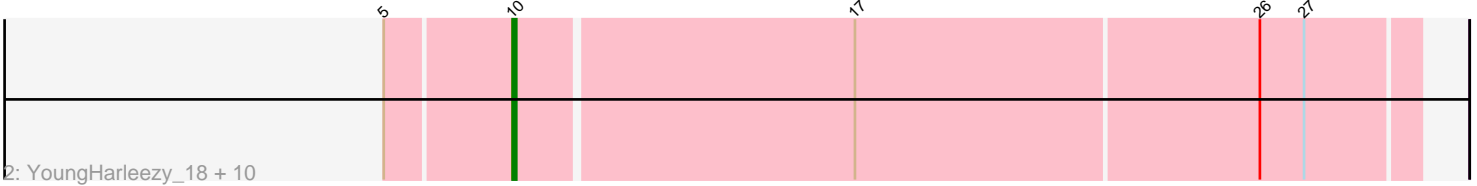
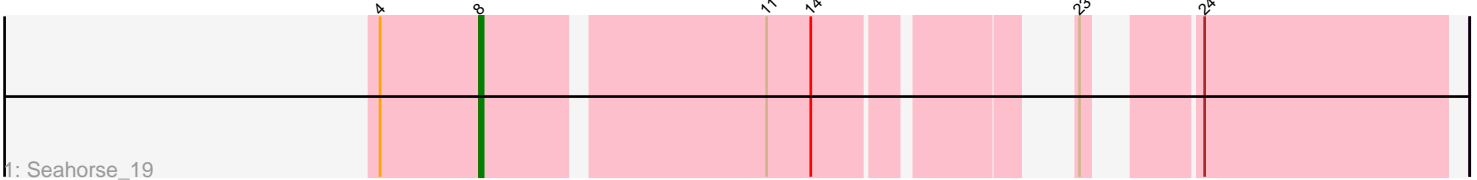


Pham 135909



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 135909 Report

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

Pham number 135909 has 18 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Seahorse\_19
- Track 2 : YoungHarleezy\_18, RadFad\_18, Auxilium\_18, MidnightRain\_18, CookieBear\_19, Sakai\_18, Hillester\_18, Raphaella\_19, Gorpy\_18, Richie\_18, BenchScraper\_18
- Track 3 : Globfish\_18
- Track 4 : Aikyam\_18
- Track 5 : Sashimi\_19
- Track 6 : Hestia\_18
- Track 7 : Faja\_18
- Track 8 : TripleJ\_17

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

The start number called the most often in the published annotations is 10, it was called in 7 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aikyam\_18, Auxilium\_18, BenchScraper\_18, CookieBear\_19, Faja\_18, Gorpy\_18, Hillester\_18, MidnightRain\_18, RadFad\_18, Raphaella\_19, Richie\_18, Sakai\_18, Sashimi\_19, YoungHarleezy\_18,

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

- 

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

- Globfish\_18, Hestia\_18, Seahorse\_19, TripleJ\_17,

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

Start 8:

- Found in 3 of 18 ( 16.7% ) 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: Hestia\_18 (AY), Seahorse\_19 (AY), TripleJ\_17 (FJ),

Start 9:

- Found in 1 of 18 ( 5.6% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Globfish\_18 (AY),

Start 10:

- Found in 14 of 18 ( 77.8% ) of genes in pham
- Manual Annotations of this start: 7 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aikyam\_18 (AY), Auxilium\_18 (AY), BenchScraper\_18 (AY), CookieBear\_19 (AY), Faja\_18 (AY), Gorpy\_18 (AY), Hillester\_18 (AY), MidnightRain\_18 (AY), RadFad\_18 (AY), Raphaella\_19 (AY), Richie\_18 (AY), Sakai\_18 (AY), Sashimi\_19 (AY), YoungHarleezy\_18 (AY),

### **Summary by clusters:**

There are 2 clusters represented in this pham: AY, FJ,

Info for manual annotations of cluster AY:

- Start number 8 was manually annotated 2 times for cluster AY.
- Start number 10 was manually annotated 7 times for cluster AY.

Info for manual annotations of cluster FJ:

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

### **Gene Information:**

Gene: Aikyam\_18 Start: 10771, Stop: 10532, Start Num: 10

Candidate Starts for Aikyam\_18:

(5, 10804), (Start: 10 @10771 has 7 MA's), (17, 10681), (26, 10573), (27, 10561), (28, 10543),

Gene: Auxilium\_18 Start: 10770, Stop: 10531, Start Num: 10

Candidate Starts for Auxilium\_18:

(5, 10803), (Start: 10 @10770 has 7 MA's), (17, 10680), (26, 10572), (27, 10560),

Gene: BenchScraper\_18 Start: 10785, Stop: 10546, Start Num: 10

Candidate Starts for BenchScraper\_18:

(5, 10818), (Start: 10 @10785 has 7 MA's), (17, 10695), (26, 10587), (27, 10575),

Gene: CookieBear\_19 Start: 10770, Stop: 10531, Start Num: 10

Candidate Starts for CookieBear\_19:

(5, 10803), (Start: 10 @10770 has 7 MA's), (17, 10680), (26, 10572), (27, 10560),

Gene: Faja\_18 Start: 10960, Stop: 10706, Start Num: 10

Candidate Starts for Faja\_18:

(1, 11086), (4, 10996), (6, 10978), (7, 10972), (Start: 10 @10960 has 7 MA's), (13, 10882), (14, 10879), (15, 10876), (16, 10870), (17, 10867), (25, 10774), (28, 10732),

Gene: Globfish\_18 Start: 10844, Stop: 10605, Start Num: 9

Candidate Starts for Globfish\_18:

(2, 10898), (3, 10880), (9, 10844), (14, 10766), (17, 10754), (26, 10646),

Gene: Gorpy\_18 Start: 10779, Stop: 10540, Start Num: 10

Candidate Starts for Gorpy\_18:

(5, 10812), (Start: 10 @10779 has 7 MA's), (17, 10689), (26, 10581), (27, 10569),

Gene: Hestia\_18 Start: 10916, Stop: 10662, Start Num: 8

Candidate Starts for Hestia\_18:

(Start: 8 @10916 has 3 MA's), (11, 10841), (13, 10832), (18, 10808), (19, 10799), (21, 10772), (22, 10769), (24, 10730),

Gene: Hillester\_18 Start: 10770, Stop: 10531, Start Num: 10

Candidate Starts for Hillester\_18:

(5, 10803), (Start: 10 @10770 has 7 MA's), (17, 10680), (26, 10572), (27, 10560),

Gene: MidnightRain\_18 Start: 10769, Stop: 10530, Start Num: 10

Candidate Starts for MidnightRain\_18:

(5, 10802), (Start: 10 @10769 has 7 MA's), (17, 10679), (26, 10571), (27, 10559),

Gene: RadFad\_18 Start: 10770, Stop: 10531, Start Num: 10

Candidate Starts for RadFad\_18:

(5, 10803), (Start: 10 @10770 has 7 MA's), (17, 10680), (26, 10572), (27, 10560),

Gene: Raphaella\_19 Start: 10770, Stop: 10531, Start Num: 10

Candidate Starts for Raphaella\_19:

(5, 10803), (Start: 10 @10770 has 7 MA's), (17, 10680), (26, 10572), (27, 10560),

Gene: Richie\_18 Start: 10785, Stop: 10546, Start Num: 10

Candidate Starts for Richie\_18:

(5, 10818), (Start: 10 @10785 has 7 MA's), (17, 10695), (26, 10587), (27, 10575),

Gene: Sakai\_18 Start: 10779, Stop: 10540, Start Num: 10

Candidate Starts for Sakai\_18:

(5, 10812), (Start: 10 @10779 has 7 MA's), (17, 10689), (26, 10581), (27, 10569),

Gene: Sashimi\_19 Start: 11077, Stop: 10823, Start Num: 10

Candidate Starts for Sashimi\_19:

(4, 11113), (6, 11095), (7, 11089), (Start: 10 @11077 has 7 MA's), (13, 10999), (14, 10996), (15, 10993), (16, 10987), (17, 10984), (25, 10891), (28, 10849),

Gene: Seahorse\_19 Start: 11026, Stop: 10805, Start Num: 8

Candidate Starts for Seahorse\_19:

(4, 11053), (Start: 8 @11026 has 3 MA's), (11, 10954), (14, 10942), (23, 10891), (24, 10870),

Gene: TripleJ\_17 Start: 11025, Stop: 10771, Start Num: 8

Candidate Starts for TripleJ\_17:

(Start: 8 @11025 has 3 MA's), (12, 10950), (13, 10944), (16, 10932), (18, 10920), (20, 10890), (21, 10884), (22, 10881), (26, 10827),

Gene: YoungHarleezy\_18 Start: 10783, Stop: 10544, Start Num: 10

Candidate Starts for YoungHarleezy\_18:

(5, 10816), (Start: 10 @10783 has 7 MA's), (17, 10693), (26, 10585), (27, 10573),