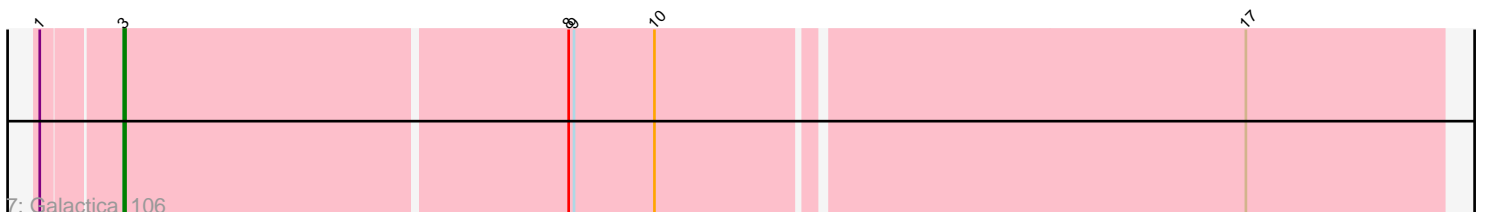
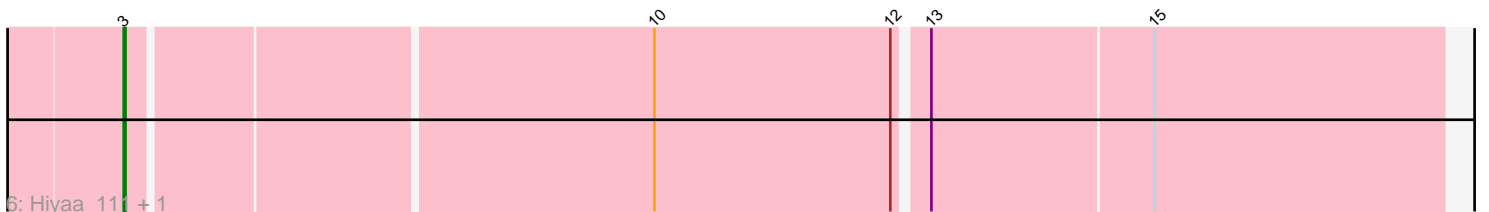
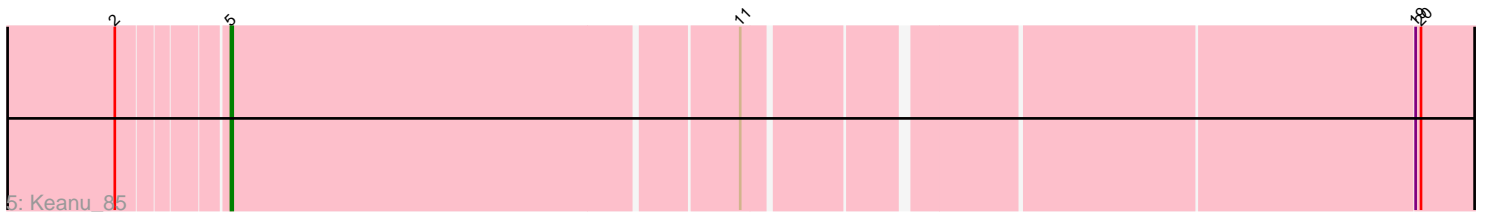
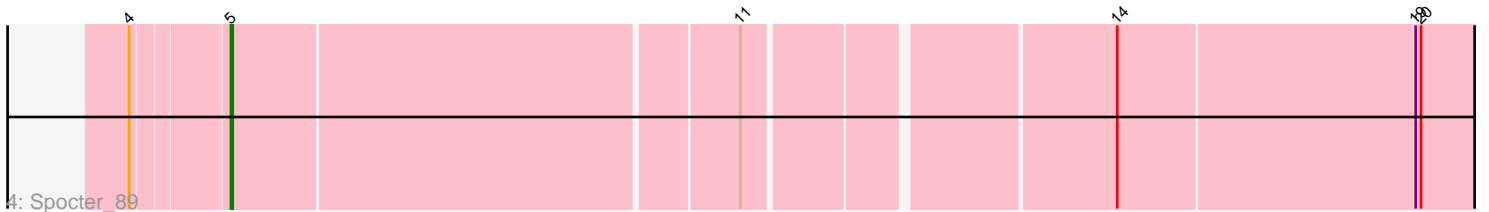
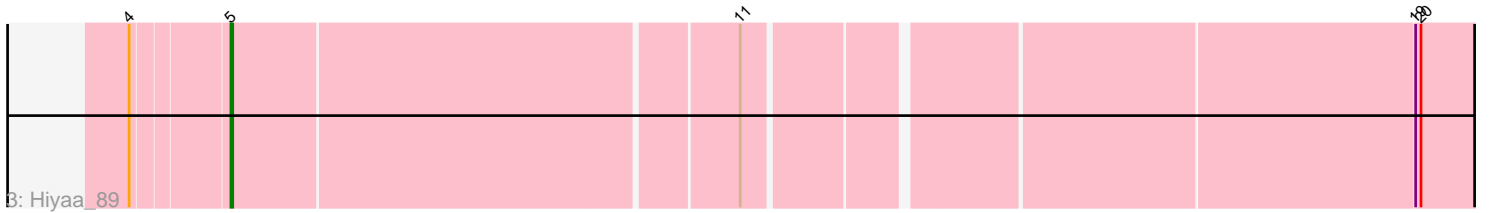
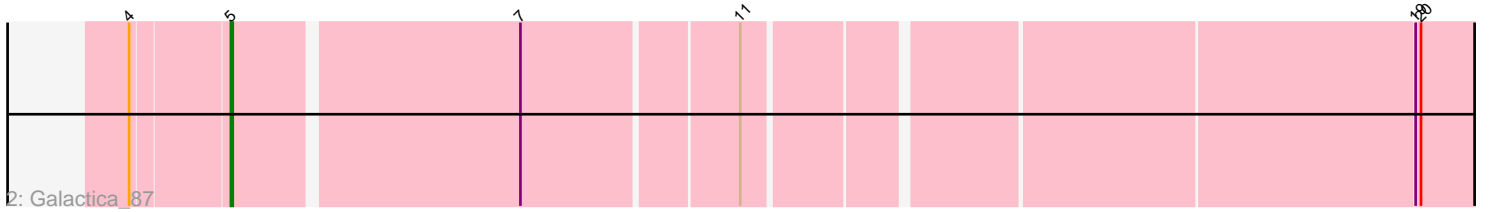
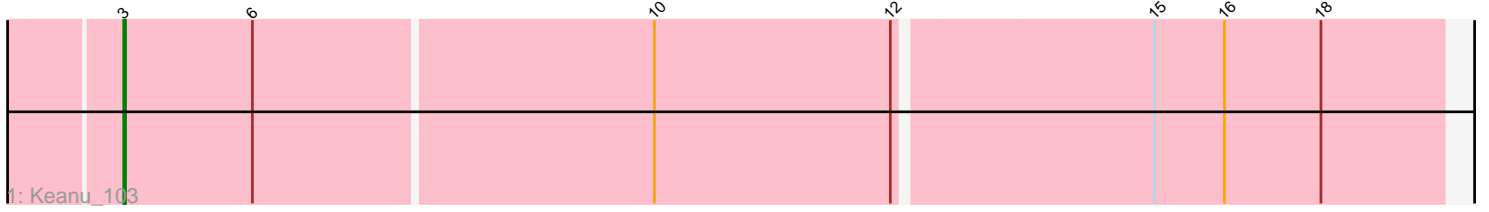


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 225176 Report

This analysis was run 03/28/25 on database version 593.

Pham number 225176 has 8 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Keanu\_103
- Track 2 : Galactica\_87
- Track 3 : Hiyaa\_89
- Track 4 : Spocter\_89
- Track 5 : Keanu\_85
- Track 6 : Hiyaa\_111, Spocter\_108
- Track 7 : Galactica\_106

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

The start number called the most often in the published annotations is 3, it was called in 4 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Galactica\_106, Hiyaa\_111, Keanu\_103, Spocter\_108,

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

- 

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

- Galactica\_87, Hiyaa\_89, Keanu\_85, Spocter\_89,

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

Start 3:

- Found in 4 of 8 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 4 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Galactica\_106 (BQ), Hiyaa\_111 (BQ), Keanu\_103 (BQ), Spocter\_108 (BQ),

Start 5:

- Found in 4 of 8 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 4 of 8

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Galactica\_87 (BQ), Hiyaa\_89 (BQ), Keanu\_85 (BQ), Spocter\_89 (BQ),

### **Summary by clusters:**

There is one cluster represented in this pham: BQ

Info for manual annotations of cluster BQ:

- Start number 3 was manually annotated 4 times for cluster BQ.
- Start number 5 was manually annotated 4 times for cluster BQ.

### **Gene Information:**

Gene: Galactica\_87 Start: 60485, Stop: 61150, Start Num: 5

Candidate Starts for Galactica\_87:

(4, 60434), (Start: 5 @60485 has 4 MA's), (7, 60638), (11, 60752), (19, 61103), (20, 61106),

Gene: Galactica\_106 Start: 73883, Stop: 74602, Start Num: 3

Candidate Starts for Galactica\_106:

(1, 73841), (Start: 3 @73883 has 4 MA's), (8, 74126), (9, 74129), (10, 74174), (17, 74492),

Gene: Hiyaa\_89 Start: 61249, Stop: 61920, Start Num: 5

Candidate Starts for Hiyaa\_89:

(4, 61201), (Start: 5 @61249 has 4 MA's), (11, 61522), (19, 61873), (20, 61876),

Gene: Hiyaa\_111 Start: 75302, Stop: 76012, Start Num: 3

Candidate Starts for Hiyaa\_111:

(Start: 3 @75302 has 4 MA's), (10, 75584), (12, 75716), (13, 75731), (15, 75851),

Gene: Keanu\_103 Start: 74187, Stop: 74909, Start Num: 3

Candidate Starts for Keanu\_103:

(Start: 3 @74187 has 4 MA's), (6, 74259), (10, 74478), (12, 74610), (15, 74748), (16, 74787), (18, 74841),

Gene: Keanu\_85 Start: 60621, Stop: 61295, Start Num: 5

Candidate Starts for Keanu\_85:

(2, 60567), (Start: 5 @60621 has 4 MA's), (11, 60897), (19, 61248), (20, 61251),

Gene: Spocter\_89 Start: 61605, Stop: 62276, Start Num: 5

Candidate Starts for Spocter\_89:

(4, 61557), (Start: 5 @61605 has 4 MA's), (11, 61878), (14, 62067), (19, 62229), (20, 62232),

Gene: Spocter\_108 Start: 74822, Stop: 75532, Start Num: 3

Candidate Starts for Spocter\_108:

(Start: 3 @74822 has 4 MA's), (10, 75104), (12, 75236), (13, 75251), (15, 75371),