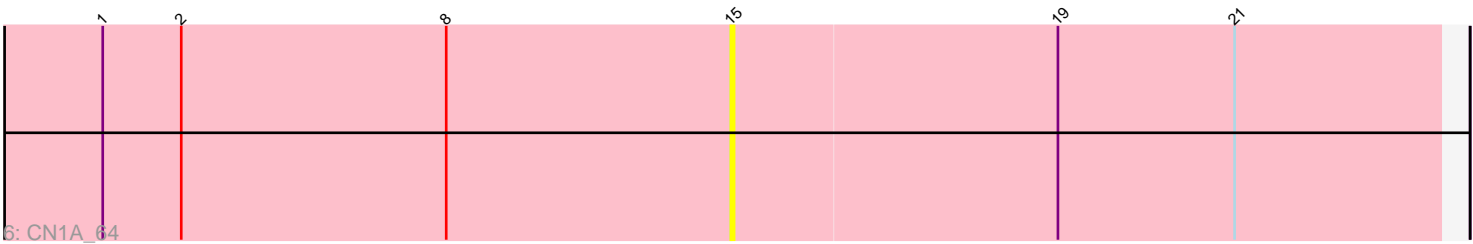
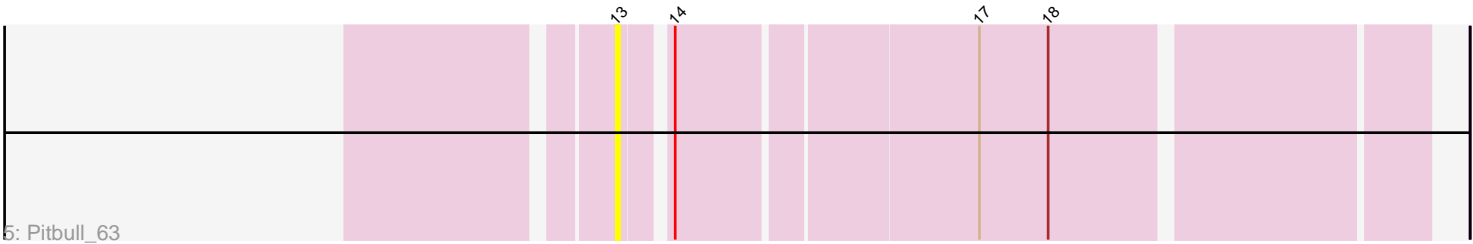
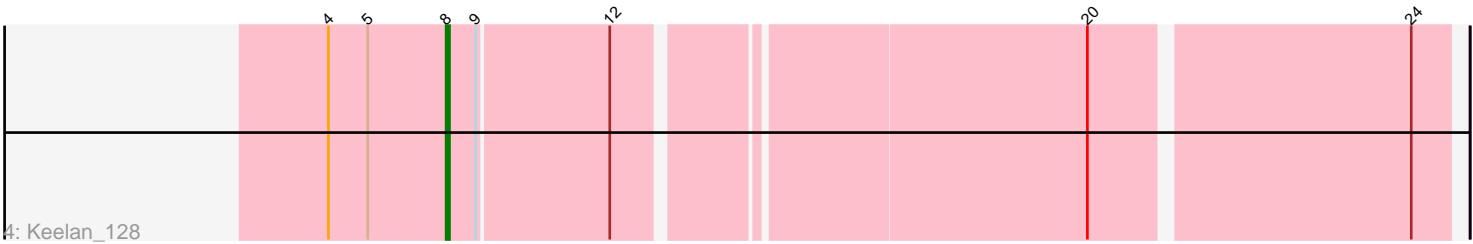
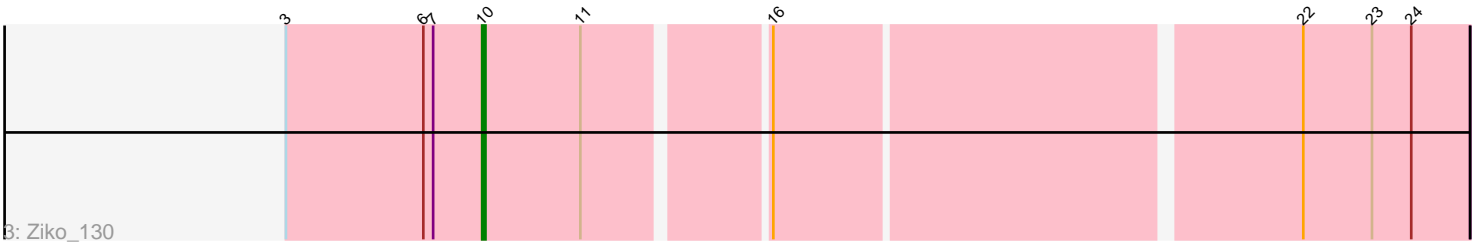
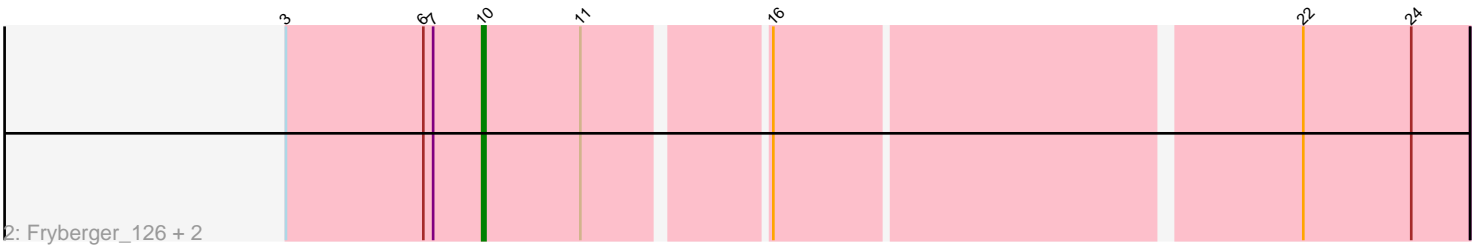
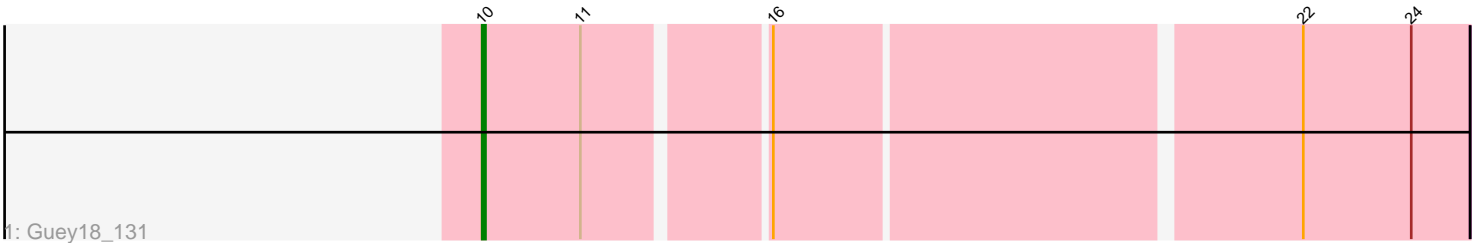


Pham 88046



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 88046 Report

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

Pham number 88046 has 8 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Guey18\_131
- Track 2 : Fryberger\_126, Ronaldo\_128, Volt\_131
- Track 3 : Ziko\_130
- Track 4 : Keelan\_128
- Track 5 : Pitbull\_63
- Track 6 : CN1A\_64

### ***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 5 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Fryberger\_126, Guey18\_131, Ronaldo\_128, Volt\_131, Ziko\_130,

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

- 

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

- CN1A\_64, Keelan\_128, Pitbull\_63,

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

Start 8:

- Found in 2 of 8 ( 25.0% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Keelan\_128 (DP),

Start 10:

- Found in 5 of 8 ( 62.5% ) of genes in pham
- Manual Annotations of this start: 5 of 6
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Fryberger\_126 (DP), Guey18\_131 (DP), Ronaldo\_128 (DP), Volt\_131 (DP), Ziko\_130 (DP),

Start 13:

- Found in 1 of 8 ( 12.5% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pitbull\_63 (FQ),

Start 15:

- Found in 1 of 8 ( 12.5% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CN1A\_64 (singleton),

### **Summary by clusters:**

There are 3 clusters represented in this pham: FQ, singleton, DP,

Info for manual annotations of cluster DP:

- Start number 8 was manually annotated 1 time for cluster DP.
- Start number 10 was manually annotated 5 times for cluster DP.

### **Gene Information:**

Gene: CN1A\_64 Start: 51194, Stop: 50979, Start Num: 15

Candidate Starts for CN1A\_64:

(1, 51386), (2, 51362), (Start: 8 @51281 has 1 MA's), (15, 51194), (19, 51095), (21, 51041),

Gene: Fryberger\_126 Start: 61263, Stop: 61547, Start Num: 10

Candidate Starts for Fryberger\_126:

(3, 61203), (6, 61245), (7, 61248), (Start: 10 @61263 has 5 MA's), (11, 61293), (16, 61344), (22, 61497), (24, 61530),

Gene: Guey18\_131 Start: 62476, Stop: 62760, Start Num: 10

Candidate Starts for Guey18\_131:

(Start: 10 @62476 has 5 MA's), (11, 62506), (16, 62557), (22, 62710), (24, 62743),

Gene: Keelan\_128 Start: 62084, Stop: 62371, Start Num: 8

Candidate Starts for Keelan\_128:

(4, 62048), (5, 62060), (Start: 8 @62084 has 1 MA's), (9, 62093), (12, 62132), (20, 62267), (24, 62360),

Gene: Pitbull\_63 Start: 35734, Stop: 35961, Start Num: 13

Candidate Starts for Pitbull\_63:

(13, 35734), (14, 35746), (17, 35833), (18, 35854),

Gene: Ronaldo\_128 Start: 62168, Stop: 62452, Start Num: 10

Candidate Starts for Ronaldo\_128:

(3, 62108), (6, 62150), (7, 62153), (Start: 10 @62168 has 5 MA's), (11, 62198), (16, 62249), (22, 62402), (24, 62435),

Gene: Volt\_131 Start: 62332, Stop: 62616, Start Num: 10

Candidate Starts for Volt\_131:

(3, 62272), (6, 62314), (7, 62317), (Start: 10 @62332 has 5 MA's), (11, 62362), (16, 62413), (22, 62566), (24, 62599),

Gene: Ziko\_130 Start: 62399, Stop: 62683, Start Num: 10

Candidate Starts for Ziko\_130:

(3, 62339), (6, 62381), (7, 62384), (Start: 10 @62399 has 5 MA's), (11, 62429), (16, 62480), (22, 62633), (23, 62654), (24, 62666),