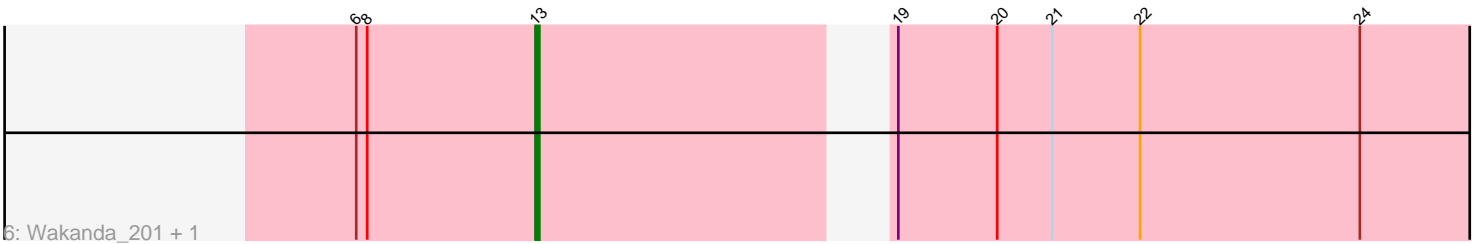
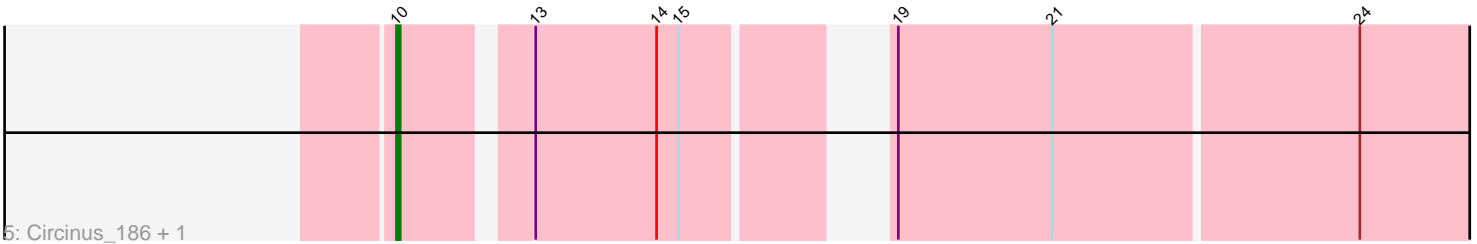
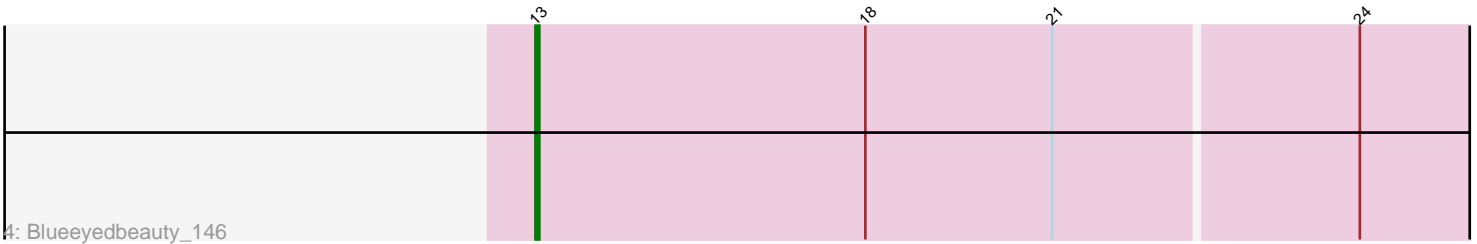
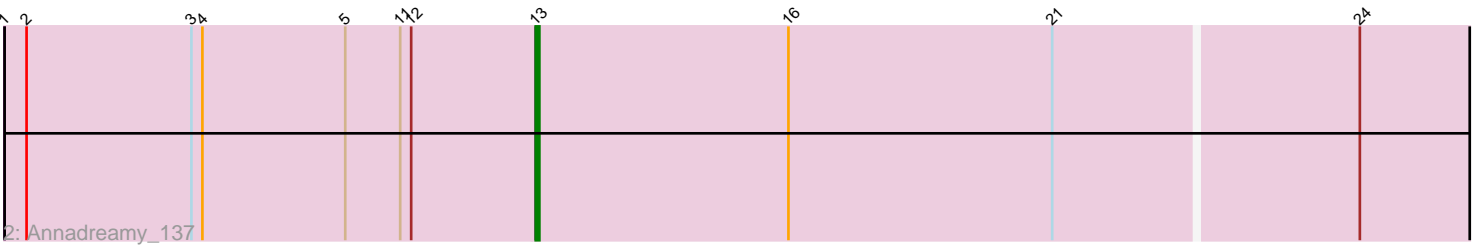
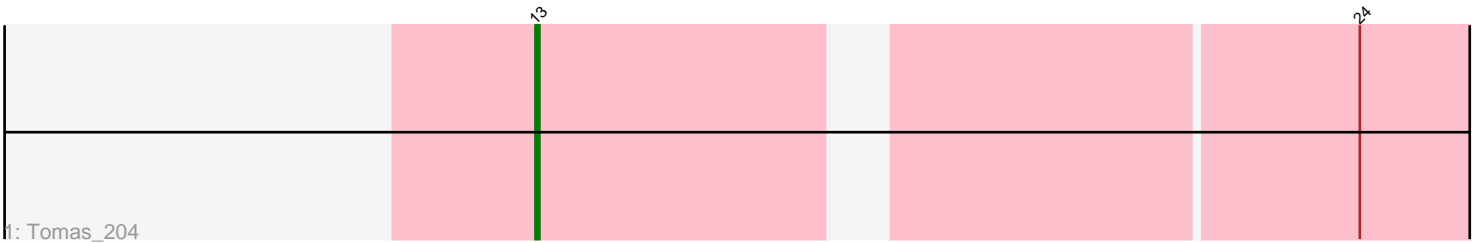


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 106983 Report

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

Pham number 106983 has 8 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Tomas\_204
- Track 2 : Annadreamy\_137
- Track 3 : Limpid\_144
- Track 4 : Blueeyedbeauty\_146
- Track 5 : Circinus\_186, BillNye\_185
- Track 6 : Wakanda\_201, Muntaha\_201

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

The start number called the most often in the published annotations is 13, it was called in 6 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Annadreamy\_137, Blueeyedbeauty\_146, Limpid\_144, Muntaha\_201, Tomas\_204, Wakanda\_201,

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

- BillNye\_185, Circinus\_186,

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

- 

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

Start 10:

- Found in 2 of 8 ( 25.0% ) of genes in pham
- Manual Annotations of this start: 2 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BillNye\_185 (BK2), Circinus\_186 (BK2),

Start 13:

- Found in 8 of 8 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 6 of 8
- Called 75.0% of time when present

- Phage (with cluster) where this start called: Annadreamy\_137 (BK1), Blueeyedbeauty\_146 (BK1), Limpid\_144 (BK1), Muntaha\_201 (BK2), Tomas\_204 (BE2), Wakanda\_201 (BK2),

### **Summary by clusters:**

There are 3 clusters represented in this pham: BE2, BK1, BK2,

Info for manual annotations of cluster BE2:

- Start number 13 was manually annotated 1 time for cluster BE2.

Info for manual annotations of cluster BK1:

- Start number 13 was manually annotated 3 times for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 10 was manually annotated 2 times for cluster BK2.
- Start number 13 was manually annotated 2 times for cluster BK2.

### **Gene Information:**

Gene: Annadreamy\_137 Start: 78450, Stop: 78728, Start Num: 13

Candidate Starts for Annadreamy\_137:

(1, 78306), (2, 78312), (3, 78357), (4, 78360), (5, 78399), (11, 78414), (12, 78417), (Start: 13 @78450 has 6 MA's), (16, 78519), (21, 78591), (24, 78672),

Gene: BillNye\_185 Start: 100941, Stop: 101222, Start Num: 10

Candidate Starts for BillNye\_185:

(Start: 10 @100941 has 2 MA's), (Start: 13 @100971 has 6 MA's), (14, 101004), (15, 101010), (19, 101049), (21, 101091), (24, 101172),

Gene: Blueeyedbeauty\_146 Start: 82881, Stop: 83156, Start Num: 13

Candidate Starts for Blueeyedbeauty\_146:

(Start: 13 @82881 has 6 MA's), (18, 82971), (21, 83022), (24, 83103),

Gene: Circinus\_186 Start: 100748, Stop: 101029, Start Num: 10

Candidate Starts for Circinus\_186:

(Start: 10 @100748 has 2 MA's), (Start: 13 @100778 has 6 MA's), (14, 100811), (15, 100817), (19, 100856), (21, 100898), (24, 100979),

Gene: Limpid\_144 Start: 83751, Stop: 84029, Start Num: 13

Candidate Starts for Limpid\_144:

(7, 83709), (9, 83712), (Start: 13 @83751 has 6 MA's), (17, 83832), (21, 83892), (23, 83922), (24, 83973),

Gene: Muntaha\_201 Start: 100967, Stop: 101224, Start Num: 13

Candidate Starts for Muntaha\_201:

(6, 100919), (8, 100922), (Start: 13 @100967 has 6 MA's), (19, 101048), (20, 101075), (21, 101090), (22, 101114), (24, 101174),

Gene: Tomas\_204 Start: 104194, Stop: 104463, Start Num: 13

Candidate Starts for Tomas\_204:

(Start: 13 @104194 has 6 MA's), (24, 104398),

Gene: Wakanda\_201 Start: 101248, Stop: 101505, Start Num: 13

Candidate Starts for Wakanda\_201:

(6, 101200), (8, 101203), (Start: 13 @101248 has 6 MA's), (19, 101329), (20, 101356), (21, 101371),  
(22, 101395), (24, 101455),