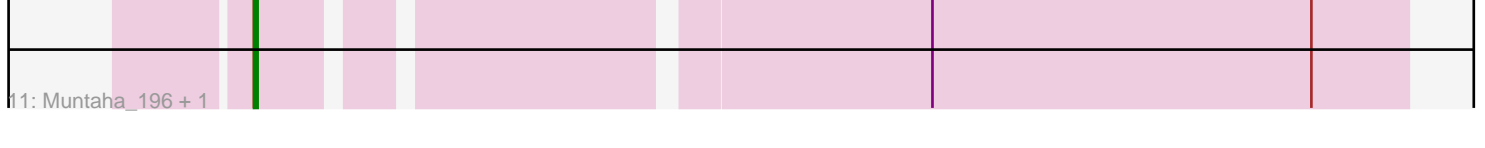
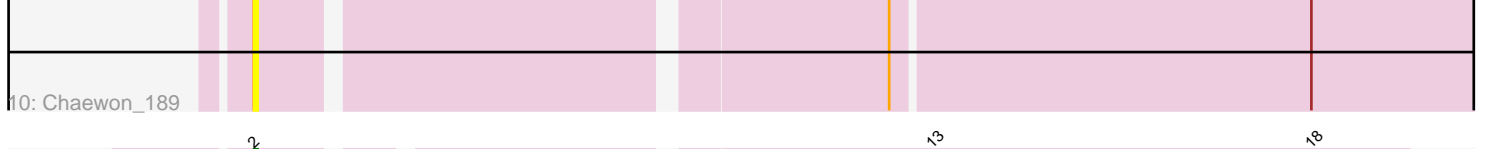
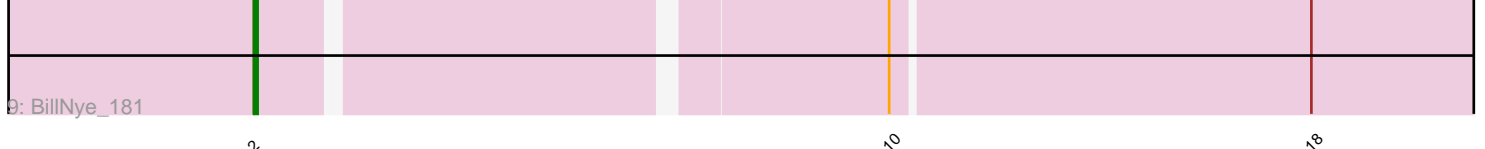
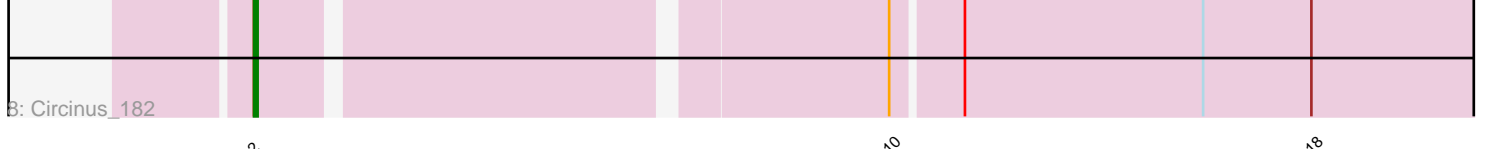
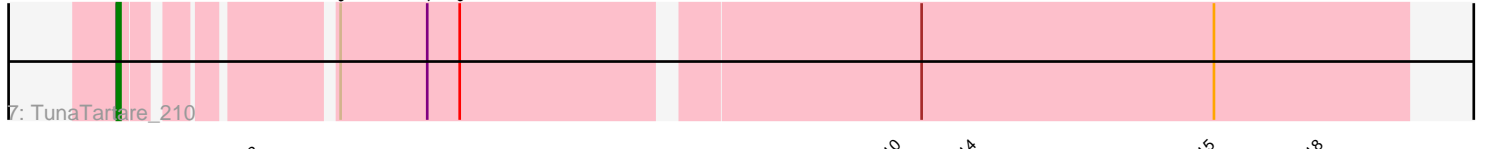
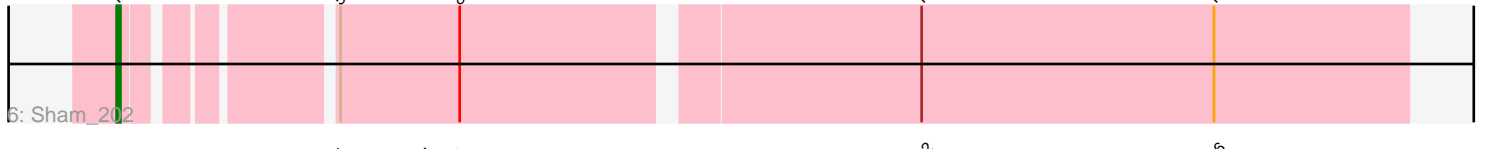
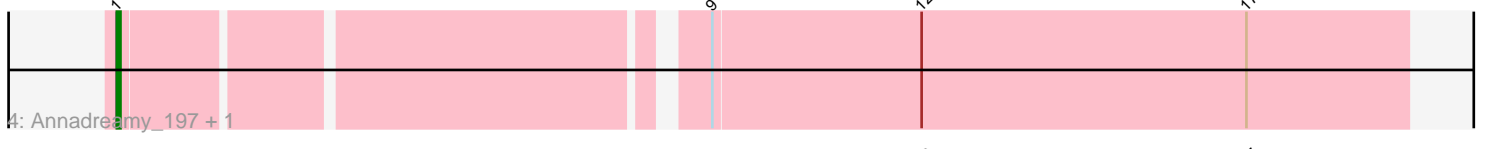
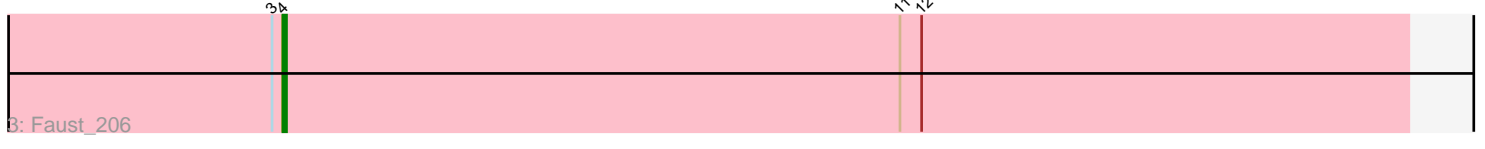
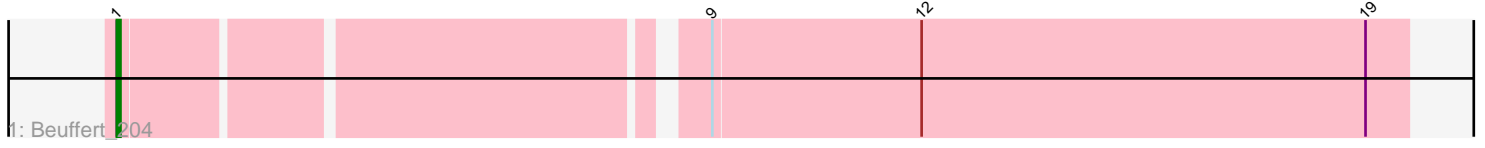


Pham 293265



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 293265 Report

This analysis was run 04/18/26 on database version 643.

Pham number 293265 has 14 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Beuffert\_204
- Track 2 : Faust\_205, SeresaTree\_209
- Track 3 : Faust\_206
- Track 4 : Annadreamy\_197, Limpid\_204
- Track 5 : Blueeyedbeauty\_206
- Track 6 : Sham\_202
- Track 7 : TunaTartare\_210
- Track 8 : Circinus\_182
- Track 9 : BillNye\_181
- Track 10 : Chaewon\_189
- Track 11 : Muntaha\_196, Wakanda\_196

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

The start number called the most often in the published annotations is 1, it was called in 7 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Annadreamy\_197, Beuffert\_204, Blueeyedbeauty\_206, Faust\_205, Limpid\_204, SeresaTree\_209, Sham\_202, TunaTartare\_210,

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

- 

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

- BillNye\_181, Chaewon\_189, Circinus\_182, Faust\_206, Muntaha\_196, Wakanda\_196,

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

Start 1:

- Found in 8 of 14 ( 57.1% ) of genes in pham
- Manual Annotations of this start: 7 of 12
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Annadreamy\_197 (BK1), Beuffert\_204 (BK1), Blueeyedbeauty\_206 (BK1), Faust\_205 (BK1), Limpid\_204 (BK1), SeresaTree\_209 (BK1), Sham\_202 (BK1), TunaTartare\_210 (BK1),

#### Start 2:

- Found in 5 of 14 ( 35.7% ) of genes in pham
- Manual Annotations of this start: 4 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BillNye\_181 (BK2), Chaewon\_189 (BK2), Circinus\_182 (BK2), Muntaha\_196 (BK2), Wakanda\_196 (BK2),

#### Start 4:

- Found in 1 of 14 ( 7.1% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Faust\_206 (BK1),

### Summary by clusters:

There are 2 clusters represented in this pham: BK1, BK2,

Info for manual annotations of cluster BK1:

- Start number 1 was manually annotated 7 times for cluster BK1.
- Start number 4 was manually annotated 1 time for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 2 was manually annotated 4 times for cluster BK2.

### Gene Information:

Gene: Annadreamy\_197 Start: 100178, Stop: 100516, Start Num: 1

Candidate Starts for Annadreamy\_197:

(Start: 1 @100178 has 7 MA's), (9, 100325), (12, 100382), (17, 100472),

Gene: Beuffert\_204 Start: 104170, Stop: 104508, Start Num: 1

Candidate Starts for Beuffert\_204:

(Start: 1 @104170 has 7 MA's), (9, 104317), (12, 104374), (19, 104497),

Gene: BillNye\_181 Start: 99832, Stop: 100167, Start Num: 2

Candidate Starts for BillNye\_181:

(Start: 2 @99832 has 4 MA's), (10, 99994), (18, 100108),

Gene: Blueeyedbeauty\_206 Start: 103898, Stop: 104236, Start Num: 1

Candidate Starts for Blueeyedbeauty\_206:

(Start: 1 @103898 has 7 MA's), (6, 103955), (12, 104102), (17, 104192),

Gene: Chaewon\_189 Start: 101363, Stop: 101698, Start Num: 2

Candidate Starts for Chaewon\_189:

(Start: 2 @101363 has 4 MA's), (10, 101525), (18, 101639),

Gene: Circinus\_182 Start: 99644, Stop: 99973, Start Num: 2

Candidate Starts for Circinus\_182:

(Start: 2 @99644 has 4 MA's), (10, 99806), (14, 99824), (15, 99890), (18, 99920),

Gene: Faust\_205 Start: 105087, Stop: 105422, Start Num: 1

Candidate Starts for Faust\_205:

(Start: 1 @105087 has 7 MA's), (5, 105135), (8, 105168), (12, 105288),

Gene: Faust\_206 Start: 105463, Stop: 105774, Start Num: 4

Candidate Starts for Faust\_206:

(3, 105460), (Start: 4 @105463 has 1 MA's), (11, 105634), (12, 105640),

Gene: Limpid\_204 Start: 105491, Stop: 105829, Start Num: 1

Candidate Starts for Limpid\_204:

(Start: 1 @105491 has 7 MA's), (9, 105638), (12, 105695), (17, 105785),

Gene: Muntaha\_196 Start: 99557, Stop: 99856, Start Num: 2

Candidate Starts for Muntaha\_196:

(Start: 2 @99557 has 4 MA's), (13, 99725), (18, 99830),

Gene: SeresaTree\_209 Start: 105072, Stop: 105407, Start Num: 1

Candidate Starts for SeresaTree\_209:

(Start: 1 @105072 has 7 MA's), (5, 105120), (8, 105153), (12, 105273),

Gene: Sham\_202 Start: 106470, Stop: 106805, Start Num: 1

Candidate Starts for Sham\_202:

(Start: 1 @106470 has 7 MA's), (5, 106518), (8, 106551), (12, 106671), (16, 106752),

Gene: TunaTartare\_210 Start: 108768, Stop: 109103, Start Num: 1

Candidate Starts for TunaTartare\_210:

(Start: 1 @108768 has 7 MA's), (5, 108816), (7, 108840), (8, 108849), (12, 108969), (16, 109050),

Gene: Wakanda\_196 Start: 99838, Stop: 100137, Start Num: 2

Candidate Starts for Wakanda\_196:

(Start: 2 @99838 has 4 MA's), (13, 100006), (18, 100111),