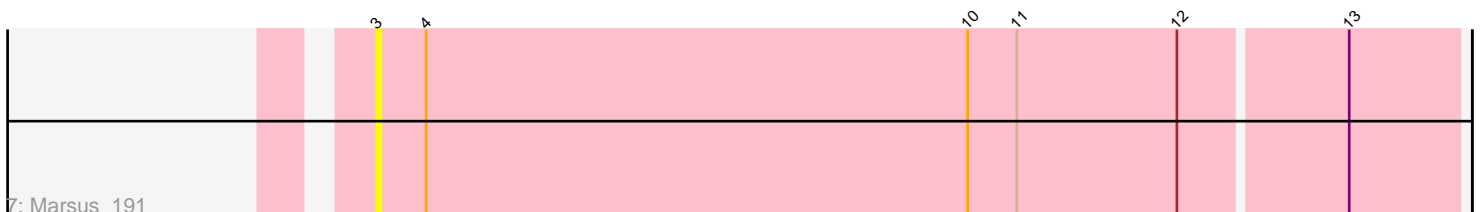
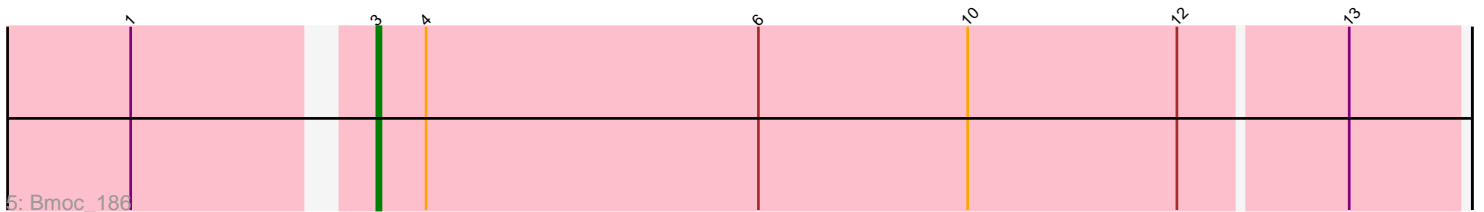
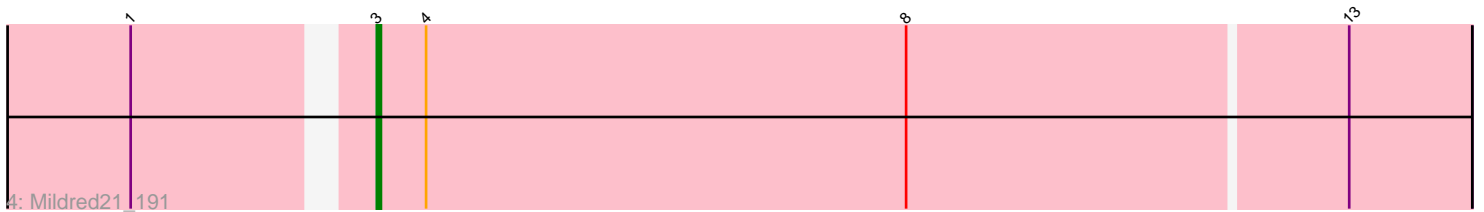
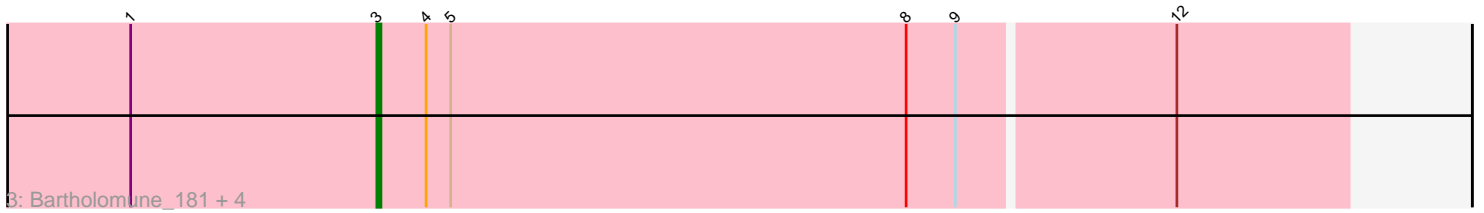
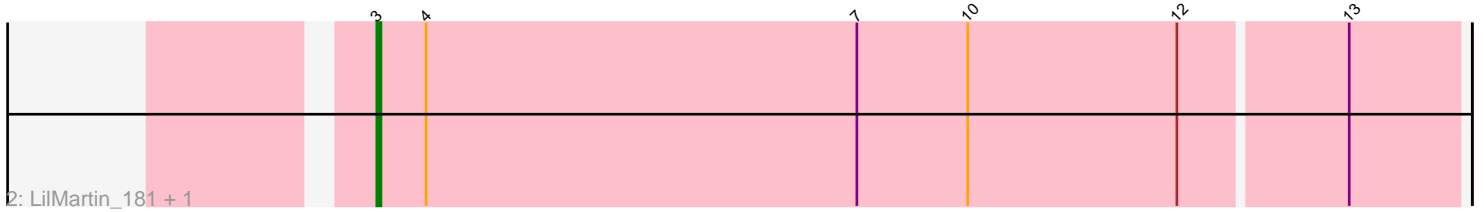
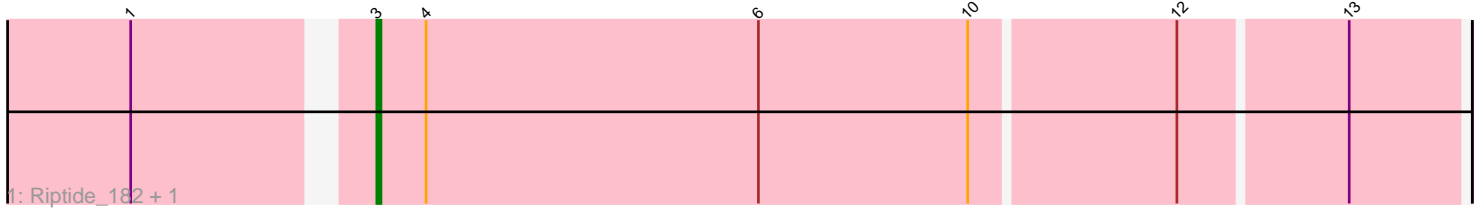


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 220284 Report

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

Pham number 220284 has 13 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Riptide\_182, Anedea\_185
- Track 2 : LilMartin\_181, Angela\_183
- Track 3 : Bartholomune\_181, Liandry\_181, Squillium\_184, Shuckle\_184, PinkiePie\_181
- Track 4 : Mildred21\_191
- Track 5 : Bmoc\_186
- Track 6 : MulchMansion\_184
- Track 7 : Marsus\_191

### ***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 10 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anedea\_185, Angela\_183, Bartholomune\_181, Bmoc\_186, Liandry\_181, LilMartin\_181, Marsus\_191, Mildred21\_191, MulchMansion\_184, PinkiePie\_181, Riptide\_182, Shuckle\_184, Squillium\_184,

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

- 

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

- 

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

Start 3:

- Found in 13 of 13 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 10 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anedea\_185 (BE1), Angela\_183 (BE1), Bartholomune\_181 (BE1), Bmoc\_186 (BE1), Liandry\_181 (BE1), LilMartin\_181 (BE1), Marsus\_191 (BE1), Mildred21\_191 (BE1), MulchMansion\_184 (BE1), PinkiePie\_181

(BE1), Riptide\_182 (BE1), Shuckle\_184 (BE1), Squillium\_184 (BE1),

### **Summary by clusters:**

There is one cluster represented in this pham: BE1

Info for manual annotations of cluster BE1:

•Start number 3 was manually annotated 10 times for cluster BE1.

### **Gene Information:**

Gene: Anedea\_185 Start: 96500, Stop: 96757, Start Num: 3

Candidate Starts for Anedea\_185:

(1, 96449), (Start: 3 @96500 has 10 MA's), (4, 96512), (6, 96593), (10, 96644), (12, 96692), (13, 96731),

Gene: Angela\_183 Start: 96479, Stop: 96739, Start Num: 3

Candidate Starts for Angela\_183:

(Start: 3 @96479 has 10 MA's), (4, 96491), (7, 96596), (10, 96623), (12, 96674), (13, 96713),

Gene: Bartholomune\_181 Start: 96007, Stop: 96240, Start Num: 3

Candidate Starts for Bartholomune\_181:

(1, 95947), (Start: 3 @96007 has 10 MA's), (4, 96019), (5, 96025), (8, 96136), (9, 96148), (12, 96199),

Gene: Bmoc\_186 Start: 97251, Stop: 97511, Start Num: 3

Candidate Starts for Bmoc\_186:

(1, 97200), (Start: 3 @97251 has 10 MA's), (4, 97263), (6, 97344), (10, 97395), (12, 97446), (13, 97485),

Gene: Liandry\_181 Start: 96750, Stop: 96983, Start Num: 3

Candidate Starts for Liandry\_181:

(1, 96690), (Start: 3 @96750 has 10 MA's), (4, 96762), (5, 96768), (8, 96879), (9, 96891), (12, 96942),

Gene: LilMartin\_181 Start: 96098, Stop: 96358, Start Num: 3

Candidate Starts for LilMartin\_181:

(Start: 3 @96098 has 10 MA's), (4, 96110), (7, 96215), (10, 96242), (12, 96293), (13, 96332),

Gene: Marsus\_191 Start: 97053, Stop: 97313, Start Num: 3

Candidate Starts for Marsus\_191:

(Start: 3 @97053 has 10 MA's), (4, 97065), (10, 97197), (11, 97209), (12, 97248), (13, 97287),

Gene: Mildred21\_191 Start: 96364, Stop: 96627, Start Num: 3

Candidate Starts for Mildred21\_191:

(1, 96313), (Start: 3 @96364 has 10 MA's), (4, 96376), (8, 96493), (13, 96598),

Gene: MulchMansion\_184 Start: 97478, Stop: 97738, Start Num: 3

Candidate Starts for MulchMansion\_184:

(2, 97460), (Start: 3 @97478 has 10 MA's), (4, 97490), (7, 97595), (10, 97622), (12, 97673), (13, 97712),

Gene: PinkiePie\_181 Start: 96750, Stop: 96983, Start Num: 3

Candidate Starts for PinkiePie\_181:

(1, 96690), (Start: 3 @96750 has 10 MA's), (4, 96762), (5, 96768), (8, 96879), (9, 96891), (12, 96942),

Gene: Riptide\_182 Start: 95139, Stop: 95396, Start Num: 3

Candidate Starts for Riptide\_182:

(1, 95088), (Start: 3 @95139 has 10 MA's), (4, 95151), (6, 95232), (10, 95283), (12, 95331), (13, 95370),

Gene: Shuckle\_184 Start: 97599, Stop: 97832, Start Num: 3

Candidate Starts for Shuckle\_184:

(1, 97539), (Start: 3 @97599 has 10 MA's), (4, 97611), (5, 97617), (8, 97728), (9, 97740), (12, 97791),

Gene: Squillium\_184 Start: 96752, Stop: 96985, Start Num: 3

Candidate Starts for Squillium\_184:

(1, 96692), (Start: 3 @96752 has 10 MA's), (4, 96764), (5, 96770), (8, 96881), (9, 96893), (12, 96944),