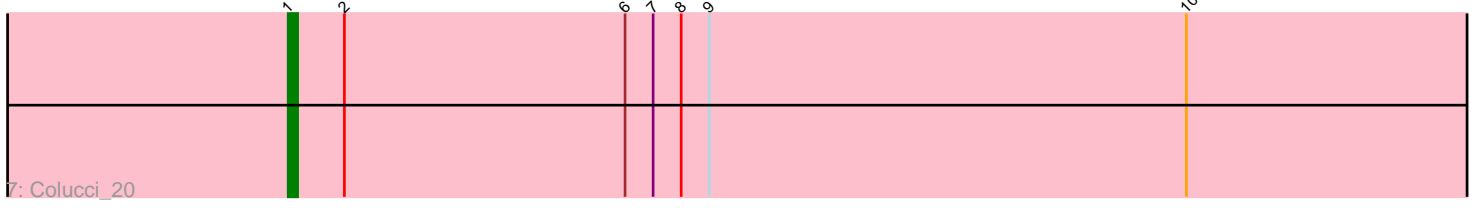
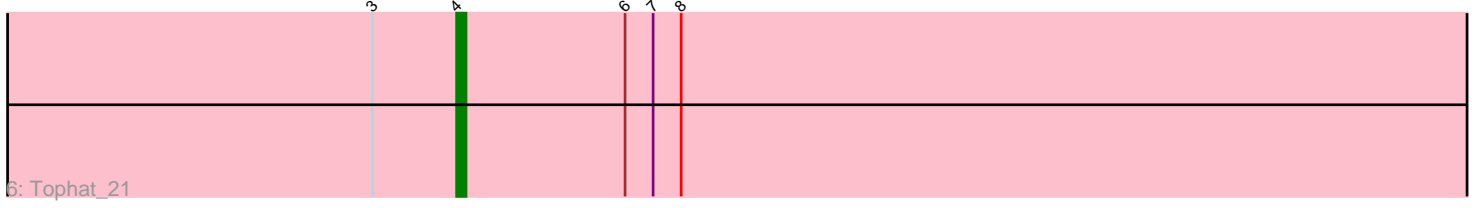
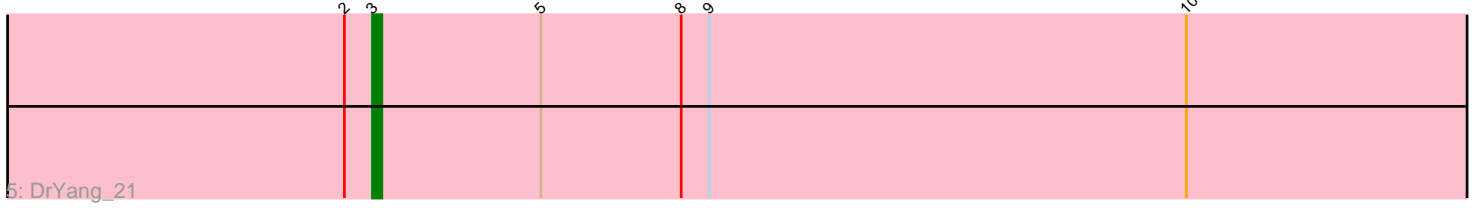
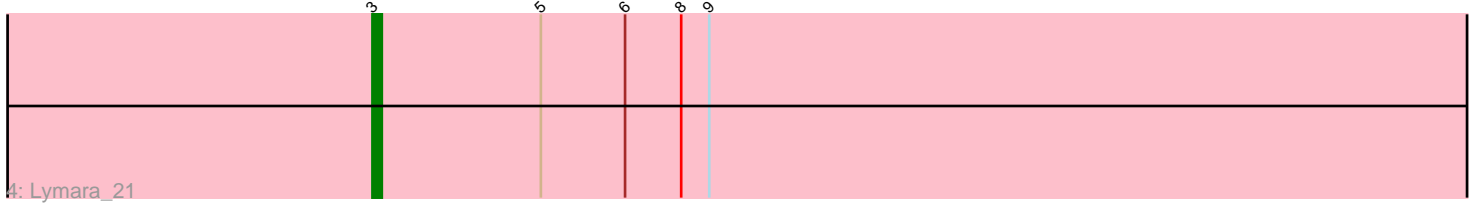
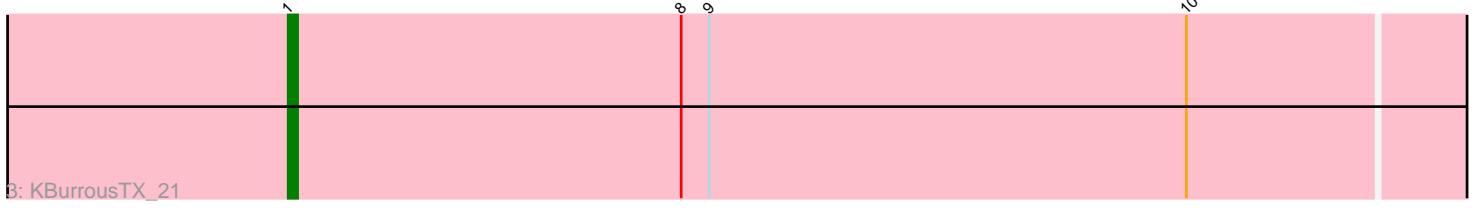
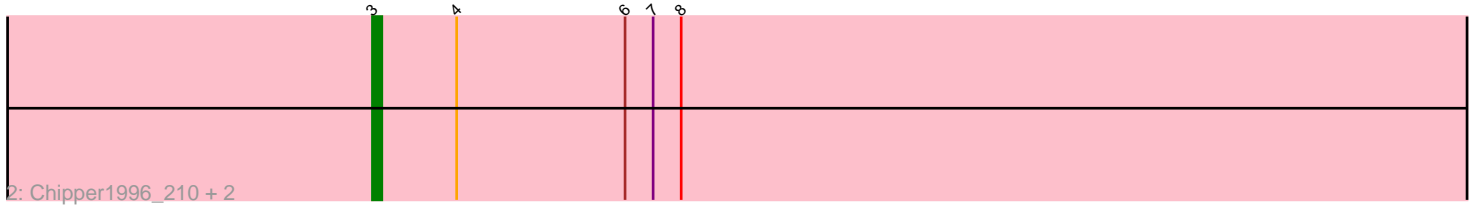
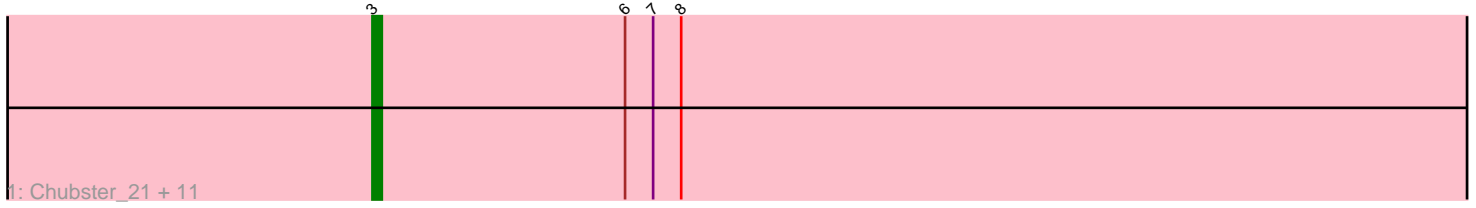


Pham 312047



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 312047 Report

This analysis was run 06/27/26 on database version 652.

Pham number 312047 has 20 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Chubster\_21, PrincessTrina\_21, RosiePosie\_21, Kabreeze\_21, Linus\_21, JayCookie\_21, JaNo\_21, Chocolat\_21, HumptyDumpty\_21, MoyaNatalis\_21, Scavito\_21, Mordred\_21
- Track 2 : Chipper1996\_210, EdgarPoe\_21, Conboy\_21
- Track 3 : KBurrousTX\_21
- Track 4 : Lymara\_21
- Track 5 : DrYang\_21
- Track 6 : Tophat\_21
- Track 7 : Colucci\_20

### ***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 16 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Chipper1996\_210, Chocolat\_21, Chubster\_21, Conboy\_21, DrYang\_21, EdgarPoe\_21, HumptyDumpty\_21, JaNo\_21, JayCookie\_21, Kabreeze\_21, Linus\_21, Lymara\_21, Mordred\_21, MoyaNatalis\_21, PrincessTrina\_21, RosiePosie\_21, Scavito\_21,

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

- Tophat\_21,

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

- Colucci\_20, KBurrousTX\_21,

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

Start 1:

- Found in 2 of 20 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Colucci\_20 (AR), KBurrousTX\_21 (AR),

Start 3:

- Found in 18 of 20 ( 90.0% ) of genes in pham
- Manual Annotations of this start: 16 of 19
- Called 94.4% of time when present
- Phage (with cluster) where this start called: Chipper1996\_210 (AR), Chocolat\_21 (AR), Chubster\_21 (AR), Conboy\_21 (AR), DrYang\_21 (AR), EdgarPoe\_21 (AR), HumptyDumpty\_21 (AR), JaNo\_21 (AR), JayCookie\_21 (AR), Kabreeze\_21 (AR), Linus\_21 (AR), Lymara\_21 (AR), Mordred\_21 (AR), MoyaNatalis\_21 (AR), PrincessTrina\_21 (AR), RosiePosie\_21 (AR), Scavito\_21 (AR),

Start 4:

- Found in 4 of 20 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Tophat\_21 (AR),

**Summary by clusters:**

There is one cluster represented in this pham: AR

Info for manual annotations of cluster AR:

- Start number 1 was manually annotated 2 times for cluster AR.
- Start number 3 was manually annotated 16 times for cluster AR.
- Start number 4 was manually annotated 1 time for cluster AR.

**Gene Information:**

Gene: Chipper1996\_210 Start: 15576, Stop: 15713, Start Num: 3

Candidate Starts for Chipper1996\_210:

(Start: 3 @15576 has 16 MA's), (Start: 4 @15585 has 1 MA's), (6, 15603), (7, 15606), (8, 15609),

Gene: Chocolat\_21 Start: 15577, Stop: 15714, Start Num: 3

Candidate Starts for Chocolat\_21:

(Start: 3 @15577 has 16 MA's), (6, 15604), (7, 15607), (8, 15610),

Gene: Chubster\_21 Start: 15347, Stop: 15484, Start Num: 3

Candidate Starts for Chubster\_21:

(Start: 3 @15347 has 16 MA's), (6, 15374), (7, 15377), (8, 15380),

Gene: Colucci\_20 Start: 15043, Stop: 15183, Start Num: 1

Candidate Starts for Colucci\_20:

(Start: 1 @15043 has 2 MA's), (2, 15049), (6, 15079), (7, 15082), (8, 15085), (9, 15088), (10, 15139),

Gene: Conboy\_21 Start: 15575, Stop: 15712, Start Num: 3

Candidate Starts for Conboy\_21:

(Start: 3 @15575 has 16 MA's), (Start: 4 @15584 has 1 MA's), (6, 15602), (7, 15605), (8, 15608),

Gene: DrYang\_21 Start: 15543, Stop: 15677, Start Num: 3

Candidate Starts for DrYang\_21:

(2, 15540), (Start: 3 @15543 has 16 MA's), (5, 15561), (8, 15576), (9, 15579), (10, 15630),

Gene: EdgarPoe\_21 Start: 15575, Stop: 15712, Start Num: 3  
Candidate Starts for EdgarPoe\_21:  
(Start: 3 @15575 has 16 MA's), (Start: 4 @15584 has 1 MA's), (6, 15602), (7, 15605), (8, 15608),

Gene: HumptyDumpty\_21 Start: 15574, Stop: 15711, Start Num: 3  
Candidate Starts for HumptyDumpty\_21:  
(Start: 3 @15574 has 16 MA's), (6, 15601), (7, 15604), (8, 15607),

Gene: JaNo\_21 Start: 15574, Stop: 15711, Start Num: 3  
Candidate Starts for JaNo\_21:  
(Start: 3 @15574 has 16 MA's), (6, 15601), (7, 15604), (8, 15607),

Gene: JayCookie\_21 Start: 15577, Stop: 15714, Start Num: 3  
Candidate Starts for JayCookie\_21:  
(Start: 3 @15577 has 16 MA's), (6, 15604), (7, 15607), (8, 15610),

Gene: KBurrousTX\_21 Start: 15369, Stop: 15512, Start Num: 1  
Candidate Starts for KBurrousTX\_21:  
(Start: 1 @15369 has 2 MA's), (8, 15411), (9, 15414), (10, 15465),

Gene: Kabreeze\_21 Start: 15574, Stop: 15711, Start Num: 3  
Candidate Starts for Kabreeze\_21:  
(Start: 3 @15574 has 16 MA's), (6, 15601), (7, 15604), (8, 15607),

Gene: Linus\_21 Start: 15574, Stop: 15711, Start Num: 3  
Candidate Starts for Linus\_21:  
(Start: 3 @15574 has 16 MA's), (6, 15601), (7, 15604), (8, 15607),

Gene: Lymara\_21 Start: 15575, Stop: 15709, Start Num: 3  
Candidate Starts for Lymara\_21:  
(Start: 3 @15575 has 16 MA's), (5, 15593), (6, 15602), (8, 15608), (9, 15611),

Gene: Mordred\_21 Start: 15574, Stop: 15711, Start Num: 3  
Candidate Starts for Mordred\_21:  
(Start: 3 @15574 has 16 MA's), (6, 15601), (7, 15604), (8, 15607),

Gene: MoyaNatalis\_21 Start: 15577, Stop: 15714, Start Num: 3  
Candidate Starts for MoyaNatalis\_21:  
(Start: 3 @15577 has 16 MA's), (6, 15604), (7, 15607), (8, 15610),

Gene: PrincessTrina\_21 Start: 15577, Stop: 15714, Start Num: 3  
Candidate Starts for PrincessTrina\_21:  
(Start: 3 @15577 has 16 MA's), (6, 15604), (7, 15607), (8, 15610),

Gene: RosiePosie\_21 Start: 15577, Stop: 15714, Start Num: 3  
Candidate Starts for RosiePosie\_21:  
(Start: 3 @15577 has 16 MA's), (6, 15604), (7, 15607), (8, 15610),

Gene: Scavito\_21 Start: 15574, Stop: 15711, Start Num: 3  
Candidate Starts for Scavito\_21:  
(Start: 3 @15574 has 16 MA's), (6, 15601), (7, 15604), (8, 15607),

Gene: Tophat\_21 Start: 15585, Stop: 15713, Start Num: 4

Candidate Starts for Tophat\_21:

(Start: 3 @15576 has 16 MA's), (Start: 4 @15585 has 1 MA's), (6, 15603), (7, 15606), (8, 15609),