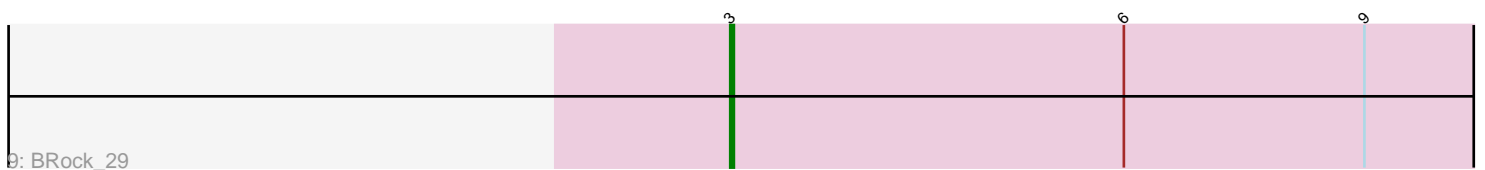
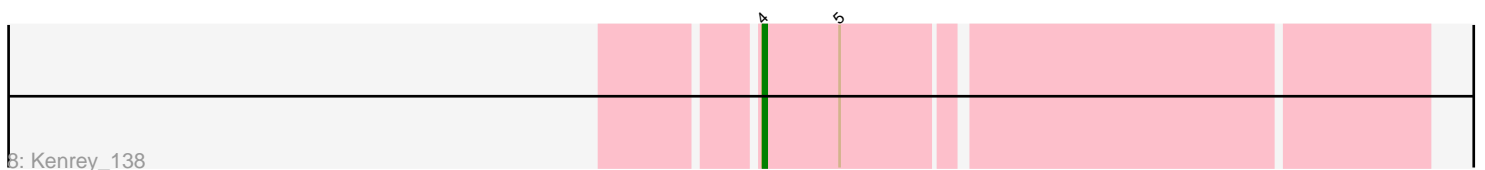
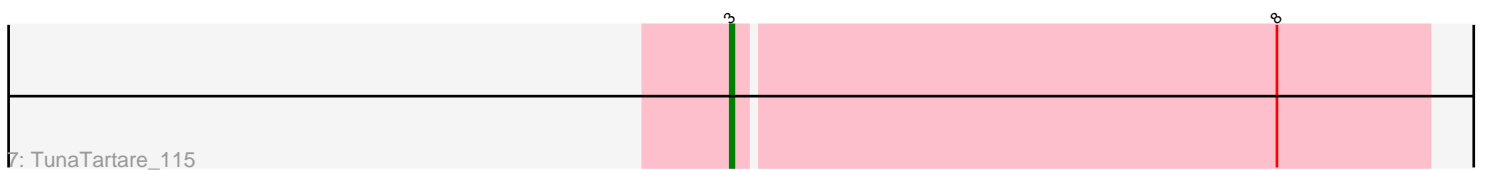
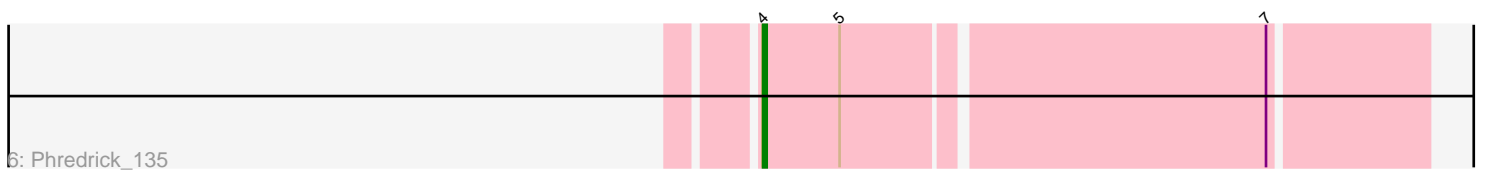
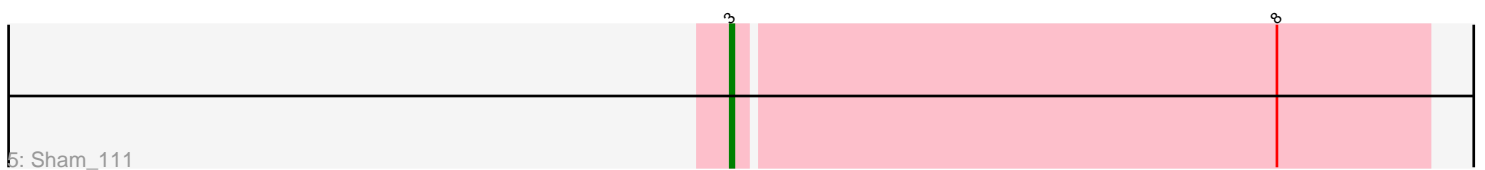
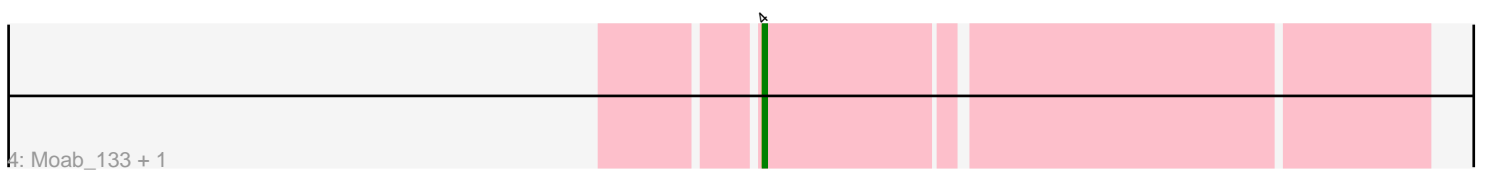
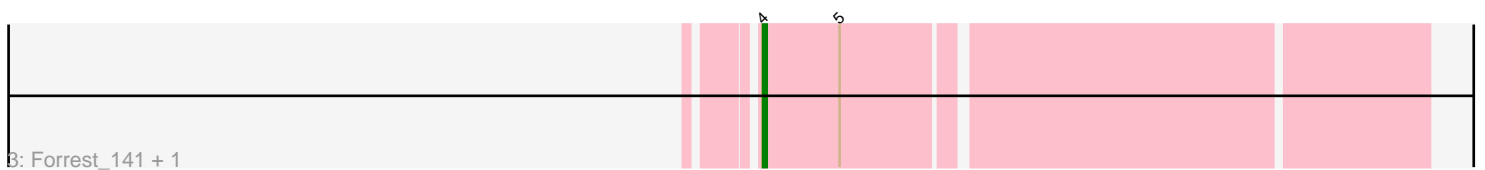
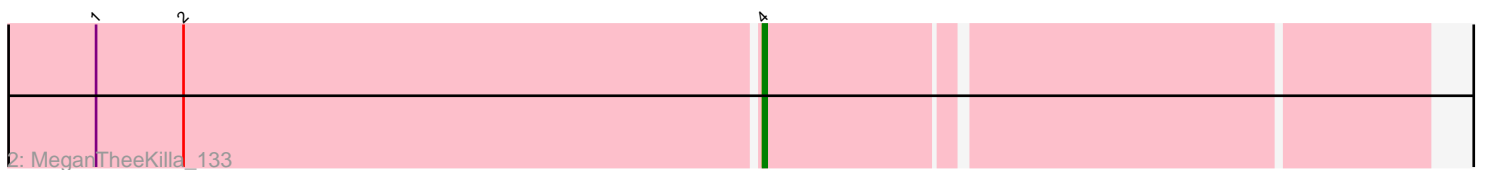
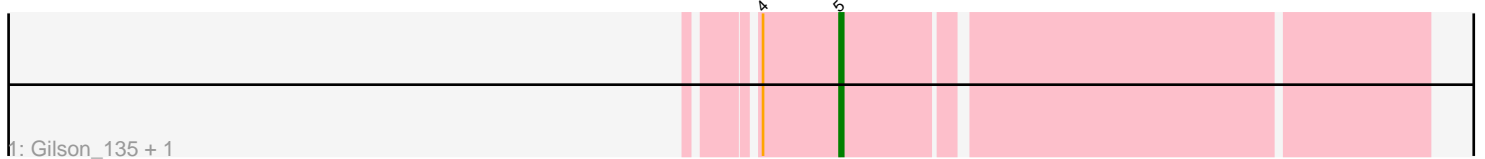


Pham 196999



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 196999 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196999 has 12 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Gilson\_135, Jada\_137
- Track 2 : MeganTheeKilla\_133
- Track 3 : Forrest\_141, Emma1919\_135
- Track 4 : Moab\_133, Patelgo\_136
- Track 5 : Sham\_111
- Track 6 : Phredrick\_135
- Track 7 : TunaTartare\_115
- Track 8 : Kenrey\_138
- Track 9 : BRock\_29

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

The start number called the most often in the published annotations is 4, it was called in 7 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Emma1919\_135, Forrest\_141, Kenrey\_138, MeganTheeKilla\_133, Moab\_133, Patelgo\_136, Phredrick\_135,

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

- Gilson\_135, Jada\_137,

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

- BRock\_29, Sham\_111, TunaTartare\_115,

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

Start 3:

- Found in 3 of 12 ( 25.0% ) of genes in pham
- Manual Annotations of this start: 3 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BRock\_29 (BS), Sham\_111 (BK1), TunaTartare\_115 (BK1),

Start 4:

- Found in 9 of 12 ( 75.0% ) of genes in pham
- Manual Annotations of this start: 7 of 12
- Called 77.8% of time when present
- Phage (with cluster) where this start called: Emma1919\_135 (BK1), Forrest\_141 (BK1), Kenrey\_138 (BK1), MeganTheeKilla\_133 (BK1), Moab\_133 (BK1), Patelgo\_136 (BK1), Phredrick\_135 (BK1),

Start 5:

- Found in 6 of 12 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 2 of 12
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Gilson\_135 (BK1), Jada\_137 (BK1),

**Summary by clusters:**

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

Info for manual annotations of cluster BK1:

- Start number 3 was manually annotated 2 times for cluster BK1.
- Start number 4 was manually annotated 7 times for cluster BK1.
- Start number 5 was manually annotated 2 times for cluster BK1.

Info for manual annotations of cluster BS:

- Start number 3 was manually annotated 1 time for cluster BS.

**Gene Information:**

Gene: BRock\_29 Start: 10826, Stop: 11050, Start Num: 3

Candidate Starts for BRock\_29:

(Start: 3 @10826 has 3 MA's), (6, 10934), (9, 11000),

Gene: Emma1919\_135 Start: 77029, Stop: 77202, Start Num: 4

Candidate Starts for Emma1919\_135:

(Start: 4 @77029 has 7 MA's), (Start: 5 @77050 has 2 MA's),

Gene: Forrest\_141 Start: 80463, Stop: 80636, Start Num: 4

Candidate Starts for Forrest\_141:

(Start: 4 @80463 has 7 MA's), (Start: 5 @80484 has 2 MA's),

Gene: Gilson\_135 Start: 77012, Stop: 77164, Start Num: 5

Candidate Starts for Gilson\_135:

(Start: 4 @76991 has 7 MA's), (Start: 5 @77012 has 2 MA's),

Gene: Jada\_137 Start: 79414, Stop: 79566, Start Num: 5

Candidate Starts for Jada\_137:

(Start: 4 @79393 has 7 MA's), (Start: 5 @79414 has 2 MA's),

Gene: Kenrey\_138 Start: 78520, Stop: 78693, Start Num: 4

Candidate Starts for Kenrey\_138:

(Start: 4 @78520 has 7 MA's), (Start: 5 @78541 has 2 MA's),

Gene: MeganTheeKilla\_133 Start: 77205, Stop: 77378, Start Num: 4  
Candidate Starts for MeganTheeKilla\_133:  
(1, 77025), (2, 77049), (Start: 4 @77205 has 7 MA's),

Gene: Moab\_133 Start: 79490, Stop: 79663, Start Num: 4  
Candidate Starts for Moab\_133:  
(Start: 4 @79490 has 7 MA's),

Gene: Patelgo\_136 Start: 80182, Stop: 80355, Start Num: 4  
Candidate Starts for Patelgo\_136:  
(Start: 4 @80182 has 7 MA's),

Gene: Phredrick\_135 Start: 76832, Stop: 77005, Start Num: 4  
Candidate Starts for Phredrick\_135:  
(Start: 4 @76832 has 7 MA's), (Start: 5 @76853 has 2 MA's), (7, 76964),

Gene: Sham\_111 Start: 73884, Stop: 74072, Start Num: 3  
Candidate Starts for Sham\_111:  
(Start: 3 @73884 has 3 MA's), (8, 74031),

Gene: TunaTartare\_115 Start: 75611, Stop: 75799, Start Num: 3  
Candidate Starts for TunaTartare\_115:  
(Start: 3 @75611 has 3 MA's), (8, 75758),