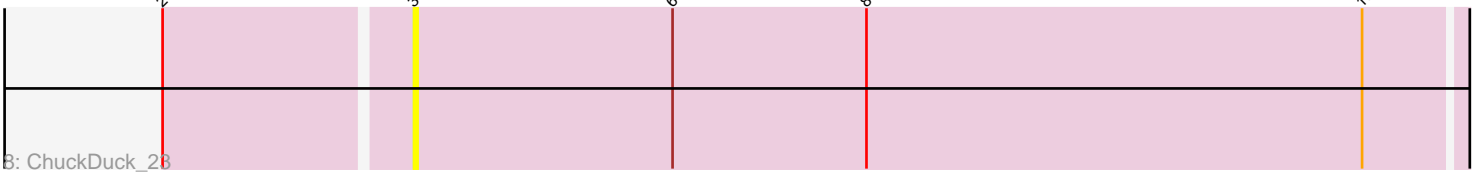
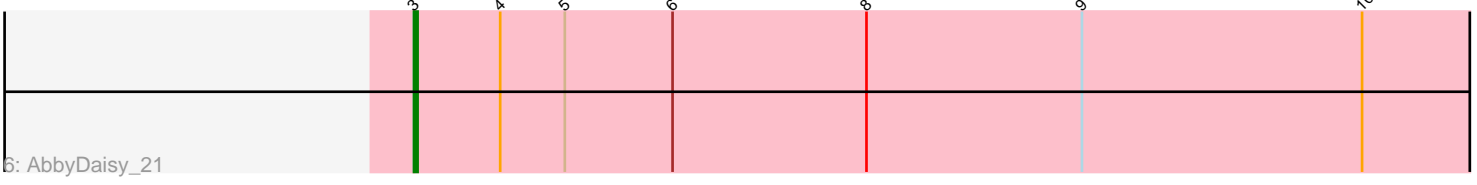
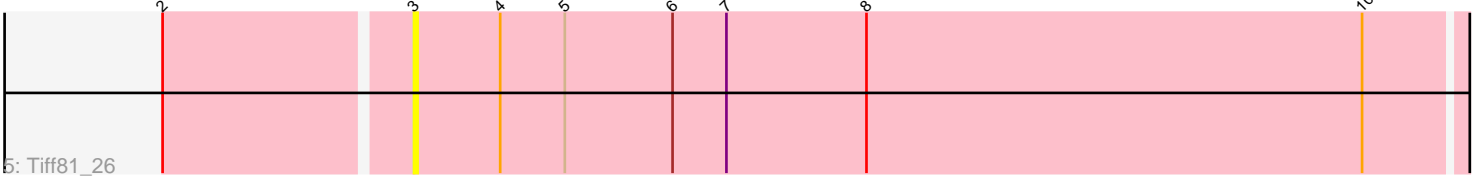
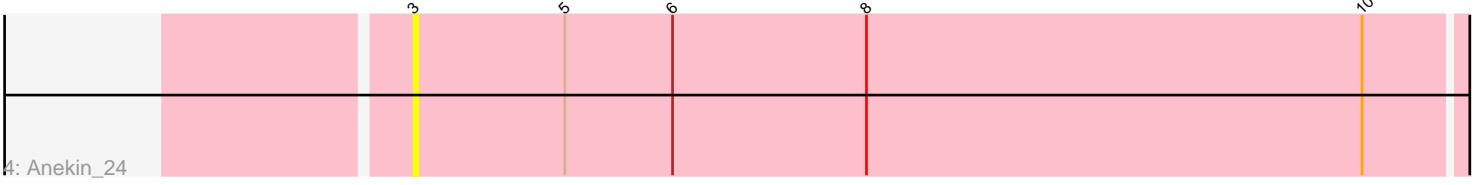
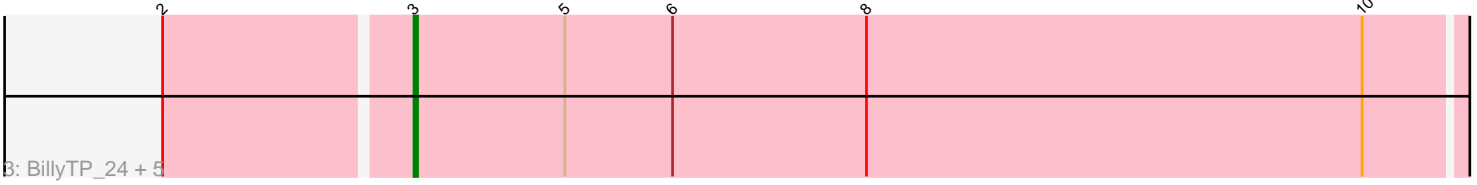
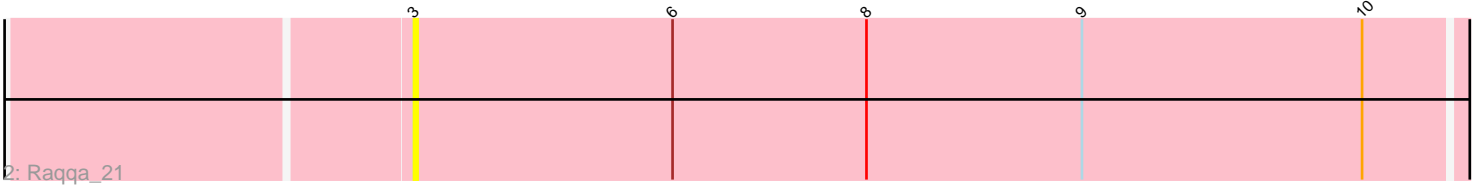


Pham 8171



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 8171 Report

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

Pham number 8171 has 14 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Seahorse\_25, Hestia\_24
- Track 2 : Raqqa\_21
- Track 3 : BillyTP\_24, Raphaella\_25, Phrank15\_24, Sakai\_24, Gorpy\_24, Isolde\_24
- Track 4 : Anekin\_24
- Track 5 : Tiff81\_26
- Track 6 : AbbyDaisy\_21
- Track 7 : RootBeer\_19
- Track 8 : ChuckDuck\_23

### ***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 6 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AbbyDaisy\_21, Anekin\_24, BillyTP\_24, ChuckDuck\_23, Gorpy\_24, Hestia\_24, Isolde\_24, Phrank15\_24, Raphaella\_25, Raqqa\_21, Sakai\_24, Seahorse\_25, Tiff81\_26,

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

- RootBeer\_19,

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

- 

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

Start 3:

- Found in 14 of 14 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 6 of 6
- Called 92.9% of time when present
- Phage (with cluster) where this start called: AbbyDaisy\_21 (AY), Anekin\_24 (AY), BillyTP\_24 (AY), ChuckDuck\_23 (FA), Gorpy\_24 (AY), Hestia\_24 (AY), Isolde\_24 (AY), Phrank15\_24 (AY), Raphaella\_25 (AY), Raqqa\_21 (AY), Sakai\_24 (AY),

Seahorse\_25 (AY), Tiff81\_26 (AY),

Start 4:

- Found in 5 of 14 ( 35.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: RootBeer\_19 (FA),

### **Summary by clusters:**

There are 2 clusters represented in this pham: AY, FA,

Info for manual annotations of cluster AY:

- Start number 3 was manually annotated 6 times for cluster AY.

### **Gene Information:**

Gene: AbbyDaisy\_21 Start: 17518, Stop: 17847, Start Num: 3

Candidate Starts for AbbyDaisy\_21:

(Start: 3 @17518 has 6 MA's), (4, 17542), (5, 17560), (6, 17590), (8, 17644), (9, 17704), (10, 17782),

Gene: Anekin\_24 Start: 18525, Stop: 18851, Start Num: 3

Candidate Starts for Anekin\_24:

(Start: 3 @18525 has 6 MA's), (5, 18567), (6, 18597), (8, 18651), (10, 18789),

Gene: BillyTP\_24 Start: 18346, Stop: 18672, Start Num: 3

Candidate Starts for BillyTP\_24:

(2, 18280), (Start: 3 @18346 has 6 MA's), (5, 18388), (6, 18418), (8, 18472), (10, 18610),

Gene: ChuckDuck\_23 Start: 18463, Stop: 18789, Start Num: 3

Candidate Starts for ChuckDuck\_23:

(2, 18397), (Start: 3 @18463 has 6 MA's), (6, 18535), (8, 18589), (10, 18727),

Gene: Gorpy\_24 Start: 18571, Stop: 18897, Start Num: 3

Candidate Starts for Gorpy\_24:

(2, 18505), (Start: 3 @18571 has 6 MA's), (5, 18613), (6, 18643), (8, 18697), (10, 18835),

Gene: Hestia\_24 Start: 18740, Stop: 19066, Start Num: 3

Candidate Starts for Hestia\_24:

(2, 18674), (Start: 3 @18740 has 6 MA's), (4, 18764), (5, 18782), (6, 18812), (8, 18866), (10, 19004),

Gene: Isolde\_24 Start: 18397, Stop: 18723, Start Num: 3

Candidate Starts for Isolde\_24:

(2, 18331), (Start: 3 @18397 has 6 MA's), (5, 18439), (6, 18469), (8, 18523), (10, 18661),

Gene: Phrank15\_24 Start: 18496, Stop: 18822, Start Num: 3

Candidate Starts for Phrank15\_24:

(2, 18430), (Start: 3 @18496 has 6 MA's), (5, 18538), (6, 18568), (8, 18622), (10, 18760),

Gene: Raphaella\_25 Start: 18562, Stop: 18888, Start Num: 3

Candidate Starts for Raphaella\_25:

(2, 18496), (Start: 3 @18562 has 6 MA's), (5, 18604), (6, 18634), (8, 18688), (10, 18826),

Gene: Raqqa\_21 Start: 17814, Stop: 18140, Start Num: 3

Candidate Starts for Raqqa\_21:

(Start: 3 @17814 has 6 MA's), (6, 17886), (8, 17940), (9, 18000), (10, 18078),

Gene: RootBeer\_19 Start: 16195, Stop: 16497, Start Num: 4

Candidate Starts for RootBeer\_19:

(1, 16087), (Start: 3 @16171 has 6 MA's), (4, 16195), (9, 16357), (10, 16435),

Gene: Sakai\_24 Start: 18571, Stop: 18897, Start Num: 3

Candidate Starts for Sakai\_24:

(2, 18505), (Start: 3 @18571 has 6 MA's), (5, 18613), (6, 18643), (8, 18697), (10, 18835),

Gene: Seahorse\_25 Start: 18926, Stop: 19252, Start Num: 3

Candidate Starts for Seahorse\_25:

(2, 18860), (Start: 3 @18926 has 6 MA's), (4, 18950), (5, 18968), (6, 18998), (8, 19052), (10, 19190),

Gene: Tiff81\_26 Start: 18654, Stop: 18980, Start Num: 3

Candidate Starts for Tiff81\_26:

(2, 18588), (Start: 3 @18654 has 6 MA's), (4, 18678), (5, 18696), (6, 18726), (7, 18741), (8, 18780),  
(10, 18918),