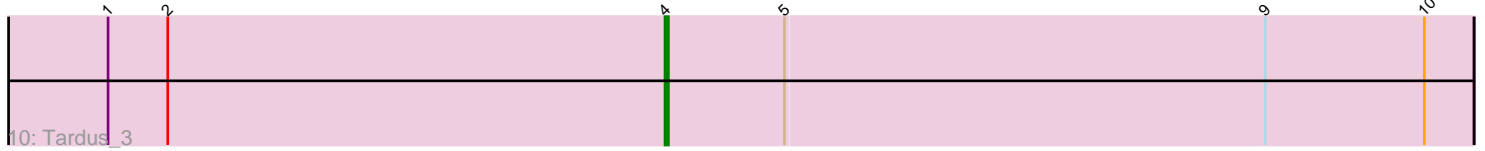
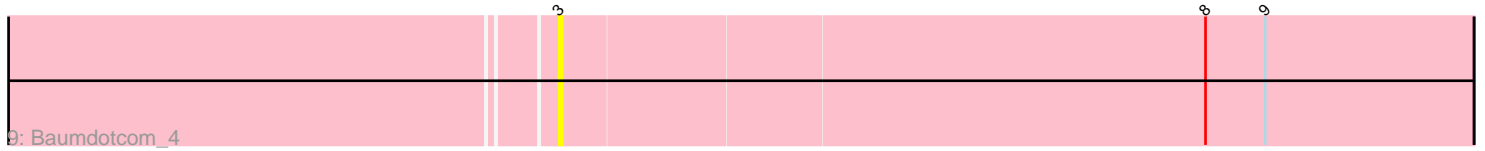
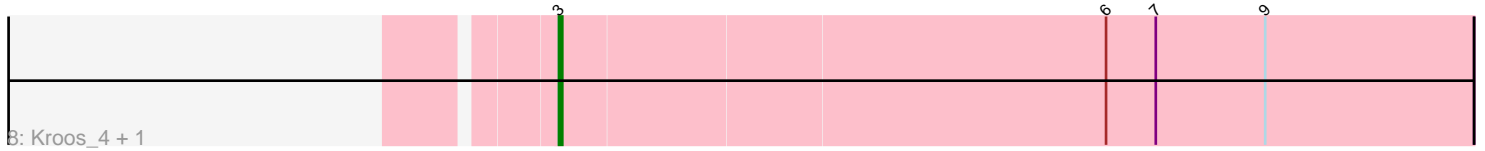
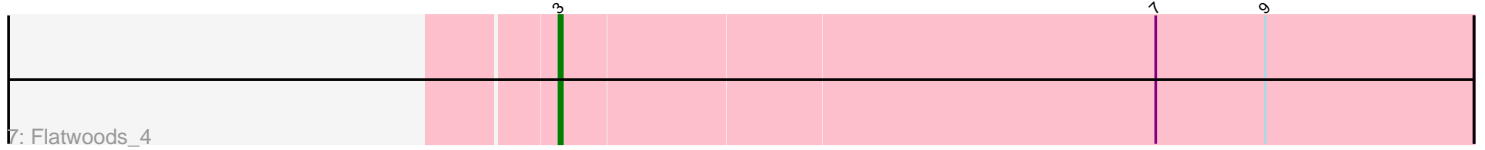
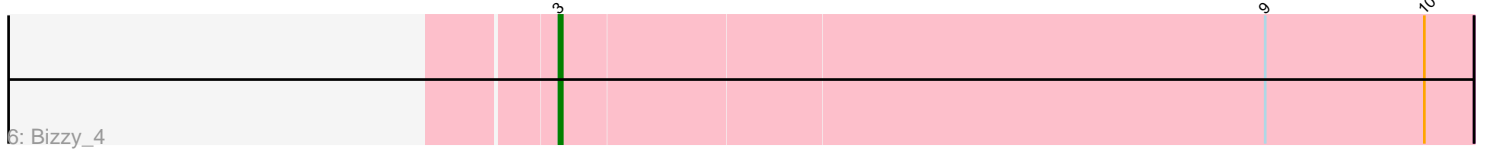
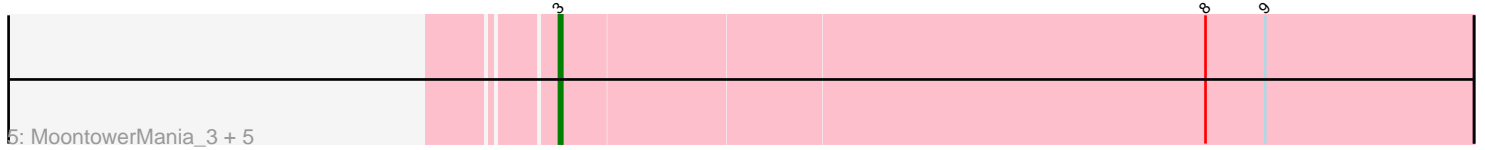
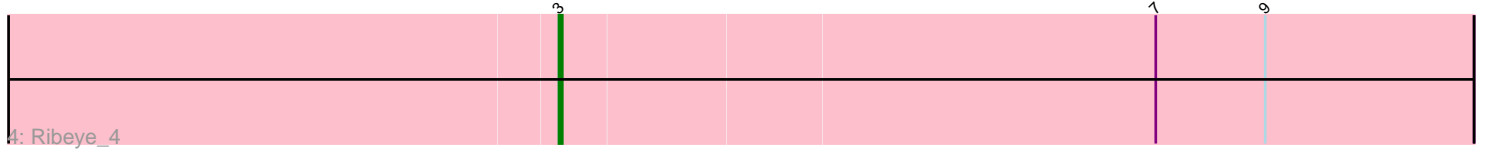
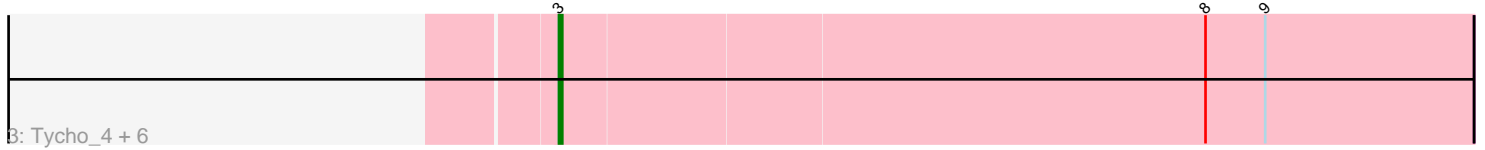
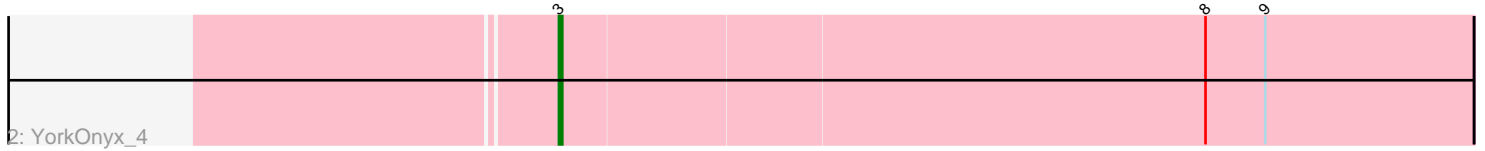
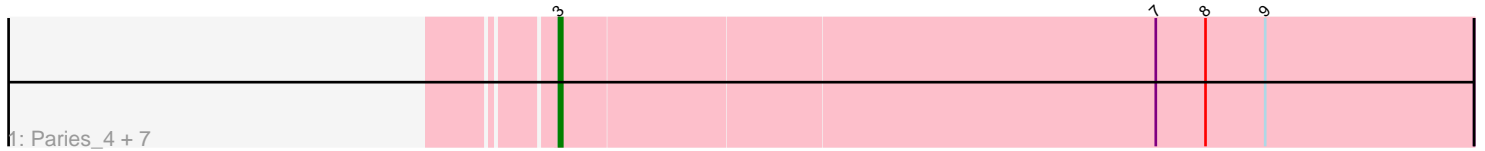


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 212863 Report

This analysis was run 02/22/25 on database version 588.

Pham number 212863 has 29 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Paries\_4, Rofo\_4, Affeca\_4, Brandonk123\_4, Angelicage\_4, Love\_4, Thing3\_4, Kamashten\_4
- Track 2 : YorkOnyx\_4
- Track 3 : Tycho\_4, Kwobi\_4, Gustavo\_4, Gaea\_4, StorminNorm\_4, Saronaya\_4, Tangerine\_4
- Track 4 : Ribeye\_4
- Track 5 : MoontowerMania\_3, Barsten\_4, Ashertheman\_4, FuegoCuervo\_4, Kewpiedoll\_4, Galadriel\_4
- Track 6 : Bizzy\_4
- Track 7 : Flatwoods\_4
- Track 8 : Kroos\_4, Zitch\_3
- Track 9 : Baumdotcom\_4
- Track 10 : Tardus\_3

### ***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 21 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Affeca\_4, Angelicage\_4, Ashertheman\_4, Barsten\_4, Baumdotcom\_4, Bizzy\_4, Brandonk123\_4, Flatwoods\_4, FuegoCuervo\_4, Gaea\_4, Galadriel\_4, Gustavo\_4, Kamashten\_4, Kewpiedoll\_4, Kroos\_4, Kwobi\_4, Love\_4, MoontowerMania\_3, Paries\_4, Ribeye\_4, Rofo\_4, Saronaya\_4, StorminNorm\_4, Tangerine\_4, Thing3\_4, Tycho\_4, YorkOnyx\_4, Zitch\_3,

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

- 

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

- Tardus\_3,

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

#### Start 3:

- Found in 28 of 29 ( 96.6% ) of genes in pham
- Manual Annotations of this start: 21 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Affeca\_4 (DE1), Angelicage\_4 (DE1), Ashertheman\_4 (DE1), Barsten\_4 (DE1), Baumdotcom\_4 (DE1), Bizzy\_4 (DE1), Brandonk123\_4 (DE1), Flatwoods\_4 (DE1), FuegoCuervo\_4 (DE1), Gaea\_4 (DE1), Galadriel\_4 (DE1), Gustavo\_4 (DE1), Kamashten\_4 (DE1), Kewpiedoll\_4 (DE1), Kroos\_4 (DE1), Kwobi\_4 (DE1), Love\_4 (DE1), MoontowerMania\_3 (DE1), Paries\_4 (DE1), Ribeye\_4 (DE1), Rofo\_4 (DE1), Saronaya\_4 (DE1), StorminNorm\_4 (DE1), Tangerine\_4 (DE1), Thing3\_4 (DE1), Tycho\_4 (DE1), YorkOnyx\_4 (DE1), Zitch\_3 (DE4),

#### Start 4:

- Found in 1 of 29 ( 3.4% ) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tardus\_3 (DE4),

#### **Summary by clusters:**

There are 2 clusters represented in this pham: DE1, DE4,

Info for manual annotations of cluster DE1:

- Start number 3 was manually annotated 20 times for cluster DE1.

Info for manual annotations of cluster DE4:

- Start number 3 was manually annotated 1 time for cluster DE4.
- Start number 4 was manually annotated 1 time for cluster DE4.

#### **Gene Information:**

Gene: Affeca\_4 Start: 3242, Stop: 3514, Start Num: 3

Candidate Starts for Affeca\_4:

(Start: 3 @3242 has 21 MA's), (7, 3419), (8, 3434), (9, 3452),

Gene: Angelicage\_4 Start: 3236, Stop: 3508, Start Num: 3

Candidate Starts for Angelicage\_4:

(Start: 3 @3236 has 21 MA's), (7, 3413), (8, 3428), (9, 3446),

Gene: Ashertheman\_4 Start: 2481, Stop: 2753, Start Num: 3

Candidate Starts for Ashertheman\_4:

(Start: 3 @2481 has 21 MA's), (8, 2673), (9, 2691),

Gene: Barsten\_4 Start: 2443, Stop: 2715, Start Num: 3

Candidate Starts for Barsten\_4:

(Start: 3 @2443 has 21 MA's), (8, 2635), (9, 2653),

Gene: Baumdotcom\_4 Start: 2526, Stop: 2798, Start Num: 3

Candidate Starts for Baumdotcom\_4:

(Start: 3 @2526 has 21 MA's), (8, 2718), (9, 2736),

Gene: Bizzy\_4 Start: 2484, Stop: 2756, Start Num: 3  
Candidate Starts for Bizzy\_4:  
(Start: 3 @2484 has 21 MA's), (9, 2694), (10, 2742),

Gene: Brandonk123\_4 Start: 2441, Stop: 2713, Start Num: 3  
Candidate Starts for Brandonk123\_4:  
(Start: 3 @2441 has 21 MA's), (7, 2618), (8, 2633), (9, 2651),

Gene: Flatwoods\_4 Start: 2484, Stop: 2756, Start Num: 3  
Candidate Starts for Flatwoods\_4:  
(Start: 3 @2484 has 21 MA's), (7, 2661), (9, 2694),

Gene: FuegoCuervo\_4 Start: 2449, Stop: 2721, Start Num: 3  
Candidate Starts for FuegoCuervo\_4:  
(Start: 3 @2449 has 21 MA's), (8, 2641), (9, 2659),

Gene: Gaea\_4 Start: 2484, Stop: 2756, Start Num: 3  
Candidate Starts for Gaea\_4:  
(Start: 3 @2484 has 21 MA's), (8, 2676), (9, 2694),

Gene: Galadriel\_4 Start: 2441, Stop: 2713, Start Num: 3  
Candidate Starts for Galadriel\_4:  
(Start: 3 @2441 has 21 MA's), (8, 2633), (9, 2651),

Gene: Gustavo\_4 Start: 2484, Stop: 2756, Start Num: 3  
Candidate Starts for Gustavo\_4:  
(Start: 3 @2484 has 21 MA's), (8, 2676), (9, 2694),

Gene: Kamashten\_4 Start: 2441, Stop: 2713, Start Num: 3  
Candidate Starts for Kamashten\_4:  
(Start: 3 @2441 has 21 MA's), (7, 2618), (8, 2633), (9, 2651),

Gene: Kewpiedoll\_4 Start: 2449, Stop: 2721, Start Num: 3  
Candidate Starts for Kewpiedoll\_4:  
(Start: 3 @2449 has 21 MA's), (8, 2641), (9, 2659),

Gene: Kroos\_4 Start: 2450, Stop: 2722, Start Num: 3  
Candidate Starts for Kroos\_4:  
(Start: 3 @2450 has 21 MA's), (6, 2612), (7, 2627), (9, 2660),

Gene: Kwobi\_4 Start: 2484, Stop: 2756, Start Num: 3  
Candidate Starts for Kwobi\_4:  
(Start: 3 @2484 has 21 MA's), (8, 2676), (9, 2694),

Gene: Love\_4 Start: 2441, Stop: 2713, Start Num: 3  
Candidate Starts for Love\_4:  
(Start: 3 @2441 has 21 MA's), (7, 2618), (8, 2633), (9, 2651),

Gene: MoontowerMania\_3 Start: 2188, Stop: 2460, Start Num: 3  
Candidate Starts for MoontowerMania\_3:  
(Start: 3 @2188 has 21 MA's), (8, 2380), (9, 2398),

Gene: Paries\_4 Start: 2441, Stop: 2713, Start Num: 3  
Candidate Starts for Paries\_4:  
(Start: 3 @2441 has 21 MA's), (7, 2618), (8, 2633), (9, 2651),

Gene: Ribeye\_4 Start: 2485, Stop: 2757, Start Num: 3  
Candidate Starts for Ribeye\_4:  
(Start: 3 @2485 has 21 MA's), (7, 2662), (9, 2695),

Gene: Rofo\_4 Start: 3242, Stop: 3514, Start Num: 3  
Candidate Starts for Rofo\_4:  
(Start: 3 @3242 has 21 MA's), (7, 3419), (8, 3434), (9, 3452),

Gene: Saronaya\_4 Start: 2484, Stop: 2756, Start Num: 3  
Candidate Starts for Saronaya\_4:  
(Start: 3 @2484 has 21 MA's), (8, 2676), (9, 2694),

Gene: StorminNorm\_4 Start: 2484, Stop: 2756, Start Num: 3  
Candidate Starts for StorminNorm\_4:  
(Start: 3 @2484 has 21 MA's), (8, 2676), (9, 2694),

Gene: Tangerine\_4 Start: 2484, Stop: 2756, Start Num: 3  
Candidate Starts for Tangerine\_4:  
(Start: 3 @2484 has 21 MA's), (8, 2676), (9, 2694),

Gene: Tardus\_3 Start: 2152, Stop: 2394, Start Num: 4  
Candidate Starts for Tardus\_3:  
(1, 1984), (2, 2002), (Start: 4 @2152 has 1 MA's), (5, 2188), (9, 2332), (10, 2380),

Gene: Thing3\_4 Start: 2441, Stop: 2713, Start Num: 3  
Candidate Starts for Thing3\_4:  
(Start: 3 @2441 has 21 MA's), (7, 2618), (8, 2633), (9, 2651),

Gene: Tycho\_4 Start: 2484, Stop: 2756, Start Num: 3  
Candidate Starts for Tycho\_4:  
(Start: 3 @2484 has 21 MA's), (8, 2676), (9, 2694),

Gene: YorkOnyx\_4 Start: 2442, Stop: 2714, Start Num: 3  
Candidate Starts for YorkOnyx\_4:  
(Start: 3 @2442 has 21 MA's), (8, 2634), (9, 2652),

Gene: Zitch\_3 Start: 2493, Stop: 2765, Start Num: 3  
Candidate Starts for Zitch\_3:  
(Start: 3 @2493 has 21 MA's), (6, 2655), (7, 2670), (9, 2703),