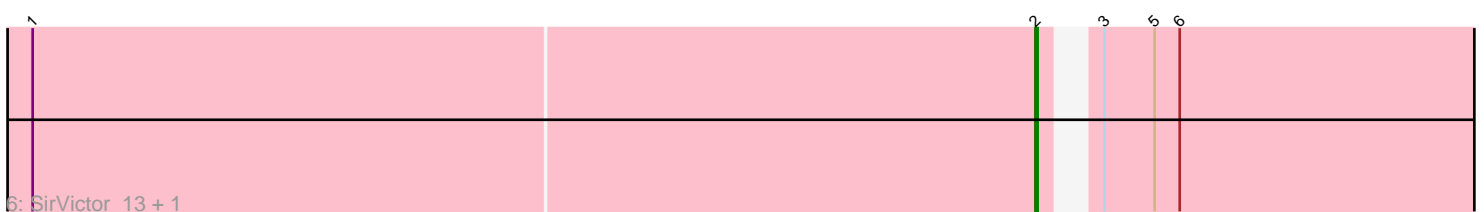
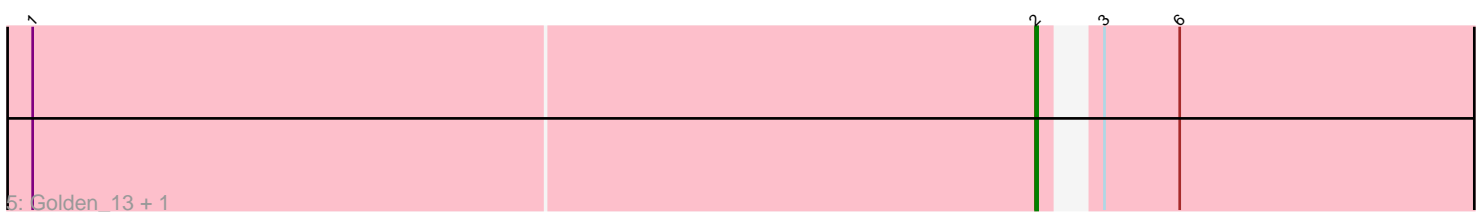
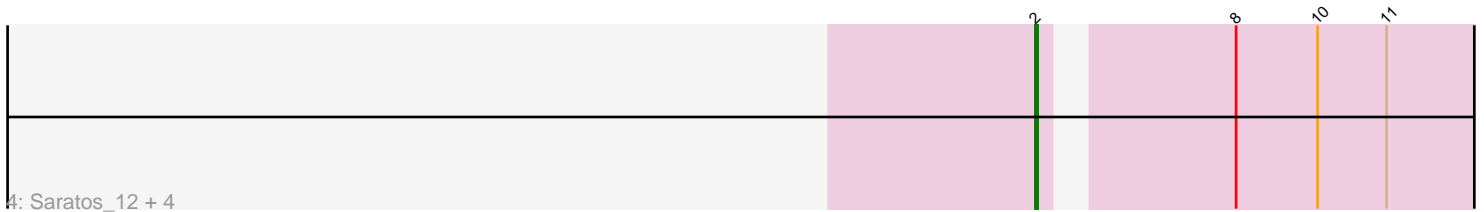
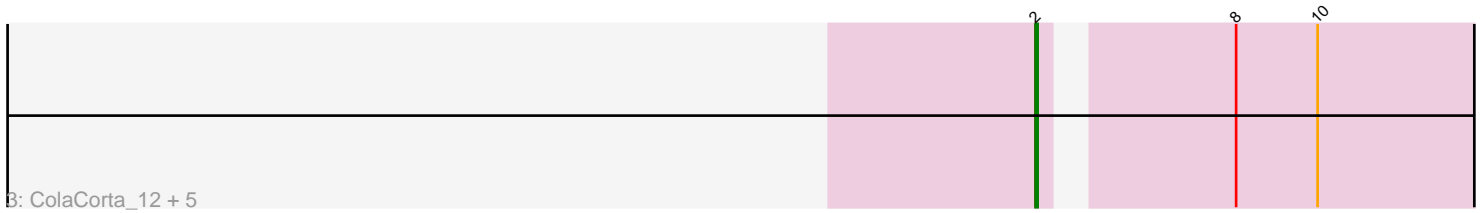
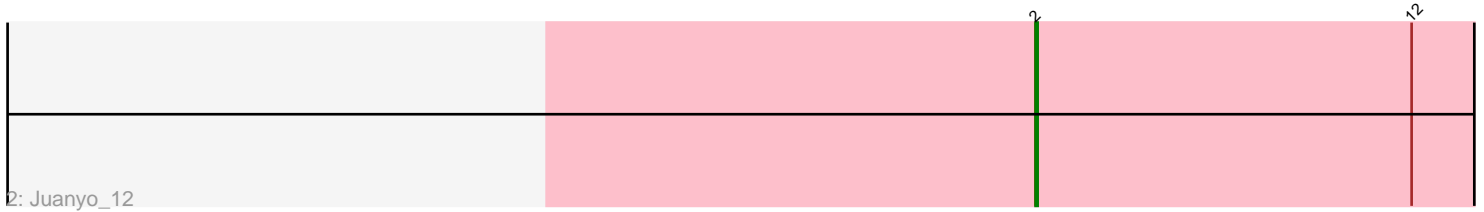
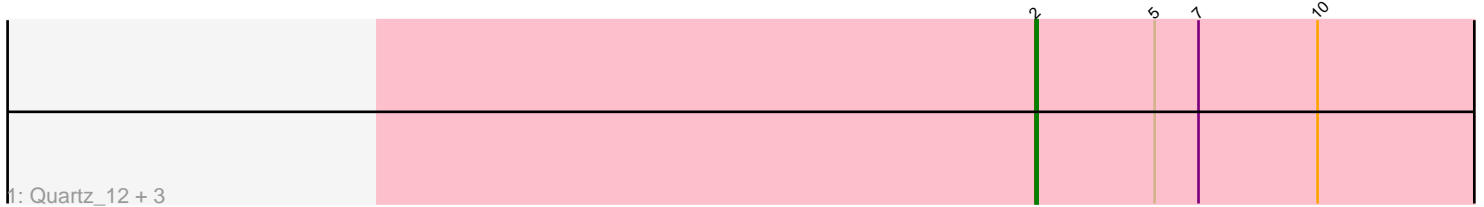


Pham 163928



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 163928 Report

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

Pham number 163928 has 21 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Quartz\_12, Mandalorian\_12, Nucci\_12, Carostasia\_12
- Track 2 : Juanyo\_12
- Track 3 : ColaCorta\_12, ChikPic\_12, MCubed\_12, Sansa\_11, Zenitsu\_12, Andromedas\_12
- Track 4 : Saratos\_12, Eleri\_12, Finny\_12, Glamour\_11, Shamu\_12
- Track 5 : Golden\_13, Lucky3\_13
- Track 6 : SirVictor\_13, Guetzie\_13
- Track 7 : WilliamStrong\_12

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

The start number called the most often in the published annotations is 2, it was called in 20 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Andromedas\_12, Carostasia\_12, ChikPic\_12, ColaCorta\_12, Eleri\_12, Finny\_12, Glamour\_11, Golden\_13, Guetzie\_13, Juanyo\_12, Lucky3\_13, MCubed\_12, Mandalorian\_12, Nucci\_12, Quartz\_12, Sansa\_11, Saratos\_12, Shamu\_12, SirVictor\_13, WilliamStrong\_12, Zenitsu\_12,

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 2:

- Found in 21 of 21 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 20 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Andromedas\_12 (EA2), Carostasia\_12 (EA10), ChikPic\_12 (EA2), ColaCorta\_12 (EA2), Eleri\_12 (EA2), Finny\_12 (EA2),

Glamour\_11 (EA2), Golden\_13 (EA4), Guetzie\_13 (EA4), Juanyo\_12 (EA10), Lucky3\_13 (EA4), MCubed\_12 (EA2), Mandalorian\_12 (EA10), Nucci\_12 (EA10), Quartz\_12 (EA10), Sansa\_11 (EA2), Saratos\_12 (EA2), Shamu\_12 (EA2), SirVictor\_13 (EA4), WilliamStrong\_12 (EA6), Zenitsu\_12 (EA2),

### **Summary by clusters:**

There are 4 clusters represented in this pham: EA2, EA4, EA6, EA10,

Info for manual annotations of cluster EA10:

- Start number 2 was manually annotated 4 times for cluster EA10.

Info for manual annotations of cluster EA2:

- Start number 2 was manually annotated 11 times for cluster EA2.

Info for manual annotations of cluster EA4:

- Start number 2 was manually annotated 4 times for cluster EA4.

Info for manual annotations of cluster EA6:

- Start number 2 was manually annotated 1 time for cluster EA6.

### **Gene Information:**

Gene: Andromedas\_12 Start: 7650, Stop: 7910, Start Num: 2

Candidate Starts for Andromedas\_12:

(Start: 2 @7650 has 20 MA's), (8, 7728), (10, 7767),

Gene: Carostasia\_12 Start: 7815, Stop: 8102, Start Num: 2

Candidate Starts for Carostasia\_12:

(Start: 2 @7815 has 20 MA's), (5, 7872), (7, 7893), (10, 7950),

Gene: ChikPic\_12 Start: 7666, Stop: 7926, Start Num: 2

Candidate Starts for ChikPic\_12:

(Start: 2 @7666 has 20 MA's), (8, 7744), (10, 7783),

Gene: ColaCorta\_12 Start: 7650, Stop: 7910, Start Num: 2

Candidate Starts for ColaCorta\_12:

(Start: 2 @7650 has 20 MA's), (8, 7728), (10, 7767),

Gene: Eleri\_12 Start: 7663, Stop: 7923, Start Num: 2

Candidate Starts for Eleri\_12:

(Start: 2 @7663 has 20 MA's), (8, 7741), (10, 7780), (11, 7813),

Gene: Finny\_12 Start: 7650, Stop: 7910, Start Num: 2

Candidate Starts for Finny\_12:

(Start: 2 @7650 has 20 MA's), (8, 7728), (10, 7767), (11, 7800),

Gene: Glamour\_11 Start: 7651, Stop: 7911, Start Num: 2

Candidate Starts for Glamour\_11:

(Start: 2 @7651 has 20 MA's), (8, 7729), (10, 7768), (11, 7801),

Gene: Golden\_13 Start: 7951, Stop: 8181, Start Num: 2  
Candidate Starts for Golden\_13:  
(1, 7474), (Start: 2 @7951 has 20 MA's), (3, 7966), (6, 8002),

Gene: Guetzie\_13 Start: 7945, Stop: 8175, Start Num: 2  
Candidate Starts for Guetzie\_13:  
(1, 7468), (Start: 2 @7945 has 20 MA's), (3, 7960), (5, 7984), (6, 7996),

Gene: Juanyo\_12 Start: 7777, Stop: 8067, Start Num: 2  
Candidate Starts for Juanyo\_12:  
(Start: 2 @7777 has 20 MA's), (12, 7957),

Gene: Lucky3\_13 Start: 7951, Stop: 8181, Start Num: 2  
Candidate Starts for Lucky3\_13:  
(1, 7474), (Start: 2 @7951 has 20 MA's), (3, 7966), (6, 8002),

Gene: MCubed\_12 Start: 7675, Stop: 7935, Start Num: 2  
Candidate Starts for MCubed\_12:  
(Start: 2 @7675 has 20 MA's), (8, 7753), (10, 7792),

Gene: Mandalorian\_12 Start: 7814, Stop: 8101, Start Num: 2  
Candidate Starts for Mandalorian\_12:  
(Start: 2 @7814 has 20 MA's), (5, 7871), (7, 7892), (10, 7949),

Gene: Nucci\_12 Start: 7802, Stop: 8089, Start Num: 2  
Candidate Starts for Nucci\_12:  
(Start: 2 @7802 has 20 MA's), (5, 7859), (7, 7880), (10, 7937),

Gene: Quartz\_12 Start: 7815, Stop: 8102, Start Num: 2  
Candidate Starts for Quartz\_12:  
(Start: 2 @7815 has 20 MA's), (5, 7872), (7, 7893), (10, 7950),

Gene: Sansa\_11 Start: 7671, Stop: 7931, Start Num: 2  
Candidate Starts for Sansa\_11:  
(Start: 2 @7671 has 20 MA's), (8, 7749), (10, 7788),

Gene: Saratos\_12 Start: 7651, Stop: 7911, Start Num: 2  
Candidate Starts for Saratos\_12:  
(Start: 2 @7651 has 20 MA's), (8, 7729), (10, 7768), (11, 7801),

Gene: Shamu\_12 Start: 7663, Stop: 7923, Start Num: 2  
Candidate Starts for Shamu\_12:  
(Start: 2 @7663 has 20 MA's), (8, 7741), (10, 7780), (11, 7813),

Gene: SirVictor\_13 Start: 7945, Stop: 8175, Start Num: 2  
Candidate Starts for SirVictor\_13:  
(1, 7468), (Start: 2 @7945 has 20 MA's), (3, 7960), (5, 7984), (6, 7996),

Gene: WilliamStrong\_12 Start: 8631, Stop: 8936, Start Num: 2  
Candidate Starts for WilliamStrong\_12:  
(Start: 2 @8631 has 20 MA's), (4, 8667), (9, 8739), (10, 8766), (12, 8811),

Gene: Zenitsu\_12 Start: 7675, Stop: 7935, Start Num: 2

Candidate Starts for Zenitsu\_12:  
(Start: 2 @7675 has 20 MA's), (8, 7753), (10, 7792),