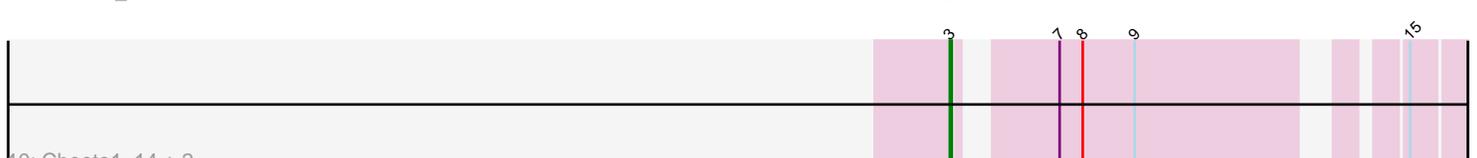
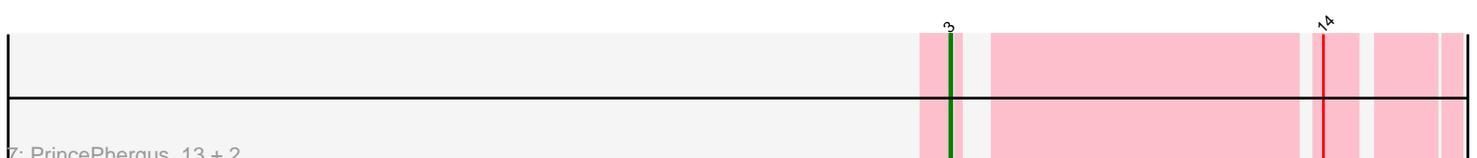
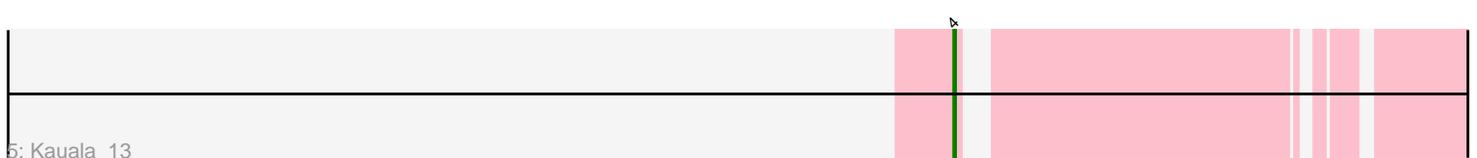
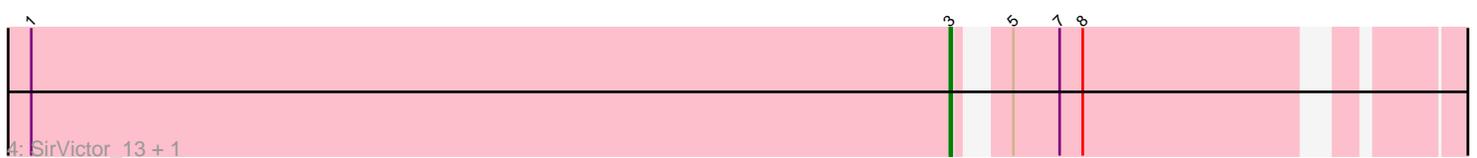
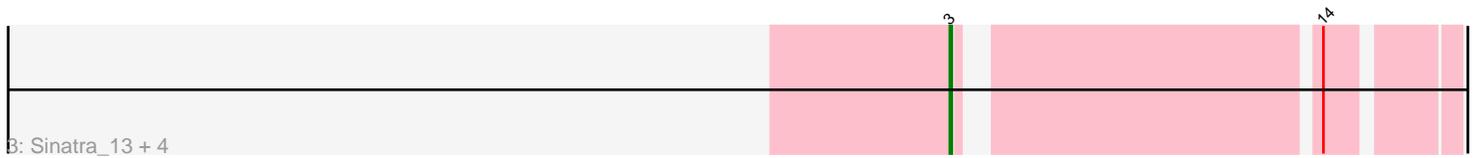
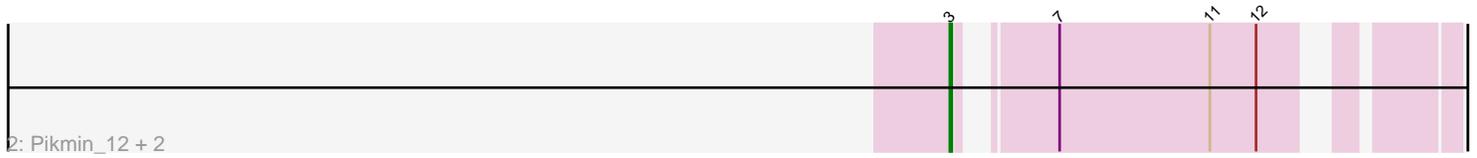
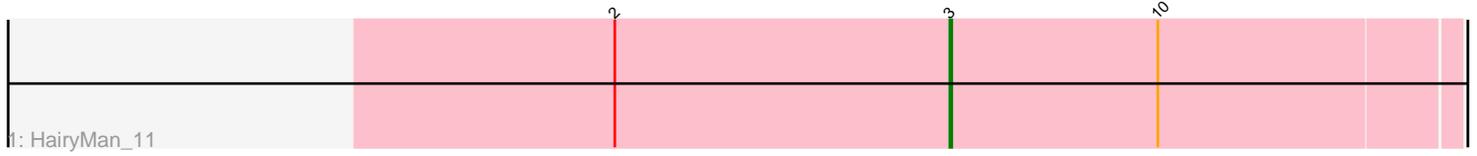


Pham 291531



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 291531 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291531 has 22 members, 2 are drafts.

Phages represented in each track:

- Track 1 : HairyMan\_11
- Track 2 : Pikmin\_12, Casey\_12, Pajaza\_12
- Track 3 : Sinatra\_13, Bustleton\_13, Jingles\_13, BouleyBill\_13, Pherbot\_13
- Track 4 : SirVictor\_13, Guetzie\_13
- Track 5 : Kauala\_13
- Track 6 : Golden\_13, Lucky3\_13
- Track 7 : PrincePhergus\_13, Koji\_13, RenegadeRaider\_13
- Track 8 : Theresita\_13
- Track 9 : Schubert\_13
- Track 10 : Cheeto1\_14, GaeCeo\_14, ChickenKing\_13

### ***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 19 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BouleyBill\_13, Bustleton\_13, Casey\_12, Cheeto1\_14, ChickenKing\_13, GaeCeo\_14, Golden\_13, Guetzie\_13, HairyMan\_11, Jingles\_13, Koji\_13, Lucky3\_13, Pajaza\_12, Pherbot\_13, Pikmin\_12, PrincePhergus\_13, RenegadeRaider\_13, Schubert\_13, Sinatra\_13, SirVictor\_13, Theresita\_13,

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

- 

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

- Kauala\_13,

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

Start 3:

- Found in 21 of 22 ( 95.5% ) of genes in pham
- Manual Annotations of this start: 19 of 20
- Called 100.0% of time when present

- Phage (with cluster) where this start called: BouleyBill\_13 (EA4), Bustleton\_13 (EA4), Casey\_12 (EA3), Cheeto1\_14 (EA9), ChickenKing\_13 (EA9), GaeCeo\_14 (EA9), Golden\_13 (EA4), Guetzie\_13 (EA4), HairyMan\_11 (EA10), Jingles\_13 (EA4), Koji\_13 (EA4), Lucky3\_13 (EA4), Pajaza\_12 (EA3), Pherbot\_13 (EA4), Pikmin\_12 (EA3), PrincePhergus\_13 (EA4), RenegadeRaider\_13 (EA4), Schubert\_13 (EA8), Sinatra\_13 (EA4), SirVictor\_13 (EA4), Theresita\_13 (EA7),

Start 4:

- Found in 1 of 22 ( 4.5% ) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kauala\_13 (EA4),

### **Summary by clusters:**

There are 6 clusters represented in this pham: EA10, EA9, EA8, EA3, EA4, EA7,

Info for manual annotations of cluster EA10:

- Start number 3 was manually annotated 1 time for cluster EA10.

Info for manual annotations of cluster EA3:

- Start number 3 was manually annotated 3 times for cluster EA3.

Info for manual annotations of cluster EA4:

- Start number 3 was manually annotated 10 times for cluster EA4.
- Start number 4 was manually annotated 1 time for cluster EA4.

Info for manual annotations of cluster EA7:

- Start number 3 was manually annotated 1 time for cluster EA7.

Info for manual annotations of cluster EA8:

- Start number 3 was manually annotated 1 time for cluster EA8.

Info for manual annotations of cluster EA9:

- Start number 3 was manually annotated 3 times for cluster EA9.

### **Gene Information:**

Gene: BouleyBill\_13 Start: 7871, Stop: 8098, Start Num: 3

Candidate Starts for BouleyBill\_13:

(Start: 3 @7871 has 19 MA's), (14, 8039),

Gene: Bustleton\_13 Start: 7859, Stop: 8086, Start Num: 3

Candidate Starts for Bustleton\_13:

(Start: 3 @7859 has 19 MA's), (14, 8027),

Gene: Casey\_12 Start: 7906, Stop: 8121, Start Num: 3

Candidate Starts for Casey\_12:

(Start: 3 @7906 has 19 MA's), (7, 7942), (11, 8020), (12, 8044),

Gene: Cheeto1\_14 Start: 7774, Stop: 8001, Start Num: 3

Candidate Starts for Cheeto1\_14:  
(Start: 3 @7774 has 19 MA's), (7, 7813), (8, 7825), (9, 7852), (15, 7966),

Gene: ChickenKing\_13 Start: 7594, Stop: 7821, Start Num: 3  
Candidate Starts for ChickenKing\_13:  
(Start: 3 @7594 has 19 MA's), (7, 7633), (8, 7645), (9, 7672), (15, 7786),

Gene: GaeCeo\_14 Start: 7764, Stop: 7991, Start Num: 3  
Candidate Starts for GaeCeo\_14:  
(Start: 3 @7764 has 19 MA's), (7, 7803), (8, 7815), (9, 7842), (15, 7956),

Gene: Golden\_13 Start: 7951, Stop: 8181, Start Num: 3  
Candidate Starts for Golden\_13:  
(1, 7474), (Start: 3 @7951 has 19 MA's), (5, 7966), (8, 8002),

Gene: Guetzie\_13 Start: 7945, Stop: 8175, Start Num: 3  
Candidate Starts for Guetzie\_13:  
(1, 7468), (Start: 3 @7945 has 19 MA's), (5, 7960), (7, 7984), (8, 7996),

Gene: HairyMan\_11 Start: 7390, Stop: 7650, Start Num: 3  
Candidate Starts for HairyMan\_11:  
(2, 7216), (Start: 3 @7390 has 19 MA's), (10, 7498),

Gene: Jingles\_13 Start: 7873, Stop: 8100, Start Num: 3  
Candidate Starts for Jingles\_13:  
(Start: 3 @7873 has 19 MA's), (14, 8041),

Gene: Kauala\_13 Start: 7869, Stop: 8105, Start Num: 4  
Candidate Starts for Kauala\_13:  
(Start: 4 @7869 has 1 MA's),

Gene: Koji\_13 Start: 7992, Stop: 8219, Start Num: 3  
Candidate Starts for Koji\_13:  
(Start: 3 @7992 has 19 MA's), (14, 8160),

Gene: Lucky3\_13 Start: 7951, Stop: 8181, Start Num: 3  
Candidate Starts for Lucky3\_13:  
(1, 7474), (Start: 3 @7951 has 19 MA's), (5, 7966), (8, 8002),

Gene: Pajaza\_12 Start: 7906, Stop: 8121, Start Num: 3  
Candidate Starts for Pajaza\_12:  
(Start: 3 @7906 has 19 MA's), (7, 7942), (11, 8020), (12, 8044),

Gene: Pherbot\_13 Start: 7858, Stop: 8085, Start Num: 3  
Candidate Starts for Pherbot\_13:  
(Start: 3 @7858 has 19 MA's), (14, 8026),

Gene: Pikmin\_12 Start: 7906, Stop: 8121, Start Num: 3  
Candidate Starts for Pikmin\_12:  
(Start: 3 @7906 has 19 MA's), (7, 7942), (11, 8020), (12, 8044),

Gene: PrincePhergus\_13 Start: 7862, Stop: 8089, Start Num: 3  
Candidate Starts for PrincePhergus\_13:

(Start: 3 @7862 has 19 MA's), (14, 8030),

Gene: RenegadeRaider\_13 Start: 7861, Stop: 8088, Start Num: 3

Candidate Starts for RenegadeRaider\_13:

(Start: 3 @7861 has 19 MA's), (14, 8029),

Gene: Schubert\_13 Start: 8046, Stop: 8288, Start Num: 3

Candidate Starts for Schubert\_13:

(Start: 3 @8046 has 19 MA's), (6, 8082), (10, 8154), (11, 8181),

Gene: Sinatra\_13 Start: 7859, Stop: 8086, Start Num: 3

Candidate Starts for Sinatra\_13:

(Start: 3 @7859 has 19 MA's), (14, 8027),

Gene: SirVictor\_13 Start: 7945, Stop: 8175, Start Num: 3

Candidate Starts for SirVictor\_13:

(1, 7468), (Start: 3 @7945 has 19 MA's), (5, 7960), (7, 7984), (8, 7996),

Gene: Theresita\_13 Start: 7443, Stop: 7679, Start Num: 3

Candidate Starts for Theresita\_13:

(Start: 3 @7443 has 19 MA's), (5, 7458), (6, 7461), (13, 7593), (14, 7611),