



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 298990 Report

This analysis was run 06/08/26 on database version 649.

Pham number 298990 has 12 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Guetzie\_7, BouleyBill\_7, SirVictor\_7, Golden\_7, Lucky3\_7
- Track 2 : RenegadeRaider\_7, PrincePhergus\_7
- Track 3 : Sinatra\_7
- Track 4 : Bustleton\_7, Pherbot\_7
- Track 5 : Jingles\_7
- Track 6 : Kauala\_7

### ***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 7 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BouleyBill\_7, Golden\_7, Guetzie\_7, Kauala\_7, Lucky3\_7, Sinatra\_7, SirVictor\_7,

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

- Jingles\_7, PrincePhergus\_7, RenegadeRaider\_7,

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

- Bustleton\_7, Pherbot\_7,

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

Start 1:

- Found in 6 of 12 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 4 of 11
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Bustleton\_7 (EA4), Jingles\_7 (EA4), Pherbot\_7 (EA4), PrincePhergus\_7 (EA4), RenegadeRaider\_7 (EA4),

Start 3:

- Found in 10 of 12 ( 83.3% ) of genes in pham
- Manual Annotations of this start: 7 of 11
- Called 70.0% of time when present

- Phage (with cluster) where this start called: BouleyBill\_7 (EA4), Golden\_7 (EA4), Guetzie\_7 (EA4), Kauala\_7 (EA4), Lucky3\_7 (EA4), Sinatra\_7 (EA4), SirVictor\_7 (EA4),

### **Summary by clusters:**

There is one cluster represented in this pham: EA4

Info for manual annotations of cluster EA4:

- Start number 1 was manually annotated 4 times for cluster EA4.
- Start number 3 was manually annotated 7 times for cluster EA4.

### **Gene Information:**

Gene: BouleyBill\_7 Start: 5684, Stop: 5935, Start Num: 3

Candidate Starts for BouleyBill\_7:

(Start: 3 @5684 has 7 MA's),

Gene: Bustleton\_7 Start: 5666, Stop: 5917, Start Num: 1

Candidate Starts for Bustleton\_7:

(Start: 1 @5666 has 4 MA's), (2, 5669), (4, 5774),

Gene: Golden\_7 Start: 5769, Stop: 6020, Start Num: 3

Candidate Starts for Golden\_7:

(Start: 3 @5769 has 7 MA's),

Gene: Guetzie\_7 Start: 5757, Stop: 6008, Start Num: 3

Candidate Starts for Guetzie\_7:

(Start: 3 @5757 has 7 MA's),

Gene: Jingles\_7 Start: 5668, Stop: 5934, Start Num: 1

Candidate Starts for Jingles\_7:

(Start: 1 @5668 has 4 MA's), (Start: 3 @5674 has 7 MA's), (4, 5791),

Gene: Kauala\_7 Start: 5674, Stop: 5934, Start Num: 3

Candidate Starts for Kauala\_7:

(Start: 3 @5674 has 7 MA's),

Gene: Lucky3\_7 Start: 5769, Stop: 6020, Start Num: 3

Candidate Starts for Lucky3\_7:

(Start: 3 @5769 has 7 MA's),

Gene: Pherbot\_7 Start: 5665, Stop: 5916, Start Num: 1

Candidate Starts for Pherbot\_7:

(Start: 1 @5665 has 4 MA's), (2, 5668), (4, 5773),

Gene: PrincePhergus\_7 Start: 5666, Stop: 5923, Start Num: 1

Candidate Starts for PrincePhergus\_7:

(Start: 1 @5666 has 4 MA's), (Start: 3 @5672 has 7 MA's),

Gene: RenegadeRaider\_7 Start: 5665, Stop: 5922, Start Num: 1

Candidate Starts for RenegadeRaider\_7:  
(Start: 1 @5665 has 4 MA's), (Start: 3 @5671 has 7 MA's),

Gene: Sinatra\_7 Start: 5669, Stop: 5920, Start Num: 3  
Candidate Starts for Sinatra\_7:  
(Start: 1 @5663 has 4 MA's), (Start: 3 @5669 has 7 MA's),

Gene: SirVictor\_7 Start: 5757, Stop: 6008, Start Num: 3  
Candidate Starts for SirVictor\_7:  
(Start: 3 @5757 has 7 MA's),