



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 8009 Report

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

Pham number 8009 has 9 members, 1 are drafts.

Phages represented in each track:

- Track 1 : SirVictor\_49, Guetzie\_49
- Track 2 : Lucky3\_48, Golden\_48
- Track 3 : Pherbot\_48, Sinatra\_49, Bustleton\_48, PrincePhergus\_48
- Track 4 : BouleyBill\_49

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

The start number called the most often in the published annotations is 5, it was called in 8 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BouleyBill\_49, Bustleton\_48, Golden\_48, Guetzie\_49, Lucky3\_48, Pherbot\_48, PrincePhergus\_48, Sinatra\_49, SirVictor\_49,

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 5:

- Found in 9 of 9 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 8 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BouleyBill\_49 (EA4), Bustleton\_48 (EA4), Golden\_48 (EA4), Guetzie\_49 (EA4), Lucky3\_48 (EA4), Pherbot\_48 (EA4), PrincePhergus\_48 (EA4), Sinatra\_49 (EA4), SirVictor\_49 (EA4),

### **Summary by clusters:**

There is one cluster represented in this pham: EA4

Info for manual annotations of cluster EA4:

- Start number 5 was manually annotated 8 times for cluster EA4.

**Gene Information:**

Gene: BouleyBill\_49 Start: 35181, Stop: 34957, Start Num: 5

Candidate Starts for BouleyBill\_49:

(Start: 5 @35181 has 8 MA's), (6, 35169), (7, 35061),

Gene: Bustleton\_48 Start: 34975, Stop: 34751, Start Num: 5

Candidate Starts for Bustleton\_48:

(Start: 5 @34975 has 8 MA's), (6, 34963), (7, 34855),

Gene: Golden\_48 Start: 35030, Stop: 34806, Start Num: 5

Candidate Starts for Golden\_48:

(1, 35456), (2, 35381), (3, 35357), (4, 35174), (Start: 5 @35030 has 8 MA's), (6, 35018), (7, 34910),

Gene: Guetzie\_49 Start: 35014, Stop: 34790, Start Num: 5

Candidate Starts for Guetzie\_49:

(4, 35158), (Start: 5 @35014 has 8 MA's), (6, 35002), (7, 34894),

Gene: Lucky3\_48 Start: 35030, Stop: 34806, Start Num: 5

Candidate Starts for Lucky3\_48:

(1, 35456), (2, 35381), (3, 35357), (4, 35174), (Start: 5 @35030 has 8 MA's), (6, 35018), (7, 34910),

Gene: Pherbot\_48 Start: 34962, Stop: 34738, Start Num: 5

Candidate Starts for Pherbot\_48:

(Start: 5 @34962 has 8 MA's), (6, 34950), (7, 34842),

Gene: PrincePhergus\_48 Start: 34978, Stop: 34754, Start Num: 5

Candidate Starts for PrincePhergus\_48:

(Start: 5 @34978 has 8 MA's), (6, 34966), (7, 34858),

Gene: Sinatra\_49 Start: 34973, Stop: 34749, Start Num: 5

Candidate Starts for Sinatra\_49:

(Start: 5 @34973 has 8 MA's), (6, 34961), (7, 34853),

Gene: SirVictor\_49 Start: 35014, Stop: 34790, Start Num: 5

Candidate Starts for SirVictor\_49:

(4, 35158), (Start: 5 @35014 has 8 MA's), (6, 35002), (7, 34894),