



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 87501 Report

This analysis was run 04/05/24 on database version 557.

Pham number 87501 has 12 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Mopey\_62, WaldoWhy\_63, Thoth\_61, Nova\_60, SirHarley\_63, BigMama\_59, Prager\_61, Chill\_63
- Track 2 : Erk16\_60, Helpful\_64, Visconti\_62
- Track 3 : Penelope2018\_61

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

Genes that call this "Most Annotated" start:

- BigMama\_59, Chill\_63, Erk16\_60, Helpful\_64, Mopey\_62, Nova\_60, Penelope2018\_61, Prager\_61, SirHarley\_63, Thoth\_61, Visconti\_62, WaldoWhy\_63,

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 12 of 12 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 11 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BigMama\_59 (D1), Chill\_63 (D1), Erk16\_60 (D1), Helpful\_64 (D1), Mopey\_62 (D1), Nova\_60 (D1), Penelope2018\_61 (D1), Prager\_61 (D1), SirHarley\_63 (D1), Thoth\_61 (D1), Visconti\_62 (D1), WaldoWhy\_63 (D1),

### **Summary by clusters:**

There is one cluster represented in this pham: D1

Info for manual annotations of cluster D1:

- Start number 2 was manually annotated 11 times for cluster D1.

**Gene Information:**

Gene: BigMama\_59 Start: 46403, Stop: 46519, Start Num: 2

Candidate Starts for BigMama\_59:

(Start: 2 @46403 has 11 MA's), (3, 46439),

Gene: Chill\_63 Start: 46414, Stop: 46530, Start Num: 2

Candidate Starts for Chill\_63:

(Start: 2 @46414 has 11 MA's), (3, 46450),

Gene: Erk16\_60 Start: 46445, Stop: 46561, Start Num: 2

Candidate Starts for Erk16\_60:

(1, 46391), (Start: 2 @46445 has 11 MA's), (3, 46481),

Gene: Helpful\_64 Start: 46690, Stop: 46806, Start Num: 2

Candidate Starts for Helpful\_64:

(1, 46636), (Start: 2 @46690 has 11 MA's), (3, 46726),

Gene: Mopey\_62 Start: 46334, Stop: 46450, Start Num: 2

Candidate Starts for Mopey\_62:

(Start: 2 @46334 has 11 MA's), (3, 46370),

Gene: Nova\_60 Start: 46822, Stop: 46938, Start Num: 2

Candidate Starts for Nova\_60:

(Start: 2 @46822 has 11 MA's), (3, 46858),

Gene: Penelope2018\_61 Start: 46368, Stop: 46484, Start Num: 2

Candidate Starts for Penelope2018\_61:

(1, 46302), (Start: 2 @46368 has 11 MA's), (3, 46404),

Gene: Prager\_61 Start: 46428, Stop: 46544, Start Num: 2

Candidate Starts for Prager\_61:

(Start: 2 @46428 has 11 MA's), (3, 46464),

Gene: SirHarley\_63 Start: 46833, Stop: 46949, Start Num: 2

Candidate Starts for SirHarley\_63:

(Start: 2 @46833 has 11 MA's), (3, 46869),

Gene: Thoth\_61 Start: 46422, Stop: 46538, Start Num: 2

Candidate Starts for Thoth\_61:

(Start: 2 @46422 has 11 MA's), (3, 46458),

Gene: Visconti\_62 Start: 46398, Stop: 46514, Start Num: 2

Candidate Starts for Visconti\_62:

(1, 46344), (Start: 2 @46398 has 11 MA's), (3, 46434),

Gene: WaldoWhy\_63 Start: 46414, Stop: 46530, Start Num: 2

Candidate Starts for WaldoWhy\_63:  
(Start: 2 @46414 has 11 MA's), (3, 46450),