



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 106703 Report

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

Pham number 106703 has 14 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Lucivia\_65, MaCh\_64, Bowtie\_65, Bachome\_66, Gilberta\_65, Flaverint\_65, Sham4\_64, Orange\_63, Petersenfast\_62, Timothy\_64, Mabel\_64, Snape\_64
- Track 2 : Che12\_68
- Track 3 : Serenity\_68

### ***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 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bachome\_66, Bowtie\_65, Flaverint\_65, Gilberta\_65, Lucivia\_65, MaCh\_64, Mabel\_64, Orange\_63, Petersenfast\_62, Sham4\_64, Snape\_64, Timothy\_64,

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

- Che12\_68, Serenity\_68,

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

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

Start 2:

- Found in 14 of 14 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 11 of 13
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Bachome\_66 (A11), Bowtie\_65 (A11), Flaverint\_65 (A11), Gilberta\_65 (A11), Lucivia\_65 (A11), MaCh\_64 (A11), Mabel\_64 (A11), Orange\_63 (A11), Petersenfast\_62 (A11), Sham4\_64 (A11), Snape\_64 (A11), Timothy\_64 (A11),

Start 3:

- Found in 2 of 14 ( 14.3% ) of genes in pham

- Manual Annotations of this start: 1 of 13
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Che12\_68 (A2),

Start 4:

- Found in 1 of 14 ( 7.1% ) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Serenity\_68 (A2),

### **Summary by clusters:**

There are 2 clusters represented in this pham: A2, A11,

Info for manual annotations of cluster A11:

- Start number 2 was manually annotated 11 times for cluster A11.

Info for manual annotations of cluster A2:

- Start number 3 was manually annotated 1 time for cluster A2.
- Start number 4 was manually annotated 1 time for cluster A2.

### **Gene Information:**

Gene: Bachome\_66 Start: 39908, Stop: 39807, Start Num: 2

Candidate Starts for Bachome\_66:

(Start: 2 @39908 has 11 MA's), (7, 39848),

Gene: Bowtie\_65 Start: 39935, Stop: 39834, Start Num: 2

Candidate Starts for Bowtie\_65:

(Start: 2 @39935 has 11 MA's), (7, 39875),

Gene: Che12\_68 Start: 39665, Stop: 39570, Start Num: 3

Candidate Starts for Che12\_68:

(Start: 2 @39674 has 11 MA's), (Start: 3 @39665 has 1 MA's), (5, 39644),

Gene: Flaverint\_65 Start: 39926, Stop: 39825, Start Num: 2

Candidate Starts for Flaverint\_65:

(Start: 2 @39926 has 11 MA's), (7, 39866),

Gene: Gilberta\_65 Start: 39919, Stop: 39818, Start Num: 2

Candidate Starts for Gilberta\_65:

(Start: 2 @39919 has 11 MA's), (7, 39859),

Gene: Lucivia\_65 Start: 39977, Stop: 39876, Start Num: 2

Candidate Starts for Lucivia\_65:

(Start: 2 @39977 has 11 MA's), (7, 39917),

Gene: MaCh\_64 Start: 39907, Stop: 39806, Start Num: 2

Candidate Starts for MaCh\_64:

(Start: 2 @39907 has 11 MA's), (7, 39847),

Gene: Mabel\_64 Start: 39924, Stop: 39823, Start Num: 2

Candidate Starts for Mabel\_64:

(Start: 2 @39924 has 11 MA's), (7, 39864),

Gene: Orange\_63 Start: 39477, Stop: 39376, Start Num: 2

Candidate Starts for Orange\_63:

(Start: 2 @39477 has 11 MA's), (7, 39417),

Gene: Petersenfast\_62 Start: 39476, Stop: 39375, Start Num: 2

Candidate Starts for Petersenfast\_62:

(Start: 2 @39476 has 11 MA's), (7, 39416),

Gene: Serenity\_68 Start: 40371, Stop: 40282, Start Num: 4

Candidate Starts for Serenity\_68:

(1, 40662), (Start: 2 @40389 has 11 MA's), (Start: 3 @40380 has 1 MA's), (Start: 4 @40371 has 1 MA's), (6, 40344),

Gene: Sham4\_64 Start: 39475, Stop: 39374, Start Num: 2

Candidate Starts for Sham4\_64:

(Start: 2 @39475 has 11 MA's), (7, 39415),

Gene: Snape\_64 Start: 39467, Stop: 39366, Start Num: 2

Candidate Starts for Snape\_64:

(Start: 2 @39467 has 11 MA's), (7, 39407),

Gene: Timothy\_64 Start: 39444, Stop: 39343, Start Num: 2

Candidate Starts for Timothy\_64:

(Start: 2 @39444 has 11 MA's), (7, 39384),