



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 223571 Report

This analysis was run 03/28/25 on database version 593.

Pham number 223571 has 13 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Phelemich\_89, Reprobate\_91
- Track 2 : Acadian\_92, EastView9101\_92, Suigeneris\_93, Serendipitous\_93, Rita130\_91, Donny\_92, Rich\_90
- Track 3 : Mysterious\_93, Nehemiah\_91
- Track 4 : Bae\_91
- Track 5 : SirJeffery\_90

### ***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 8 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acadian\_92, Donny\_92, EastView9101\_92, Mysterious\_93, Nehemiah\_91, Phelemich\_89, Reprobate\_91, Rich\_90, Rita130\_91, Serendipitous\_93, SirJeffery\_90, Suigeneris\_93,

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

- Bae\_91,

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

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

Start 2:

- Found in 1 of 13 ( 7.7% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bae\_91 (B5),

Start 3:

- Found in 13 of 13 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 8 of 9

- Called 92.3% of time when present
- Phage (with cluster) where this start called: Acadian\_92 (B5), Donny\_92 (B5), EastView9101\_92 (B5), Mysterious\_93 (B5), Nehemiah\_91 (B5), Phelemich\_89 (B5), Reprobate\_91 (B5), Rich\_90 (B5), Rita130\_91 (B5), Serendipitous\_93 (B5), SirJeffery\_90 (B5), Suigeneris\_93 (B5),

### **Summary by clusters:**

There is one cluster represented in this pham: B5

Info for manual annotations of cluster B5:

- Start number 2 was manually annotated 1 time for cluster B5.
- Start number 3 was manually annotated 8 times for cluster B5.

### **Gene Information:**

Gene: Acadian\_92 Start: 67740, Stop: 67471, Start Num: 3

Candidate Starts for Acadian\_92:

(Start: 3 @67740 has 8 MA's), (6, 67665), (7, 67647), (8, 67527),

Gene: Baee\_91 Start: 68280, Stop: 67975, Start Num: 2

Candidate Starts for Baee\_91:

(1, 68283), (Start: 2 @68280 has 1 MA's), (Start: 3 @68244 has 8 MA's), (6, 68169), (7, 68151), (8, 68031),

Gene: Donny\_92 Start: 67567, Stop: 67298, Start Num: 3

Candidate Starts for Donny\_92:

(Start: 3 @67567 has 8 MA's), (6, 67492), (7, 67474), (8, 67354),

Gene: EastView9101\_92 Start: 67759, Stop: 67490, Start Num: 3

Candidate Starts for EastView9101\_92:

(Start: 3 @67759 has 8 MA's), (6, 67684), (7, 67666), (8, 67546),

Gene: Mysterious\_93 Start: 67652, Stop: 67392, Start Num: 3

Candidate Starts for Mysterious\_93:

(Start: 3 @67652 has 8 MA's), (5, 67589), (9, 67421),

Gene: Nehemiah\_91 Start: 67520, Stop: 67260, Start Num: 3

Candidate Starts for Nehemiah\_91:

(Start: 3 @67520 has 8 MA's), (5, 67457), (9, 67289),

Gene: Phelemich\_89 Start: 67558, Stop: 67298, Start Num: 3

Candidate Starts for Phelemich\_89:

(Start: 3 @67558 has 8 MA's), (4, 67543), (5, 67495), (9, 67327),

Gene: Reprobate\_91 Start: 67563, Stop: 67303, Start Num: 3

Candidate Starts for Reprobate\_91:

(Start: 3 @67563 has 8 MA's), (4, 67548), (5, 67500), (9, 67332),

Gene: Rich\_90 Start: 67797, Stop: 67528, Start Num: 3

Candidate Starts for Rich\_90:

(Start: 3 @67797 has 8 MA's), (6, 67722), (7, 67704), (8, 67584),

Gene: Rita130\_91 Start: 67713, Stop: 67444, Start Num: 3

Candidate Starts for Rita130\_91:

(Start: 3 @67713 has 8 MA's), (6, 67638), (7, 67620), (8, 67500),

Gene: Serendipitous\_93 Start: 67738, Stop: 67469, Start Num: 3

Candidate Starts for Serendipitous\_93:

(Start: 3 @67738 has 8 MA's), (6, 67663), (7, 67645), (8, 67525),

Gene: SirJeffery\_90 Start: 67796, Stop: 67527, Start Num: 3

Candidate Starts for SirJeffery\_90:

(Start: 3 @67796 has 8 MA's), (6, 67721), (7, 67703), (8, 67583),

Gene: Suigeneris\_93 Start: 67955, Stop: 67686, Start Num: 3

Candidate Starts for Suigeneris\_93:

(Start: 3 @67955 has 8 MA's), (6, 67880), (7, 67862), (8, 67742),