



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 9202 Report

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

Pham number 9202 has 7 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Sombrero\_97, Squibbles\_96, RemRem\_99
- Track 2 : Poland\_101
- Track 3 : Ekhein\_98
- Track 4 : Barbochs\_95, Flakey\_97

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

The start number called the most often in the published annotations is 4, it was called in 3 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Barbochs\_95, Flakey\_97, RemRem\_99, Sombrero\_97, Squibbles\_96,

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

- Ekhein\_98, Poland\_101,

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

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

Start 3:

- Found in 7 of 7 ( 100.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Poland\_101 (CS2),

Start 4:

- Found in 7 of 7 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 3 of 4
- Called 71.4% of time when present
- Phage (with cluster) where this start called: Barbochs\_95 (CS2), Flakey\_97 (CS2), RemRem\_99 (CS2), Sombrero\_97 (CS2), Squibbles\_96 (CS2),

Start 5:

- Found in 7 of 7 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 4
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Ekhein\_98 (CS2),

### **Summary by clusters:**

There is one cluster represented in this pham: CS2

Info for manual annotations of cluster CS2:

- Start number 4 was manually annotated 3 times for cluster CS2.
- Start number 5 was manually annotated 1 time for cluster CS2.

### **Gene Information:**

Gene: Barbochs\_95 Start: 69799, Stop: 69939, Start Num: 4

Candidate Starts for Barbochs\_95:

(1, 69679), (2, 69685), (3, 69778), (Start: 4 @69799 has 3 MA's), (Start: 5 @69829 has 1 MA's), (6, 69871), (7, 69895),

Gene: Ekhein\_98 Start: 70577, Stop: 70687, Start Num: 5

Candidate Starts for Ekhein\_98:

(2, 70433), (3, 70526), (Start: 4 @70547 has 3 MA's), (Start: 5 @70577 has 1 MA's), (6, 70619), (7, 70643),

Gene: Flakey\_97 Start: 71441, Stop: 71581, Start Num: 4

Candidate Starts for Flakey\_97:

(1, 71321), (2, 71327), (3, 71420), (Start: 4 @71441 has 3 MA's), (Start: 5 @71471 has 1 MA's), (6, 71513), (7, 71537),

Gene: Poland\_101 Start: 72253, Stop: 72414, Start Num: 3

Candidate Starts for Poland\_101:

(2, 72160), (3, 72253), (Start: 4 @72274 has 3 MA's), (Start: 5 @72304 has 1 MA's), (6, 72346), (7, 72370),

Gene: RemRem\_99 Start: 70521, Stop: 70661, Start Num: 4

Candidate Starts for RemRem\_99:

(2, 70407), (3, 70500), (Start: 4 @70521 has 3 MA's), (Start: 5 @70551 has 1 MA's), (6, 70593), (7, 70617),

Gene: Sombrero\_97 Start: 70576, Stop: 70716, Start Num: 4

Candidate Starts for Sombrero\_97:

(2, 70462), (3, 70555), (Start: 4 @70576 has 3 MA's), (Start: 5 @70606 has 1 MA's), (6, 70648), (7, 70672),

Gene: Squibbles\_96 Start: 71047, Stop: 71187, Start Num: 4

Candidate Starts for Squibbles\_96:

(2, 70933), (3, 71026), (Start: 4 @71047 has 3 MA's), (Start: 5 @71077 has 1 MA's), (6, 71119), (7, 71143),