

1	2	3	4	5

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 295264 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295264 has 12 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Annalisa\_1, MichaelScott\_1, Easley\_1, Clark\_1, Invectra\_1, Tuti\_2, Beenie\_1, Samman98\_1, Thimann\_1, Dolores\_1, WinkNick\_1, Sekhmet\_1

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

The start number called the most often in the published annotations is 1, it was called in 11 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Annalisa\_1, Beenie\_1, Clark\_1, Dolores\_1, Easley\_1, Invectra\_1, MichaelScott\_1, Samman98\_1, Sekhmet\_1, Thimann\_1, Tuti\_2, WinkNick\_1,

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 1:

- 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: Annalisa\_1 (CZ4), Beenie\_1 (CZ4), Clark\_1 (CZ4), Dolores\_1 (CZ4), Easley\_1 (CZ4), Invectra\_1 (CZ4), MichaelScott\_1 (CZ4), Samman98\_1 (CZ4), Sekhmet\_1 (CZ4), Thimann\_1 (CZ4), Tuti\_2 (CZ4), WinkNick\_1 (CZ4),

### **Summary by clusters:**

There is one cluster represented in this pham: CZ4

Info for manual annotations of cluster CZ4:

- Start number 1 was manually annotated 11 times for cluster CZ4.

**Gene Information:**

Gene: Annalisa\_1 Start: 47, Stop: 517, Start Num: 1

Candidate Starts for Annalisa\_1:

(Start: 1 @47 has 11 MA's), (2, 272), (3, 302), (4, 407), (5, 470),

Gene: Beenie\_1 Start: 47, Stop: 517, Start Num: 1

Candidate Starts for Beenie\_1:

(Start: 1 @47 has 11 MA's), (2, 272), (3, 302), (4, 407), (5, 470),

Gene: Clark\_1 Start: 47, Stop: 517, Start Num: 1

Candidate Starts for Clark\_1:

(Start: 1 @47 has 11 MA's), (2, 272), (3, 302), (4, 407), (5, 470),

Gene: Dolores\_1 Start: 47, Stop: 517, Start Num: 1

Candidate Starts for Dolores\_1:

(Start: 1 @47 has 11 MA's), (2, 272), (3, 302), (4, 407), (5, 470),

Gene: Easley\_1 Start: 47, Stop: 517, Start Num: 1

Candidate Starts for Easley\_1:

(Start: 1 @47 has 11 MA's), (2, 272), (3, 302), (4, 407), (5, 470),

Gene: Invecra\_1 Start: 47, Stop: 517, Start Num: 1

Candidate Starts for Invecra\_1:

(Start: 1 @47 has 11 MA's), (2, 272), (3, 302), (4, 407), (5, 470),

Gene: MichaelScott\_1 Start: 47, Stop: 517, Start Num: 1

Candidate Starts for MichaelScott\_1:

(Start: 1 @47 has 11 MA's), (2, 272), (3, 302), (4, 407), (5, 470),

Gene: Samman98\_1 Start: 47, Stop: 517, Start Num: 1

Candidate Starts for Samman98\_1:

(Start: 1 @47 has 11 MA's), (2, 272), (3, 302), (4, 407), (5, 470),

Gene: Sekhmet\_1 Start: 47, Stop: 517, Start Num: 1

Candidate Starts for Sekhmet\_1:

(Start: 1 @47 has 11 MA's), (2, 272), (3, 302), (4, 407), (5, 470),

Gene: Thimann\_1 Start: 47, Stop: 517, Start Num: 1

Candidate Starts for Thimann\_1:

(Start: 1 @47 has 11 MA's), (2, 272), (3, 302), (4, 407), (5, 470),

Gene: Tuti\_2 Start: 47, Stop: 517, Start Num: 1

Candidate Starts for Tuti\_2:

(Start: 1 @47 has 11 MA's), (2, 272), (3, 302), (4, 407), (5, 470),

Gene: WinkNick\_1 Start: 47, Stop: 517, Start Num: 1

Candidate Starts for WinkNick\_1:

(Start: 1 @47 has 11 MA's), (2, 272), (3, 302), (4, 407), (5, 470),

