



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 7299 Report

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

Pham number 7299 has 10 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Patelgo\_94, Moab\_94
- Track 2 : MeganTheeKilla\_93, Jada\_95, Forrest\_98, Gilson\_95, Emma1919\_96
- Track 3 : Francob\_94
- Track 4 : Kenrey\_96, Phredrick\_94

### ***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 10 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Emma1919\_96, Forrest\_98, Francob\_94, Gilson\_95, Jada\_95, Kenrey\_96, MeganTheeKilla\_93, Moab\_94, Patelgo\_94, Phredrick\_94,

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 4:

- Found in 10 of 10 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 10 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Emma1919\_96 (BK1), Forrest\_98 (BK1), Francob\_94 (BK1), Gilson\_95 (BK1), Jada\_95 (BK1), Kenrey\_96 (BK1), MeganTheeKilla\_93 (BK1), Moab\_94 (BK1), Patelgo\_94 (BK1), Phredrick\_94 (BK1),

### **Summary by clusters:**

There is one cluster represented in this pham: BK1

Info for manual annotations of cluster BK1:

- Start number 4 was manually annotated 10 times for cluster BK1.

**Gene Information:**

Gene: Emma1919\_96 Start: 65887, Stop: 66246, Start Num: 4

Candidate Starts for Emma1919\_96:

(Start: 4 @65887 has 10 MA's), (5, 66034), (6, 66082), (8, 66205),

Gene: Forrest\_98 Start: 67630, Stop: 67989, Start Num: 4

Candidate Starts for Forrest\_98:

(Start: 4 @67630 has 10 MA's), (5, 67777), (6, 67825), (8, 67948),

Gene: Francob\_94 Start: 66038, Stop: 66400, Start Num: 4

Candidate Starts for Francob\_94:

(1, 65972), (2, 65978), (3, 66035), (Start: 4 @66038 has 10 MA's), (6, 66233), (8, 66359),

Gene: Gilson\_95 Start: 65849, Stop: 66208, Start Num: 4

Candidate Starts for Gilson\_95:

(Start: 4 @65849 has 10 MA's), (5, 65996), (6, 66044), (8, 66167),

Gene: Jada\_95 Start: 66362, Stop: 66721, Start Num: 4

Candidate Starts for Jada\_95:

(Start: 4 @66362 has 10 MA's), (5, 66509), (6, 66557), (8, 66680),

Gene: Kenrey\_96 Start: 66082, Stop: 66441, Start Num: 4

Candidate Starts for Kenrey\_96:

(Start: 4 @66082 has 10 MA's), (5, 66229), (6, 66277), (7, 66373), (8, 66400),

Gene: MeganTheeKilla\_93 Start: 65210, Stop: 65569, Start Num: 4

Candidate Starts for MeganTheeKilla\_93:

(Start: 4 @65210 has 10 MA's), (5, 65357), (6, 65405), (8, 65528),

Gene: Moab\_94 Start: 67146, Stop: 67505, Start Num: 4

Candidate Starts for Moab\_94:

(Start: 4 @67146 has 10 MA's), (6, 67341), (8, 67464),

Gene: Patelgo\_94 Start: 67309, Stop: 67668, Start Num: 4

Candidate Starts for Patelgo\_94:

(Start: 4 @67309 has 10 MA's), (6, 67504), (8, 67627),

Gene: Phredrick\_94 Start: 65182, Stop: 65541, Start Num: 4

Candidate Starts for Phredrick\_94:

(Start: 4 @65182 has 10 MA's), (5, 65329), (6, 65377), (7, 65473), (8, 65500),