



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 106784 Report

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

Pham number 106784 has 11 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Bruns\_84, Forsytheast\_85, Moose\_85, JC27\_85, MaryBeth\_81, Euphoria\_83, Seanderson\_81, Corvo\_85, MetalQZJ\_80, SwissCheese\_86
- Track 2 : RidgeCB\_78

### ***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 11 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bruns\_84, Corvo\_85, Euphoria\_83, Forsytheast\_85, JC27\_85, MaryBeth\_81, MetalQZJ\_80, Moose\_85, RidgeCB\_78, Seanderson\_81, SwissCheese\_86,

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 11 of 11 ( 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: Bruns\_84 (A1), Corvo\_85 (A1), Euphoria\_83 (A1), Forsytheast\_85 (A1), JC27\_85 (A1), MaryBeth\_81 (A1), MetalQZJ\_80 (A1), Moose\_85 (A1), RidgeCB\_78 (A1), Seanderson\_81 (A1), SwissCheese\_86 (A1),

### **Summary by clusters:**

There is one cluster represented in this pham: A1

Info for manual annotations of cluster A1:

- Start number 4 was manually annotated 11 times for cluster A1.

**Gene Information:**

Gene: Bruns\_84 Start: 47967, Stop: 47821, Start Num: 4

Candidate Starts for Bruns\_84:

(Start: 4 @47967 has 11 MA's), (5, 47943), (6, 47910), (7, 47829),

Gene: Corvo\_85 Start: 49972, Stop: 49826, Start Num: 4

Candidate Starts for Corvo\_85:

(Start: 4 @49972 has 11 MA's), (5, 49948), (6, 49915), (7, 49834),

Gene: Euphoria\_83 Start: 48807, Stop: 48661, Start Num: 4

Candidate Starts for Euphoria\_83:

(Start: 4 @48807 has 11 MA's), (5, 48783), (6, 48750), (7, 48669),

Gene: Forsytheast\_85 Start: 49006, Stop: 48860, Start Num: 4

Candidate Starts for Forsytheast\_85:

(Start: 4 @49006 has 11 MA's), (5, 48982), (6, 48949), (7, 48868),

Gene: JC27\_85 Start: 48586, Stop: 48440, Start Num: 4

Candidate Starts for JC27\_85:

(Start: 4 @48586 has 11 MA's), (5, 48562), (6, 48529), (7, 48448),

Gene: MaryBeth\_81 Start: 48447, Stop: 48301, Start Num: 4

Candidate Starts for MaryBeth\_81:

(Start: 4 @48447 has 11 MA's), (5, 48423), (6, 48390), (7, 48309),

Gene: MetalQZJ\_80 Start: 48447, Stop: 48301, Start Num: 4

Candidate Starts for MetalQZJ\_80:

(Start: 4 @48447 has 11 MA's), (5, 48423), (6, 48390), (7, 48309),

Gene: Moose\_85 Start: 49006, Stop: 48860, Start Num: 4

Candidate Starts for Moose\_85:

(Start: 4 @49006 has 11 MA's), (5, 48982), (6, 48949), (7, 48868),

Gene: RidgeCB\_78 Start: 46690, Stop: 46544, Start Num: 4

Candidate Starts for RidgeCB\_78:

(1, 46765), (2, 46732), (3, 46714), (Start: 4 @46690 has 11 MA's), (5, 46666), (6, 46633), (7, 46552),

Gene: Seanderson\_81 Start: 49650, Stop: 49504, Start Num: 4

Candidate Starts for Seanderson\_81:

(Start: 4 @49650 has 11 MA's), (5, 49626), (6, 49593), (7, 49512),

Gene: SwissCheese\_86 Start: 48450, Stop: 48304, Start Num: 4

Candidate Starts for SwissCheese\_86:

(Start: 4 @48450 has 11 MA's), (5, 48426), (6, 48393), (7, 48312),