



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 106685 Report

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

Pham number 106685 has 14 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Tribby\_66, Correa\_61
- Track 2 : GoCrazy\_61, Heisenberger\_61, Mudcat\_59, Circum\_64, JEGGS\_61
- Track 3 : NapoleonB\_64, Dynamite\_64
- Track 4 : Elsa\_63, Arcadia\_63, Nason\_63, Xenomorph\_60
- Track 5 : Cheesy\_63

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

The start number called the most often in the published annotations is 5, it was called in 12 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arcadia\_63, Cheesy\_63, Circum\_64, Correa\_61, Elsa\_63, GoCrazy\_61, Heisenberger\_61, JEGGS\_61, Mudcat\_59, Nason\_63, Tribby\_66, Xenomorph\_60,

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

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

- Dynamite\_64, NapoleonB\_64,

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

Start 4:

- Found in 2 of 14 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 2 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dynamite\_64 (AM), NapoleonB\_64 (AM),

Start 5:

- Found in 12 of 14 ( 85.7% ) of genes in pham
- Manual Annotations of this start: 12 of 14
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Arcadia\_63 (AM), Cheesy\_63 (AM), Circum\_64 (AM), Correa\_61 (AM), Elsa\_63 (AM), GoCrazy\_61 (AM), Heisenberger\_61 (AM), JEGGS\_61 (AM), Mudcat\_59 (AM), Nason\_63 (AM), Tribby\_66 (AM), Xenomorph\_60 (AM),

### **Summary by clusters:**

There is one cluster represented in this pham: AM

Info for manual annotations of cluster AM:

- Start number 4 was manually annotated 2 times for cluster AM.
- Start number 5 was manually annotated 12 times for cluster AM.

### **Gene Information:**

Gene: Arcadia\_63 Start: 41497, Stop: 41631, Start Num: 5

Candidate Starts for Arcadia\_63:

(1, 41479), (Start: 5 @41497 has 12 MA's), (6, 41593), (8, 41614),

Gene: Cheesy\_63 Start: 41203, Stop: 41355, Start Num: 5

Candidate Starts for Cheesy\_63:

(1, 41185), (Start: 5 @41203 has 12 MA's),

Gene: Circum\_64 Start: 41697, Stop: 41831, Start Num: 5

Candidate Starts for Circum\_64:

(Start: 5 @41697 has 12 MA's), (6, 41793), (7, 41811),

Gene: Correa\_61 Start: 40701, Stop: 40835, Start Num: 5

Candidate Starts for Correa\_61:

(2, 40698), (Start: 5 @40701 has 12 MA's), (7, 40815), (8, 40818),

Gene: Dynamite\_64 Start: 41757, Stop: 41909, Start Num: 4

Candidate Starts for Dynamite\_64:

(3, 41754), (Start: 4 @41757 has 2 MA's),

Gene: Elsa\_63 Start: 41497, Stop: 41631, Start Num: 5

Candidate Starts for Elsa\_63:

(1, 41479), (Start: 5 @41497 has 12 MA's), (6, 41593), (8, 41614),

Gene: GoCrazy\_61 Start: 41162, Stop: 41296, Start Num: 5

Candidate Starts for GoCrazy\_61:

(Start: 5 @41162 has 12 MA's), (6, 41258), (7, 41276),

Gene: Heisenberger\_61 Start: 40706, Stop: 40840, Start Num: 5

Candidate Starts for Heisenberger\_61:

(Start: 5 @40706 has 12 MA's), (6, 40802), (7, 40820),

Gene: JEGGS\_61 Start: 40785, Stop: 40919, Start Num: 5

Candidate Starts for JEGGS\_61:

(Start: 5 @40785 has 12 MA's), (6, 40881), (7, 40899),

Gene: Mudcat\_59 Start: 42143, Stop: 42277, Start Num: 5

Candidate Starts for Mudcat\_59:

(Start: 5 @42143 has 12 MA's), (6, 42239), (7, 42257),

Gene: NapoleonB\_64 Start: 41757, Stop: 41909, Start Num: 4

Candidate Starts for NapoleonB\_64:

(3, 41754), (Start: 4 @41757 has 2 MA's),

Gene: Nason\_63 Start: 41497, Stop: 41631, Start Num: 5

Candidate Starts for Nason\_63:

(1, 41479), (Start: 5 @41497 has 12 MA's), (6, 41593), (8, 41614),

Gene: Tribby\_66 Start: 42087, Stop: 42221, Start Num: 5

Candidate Starts for Tribby\_66:

(2, 42084), (Start: 5 @42087 has 12 MA's), (7, 42201), (8, 42204),

Gene: Xenomorph\_60 Start: 41168, Stop: 41302, Start Num: 5

Candidate Starts for Xenomorph\_60:

(1, 41150), (Start: 5 @41168 has 12 MA's), (6, 41264), (8, 41285),