



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 87048 Report

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

Pham number 87048 has 15 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Camster\_44, Brujita\_45, Phegasus\_44, Juniormint\_44, Island3\_45, Shipwreck\_46, Majeke\_44, Bunnies\_44, Arib1\_44, Polkaro\_44, Pygmy\_46, Malithi\_44, Bogie\_46, Mangethe\_44, HUHilltop\_44

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

The start number called the most often in the published annotations is 2, it was called in 13 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arib1\_44, Bogie\_46, Brujita\_45, Bunnies\_44, Camster\_44, HUHilltop\_44, Island3\_45, Juniormint\_44, Majeke\_44, Malithi\_44, Mangethe\_44, Phegasus\_44, Polkaro\_44, Pygmy\_46, Shipwreck\_46,

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 2:

- Found in 15 of 15 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 13 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arib1\_44 (P1), Bogie\_46 (P1), Brujita\_45 (I1), Bunnies\_44 (P1), Camster\_44 (P1), HUHilltop\_44 (P1), Island3\_45 (I1), Juniormint\_44 (P1), Majeke\_44 (P1), Malithi\_44 (P1), Mangethe\_44 (P1), Phegasus\_44 (P1), Polkaro\_44 (P1), Pygmy\_46 (P1), Shipwreck\_46 (P1),

### **Summary by clusters:**

There are 2 clusters represented in this pham: I1, P1,

Info for manual annotations of cluster I1:

- Start number 2 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster P1:

- Start number 2 was manually annotated 11 times for cluster P1.

### ***Gene Information:***

Gene: Arib1\_44 Start: 31355, Stop: 31477, Start Num: 2

Candidate Starts for Arib1\_44:

(1, 31286), (Start: 2 @31355 has 13 MA's), (3, 31391), (4, 31415),

Gene: Bogie\_46 Start: 33116, Stop: 33238, Start Num: 2

Candidate Starts for Bogie\_46:

(1, 33047), (Start: 2 @33116 has 13 MA's), (3, 33152), (4, 33176),

Gene: Brujita\_45 Start: 33015, Stop: 33137, Start Num: 2

Candidate Starts for Brujita\_45:

(1, 32946), (Start: 2 @33015 has 13 MA's), (3, 33051), (4, 33075),

Gene: Bunnies\_44 Start: 31356, Stop: 31478, Start Num: 2

Candidate Starts for Bunnies\_44:

(1, 31287), (Start: 2 @31356 has 13 MA's), (3, 31392), (4, 31416),

Gene: Camster\_44 Start: 31363, Stop: 31485, Start Num: 2

Candidate Starts for Camster\_44:

(1, 31294), (Start: 2 @31363 has 13 MA's), (3, 31399), (4, 31423),

Gene: HUHilltop\_44 Start: 31373, Stop: 31495, Start Num: 2

Candidate Starts for HUHilltop\_44:

(1, 31304), (Start: 2 @31373 has 13 MA's), (3, 31409), (4, 31433),

Gene: Island3\_45 Start: 33015, Stop: 33137, Start Num: 2

Candidate Starts for Island3\_45:

(1, 32946), (Start: 2 @33015 has 13 MA's), (3, 33051), (4, 33075),

Gene: Juniormint\_44 Start: 31378, Stop: 31500, Start Num: 2

Candidate Starts for Juniormint\_44:

(1, 31309), (Start: 2 @31378 has 13 MA's), (3, 31414), (4, 31438),

Gene: Majeke\_44 Start: 31390, Stop: 31512, Start Num: 2

Candidate Starts for Majeke\_44:

(1, 31321), (Start: 2 @31390 has 13 MA's), (3, 31426), (4, 31450),

Gene: Malithi\_44 Start: 31265, Stop: 31387, Start Num: 2

Candidate Starts for Malithi\_44:

(1, 31196), (Start: 2 @31265 has 13 MA's), (3, 31301), (4, 31325),

Gene: Mangethe\_44 Start: 31390, Stop: 31512, Start Num: 2

Candidate Starts for Mangethe\_44:

(1, 31321), (Start: 2 @31390 has 13 MA's), (3, 31426), (4, 31450),

Gene: Phegasus\_44 Start: 31357, Stop: 31479, Start Num: 2

Candidate Starts for Phegasus\_44:

(1, 31288), (Start: 2 @31357 has 13 MA's), (3, 31393), (4, 31417),

Gene: Polkaroo\_44 Start: 31353, Stop: 31475, Start Num: 2

Candidate Starts for Polkaroo\_44:

(1, 31284), (Start: 2 @31353 has 13 MA's), (3, 31389), (4, 31413),

Gene: Pygmy\_46 Start: 33172, Stop: 33294, Start Num: 2

Candidate Starts for Pygmy\_46:

(1, 33103), (Start: 2 @33172 has 13 MA's), (3, 33208), (4, 33232),

Gene: Shipwreck\_46 Start: 33147, Stop: 33269, Start Num: 2

Candidate Starts for Shipwreck\_46:

(1, 33078), (Start: 2 @33147 has 13 MA's), (3, 33183), (4, 33207),