



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 193008 Report

This analysis was run 11/02/24 on database version 579.

Pham number 193008 has 13 members, 1 are drafts.

Phages represented in each track:

- Track 1 : FirstPlacePfu\_56, Mangethe\_60, Majeke\_60, Donovan\_54, Zilizebeth\_60, Venti\_55, Arib1\_56, Fishburne\_54, Bartholomew\_54, Phegasus\_60, Langerak\_55, Kari\_54
- Track 2 : Techage\_55

### ***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 12 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arib1\_56, Bartholomew\_54, Donovan\_54, FirstPlacePfu\_56, Fishburne\_54, Kari\_54, Langerak\_55, Majeke\_60, Mangethe\_60, Phegasus\_60, Techage\_55, Venti\_55, Zilizebeth\_60,

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 13 of 13 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 12 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arib1\_56 (P1), Bartholomew\_54 (P1), Donovan\_54 (P1), FirstPlacePfu\_56 (P1), Fishburne\_54 (P1), Kari\_54 (P1), Langerak\_55 (P1), Majeke\_60 (P1), Mangethe\_60 (P1), Phegasus\_60 (P1), Techage\_55 (P1), Venti\_55 (P1), Zilizebeth\_60 (P1),

### **Summary by clusters:**

There is one cluster represented in this pham: P1

Info for manual annotations of cluster P1:

•Start number 1 was manually annotated 12 times for cluster P1.

**Gene Information:**

Gene: Arib1\_56 Start: 36638, Stop: 36877, Start Num: 1

Candidate Starts for Arib1\_56:

(Start: 1 @36638 has 12 MA's), (2, 36839), (3, 36866),

Gene: Bartholomew\_54 Start: 36580, Stop: 36819, Start Num: 1

Candidate Starts for Bartholomew\_54:

(Start: 1 @36580 has 12 MA's), (2, 36781), (3, 36808),

Gene: Donovan\_54 Start: 36798, Stop: 37037, Start Num: 1

Candidate Starts for Donovan\_54:

(Start: 1 @36798 has 12 MA's), (2, 36999), (3, 37026),

Gene: FirstPlacePfu\_56 Start: 36612, Stop: 36851, Start Num: 1

Candidate Starts for FirstPlacePfu\_56:

(Start: 1 @36612 has 12 MA's), (2, 36813), (3, 36840),

Gene: Fishburne\_54 Start: 36580, Stop: 36819, Start Num: 1

Candidate Starts for Fishburne\_54:

(Start: 1 @36580 has 12 MA's), (2, 36781), (3, 36808),

Gene: Kari\_54 Start: 36577, Stop: 36816, Start Num: 1

Candidate Starts for Kari\_54:

(Start: 1 @36577 has 12 MA's), (2, 36778), (3, 36805),

Gene: Langerak\_55 Start: 36596, Stop: 36835, Start Num: 1

Candidate Starts for Langerak\_55:

(Start: 1 @36596 has 12 MA's), (2, 36797), (3, 36824),

Gene: Majeke\_60 Start: 38155, Stop: 38394, Start Num: 1

Candidate Starts for Majeke\_60:

(Start: 1 @38155 has 12 MA's), (2, 38356), (3, 38383),

Gene: Mangethe\_60 Start: 38155, Stop: 38394, Start Num: 1

Candidate Starts for Mangethe\_60:

(Start: 1 @38155 has 12 MA's), (2, 38356), (3, 38383),

Gene: Phegasus\_60 Start: 38122, Stop: 38361, Start Num: 1

Candidate Starts for Phegasus\_60:

(Start: 1 @38122 has 12 MA's), (2, 38323), (3, 38350),

Gene: Techage\_55 Start: 36691, Stop: 36930, Start Num: 1

Candidate Starts for Techage\_55:

(Start: 1 @36691 has 12 MA's), (2, 36892), (3, 36919),

Gene: Venti\_55 Start: 36580, Stop: 36819, Start Num: 1  
Candidate Starts for Venti\_55:  
(Start: 1 @36580 has 12 MA's), (2, 36781), (3, 36808),

Gene: Zilizebeth\_60 Start: 38146, Stop: 38385, Start Num: 1  
Candidate Starts for Zilizebeth\_60:  
(Start: 1 @38146 has 12 MA's), (2, 38347), (3, 38374),