



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 87827 Report

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

Pham number 87827 has 8 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Acquire49\_35, UPIE\_35, Wyatt2\_35, Wamburgrexpress\_35, CicholasNage\_35, Zaria\_35
- Track 2 : Calm\_35
- Track 3 : LeBron\_35

### ***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 6 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acquire49\_35, CicholasNage\_35, UPIE\_35, Wamburgrexpress\_35, Wyatt2\_35, Zaria\_35,

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

- Calm\_35, LeBron\_35,

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

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

Start 1:

- Found in 1 of 8 ( 12.5% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LeBron\_35 (L1),

Start 2:

- Found in 8 of 8 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 6 of 8
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Acquire49\_35 (L1), CicholasNage\_35 (L1), UPIE\_35 (L1), Wamburgrexpress\_35 (L1), Wyatt2\_35 (L1), Zaria\_35 (L1),

Start 3:

- Found in 8 of 8 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Calm\_35 (L1),

### **Summary by clusters:**

There is one cluster represented in this pham: L1

Info for manual annotations of cluster L1:

- Start number 1 was manually annotated 1 time for cluster L1.
- Start number 2 was manually annotated 6 times for cluster L1.
- Start number 3 was manually annotated 1 time for cluster L1.

### **Gene Information:**

Gene: Acquire49\_35 Start: 30082, Stop: 29843, Start Num: 2

Candidate Starts for Acquire49\_35:

(Start: 2 @30082 has 6 MA's), (Start: 3 @30070 has 1 MA's), (4, 30049), (5, 30010), (6, 29977), (7, 29971),

Gene: Calm\_35 Start: 30085, Stop: 29858, Start Num: 3

Candidate Starts for Calm\_35:

(Start: 2 @30097 has 6 MA's), (Start: 3 @30085 has 1 MA's), (4, 30064), (5, 30025), (6, 29992), (7, 29986),

Gene: CicholasNage\_35 Start: 30084, Stop: 29845, Start Num: 2

Candidate Starts for CicholasNage\_35:

(Start: 2 @30084 has 6 MA's), (Start: 3 @30072 has 1 MA's), (4, 30051), (5, 30012), (6, 29979), (7, 29973),

Gene: LeBron\_35 Start: 30139, Stop: 29870, Start Num: 1

Candidate Starts for LeBron\_35:

(Start: 1 @30139 has 1 MA's), (Start: 2 @30109 has 6 MA's), (Start: 3 @30097 has 1 MA's), (4, 30076), (5, 30037), (6, 30004), (7, 29998),

Gene: UPIE\_35 Start: 30081, Stop: 29842, Start Num: 2

Candidate Starts for UPIE\_35:

(Start: 2 @30081 has 6 MA's), (Start: 3 @30069 has 1 MA's), (4, 30048), (5, 30009), (6, 29976), (7, 29970),

Gene: Wamburgexpress\_35 Start: 30096, Stop: 29857, Start Num: 2

Candidate Starts for Wamburgexpress\_35:

(Start: 2 @30096 has 6 MA's), (Start: 3 @30084 has 1 MA's), (4, 30063), (5, 30024), (6, 29991), (7, 29985),

Gene: Wyatt2\_35 Start: 30082, Stop: 29843, Start Num: 2

Candidate Starts for Wyatt2\_35:

(Start: 2 @30082 has 6 MA's), (Start: 3 @30070 has 1 MA's), (4, 30049), (5, 30010), (6, 29977), (7, 29971),

Gene: Zaria\_35 Start: 30097, Stop: 29858, Start Num: 2

Candidate Starts for Zaria\_35:

(Start: 2 @30097 has 6 MA's), (Start: 3 @30085 has 1 MA's), (4, 30064), (5, 30025), (6, 29992), (7, 29986),