



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 171765 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171765 has 21 members, 1 are drafts.

Phages represented in each track:

- Track 1 : AvadaKedavra\_63, Wamburgxpress\_63, CicholasNage\_62, JoeDirt\_62, Acquire49\_63, Silverleaf\_63, Rose5\_63, Tyson\_63, Enceladus\_61, Wyatt2\_64
- Track 2 : Halena\_61, Zaria\_64, UPIE\_63, Appletree2\_63, OhShagHennessy\_61, DirkDirk\_60, MAckerman\_61, Calm\_64, LeBron\_62
- Track 3 : Aegeus\_67, Baudelaire\_67

### ***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 18 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acquire49\_63, Appletree2\_63, AvadaKedavra\_63, Calm\_64, CicholasNage\_62, DirkDirk\_60, Enceladus\_61, Halena\_61, JoeDirt\_62, LeBron\_62, MAckerman\_61, OhShagHennessy\_61, Rose5\_63, Silverleaf\_63, Tyson\_63, UPIE\_63, Wamburgxpress\_63, Wyatt2\_64, Zaria\_64,

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:

- Aegeus\_67, Baudelaire\_67,

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

Start 1:

- Found in 2 of 21 ( 9.5% ) of genes in pham
- Manual Annotations of this start: 2 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aegeus\_67 (L5), Baudelaire\_67 (L5),

Start 2:

- Found in 19 of 21 ( 90.5% ) of genes in pham
- Manual Annotations of this start: 18 of 20

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acquire49\_63 (L1), Appletree2\_63 (L1), AvadaKedavra\_63 (L1), Calm\_64 (L1), CicholasNage\_62 (L1), DirkDirk\_60 (L1), Enceladus\_61 (L1), Halena\_61 (L1), JoeDirt\_62 (L1), LeBron\_62 (L1), MAckerman\_61 (L1), OhShagHennessy\_61 (L1), Rose5\_63 (L1), Silverleaf\_63 (L1), Tyson\_63 (L1), UPIE\_63 (L1), Wamburgxpress\_63 (L1), Wyatt2\_64 (L1), Zaria\_64 (L1),

### **Summary by clusters:**

There are 2 clusters represented in this pham: L5, L1,

Info for manual annotations of cluster L1:

- Start number 2 was manually annotated 18 times for cluster L1.

Info for manual annotations of cluster L5:

- Start number 1 was manually annotated 2 times for cluster L5.

### **Gene Information:**

Gene: Acquire49\_63 Start: 44070, Stop: 44261, Start Num: 2

Candidate Starts for Acquire49\_63:

(Start: 2 @44070 has 18 MA's), (6, 44127), (7, 44136), (8, 44148),

Gene: Aegeus\_67 Start: 45507, Stop: 45674, Start Num: 1

Candidate Starts for Aegeus\_67:

(Start: 1 @45507 has 2 MA's), (4, 45531), (5, 45534), (8, 45600), (9, 45603), (10, 45660), (11, 45666),

Gene: Appletree2\_63 Start: 43894, Stop: 44085, Start Num: 2

Candidate Starts for Appletree2\_63:

(Start: 2 @43894 has 18 MA's), (3, 43903), (6, 43951), (7, 43960), (8, 43972),

Gene: AvadaKedavra\_63 Start: 44143, Stop: 44334, Start Num: 2

Candidate Starts for AvadaKedavra\_63:

(Start: 2 @44143 has 18 MA's), (6, 44200), (7, 44209), (8, 44221),

Gene: Baudelaire\_67 Start: 45507, Stop: 45674, Start Num: 1

Candidate Starts for Baudelaire\_67:

(Start: 1 @45507 has 2 MA's), (4, 45531), (5, 45534), (8, 45600), (9, 45603), (10, 45660), (11, 45666),

Gene: Calm\_64 Start: 44070, Stop: 44261, Start Num: 2

Candidate Starts for Calm\_64:

(Start: 2 @44070 has 18 MA's), (3, 44079), (6, 44127), (7, 44136), (8, 44148),

Gene: CicholasNage\_62 Start: 44106, Stop: 44297, Start Num: 2

Candidate Starts for CicholasNage\_62:

(Start: 2 @44106 has 18 MA's), (6, 44163), (7, 44172), (8, 44184),

Gene: DirkDirk\_60 Start: 43480, Stop: 43671, Start Num: 2

Candidate Starts for DirkDirk\_60:

(Start: 2 @43480 has 18 MA's), (3, 43489), (6, 43537), (7, 43546), (8, 43558),

Gene: Enceladus\_61 Start: 43952, Stop: 44143, Start Num: 2  
Candidate Starts for Enceladus\_61:  
(Start: 2 @43952 has 18 MA's), (6, 44009), (7, 44018), (8, 44030),

Gene: Halena\_61 Start: 43517, Stop: 43708, Start Num: 2  
Candidate Starts for Halena\_61:  
(Start: 2 @43517 has 18 MA's), (3, 43526), (6, 43574), (7, 43583), (8, 43595),

Gene: JoeDirt\_62 Start: 44385, Stop: 44576, Start Num: 2  
Candidate Starts for JoeDirt\_62:  
(Start: 2 @44385 has 18 MA's), (6, 44442), (7, 44451), (8, 44463),

Gene: LeBron\_62 Start: 43521, Stop: 43712, Start Num: 2  
Candidate Starts for LeBron\_62:  
(Start: 2 @43521 has 18 MA's), (3, 43530), (6, 43578), (7, 43587), (8, 43599),

Gene: MAckerman\_61 Start: 43510, Stop: 43701, Start Num: 2  
Candidate Starts for MAckerman\_61:  
(Start: 2 @43510 has 18 MA's), (3, 43519), (6, 43567), (7, 43576), (8, 43588),

Gene: OhShagHennessy\_61 Start: 42961, Stop: 43152, Start Num: 2  
Candidate Starts for OhShagHennessy\_61:  
(Start: 2 @42961 has 18 MA's), (3, 42970), (6, 43018), (7, 43027), (8, 43039),

Gene: Rose5\_63 Start: 44405, Stop: 44596, Start Num: 2  
Candidate Starts for Rose5\_63:  
(Start: 2 @44405 has 18 MA's), (6, 44462), (7, 44471), (8, 44483),

Gene: Silverleaf\_63 Start: 44140, Stop: 44331, Start Num: 2  
Candidate Starts for Silverleaf\_63:  
(Start: 2 @44140 has 18 MA's), (6, 44197), (7, 44206), (8, 44218),

Gene: Tyson\_63 Start: 44407, Stop: 44598, Start Num: 2  
Candidate Starts for Tyson\_63:  
(Start: 2 @44407 has 18 MA's), (6, 44464), (7, 44473), (8, 44485),

Gene: UPIE\_63 Start: 43931, Stop: 44122, Start Num: 2  
Candidate Starts for UPIE\_63:  
(Start: 2 @43931 has 18 MA's), (3, 43940), (6, 43988), (7, 43997), (8, 44009),

Gene: Wamburgexpress\_63 Start: 43961, Stop: 44152, Start Num: 2  
Candidate Starts for Wamburgexpress\_63:  
(Start: 2 @43961 has 18 MA's), (6, 44018), (7, 44027), (8, 44039),

Gene: Wyatt2\_64 Start: 44405, Stop: 44596, Start Num: 2  
Candidate Starts for Wyatt2\_64:  
(Start: 2 @44405 has 18 MA's), (6, 44462), (7, 44471), (8, 44483),

Gene: Zaria\_64 Start: 44070, Stop: 44261, Start Num: 2  
Candidate Starts for Zaria\_64:  
(Start: 2 @44070 has 18 MA's), (3, 44079), (6, 44127), (7, 44136), (8, 44148),