# Pham 86981



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 86981 Report

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

Pham number 86981 has 15 members, 1 are drafts.

Phages represented in each track:

- Track 1 : AvadaKedavra\_133, Wamburgrxpress\_137, Wyatt2\_132, Tyson\_135
- Track 2 : CicholasNage\_123
- Track 3 : Appletree2\_133, LeBron\_132, Halena\_132, OhShagHennessy\_125
- Track 4 : Zaria\_137, Calm\_139, Acquire49\_132
- Track 5 : JoeDirt\_135
- Track 6 : Rose5\_133
- Track 7 : MAckerman\_130

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

The start number called the most often in the published annotations is 3, it was called in 12 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start: • Acquire49\_132, Appletree2\_133, AvadaKedavra\_133, Calm\_139, Halena\_132, JoeDirt\_135, LeBron\_132, OhShagHennessy\_125, Tyson\_135, Wamburgrxpress\_137, Wyatt2\_132, Zaria\_137,

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

CicholasNage\_123, MAckerman\_130, Rose5\_133,

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

#### Summary by start number:

Start 3:

- Found in 15 of 15 (100.0%) of genes in pham
- Manual Annotations of this start: 12 of 14
- Called 80.0% of time when present

• Phage (with cluster) where this start called: Acquire49\_132 (L1), Appletree2\_133 (L1), AvadaKedavra\_133 (L1), Calm\_139 (L1), Halena\_132 (L1), JoeDirt\_135 (L1), LeBron\_132 (L1), OhShagHennessy\_125 (L1), Tyson\_135 (L1), Wamburgrxpress\_137 (L1), Wyatt2\_132 (L1), Zaria\_137 (L1),

#### Start 6:

- Found in 15 of 15 (100.0%) of genes in pham
- Manual Annotations of this start: 2 of 14
- Called 20.0% of time when present
- Phage (with cluster) where this start called: CicholasNage\_123 (L1),
- MAckerman\_130 (L1), Rose5\_133 (L1),

#### Summary by clusters:

There is one cluster represented in this pham: L1

Info for manual annotations of cluster L1:
Start number 3 was manually annotated 12 times for cluster L1.
Start number 6 was manually annotated 2 times for cluster L1.

#### Gene Information:

Gene: Acquire49\_132 Start: 73434, Stop: 73228, Start Num: 3 Candidate Starts for Acquire49\_132: (1, 73455), (2, 73449), (Start: 3 @73434 has 12 MA's), (5, 73422), (Start: 6 @73401 has 2 MA's), (7, 73365),

Gene: Appletree2\_133 Start: 73603, Stop: 73397, Start Num: 3 Candidate Starts for Appletree2\_133: (Start: 3 @73603 has 12 MA's), (4, 73597), (5, 73591), (Start: 6 @73570 has 2 MA's), (7, 73534),

Gene: AvadaKedavra\_133 Start: 73516, Stop: 73310, Start Num: 3 Candidate Starts for AvadaKedavra\_133: (1, 73537), (2, 73531), (Start: 3 @73516 has 12 MA's), (5, 73504), (Start: 6 @73483 has 2 MA's), (7, 73447), (9, 73327),

Gene: Calm\_139 Start: 74695, Stop: 74489, Start Num: 3 Candidate Starts for Calm\_139: (1, 74716), (2, 74710), (Start: 3 @74695 has 12 MA's), (5, 74683), (Start: 6 @74662 has 2 MA's), (7, 74626),

Gene: CicholasNage\_123 Start: 70821, Stop: 70648, Start Num: 6 Candidate Starts for CicholasNage\_123: (1, 70875), (2, 70869), (Start: 3 @70854 has 12 MA's), (5, 70842), (Start: 6 @70821 has 2 MA's), (7, 70785),

Gene: Halena\_132 Start: 73666, Stop: 73460, Start Num: 3 Candidate Starts for Halena\_132: (Start: 3 @73666 has 12 MA's), (4, 73660), (5, 73654), (Start: 6 @73633 has 2 MA's), (7, 73597),

Gene: JoeDirt\_135 Start: 74709, Stop: 74479, Start Num: 3 Candidate Starts for JoeDirt\_135: (1, 74730), (2, 74724), (Start: 3 @74709 has 12 MA's), (5, 74697), (Start: 6 @74676 has 2 MA's), (7, 74640), (8, 74628), Gene: LeBron\_132 Start: 73248, Stop: 73042, Start Num: 3 Candidate Starts for LeBron\_132: (Start: 3 @73248 has 12 MA's), (4, 73242), (5, 73236), (Start: 6 @73215 has 2 MA's), (7, 73179),

Gene: MAckerman\_130 Start: 73636, Stop: 73463, Start Num: 6 Candidate Starts for MAckerman\_130: (Start: 3 @73669 has 12 MA's), (4, 73663), (5, 73657), (Start: 6 @73636 has 2 MA's), (7, 73600),

Gene: OhShagHennessy\_125 Start: 72418, Stop: 72212, Start Num: 3 Candidate Starts for OhShagHennessy\_125: (Start: 3 @72418 has 12 MA's), (4, 72412), (5, 72406), (Start: 6 @72385 has 2 MA's), (7, 72349),

Gene: Rose5\_133 Start: 73711, Stop: 73538, Start Num: 6 Candidate Starts for Rose5\_133: (1, 73765), (2, 73759), (Start: 3 @73744 has 12 MA's), (5, 73732), (Start: 6 @73711 has 2 MA's), (7, 73675), (9, 73555),

Gene: Tyson\_135 Start: 74224, Stop: 74018, Start Num: 3 Candidate Starts for Tyson\_135: (1, 74245), (2, 74239), (Start: 3 @74224 has 12 MA's), (5, 74212), (Start: 6 @74191 has 2 MA's), (7, 74155), (9, 74035),

Gene: Wamburgrxpress\_137 Start: 74187, Stop: 73981, Start Num: 3 Candidate Starts for Wamburgrxpress\_137: (1, 74208), (2, 74202), (Start: 3 @74187 has 12 MA's), (5, 74175), (Start: 6 @74154 has 2 MA's), (7, 74118), (9, 73998),

Gene: Wyatt2\_132 Start: 73805, Stop: 73599, Start Num: 3 Candidate Starts for Wyatt2\_132: (1, 73826), (2, 73820), (Start: 3 @73805 has 12 MA's), (5, 73793), (Start: 6 @73772 has 2 MA's), (7, 73736), (9, 73616),

Gene: Zaria\_137 Start: 74160, Stop: 73954, Start Num: 3 Candidate Starts for Zaria\_137: (1, 74181), (2, 74175), (Start: 3 @74160 has 12 MA's), (5, 74148), (Start: 6 @74127 has 2 MA's), (7, 74091),