Pham 6075



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 6075 Report

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

Pham number 6075 has 10 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Cicada\_62
- Track 2 : Johann\_61, Goodman\_61
- Track 3 : TurboVicky\_60
- Track 4 : Htur\_60
- Track 5 : Typher\_59
- Track 6 : Zanella\_58
- Track 7 : SBlackberry\_57
- Track 8 : PermaG\_61
- Track 9 : Rasovi\_63

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

The start number called the most often in the published annotations is 4, it was called in 6 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start: • Cicada\_62, Rasovi\_63, SBlackberry\_57, TurboVicky\_60, Typher\_59, Zanella\_58,

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

• Goodman\_61, Htur\_60, Johann\_61, PermaG\_61,

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

## Summary by start number:

Start 4:

- Found in 10 of 10 (100.0%) of genes in pham
- Manual Annotations of this start: 6 of 9
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Cicada\_62 (EJ), Rasovi\_63 (EJ),
- SBlackberry\_57 (EJ), TurboVicky\_60 (EJ), Typher\_59 (EJ), Zanella\_58 (EJ),

Start 5:

- Found in 9 of 10 (90.0%) of genes in pham
- Manual Annotations of this start: 3 of 9
- Called 44.4% of time when present

• Phage (with cluster) where this start called: Goodman\_61 (EJ), Htur\_60 (EJ), Johann 61 (EJ), PermaG 61 (EJ),

#### Summary by clusters:

There is one cluster represented in this pham: EJ

Info for manual annotations of cluster EJ:Start number 4 was manually annotated 6 times for cluster EJ.Start number 5 was manually annotated 3 times for cluster EJ.

#### Gene Information:

Gene: Cicada\_62 Start: 41406, Stop: 41642, Start Num: 4 Candidate Starts for Cicada\_62: (1, 41298), (2, 41358), (3, 41391), (Start: 4 @41406 has 6 MA's), (Start: 5 @41436 has 3 MA's), (8, 41523), (10, 41550), (12, 41583), (14, 41601), (16, 41610),

Gene: Goodman\_61 Start: 41449, Stop: 41655, Start Num: 5 Candidate Starts for Goodman\_61: (1, 41311), (Start: 4 @41419 has 6 MA's), (Start: 5 @41449 has 3 MA's), (6, 41524), (14, 41614), (16, 41623),

Gene: Htur\_60 Start: 42023, Stop: 42229, Start Num: 5 Candidate Starts for Htur\_60: (Start: 4 @41993 has 6 MA's), (Start: 5 @42023 has 3 MA's), (6, 42098), (11, 42164), (12, 42170), (15, 42191),

Gene: Johann\_61 Start: 41449, Stop: 41655, Start Num: 5 Candidate Starts for Johann\_61: (1, 41311), (Start: 4 @41419 has 6 MA's), (Start: 5 @41449 has 3 MA's), (6, 41524), (14, 41614), (16, 41623),

Gene: PermaG\_61 Start: 41371, Stop: 41589, Start Num: 5 Candidate Starts for PermaG\_61: (1, 41236), (3, 41329), (Start: 4 @41344 has 6 MA's), (Start: 5 @41371 has 3 MA's), (7, 41455), (9, 41473), (13, 41530), (16, 41560), (17, 41563),

Gene: Rasovi\_63 Start: 41993, Stop: 42229, Start Num: 4 Candidate Starts for Rasovi\_63: (Start: 4 @41993 has 6 MA's), (Start: 5 @42023 has 3 MA's), (6, 42098), (11, 42164), (12, 42170), (15, 42191),

Gene: SBlackberry\_57 Start: 41145, Stop: 41345, Start Num: 4 Candidate Starts for SBlackberry\_57: (Start: 4 @41145 has 6 MA's), (8, 41235), (12, 41295), (16, 41316), (17, 41319),

Gene: TurboVicky\_60 Start: 41362, Stop: 41595, Start Num: 4

Candidate Starts for TurboVicky\_60: (Start: 4 @41362 has 6 MA's), (Start: 5 @41389 has 3 MA's), (6, 41464), (8, 41476), (12, 41536),

Gene: Typher\_59 Start: 40921, Stop: 41154, Start Num: 4 Candidate Starts for Typher\_59: (Start: 4 @40921 has 6 MA's), (Start: 5 @40948 has 3 MA's), (8, 41035), (14, 41113), (16, 41122),

Gene: Zanella\_58 Start: 41166, Stop: 41399, Start Num: 4 Candidate Starts for Zanella\_58: (Start: 4 @41166 has 6 MA's), (Start: 5 @41193 has 3 MA's), (6, 41268), (8, 41280), (12, 41340), (16, 41367), (17, 41370),