



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 190309 Report

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

Pham number 190309 has 10 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Herod\_59, Hugley\_57
- Track 2 : TimTam\_61, Nymphadora\_61, Eviarto\_61, BatStarr\_60
- Track 3 : Hyzer\_67
- Track 4 : Yeet412\_53
- Track 5 : Yeezy\_58
- Track 6 : BaxterFox\_61

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

The start number called the most often in the published annotations is 5, it was called in 8 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BatStarr\_60, BaxterFox\_61, Eviarto\_61, Herod\_59, Hugley\_57, Hyzer\_67, Nymphadora\_61, TimTam\_61, Yeet412\_53, Yeezy\_58,

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 5:

- Found in 10 of 10 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 8 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BatStarr\_60 (CZ1), BaxterFox\_61 (CZ3), Eviarto\_61 (CZ1), Herod\_59 (CZ1), Hugley\_57 (CZ1), Hyzer\_67 (CZ1), Nymphadora\_61 (CZ1), TimTam\_61 (CZ1), Yeet412\_53 (CZ2), Yeezy\_58 (CZ3),

### **Summary by clusters:**

There are 3 clusters represented in this pham: CZ2, CZ3, CZ1,

Info for manual annotations of cluster CZ1:

•Start number 5 was manually annotated 5 times for cluster CZ1.

Info for manual annotations of cluster CZ2:

•Start number 5 was manually annotated 1 time for cluster CZ2.

Info for manual annotations of cluster CZ3:

•Start number 5 was manually annotated 2 times for cluster CZ3.

### ***Gene Information:***

Gene: BatStarr\_60 Start: 43289, Stop: 43663, Start Num: 5

Candidate Starts for BatStarr\_60:

(4, 43220), (Start: 5 @43289 has 8 MA's), (11, 43535), (12, 43553), (13, 43565), (14, 43649),

Gene: BaxterFox\_61 Start: 43046, Stop: 43417, Start Num: 5

Candidate Starts for BaxterFox\_61:

(Start: 5 @43046 has 8 MA's), (6, 43115), (7, 43175), (10, 43244),

Gene: Eviarto\_61 Start: 43264, Stop: 43638, Start Num: 5

Candidate Starts for Eviarto\_61:

(4, 43195), (Start: 5 @43264 has 8 MA's), (11, 43510), (12, 43528), (13, 43540), (14, 43624),

Gene: Herod\_59 Start: 43314, Stop: 43685, Start Num: 5

Candidate Starts for Herod\_59:

(3, 43242), (4, 43245), (Start: 5 @43314 has 8 MA's), (14, 43671),

Gene: Hugley\_57 Start: 43294, Stop: 43665, Start Num: 5

Candidate Starts for Hugley\_57:

(3, 43222), (4, 43225), (Start: 5 @43294 has 8 MA's), (14, 43651),

Gene: Hyzer\_67 Start: 45258, Stop: 45629, Start Num: 5

Candidate Starts for Hyzer\_67:

(1, 45162), (2, 45180), (Start: 5 @45258 has 8 MA's), (12, 45522), (14, 45615),

Gene: Nymphadora\_61 Start: 43288, Stop: 43662, Start Num: 5

Candidate Starts for Nymphadora\_61:

(4, 43219), (Start: 5 @43288 has 8 MA's), (11, 43534), (12, 43552), (13, 43564), (14, 43648),

Gene: TimTam\_61 Start: 43288, Stop: 43662, Start Num: 5

Candidate Starts for TimTam\_61:

(4, 43219), (Start: 5 @43288 has 8 MA's), (11, 43534), (12, 43552), (13, 43564), (14, 43648),

Gene: Yeet412\_53 Start: 37992, Stop: 38363, Start Num: 5

Candidate Starts for Yeet412\_53:

(3, 37920), (Start: 5 @37992 has 8 MA's),

Gene: Yeezy\_58 Start: 40212, Stop: 40589, Start Num: 5

Candidate Starts for Yeezy\_58:

(Start: 5 @40212 has 8 MA's), (6, 40281), (8, 40407), (9, 40410), (14, 40572), (15, 40575),