



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 152465 Report

This analysis was run 04/05/24 on database version 557.

Pham number 152465 has 6 members, 0 are drafts.

Phages represented in each track:

- Track 1 : TimTam\_65, Nymphadora\_65, Eviarto\_65
- Track 2 : Neobush\_63
- Track 3 : BatStarr\_64
- Track 4 : Eyre\_52

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

Genes that call this "Most Annotated" start:

- Eviarto\_65, Eyre\_52, Neobush\_63, Nymphadora\_65, TimTam\_65,

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

- BatStarr\_64,

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

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

Start 2:

- Found in 6 of 6 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 5 of 6
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Eviarto\_65 (CZ1), Eyre\_52 (singleton), Neobush\_63 (CZ1), Nymphadora\_65 (CZ1), TimTam\_65 (CZ1),

Start 3:

- Found in 6 of 6 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 16.7% of time when present
- Phage (with cluster) where this start called: BatStarr\_64 (CZ1),

## Summary by clusters:

There are 2 clusters represented in this pham: singleton, CZ1,

Info for manual annotations of cluster CZ1:

- Start number 2 was manually annotated 4 times for cluster CZ1.
- Start number 3 was manually annotated 1 time for cluster CZ1.

## ***Gene Information:***

Gene: BatStarr\_64 Start: 44581, Stop: 44727, Start Num: 3

Candidate Starts for BatStarr\_64:

(Start: 2 @44578 has 5 MA's), (Start: 3 @44581 has 1 MA's), (4, 44596),

Gene: Eviarto\_65 Start: 44553, Stop: 44702, Start Num: 2

Candidate Starts for Eviarto\_65:

(Start: 2 @44553 has 5 MA's), (Start: 3 @44556 has 1 MA's), (4, 44571),

Gene: Eyre\_52 Start: 35630, Stop: 35779, Start Num: 2

Candidate Starts for Eyre\_52:

(1, 35549), (Start: 2 @35630 has 5 MA's), (Start: 3 @35633 has 1 MA's), (4, 35648), (5, 35708),

Gene: Neobush\_63 Start: 42127, Stop: 42276, Start Num: 2

Candidate Starts for Neobush\_63:

(Start: 2 @42127 has 5 MA's), (Start: 3 @42130 has 1 MA's), (4, 42145),

Gene: Nymphadora\_65 Start: 44577, Stop: 44726, Start Num: 2

Candidate Starts for Nymphadora\_65:

(Start: 2 @44577 has 5 MA's), (Start: 3 @44580 has 1 MA's), (4, 44595),

Gene: TimTam\_65 Start: 44577, Stop: 44726, Start Num: 2

Candidate Starts for TimTam\_65:

(Start: 2 @44577 has 5 MA's), (Start: 3 @44580 has 1 MA's), (4, 44595),