



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 7069 Report

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

Pham number 7069 has 11 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Mercedes\_46
- Track 2 : Neferthena\_52
- Track 3 : Greenlvy\_51, LilTerminator\_51, Zayuliv\_51
- Track 4 : Zepp\_51, CaptainRex\_51, Fulton\_51, Hasitha\_51, Librie\_51, QuadZero\_51

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

The start number called the most often in the published annotations is 1, it was called in 7 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- CaptainRex\_51, Fulton\_51, Greenlvy\_51, Hasitha\_51, Librie\_51, LilTerminator\_51, Mercedes\_46, QuadZero\_51, Zayuliv\_51, Zepp\_51,

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:

- Neferthena\_52,

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

Start 1:

- Found in 10 of 11 ( 90.9% ) of genes in pham
- Manual Annotations of this start: 7 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CaptainRex\_51 (EA5), Fulton\_51 (EA5), Greenlvy\_51 (EA5), Hasitha\_51 (EA5), Librie\_51 (EA5), LilTerminator\_51 (EA5), Mercedes\_46 (EA), QuadZero\_51 (EA5), Zayuliv\_51 (EA5), Zepp\_51 (EA5),

Start 2:

- Found in 1 of 11 ( 9.1% ) of genes in pham
- Manual Annotations of this start: 1 of 8

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Neferthena\_52 (EA5),

### **Summary by clusters:**

There are 2 clusters represented in this pham: EA5, EA,

Info for manual annotations of cluster EA:

- Start number 1 was manually annotated 1 time for cluster EA.

Info for manual annotations of cluster EA5:

- Start number 1 was manually annotated 6 times for cluster EA5.
- Start number 2 was manually annotated 1 time for cluster EA5.

### **Gene Information:**

Gene: CaptainRex\_51 Start: 35195, Stop: 35016, Start Num: 1

Candidate Starts for CaptainRex\_51:

(Start: 1 @35195 has 7 MA's), (4, 35081), (6, 35033),

Gene: Fulton\_51 Start: 35196, Stop: 35017, Start Num: 1

Candidate Starts for Fulton\_51:

(Start: 1 @35196 has 7 MA's), (4, 35082), (6, 35034),

Gene: Greenlvy\_51 Start: 35494, Stop: 35315, Start Num: 1

Candidate Starts for Greenlvy\_51:

(Start: 1 @35494 has 7 MA's), (4, 35380), (6, 35332),

Gene: Hasitha\_51 Start: 35208, Stop: 35029, Start Num: 1

Candidate Starts for Hasitha\_51:

(Start: 1 @35208 has 7 MA's), (4, 35094), (6, 35046),

Gene: Librie\_51 Start: 35195, Stop: 35016, Start Num: 1

Candidate Starts for Librie\_51:

(Start: 1 @35195 has 7 MA's), (4, 35081), (6, 35033),

Gene: LilTerminator\_51 Start: 35160, Stop: 34981, Start Num: 1

Candidate Starts for LilTerminator\_51:

(Start: 1 @35160 has 7 MA's), (4, 35046), (6, 34998),

Gene: Mercedes\_46 Start: 35342, Stop: 35163, Start Num: 1

Candidate Starts for Mercedes\_46:

(Start: 1 @35342 has 7 MA's), (4, 35228), (5, 35201), (6, 35180),

Gene: Neferthena\_52 Start: 36731, Stop: 36558, Start Num: 2

Candidate Starts for Neferthena\_52:

(Start: 2 @36731 has 1 MA's), (3, 36674), (4, 36623), (6, 36575),

Gene: QuadZero\_51 Start: 35299, Stop: 35120, Start Num: 1

Candidate Starts for QuadZero\_51:

(Start: 1 @35299 has 7 MA's), (4, 35185), (6, 35137),

Gene: Zayuliv\_51 Start: 35824, Stop: 35645, Start Num: 1  
Candidate Starts for Zayuliv\_51:  
(Start: 1 @35824 has 7 MA's), (4, 35710), (6, 35662),

Gene: Zepp\_51 Start: 35255, Stop: 35076, Start Num: 1  
Candidate Starts for Zepp\_51:  
(Start: 1 @35255 has 7 MA's), (4, 35141), (6, 35093),