

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 89009 Report

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

Pham number 89009 has 4 members, 0 are drafts.

Phages represented in each track:

Track 1 : Marteena\_31, EMsquaredA\_31

• Track 2 : RavenCo17 35

Track 3 : Malibo\_31

# 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 3 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

EMsquaredA\_31, Malibo\_31, Marteena\_31,

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:

RavenCo17\_35,

## Summary by start number:

# Start 1:

- Found in 3 of 4 (75.0%) of genes in pham
- Manual Annotations of this start: 3 of 4
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EMsquaredA\_31 (CY1), Malibo\_31 (DW), Marteena\_31 (CY1),

#### Start 3

- Found in 1 of 4 (25.0%) of genes in pham
- Manual Annotations of this start: 1 of 4
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RavenCo17\_35 (CZ8),

## Summary by clusters:

There are 3 clusters represented in this pham: DW, CY1, CZ8,

Info for manual annotations of cluster CY1:

•Start number 1 was manually annotated 2 times for cluster CY1.

Info for manual annotations of cluster CZ8:

•Start number 3 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DW:

•Start number 1 was manually annotated 1 time for cluster DW.

## Gene Information:

Gene: EMsquaredA 31 Start: 26507, Stop: 26740, Start Num: 1

Candidate Starts for EMsquaredA\_31:

(Start: 1 @ 26507 has 3 MA's), (2, 26519), (4, 26573), (5, 26606),

Gene: Malibo 31 Start: 25694, Stop: 25927, Start Num: 1

Candidate Starts for Malibo\_31:

(Start: 1 @ 25694 has 3 MA's), (2, 25706), (5, 25793), (8, 25904),

Gene: Marteena\_31 Start: 26507, Stop: 26740, Start Num: 1

Candidate Starts for Marteena\_31:

(Start: 1 @ 26507 has 3 MA's), (2, 26519), (4, 26573), (5, 26606),

Gene: RavenCo17\_35 Start: 29577, Stop: 29801, Start Num: 3

Candidate Starts for RavenCo17\_35:

(Start: 3 @29577 has 1 MA's), (6, 29694), (7, 29757),