Pham 9695

1: Cosmo_159 +81

2: MaryV_144

3: EniyanLRS_151

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 9695 Report

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

Pham number 9695 has 4 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Cosmo_159, Wildcat_158
• Track 2 : MaryV_144
• Track 3 : EniyanLRS_151

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 2 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Cosmo_159, Wildcat_158,

Genes that have the "Most Annotated" start but do not call it:
• EniyanLRS_151, MaryV_144,

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

Summary by start number:

Start 1:
• Found in 4 of 4 (100.0%) of genes in pham
• Manual Annotations of this start: 2 of 4
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Cosmo_159 (V), Wildcat_158 (V),

Start 2:
• Found in 4 of 4 (100.0%) of genes in pham
• Manual Annotations of this start: 1 of 4
• Called 25.0% of time when present
• Phage (with cluster) where this start called: MaryV_144 (V),

Start 3:
• Found in 4 of 4 (100.0%) of genes in pham

• Manual Annotations of this start: 1 of 4
• Called 25.0% of time when present
• Phage (with cluster) where this start called: EniyanLRS_151 (V),

Summary by clusters:

There is one cluster represented in this pham: V

Info for manual annotations of cluster V:
•Start number 1 was manually annotated 2 times for cluster V.
•Start number 2 was manually annotated 1 time for cluster V.
•Start number 3 was manually annotated 1 time for cluster V.

Gene Information:
Gene: Cosmo_159 Start: 71829, Stop: 71497, Start Num: 1
Candidate Starts for Cosmo_159:
(Start: 1 @71829 has 2 MA's), (Start: 2 @71814 has 1 MA's), (Start: 3 @71811 has 1 MA's), (4, 71787), (5, 71772), (6, 71742), (7, 71700), (8, 71697), (9, 71655),

Gene: EniyanLRS_151 Start: 72138, Stop: 71824, Start Num: 3
Candidate Starts for EniyanLRS_151:
(Start: 1 @72156 has 2 MA's), (Start: 2 @72141 has 1 MA's), (Start: 3 @72138 has 1 MA's), (4, 72114), (5, 72099), (6, 72069), (7, 72027), (8, 72024), (9, 71982),

Gene: MaryV_144 Start: 69991, Stop: 69674, Start Num: 2
Candidate Starts for MaryV_144:
(Start: 1 @70006 has 2 MA's), (Start: 2 @69991 has 1 MA's), (Start: 3 @69988 has 1 MA's), (4, 69964), (5, 69949), (6, 69919), (7, 69877), (8, 69874), (9, 69832),

Gene: Wildcat_158 Start: 71899, Stop: 71567, Start Num: 1
Candidate Starts for Wildcat_158:
(Start: 1 @71899 has 2 MA's), (Start: 2 @71884 has 1 MA's), (Start: 3 @71881 has 1 MA's), (4, 71857), (5, 71842), (6, 71812), (7, 71770), (8, 71767), (9, 71725),