



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 6481 Report

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

Pham number 6481 has 9 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Ziko\_73, Volt\_73, Ronaldo\_73
- Track 2 : Guey18\_76
- Track 3 : MaryV\_141
- Track 4 : EniyanLRS\_148, Azrael100\_148, Wildcat\_155, Cosmo\_156

### ***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 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Azrael100\_148, Cosmo\_156, EniyanLRS\_148, Guey18\_76, Ronaldo\_73, Volt\_73, Wildcat\_155, Ziko\_73,

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

- MaryV\_141,

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

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

Start 2:

- Found in 5 of 9 ( 55.6% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 20.0% of time when present
- Phage (with cluster) where this start called: MaryV\_141 (V),

Start 5:

- Found in 9 of 9 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 8 of 9
- Called 88.9% of time when present
- Phage (with cluster) where this start called: Azrael100\_148 (V), Cosmo\_156 (V), EniyanLRS\_148 (V), Guey18\_76 (DP), Ronaldo\_73 (DP), Volt\_73 (DP), Wildcat\_155

(V), Ziko\_73 (DP),

### **Summary by clusters:**

There are 2 clusters represented in this pham: DP, V,

Info for manual annotations of cluster DP:

- Start number 5 was manually annotated 4 times for cluster DP.

Info for manual annotations of cluster V:

- Start number 2 was manually annotated 1 time for cluster V.
- Start number 5 was manually annotated 4 times for cluster V.

### **Gene Information:**

Gene: Azrael100\_148 Start: 70725, Stop: 70321, Start Num: 5

Candidate Starts for Azrael100\_148:

(1, 70806), (Start: 2 @70803 has 1 MA's), (Start: 5 @70725 has 8 MA's), (6, 70575), (7, 70521), (8, 70413), (9, 70404), (10, 70380), (11, 70374),

Gene: Cosmo\_156 Start: 70889, Stop: 70485, Start Num: 5

Candidate Starts for Cosmo\_156:

(1, 70970), (Start: 2 @70967 has 1 MA's), (Start: 5 @70889 has 8 MA's), (6, 70739), (7, 70685), (8, 70577), (9, 70568), (10, 70544), (11, 70538),

Gene: EniyanLRS\_148 Start: 71218, Stop: 70814, Start Num: 5

Candidate Starts for EniyanLRS\_148:

(1, 71299), (Start: 2 @71296 has 1 MA's), (Start: 5 @71218 has 8 MA's), (6, 71068), (7, 71014), (8, 70906), (9, 70897), (10, 70873), (11, 70867),

Gene: Guey18\_76 Start: 40054, Stop: 39653, Start Num: 5

Candidate Starts for Guey18\_76:

(3, 40093), (4, 40087), (Start: 5 @40054 has 8 MA's), (12, 39694),

Gene: MaryV\_141 Start: 69145, Stop: 68663, Start Num: 2

Candidate Starts for MaryV\_141:

(1, 69148), (Start: 2 @69145 has 1 MA's), (Start: 5 @69067 has 8 MA's), (6, 68917), (7, 68863), (8, 68755), (9, 68746), (10, 68722), (11, 68716),

Gene: Ronaldo\_73 Start: 39424, Stop: 39023, Start Num: 5

Candidate Starts for Ronaldo\_73:

(3, 39463), (4, 39457), (Start: 5 @39424 has 8 MA's), (7, 39223),

Gene: Volt\_73 Start: 39588, Stop: 39187, Start Num: 5

Candidate Starts for Volt\_73:

(3, 39627), (4, 39621), (Start: 5 @39588 has 8 MA's), (7, 39387),

Gene: Wildcat\_155 Start: 70960, Stop: 70556, Start Num: 5

Candidate Starts for Wildcat\_155:

(1, 71041), (Start: 2 @71038 has 1 MA's), (Start: 5 @70960 has 8 MA's), (6, 70810), (7, 70756), (8, 70648), (9, 70639), (10, 70615), (11, 70609),

Gene: Ziko\_73 Start: 39410, Stop: 39009, Start Num: 5

Candidate Starts for Ziko\_73:

(3, 39449), (4, 39443), (Start: 5 @39410 has 8 MA's), (7, 39209),