



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 286181 Report

This analysis was run 03/28/26 on database version 641.

Pham number 286181 has 8 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Optimus_114
- Track 2 : Duke13_118
- Track 3 : Zelink_118, Minerva_121, Hughesyang_123, EricMillard_115, BAKA_123, ThreeRngTarjay_119

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 8 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BAKA_123, Duke13_118, EricMillard_115, Hughesyang_123, Minerva_121, Optimus_114, ThreeRngTarjay_119, Zelink_118,

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

-

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

-

Summary by start number:

Start 2:

- Found in 8 of 8 (100.0%) of genes in pham
- Manual Annotations of this start: 8 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BAKA_123 (J), Duke13_118 (J), EricMillard_115 (J), Hughesyang_123 (J), Minerva_121 (J), Optimus_114 (J), ThreeRngTarjay_119 (J), Zelink_118 (J),

Summary by clusters:

There is one cluster represented in this pham: J

Info for manual annotations of cluster J:

•Start number 2 was manually annotated 8 times for cluster J.

Gene Information:

Gene: BAKA_123 Start: 68103, Stop: 68330, Start Num: 2

Candidate Starts for BAKA_123:

(1, 68052), (Start: 2 @68103 has 8 MA's), (3, 68154), (4, 68184), (5, 68223), (6, 68229), (7, 68256), (8, 68262),

Gene: Duke13_118 Start: 65771, Stop: 65998, Start Num: 2

Candidate Starts for Duke13_118:

(Start: 2 @65771 has 8 MA's), (3, 65822), (4, 65852), (5, 65891), (6, 65897), (7, 65924), (8, 65930),

Gene: EricMillard_115 Start: 67740, Stop: 67967, Start Num: 2

Candidate Starts for EricMillard_115:

(1, 67689), (Start: 2 @67740 has 8 MA's), (3, 67791), (4, 67821), (5, 67860), (6, 67866), (7, 67893), (8, 67899),

Gene: Hughesyang_123 Start: 69277, Stop: 69504, Start Num: 2

Candidate Starts for Hughesyang_123:

(1, 69226), (Start: 2 @69277 has 8 MA's), (3, 69328), (4, 69358), (5, 69397), (6, 69403), (7, 69430), (8, 69436),

Gene: Minerva_121 Start: 67878, Stop: 68105, Start Num: 2

Candidate Starts for Minerva_121:

(1, 67827), (Start: 2 @67878 has 8 MA's), (3, 67929), (4, 67959), (5, 67998), (6, 68004), (7, 68031), (8, 68037),

Gene: Optimus_114 Start: 66274, Stop: 66501, Start Num: 2

Candidate Starts for Optimus_114:

(1, 66223), (Start: 2 @66274 has 8 MA's), (3, 66325), (4, 66355), (5, 66394), (6, 66400), (7, 66427), (8, 66433),

Gene: ThreeRngTarjay_119 Start: 69222, Stop: 69449, Start Num: 2

Candidate Starts for ThreeRngTarjay_119:

(1, 69171), (Start: 2 @69222 has 8 MA's), (3, 69273), (4, 69303), (5, 69342), (6, 69348), (7, 69375), (8, 69381),

Gene: Zelink_118 Start: 69169, Stop: 69396, Start Num: 2

Candidate Starts for Zelink_118:

(1, 69118), (Start: 2 @69169 has 8 MA's), (3, 69220), (4, 69250), (5, 69289), (6, 69295), (7, 69322), (8, 69328),