



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 170501 Report

This analysis was run 07/09/24 on database version 566.

Pham number 170501 has 11 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Rona\_64, Dismas\_65
- Track 2 : Kieran\_63, Sharkboy\_66, ChiliPepper\_63
- Track 3 : Bachaco\_64, FlameThrower\_62, Katzastrophic\_64, Celaena\_63
- Track 4 : Quenya\_67
- Track 5 : BAjuniper\_64

### ***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 10 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BAjuniper\_64, Bachaco\_64, Celaena\_63, ChiliPepper\_63, Dismas\_65, FlameThrower\_62, Katzastrophic\_64, Kieran\_63, Quenya\_67, Rona\_64, Sharkboy\_66,

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 1:

- Found in 11 of 11 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 10 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BAjuniper\_64 (EB), Bachaco\_64 (EB), Celaena\_63 (EB), ChiliPepper\_63 (EB), Dismas\_65 (EB), FlameThrower\_62 (EB), Katzastrophic\_64 (EB), Kieran\_63 (EB), Quenya\_67 (EB), Rona\_64 (EB), Sharkboy\_66 (EB),

### **Summary by clusters:**

There is one cluster represented in this pham: EB

Info for manual annotations of cluster EB:

•Start number 1 was manually annotated 10 times for cluster EB.

**Gene Information:**

Gene: BAjuniper\_64 Start: 40548, Stop: 40928, Start Num: 1

Candidate Starts for BAjuniper\_64:

(Start: 1 @40548 has 10 MA's), (11, 40818), (13, 40848), (14, 40872), (15, 40875),

Gene: Bachaco\_64 Start: 41227, Stop: 41607, Start Num: 1

Candidate Starts for Bachaco\_64:

(Start: 1 @41227 has 10 MA's), (2, 41272), (3, 41275), (5, 41305), (6, 41311), (7, 41329), (9, 41455), (14, 41554),

Gene: Celaena\_63 Start: 40990, Stop: 41370, Start Num: 1

Candidate Starts for Celaena\_63:

(Start: 1 @40990 has 10 MA's), (2, 41035), (3, 41038), (5, 41068), (6, 41074), (7, 41092), (9, 41218), (14, 41317),

Gene: ChiliPepper\_63 Start: 40454, Stop: 40804, Start Num: 1

Candidate Starts for ChiliPepper\_63:

(Start: 1 @40454 has 10 MA's), (4, 40517), (10, 40706), (12, 40730),

Gene: Dismas\_65 Start: 40592, Stop: 40942, Start Num: 1

Candidate Starts for Dismas\_65:

(Start: 1 @40592 has 10 MA's), (4, 40655), (10, 40844), (12, 40868),

Gene: FlameThrower\_62 Start: 40026, Stop: 40406, Start Num: 1

Candidate Starts for FlameThrower\_62:

(Start: 1 @40026 has 10 MA's), (2, 40071), (3, 40074), (5, 40104), (6, 40110), (7, 40128), (9, 40254), (14, 40353),

Gene: Katzastrophic\_64 Start: 40536, Stop: 40916, Start Num: 1

Candidate Starts for Katzastrophic\_64:

(Start: 1 @40536 has 10 MA's), (2, 40581), (3, 40584), (5, 40614), (6, 40620), (7, 40638), (9, 40764), (14, 40863),

Gene: Kieran\_63 Start: 40416, Stop: 40766, Start Num: 1

Candidate Starts for Kieran\_63:

(Start: 1 @40416 has 10 MA's), (4, 40479), (10, 40668), (12, 40692),

Gene: Quenya\_67 Start: 40867, Stop: 41247, Start Num: 1

Candidate Starts for Quenya\_67:

(Start: 1 @40867 has 10 MA's), (2, 40912), (3, 40915), (5, 40945), (8, 41035), (9, 41095), (10, 41116), (14, 41194),

Gene: Rona\_64 Start: 40583, Stop: 40933, Start Num: 1

Candidate Starts for Rona\_64:

(Start: 1 @40583 has 10 MA's), (4, 40646), (10, 40835), (12, 40859),

Gene: Sharkboy\_66 Start: 40947, Stop: 41297, Start Num: 1

Candidate Starts for Sharkboy\_66:

(Start: 1 @40947 has 10 MA's), (4, 41010), (10, 41199), (12, 41223),