



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 220304 Report

This analysis was run 03/28/25 on database version 593.

Pham number 220304 has 12 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Quenya\_65
- Track 2 : Eden\_66
- Track 3 : Gack\_65
- Track 4 : Brahms\_65, Bernstein\_65, Rollins\_65, Armstrong\_65, Clayda5\_67, Coltrane\_65, Skylord\_65
- Track 5 : Franklin22\_68
- Track 6 : Vitas\_65

### ***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 12 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Armstrong\_65, Bernstein\_65, Brahms\_65, Clayda5\_67, Coltrane\_65, Eden\_66, Franklin22\_68, Gack\_65, Quenya\_65, Rollins\_65, Skylord\_65, Vitas\_65,

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 12 of 12 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 12 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Armstrong\_65 (EB), Bernstein\_65 (EB), Brahms\_65 (EB), Clayda5\_67 (EB), Coltrane\_65 (EB), Eden\_66 (EB), Franklin22\_68 (EB), Gack\_65 (EB), Quenya\_65 (EB), Rollins\_65 (EB), Skylord\_65 (EB), Vitas\_65 (EB),

## Summary by clusters:

There is one cluster represented in this pham: EB

Info for manual annotations of cluster EB:

•Start number 2 was manually annotated 12 times for cluster EB.

### **Gene Information:**

Gene: Armstrong\_65 Start: 38306, Stop: 38512, Start Num: 2

Candidate Starts for Armstrong\_65:

(Start: 2 @38306 has 12 MA's), (3, 38414), (4, 38435), (5, 38456), (7, 38498),

Gene: Bernstein\_65 Start: 38304, Stop: 38510, Start Num: 2

Candidate Starts for Bernstein\_65:

(Start: 2 @38304 has 12 MA's), (3, 38412), (4, 38433), (5, 38454), (7, 38496),

Gene: Brahms\_65 Start: 38206, Stop: 38412, Start Num: 2

Candidate Starts for Brahms\_65:

(Start: 2 @38206 has 12 MA's), (3, 38314), (4, 38335), (5, 38356), (7, 38398),

Gene: Clayda5\_67 Start: 38272, Stop: 38478, Start Num: 2

Candidate Starts for Clayda5\_67:

(Start: 2 @38272 has 12 MA's), (3, 38380), (4, 38401), (5, 38422), (7, 38464),

Gene: Coltrane\_65 Start: 38206, Stop: 38412, Start Num: 2

Candidate Starts for Coltrane\_65:

(Start: 2 @38206 has 12 MA's), (3, 38314), (4, 38335), (5, 38356), (7, 38398),

Gene: Eden\_66 Start: 39118, Stop: 39339, Start Num: 2

Candidate Starts for Eden\_66:

(Start: 2 @39118 has 12 MA's), (5, 39271),

Gene: Franklin22\_68 Start: 38842, Stop: 39054, Start Num: 2

Candidate Starts for Franklin22\_68:

(Start: 2 @38842 has 12 MA's), (3, 38950), (5, 38995),

Gene: Gack\_65 Start: 38747, Stop: 38944, Start Num: 2

Candidate Starts for Gack\_65:

(1, 38459), (Start: 2 @38747 has 12 MA's), (5, 38897),

Gene: Quenya\_65 Start: 40431, Stop: 40655, Start Num: 2

Candidate Starts for Quenya\_65:

(Start: 2 @40431 has 12 MA's), (3, 40539), (6, 40614),

Gene: Rollins\_65 Start: 38304, Stop: 38510, Start Num: 2

Candidate Starts for Rollins\_65:

(Start: 2 @38304 has 12 MA's), (3, 38412), (4, 38433), (5, 38454), (7, 38496),

Gene: Skylord\_65 Start: 38221, Stop: 38427, Start Num: 2

Candidate Starts for Skylord\_65:

(Start: 2 @38221 has 12 MA's), (3, 38329), (4, 38350), (5, 38371), (7, 38413),

Gene: Vitas\_65 Start: 38277, Stop: 38483, Start Num: 2

Candidate Starts for Vitas\_65:

(Start: 2 @38277 has 12 MA's), (3, 38385), (4, 38406), (5, 38427), (7, 38469),