



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 7859 Report

This analysis was run 04/05/24 on database version 557.

Pham number 7859 has 9 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Emma1919\_213, Forrest\_213
- Track 2 : Francob\_215
- Track 3 : Phredrick\_215, Kenrey\_216
- Track 4 : Beuffert\_202
- Track 5 : Jada\_212, Gilson\_210, MeganTheeKilla\_215

### ***Summary of Final Annotations (See graph section above for start numbers):***

The start number called the most often in the published annotations is 4, it was called in 8 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Emma1919\_213, Forrest\_213, Francob\_215, Gilson\_210, Jada\_212, Kenrey\_216, MeganTheeKilla\_215, Phredrick\_215,

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

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

- Beuffert\_202,

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

Start 4:

- Found in 8 of 9 ( 88.9% ) of genes in pham
- Manual Annotations of this start: 8 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Emma1919\_213 (BK1), Forrest\_213 (BK1), Francob\_215 (BK1), Gilson\_210 (BK1), Jada\_212 (BK1), Kenrey\_216 (BK1), MeganTheeKilla\_215 (BK1), Phredrick\_215 (BK1),

Start 5:

- Found in 1 of 9 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 1 of 9

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beuffert\_202 (BK1),

### **Summary by clusters:**

There is one cluster represented in this pham: BK1

Info for manual annotations of cluster BK1:

- Start number 4 was manually annotated 8 times for cluster BK1.
- Start number 5 was manually annotated 1 time for cluster BK1.

### **Gene Information:**

Gene: Beuffert\_202 Start: 103278, Stop: 103421, Start Num: 5

Candidate Starts for Beuffert\_202:

(1, 103185), (2, 103236), (3, 103248), (Start: 5 @103278 has 1 MA's), (7, 103308), (10, 103410),

Gene: Emma1919\_213 Start: 104114, Stop: 104257, Start Num: 4

Candidate Starts for Emma1919\_213:

(Start: 4 @104114 has 8 MA's), (9, 104207),

Gene: Forrest\_213 Start: 105080, Stop: 105223, Start Num: 4

Candidate Starts for Forrest\_213:

(Start: 4 @105080 has 8 MA's), (9, 105173),

Gene: Francob\_215 Start: 105125, Stop: 105268, Start Num: 4

Candidate Starts for Francob\_215:

(Start: 4 @105125 has 8 MA's), (6, 105137), (7, 105158),

Gene: Gilson\_210 Start: 103637, Stop: 103780, Start Num: 4

Candidate Starts for Gilson\_210:

(Start: 4 @103637 has 8 MA's),

Gene: Jada\_212 Start: 104313, Stop: 104456, Start Num: 4

Candidate Starts for Jada\_212:

(Start: 4 @104313 has 8 MA's),

Gene: Kenrey\_216 Start: 104857, Stop: 105000, Start Num: 4

Candidate Starts for Kenrey\_216:

(Start: 4 @104857 has 8 MA's), (6, 104869), (8, 104923),

Gene: MeganTheeKilla\_215 Start: 104511, Stop: 104654, Start Num: 4

Candidate Starts for MeganTheeKilla\_215:

(Start: 4 @104511 has 8 MA's),

Gene: Phredrick\_215 Start: 103910, Stop: 104053, Start Num: 4

Candidate Starts for Phredrick\_215:

(Start: 4 @103910 has 8 MA's), (6, 103922), (8, 103976),