



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 305278 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305278 has 24 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Forrest\_104, MeganTheeKilla\_99, Maupel\_101, Phredrick\_100, DeluluLabubu\_100, Gilson\_101, Jada\_101, Emma1919\_102
- Track 2 : Blueeyedbeauty\_96, Annadreamy\_94, Limpid\_93
- Track 3 : Moab\_100, Patelgo\_99, Comrade\_98, Westy\_103, Stigma\_98, SparkleGoddess\_99, Belfort\_101, Karp\_97
- Track 4 : Francob\_99, Kenrey\_102
- Track 5 : SeresaTree\_98, Faust\_98
- Track 6 : Beuffert\_94

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

The start number called the most often in the published annotations is 3, it was called in 17 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Belfort\_101, Comrade\_98, DeluluLabubu\_100, Emma1919\_102, Forrest\_104, Francob\_99, Gilson\_101, Jada\_101, Karp\_97, Kenrey\_102, Maupel\_101, MeganTheeKilla\_99, Moab\_100, Patelgo\_99, Phredrick\_100, SparkleGoddess\_99, Stigma\_98, Westy\_103,

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

- 

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

- Annadreamy\_94, Beuffert\_94, Blueeyedbeauty\_96, Faust\_98, Limpid\_93, SeresaTree\_98,

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

Start 1:

- Found in 2 of 24 ( 8.3% ) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Faust\_98 (BK1), SeresaTree\_98 (BK1),

Start 2:

- Found in 4 of 24 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 4 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Annadreamy\_94 (BK1), Beuffert\_94 (BK1), Blueeyedbeauty\_96 (BK1), Limpid\_93 (BK1),

Start 3:

- Found in 18 of 24 ( 75.0% ) of genes in pham
- Manual Annotations of this start: 17 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Belfort\_101 (BK1), Comrade\_98 (BK1), DeluluLabubu\_100 (BK1), Emma1919\_102 (BK1), Forrest\_104 (BK1), Francob\_99 (BK1), Gilson\_101 (BK1), Jada\_101 (BK1), Karp\_97 (BK1), Kenrey\_102 (BK1), Maupel\_101 (BK1), MeganTheeKilla\_99 (BK1), Moab\_100 (BK1), Patelgo\_99 (BK1), Phredrick\_100 (BK1), SparkleGoddess\_99 (BK1), Stigma\_98 (BK1), Westy\_103 (BK1),

**Summary by clusters:**

There is one cluster represented in this pham: BK1

Info for manual annotations of cluster BK1:

- Start number 1 was manually annotated 1 time for cluster BK1.
- Start number 2 was manually annotated 4 times for cluster BK1.
- Start number 3 was manually annotated 17 times for cluster BK1.

**Gene Information:**

Gene: Annadreamy\_94 Start: 66362, Stop: 66547, Start Num: 2

Candidate Starts for Annadreamy\_94:

(Start: 2 @66362 has 4 MA's), (5, 66434),

Gene: Belfort\_101 Start: 68605, Stop: 68790, Start Num: 3

Candidate Starts for Belfort\_101:

(Start: 3 @68605 has 17 MA's), (5, 68677),

Gene: Beuffert\_94 Start: 66921, Stop: 67106, Start Num: 2

Candidate Starts for Beuffert\_94:

(Start: 2 @66921 has 4 MA's),

Gene: Blueeyedbeauty\_96 Start: 66320, Stop: 66505, Start Num: 2

Candidate Starts for Blueeyedbeauty\_96:

(Start: 2 @66320 has 4 MA's), (5, 66392),

Gene: Comrade\_98 Start: 67922, Stop: 68107, Start Num: 3

Candidate Starts for Comrade\_98:

(Start: 3 @67922 has 17 MA's), (5, 67994),

Gene: DeluluLabubu\_100 Start: 66761, Stop: 66946, Start Num: 3

Candidate Starts for DeluluLabubu\_100:  
(Start: 3 @66761 has 17 MA's),

Gene: Emma1919\_102 Start: 67382, Stop: 67567, Start Num: 3  
Candidate Starts for Emma1919\_102:  
(Start: 3 @67382 has 17 MA's),

Gene: Faust\_98 Start: 68011, Stop: 68205, Start Num: 1  
Candidate Starts for Faust\_98:  
(Start: 1 @68011 has 1 MA's), (4, 68071), (5, 68098),

Gene: Forrest\_104 Start: 69125, Stop: 69310, Start Num: 3  
Candidate Starts for Forrest\_104:  
(Start: 3 @69125 has 17 MA's),

Gene: Francob\_99 Start: 67565, Stop: 67750, Start Num: 3  
Candidate Starts for Francob\_99:  
(Start: 3 @67565 has 17 MA's), (5, 67637),

Gene: Gilson\_101 Start: 67344, Stop: 67529, Start Num: 3  
Candidate Starts for Gilson\_101:  
(Start: 3 @67344 has 17 MA's),

Gene: Jada\_101 Start: 67857, Stop: 68042, Start Num: 3  
Candidate Starts for Jada\_101:  
(Start: 3 @67857 has 17 MA's),

Gene: Karp\_97 Start: 67879, Stop: 68064, Start Num: 3  
Candidate Starts for Karp\_97:  
(Start: 3 @67879 has 17 MA's), (5, 67951),

Gene: Kenrey\_102 Start: 67572, Stop: 67757, Start Num: 3  
Candidate Starts for Kenrey\_102:  
(Start: 3 @67572 has 17 MA's), (5, 67644),

Gene: Limpid\_93 Start: 66361, Stop: 66546, Start Num: 2  
Candidate Starts for Limpid\_93:  
(Start: 2 @66361 has 4 MA's), (5, 66433),

Gene: Maupel\_101 Start: 67344, Stop: 67529, Start Num: 3  
Candidate Starts for Maupel\_101:  
(Start: 3 @67344 has 17 MA's),

Gene: MeganTheeKilla\_99 Start: 66705, Stop: 66854, Start Num: 3  
Candidate Starts for MeganTheeKilla\_99:  
(Start: 3 @66705 has 17 MA's),

Gene: Moab\_100 Start: 69731, Stop: 69916, Start Num: 3  
Candidate Starts for Moab\_100:  
(Start: 3 @69731 has 17 MA's), (5, 69803),

Gene: Patelgo\_99 Start: 68817, Stop: 69002, Start Num: 3  
Candidate Starts for Patelgo\_99:

(Start: 3 @68817 has 17 MA's), (5, 68889),

Gene: Phredrick\_100 Start: 66672, Stop: 66857, Start Num: 3

Candidate Starts for Phredrick\_100:

(Start: 3 @66672 has 17 MA's),

Gene: SeresaTree\_98 Start: 67393, Stop: 67587, Start Num: 1

Candidate Starts for SeresaTree\_98:

(Start: 1 @67393 has 1 MA's), (4, 67453), (5, 67480),

Gene: SparkleGoddess\_99 Start: 68222, Stop: 68407, Start Num: 3

Candidate Starts for SparkleGoddess\_99:

(Start: 3 @68222 has 17 MA's), (5, 68294),

Gene: Stigma\_98 Start: 68230, Stop: 68415, Start Num: 3

Candidate Starts for Stigma\_98:

(Start: 3 @68230 has 17 MA's), (5, 68302),

Gene: Westy\_103 Start: 69242, Stop: 69427, Start Num: 3

Candidate Starts for Westy\_103:

(Start: 3 @69242 has 17 MA's), (5, 69314),