



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 3916 Report

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

Pham number 3916 has 23 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Sham\_231, TunaTartare\_238
- Track 2 : Karp\_240, Phredrick\_249, Belfort\_241, Gilson\_244, Emma1919\_245, MeganTheeKilla\_247, SparkleGoddess\_242, Comrade\_237, Francob\_248, Kenrey\_250, Stigma\_240
- Track 3 : Beuffert\_236
- Track 4 : Faust\_242, Limpid\_234, Blueeyedbeauty\_239, SeresaTree\_246, Annadreamy\_227
- Track 5 : Forrest\_243, Jada\_242
- Track 6 : Patelgo\_247, Moab\_247

### ***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 15 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Belfort\_241, Comrade\_237, Emma1919\_245, Forrest\_243, Francob\_248, Gilson\_244, Jada\_242, Karp\_240, Kenrey\_250, MeganTheeKilla\_247, Moab\_247, Patelgo\_247, Phredrick\_249, SparkleGoddess\_242, Stigma\_240,

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:

- Annadreamy\_227, Beuffert\_236, Blueeyedbeauty\_239, Faust\_242, Limpid\_234, SeresaTree\_246, Sham\_231, TunaTartare\_238,

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

Start 1:

- Found in 6 of 23 ( 26.1% ) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Beuffert\_236 (BK1),

#### Start 2:

- Found in 15 of 23 ( 65.2% ) of genes in pham
- Manual Annotations of this start: 15 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Belfort\_241 (BK1), Comrade\_237 (BK1), Emma1919\_245 (BK1), Forrest\_243 (BK1), Francob\_248 (BK1), Gilson\_244 (BK1), Jada\_242 (BK1), Karp\_240 (BK1), Kenrey\_250 (BK1), MeganTheeKilla\_247 (BK1), Moab\_247 (BK1), Patelgo\_247 (BK1), Phredrick\_249 (BK1), SparkleGoddess\_242 (BK1), Stigma\_240 (BK1),

#### Start 3:

- Found in 8 of 23 ( 34.8% ) of genes in pham
- Manual Annotations of this start: 6 of 22
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Annadreamy\_227 (BK1), Blueeyedbeauty\_239 (BK1), Faust\_242 (BK1), Limpid\_234 (BK1), SeresaTree\_246 (BK1), Sham\_231 (BK1), TunaTartare\_238 (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 15 times for cluster BK1.
- Start number 3 was manually annotated 6 times for cluster BK1.

### Gene Information:

Gene: Annadreamy\_227 Start: 111347, Stop: 111535, Start Num: 3

Candidate Starts for Annadreamy\_227:

(Start: 1 @111335 has 1 MA's), (Start: 3 @111347 has 6 MA's),

Gene: Belfort\_241 Start: 116514, Stop: 116705, Start Num: 2

Candidate Starts for Belfort\_241:

(Start: 2 @116514 has 15 MA's), (4, 116556),

Gene: Beuffert\_236 Start: 115573, Stop: 115773, Start Num: 1

Candidate Starts for Beuffert\_236:

(Start: 1 @115573 has 1 MA's), (Start: 3 @115585 has 6 MA's), (6, 115666),

Gene: Blueeyedbeauty\_239 Start: 115663, Stop: 115851, Start Num: 3

Candidate Starts for Blueeyedbeauty\_239:

(Start: 1 @115651 has 1 MA's), (Start: 3 @115663 has 6 MA's),

Gene: Comrade\_237 Start: 116800, Stop: 116991, Start Num: 2

Candidate Starts for Comrade\_237:

(Start: 2 @116800 has 15 MA's), (4, 116842),

Gene: Emma1919\_245 Start: 115752, Stop: 115943, Start Num: 2

Candidate Starts for Emma1919\_245:  
(Start: 2 @115752 has 15 MA's), (4, 115794),

Gene: Faust\_242 Start: 117639, Stop: 117827, Start Num: 3  
Candidate Starts for Faust\_242:  
(Start: 1 @117627 has 1 MA's), (Start: 3 @117639 has 6 MA's),

Gene: Forrest\_243 Start: 116510, Stop: 116701, Start Num: 2  
Candidate Starts for Forrest\_243:  
(Start: 2 @116510 has 15 MA's), (5, 116579),

Gene: Francob\_248 Start: 117127, Stop: 117318, Start Num: 2  
Candidate Starts for Francob\_248:  
(Start: 2 @117127 has 15 MA's), (4, 117169),

Gene: Gilson\_244 Start: 116392, Stop: 116583, Start Num: 2  
Candidate Starts for Gilson\_244:  
(Start: 2 @116392 has 15 MA's), (4, 116434),

Gene: Jada\_242 Start: 115750, Stop: 115941, Start Num: 2  
Candidate Starts for Jada\_242:  
(Start: 2 @115750 has 15 MA's), (5, 115819),

Gene: Karp\_240 Start: 118112, Stop: 118303, Start Num: 2  
Candidate Starts for Karp\_240:  
(Start: 2 @118112 has 15 MA's), (4, 118154),

Gene: Kenrey\_250 Start: 117339, Stop: 117530, Start Num: 2  
Candidate Starts for Kenrey\_250:  
(Start: 2 @117339 has 15 MA's), (4, 117381),

Gene: Limpid\_234 Start: 116660, Stop: 116848, Start Num: 3  
Candidate Starts for Limpid\_234:  
(Start: 1 @116648 has 1 MA's), (Start: 3 @116660 has 6 MA's),

Gene: MeganTheeKilla\_247 Start: 116298, Stop: 116489, Start Num: 2  
Candidate Starts for MeganTheeKilla\_247:  
(Start: 2 @116298 has 15 MA's), (4, 116340),

Gene: Moab\_247 Start: 118571, Stop: 118762, Start Num: 2  
Candidate Starts for Moab\_247:  
(Start: 2 @118571 has 15 MA's), (5, 118640),

Gene: Patelgo\_247 Start: 118997, Stop: 119188, Start Num: 2  
Candidate Starts for Patelgo\_247:  
(Start: 2 @118997 has 15 MA's), (5, 119066),

Gene: Phredrick\_249 Start: 116174, Stop: 116365, Start Num: 2  
Candidate Starts for Phredrick\_249:  
(Start: 2 @116174 has 15 MA's), (4, 116216),

Gene: SeresaTree\_246 Start: 117864, Stop: 118052, Start Num: 3  
Candidate Starts for SeresaTree\_246:

(Start: 1 @117852 has 1 MA's), (Start: 3 @117864 has 6 MA's),

Gene: Sham\_231 Start: 117206, Stop: 117388, Start Num: 3

Candidate Starts for Sham\_231:

(Start: 3 @117206 has 6 MA's), (6, 117293),

Gene: SparkleGoddess\_242 Start: 117386, Stop: 117577, Start Num: 2

Candidate Starts for SparkleGoddess\_242:

(Start: 2 @117386 has 15 MA's), (4, 117428),

Gene: Stigma\_240 Start: 117348, Stop: 117539, Start Num: 2

Candidate Starts for Stigma\_240:

(Start: 2 @117348 has 15 MA's), (4, 117390),

Gene: TunaTartare\_238 Start: 119035, Stop: 119217, Start Num: 3

Candidate Starts for TunaTartare\_238:

(Start: 3 @119035 has 6 MA's), (6, 119122),