



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 160704 Report

This analysis was run 04/28/24 on database version 559.

Pham number 160704 has 23 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Emma1919\_4
- Track 2 : Moab\_3, Patelgo\_4
- Track 3 : Beuffert\_4
- Track 4 : Francob\_3
- Track 5 : Kenrey\_4, MeganTheeKilla\_4, Jada\_4, Gilson\_4, Forrest\_4, Phredrick\_4
- Track 6 : Blueeyedbeauty\_4, TunaTartare\_4, Comrade\_4, Sham\_4, Stigma\_4, Karp\_4, SparkleGoddess\_4
- Track 7 : SeresaTree\_4, Faust\_3
- Track 8 : Limpid\_4, Annadreamy\_4
- Track 9 : Belfort\_4

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

Genes that call this "Most Annotated" start:

- Annadreamy\_4, Belfort\_4, Beuffert\_4, Blueeyedbeauty\_4, Comrade\_4, Emma1919\_4, Faust\_3, Forrest\_4, Francob\_3, Gilson\_4, Jada\_4, Karp\_4, Kenrey\_4, Limpid\_4, MeganTheeKilla\_4, Moab\_3, Patelgo\_4, Phredrick\_4, SeresaTree\_4, Sham\_4, SparkleGoddess\_4, Stigma\_4, TunaTartare\_4,

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 23 of 23 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 22 of 22
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Annadreamy\_4 (BK1), Belfort\_4 (BK1), Beuffert\_4 (BK1), Blueeyedbeauty\_4 (BK1), Comrade\_4 (BK1), Emma1919\_4 (BK1), Faust\_3 (BK1), Forrest\_4 (BK1), Francob\_3 (BK1), Gilson\_4 (BK1), Jada\_4 (BK1), Karp\_4 (BK1), Kenrey\_4 (BK1), Limpid\_4 (BK1), MeganTheeKilla\_4 (BK1), Moab\_3 (BK1), Patelgo\_4 (BK1), Phredrick\_4 (BK1), SeresaTree\_4 (BK1), Sham\_4 (BK1), SparkleGoddess\_4 (BK1), Stigma\_4 (BK1), TunaTartare\_4 (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 22 times for cluster BK1.

### **Gene Information:**

Gene: Annadreamy\_4 Start: 1315, Stop: 1127, Start Num: 1

Candidate Starts for Annadreamy\_4:

(Start: 1 @1315 has 22 MA's), (9, 1168),

Gene: Belfort\_4 Start: 1266, Stop: 1075, Start Num: 1

Candidate Starts for Belfort\_4:

(Start: 1 @1266 has 22 MA's), (10, 1113),

Gene: Beuffert\_4 Start: 1390, Stop: 1199, Start Num: 1

Candidate Starts for Beuffert\_4:

(Start: 1 @1390 has 22 MA's), (2, 1372), (5, 1339),

Gene: Blueeyedbeauty\_4 Start: 1315, Stop: 1127, Start Num: 1

Candidate Starts for Blueeyedbeauty\_4:

(Start: 1 @1315 has 22 MA's),

Gene: Comrade\_4 Start: 1267, Stop: 1076, Start Num: 1

Candidate Starts for Comrade\_4:

(Start: 1 @1267 has 22 MA's),

Gene: Emma1919\_4 Start: 1277, Stop: 1089, Start Num: 1

Candidate Starts for Emma1919\_4:

(Start: 1 @1277 has 22 MA's), (5, 1226), (7, 1172),

Gene: Faust\_3 Start: 1407, Stop: 1213, Start Num: 1

Candidate Starts for Faust\_3:

(Start: 1 @1407 has 22 MA's), (4, 1359), (8, 1299),

Gene: Forrest\_4 Start: 1274, Stop: 1086, Start Num: 1

Candidate Starts for Forrest\_4:

(Start: 1 @1274 has 22 MA's), (5, 1223), (7, 1169), (8, 1166),

Gene: Francob\_3 Start: 1276, Stop: 1088, Start Num: 1

Candidate Starts for Francob\_3:

(Start: 1 @1276 has 22 MA's), (3, 1246), (8, 1168),

Gene: Gilson\_4 Start: 1274, Stop: 1086, Start Num: 1  
Candidate Starts for Gilson\_4:  
(Start: 1 @1274 has 22 MA's), (5, 1223), (7, 1169), (8, 1166),

Gene: Jada\_4 Start: 1274, Stop: 1086, Start Num: 1  
Candidate Starts for Jada\_4:  
(Start: 1 @1274 has 22 MA's), (5, 1223), (7, 1169), (8, 1166),

Gene: Karp\_4 Start: 1267, Stop: 1076, Start Num: 1  
Candidate Starts for Karp\_4:  
(Start: 1 @1267 has 22 MA's),

Gene: Kenrey\_4 Start: 1263, Stop: 1075, Start Num: 1  
Candidate Starts for Kenrey\_4:  
(Start: 1 @1263 has 22 MA's), (5, 1212), (7, 1158), (8, 1155),

Gene: Limpid\_4 Start: 1314, Stop: 1126, Start Num: 1  
Candidate Starts for Limpid\_4:  
(Start: 1 @1314 has 22 MA's), (9, 1167),

Gene: MeganTheeKilla\_4 Start: 1274, Stop: 1086, Start Num: 1  
Candidate Starts for MeganTheeKilla\_4:  
(Start: 1 @1274 has 22 MA's), (5, 1223), (7, 1169), (8, 1166),

Gene: Moab\_3 Start: 1225, Stop: 1037, Start Num: 1  
Candidate Starts for Moab\_3:  
(Start: 1 @1225 has 22 MA's), (3, 1195), (6, 1123),

Gene: Patelgo\_4 Start: 1225, Stop: 1037, Start Num: 1  
Candidate Starts for Patelgo\_4:  
(Start: 1 @1225 has 22 MA's), (3, 1195), (6, 1123),

Gene: Phredrick\_4 Start: 1274, Stop: 1086, Start Num: 1  
Candidate Starts for Phredrick\_4:  
(Start: 1 @1274 has 22 MA's), (5, 1223), (7, 1169), (8, 1166),

Gene: SeresaTree\_4 Start: 1407, Stop: 1213, Start Num: 1  
Candidate Starts for SeresaTree\_4:  
(Start: 1 @1407 has 22 MA's), (4, 1359), (8, 1299),

Gene: Sham\_4 Start: 1406, Stop: 1215, Start Num: 1  
Candidate Starts for Sham\_4:  
(Start: 1 @1406 has 22 MA's),

Gene: SparkleGoddess\_4 Start: 1263, Stop: 1072, Start Num: 1  
Candidate Starts for SparkleGoddess\_4:  
(Start: 1 @1263 has 22 MA's),

Gene: Stigma\_4 Start: 1267, Stop: 1076, Start Num: 1  
Candidate Starts for Stigma\_4:  
(Start: 1 @1267 has 22 MA's),

Gene: TunaTartare\_4 Start: 1388, Stop: 1197, Start Num: 1  
Candidate Starts for TunaTartare\_4:  
(Start: 1 @1388 has 22 MA's),