



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 160710 Report

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

Pham number 160710 has 23 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Emma1919\_5, Kenrey\_5, MeganTheeKilla\_5, Jada\_5, Gilson\_5, Forrest\_5, Phredrick\_5
- Track 2 : Moab\_4, Patelgo\_5
- Track 3 : Beuffert\_5
- Track 4 : Faust\_4, SeresaTree\_5
- Track 5 : Francob\_4
- Track 6 : Blueeyedbeauty\_5
- Track 7 : SparkleGoddess\_5, Comrade\_5, Stigma\_5, Karp\_5, Belfort\_5
- Track 8 : TunaTartare\_5
- Track 9 : Sham\_5
- Track 10 : Annadreamy\_5, Limpid\_5

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

Genes that call this "Most Annotated" start:

- Belfort\_5, Comrade\_5, Emma1919\_5, Forrest\_5, Francob\_4, Gilson\_5, Jada\_5, Karp\_5, Kenrey\_5, MeganTheeKilla\_5, Phredrick\_5, SparkleGoddess\_5, Stigma\_5,

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\_5, Beuffert\_5, Blueeyedbeauty\_5, Faust\_4, Limpid\_5, Moab\_4, Patelgo\_5, SeresaTree\_5, Sham\_5, TunaTartare\_5,

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

Start 1:

- Found in 16 of 23 ( 69.6% ) of genes in pham
- Manual Annotations of this start: 3 of 22
- Called 18.8% of time when present

- Phage (with cluster) where this start called: Annadreamy\_5 (BK1), Blueeyedbeauty\_5 (BK1), Limpid\_5 (BK1),

#### Start 2:

- Found in 7 of 23 ( 30.4% ) of genes in pham
- Manual Annotations of this start: 6 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beuffert\_5 (BK1), Faust\_4 (BK1), Moab\_4 (BK1), Patelgo\_5 (BK1), SeresaTree\_5 (BK1), Sham\_5 (BK1), TunaTartare\_5 (BK1),

#### Start 3:

- Found in 13 of 23 ( 56.5% ) of genes in pham
- Manual Annotations of this start: 13 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Belfort\_5 (BK1), Comrade\_5 (BK1), Emma1919\_5 (BK1), Forrest\_5 (BK1), Francob\_4 (BK1), Gilson\_5 (BK1), Jada\_5 (BK1), Karp\_5 (BK1), Kenrey\_5 (BK1), MeganTheeKilla\_5 (BK1), Phredrick\_5 (BK1), SparkleGoddess\_5 (BK1), Stigma\_5 (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 3 times for cluster BK1.
- Start number 2 was manually annotated 6 times for cluster BK1.
- Start number 3 was manually annotated 13 times for cluster BK1.

### ***Gene Information:***

Gene: Annadreamy\_5 Start: 1489, Stop: 1325, Start Num: 1

Candidate Starts for Annadreamy\_5:

(Start: 1 @1489 has 3 MA's), (4, 1465),

Gene: Belfort\_5 Start: 1434, Stop: 1276, Start Num: 3

Candidate Starts for Belfort\_5:

(Start: 1 @1440 has 3 MA's), (Start: 3 @1434 has 13 MA's), (8, 1329),

Gene: Beuffert\_5 Start: 1561, Stop: 1400, Start Num: 2

Candidate Starts for Beuffert\_5:

(Start: 2 @1561 has 6 MA's), (8, 1453),

Gene: Blueeyedbeauty\_5 Start: 1489, Stop: 1325, Start Num: 1

Candidate Starts for Blueeyedbeauty\_5:

(Start: 1 @1489 has 3 MA's), (4, 1465), (7, 1384),

Gene: Comrade\_5 Start: 1435, Stop: 1277, Start Num: 3

Candidate Starts for Comrade\_5:

(Start: 1 @1441 has 3 MA's), (Start: 3 @1435 has 13 MA's), (8, 1330),

Gene: Emma1919\_5 Start: 1445, Stop: 1287, Start Num: 3  
Candidate Starts for Emma1919\_5:  
(Start: 1 @1451 has 3 MA's), (Start: 3 @1445 has 13 MA's), (5, 1424), (8, 1340),

Gene: Faust\_4 Start: 1584, Stop: 1417, Start Num: 2  
Candidate Starts for Faust\_4:  
(Start: 2 @1584 has 6 MA's), (6, 1536),

Gene: Forrest\_5 Start: 1442, Stop: 1284, Start Num: 3  
Candidate Starts for Forrest\_5:  
(Start: 1 @1448 has 3 MA's), (Start: 3 @1442 has 13 MA's), (5, 1421), (8, 1337),

Gene: Francob\_4 Start: 1444, Stop: 1286, Start Num: 3  
Candidate Starts for Francob\_4:  
(Start: 1 @1450 has 3 MA's), (Start: 3 @1444 has 13 MA's), (5, 1423), (7, 1345), (8, 1339),

Gene: Gilson\_5 Start: 1442, Stop: 1284, Start Num: 3  
Candidate Starts for Gilson\_5:  
(Start: 1 @1448 has 3 MA's), (Start: 3 @1442 has 13 MA's), (5, 1421), (8, 1337),

Gene: Jada\_5 Start: 1442, Stop: 1284, Start Num: 3  
Candidate Starts for Jada\_5:  
(Start: 1 @1448 has 3 MA's), (Start: 3 @1442 has 13 MA's), (5, 1421), (8, 1337),

Gene: Karp\_5 Start: 1435, Stop: 1277, Start Num: 3  
Candidate Starts for Karp\_5:  
(Start: 1 @1441 has 3 MA's), (Start: 3 @1435 has 13 MA's), (8, 1330),

Gene: Kenrey\_5 Start: 1431, Stop: 1273, Start Num: 3  
Candidate Starts for Kenrey\_5:  
(Start: 1 @1437 has 3 MA's), (Start: 3 @1431 has 13 MA's), (5, 1410), (8, 1326),

Gene: Limpid\_5 Start: 1488, Stop: 1324, Start Num: 1  
Candidate Starts for Limpid\_5:  
(Start: 1 @1488 has 3 MA's), (4, 1464),

Gene: MeganTheeKilla\_5 Start: 1442, Stop: 1284, Start Num: 3  
Candidate Starts for MeganTheeKilla\_5:  
(Start: 1 @1448 has 3 MA's), (Start: 3 @1442 has 13 MA's), (5, 1421), (8, 1337),

Gene: Moab\_4 Start: 1395, Stop: 1234, Start Num: 2  
Candidate Starts for Moab\_4:  
(Start: 2 @1395 has 6 MA's), (7, 1293),

Gene: Patelgo\_5 Start: 1395, Stop: 1234, Start Num: 2  
Candidate Starts for Patelgo\_5:  
(Start: 2 @1395 has 6 MA's), (7, 1293),

Gene: Phredrick\_5 Start: 1442, Stop: 1284, Start Num: 3  
Candidate Starts for Phredrick\_5:  
(Start: 1 @1448 has 3 MA's), (Start: 3 @1442 has 13 MA's), (5, 1421), (8, 1337),

Gene: SeresaTree\_5 Start: 1584, Stop: 1417, Start Num: 2

Candidate Starts for SeresaTree\_5:  
(Start: 2 @1584 has 6 MA's), (6, 1536),

Gene: Sham\_5 Start: 1577, Stop: 1416, Start Num: 2  
Candidate Starts for Sham\_5:  
(Start: 2 @1577 has 6 MA's),

Gene: SparkleGoddess\_5 Start: 1431, Stop: 1273, Start Num: 3  
Candidate Starts for SparkleGoddess\_5:  
(Start: 1 @1437 has 3 MA's), (Start: 3 @1431 has 13 MA's), (8, 1326),

Gene: Stigma\_5 Start: 1435, Stop: 1277, Start Num: 3  
Candidate Starts for Stigma\_5:  
(Start: 1 @1441 has 3 MA's), (Start: 3 @1435 has 13 MA's), (8, 1330),

Gene: TunaTartare\_5 Start: 1565, Stop: 1398, Start Num: 2  
Candidate Starts for TunaTartare\_5:  
(Start: 2 @1565 has 6 MA's), (9, 1406),