

Pham 163810



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 163810 Report

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

Pham number 163810 has 32 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Inked\_69
- Track 2 : AreFloNak\_66, ScienceWizSam\_64, Gordon\_61, DevitoJr\_63, Darby\_62, Nivinsha\_66, Tatanka\_59, Synepsis\_62
- Track 3 : Niktson\_64, ElephantMan\_64, Teacup\_65
- Track 4 : Brunswick\_64
- Track 5 : Breylor17\_63, CastorTray\_67, Trustiboi\_63, Nightmare\_65
- Track 6 : Issa\_64
- Track 7 : CapnMurica\_61
- Track 8 : MiniBagel\_61, Tenno\_64
- Track 9 : Shepard\_69
- Track 10 : Tokki\_73
- Track 11 : LilHuddy\_68
- Track 12 : Phaby\_68
- Track 13 : Giantsbane\_67
- Track 14 : Caterpillar\_63
- Track 15 : MediumFry\_64
- Track 16 : Makai\_67, Truckee\_65
- Track 17 : Egad\_66
- Track 18 : ProfFrink\_67

### ***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 12 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AreFloNak\_66, Breylor17\_63, CapnMurica\_61, CastorTray\_67, Darby\_62, DevitoJr\_63, Gordon\_61, Issa\_64, MiniBagel\_61, Nightmare\_65, Nivinsha\_66, ScienceWizSam\_64, Synepsis\_62, Tatanka\_59, Tenno\_64, Trustiboi\_63,

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:

- Brunswick\_64, Caterpillar\_63, Egad\_66, ElephantMan\_64, Giantsbane\_67, Inked\_69, LilHuddy\_68, Makai\_67, MediumFry\_64, Niktson\_64, Phaby\_68, ProfFrink\_67, Shepard\_69, Teacup\_65, Tokki\_73, Truckee\_65,

### Summary by start number:

#### Start 1:

- Found in 16 of 32 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 12 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AreFloNak\_66 (AU1), Breylor17\_63 (AU1), CapnMurica\_61 (AU1), CastorTray\_67 (AU1), Darby\_62 (AU1), DevitoJr\_63 (AU1), Gordon\_61 (AU1), Issa\_64 (AU1), MiniBagel\_61 (AU1), Nightmare\_65 (AU1), Nivinsha\_66 (AU1), ScienceWizSam\_64 (AU1), Synepsis\_62 (AU1), Tatanka\_59 (AU1), Tenno\_64 (AU1), Trustiboi\_63 (AU1),

#### Start 2:

- Found in 5 of 32 ( 15.6% ) of genes in pham
- Manual Annotations of this start: 4 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Brunswick\_64 (AU1), ElephantMan\_64 (AU1), Inked\_69 (AU), Niktson\_64 (AU1), Teacup\_65 (AU1),

#### Start 4:

- Found in 2 of 32 ( 6.2% ) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: ProfFrink\_67 (AW),

#### Start 5:

- Found in 9 of 32 ( 28.1% ) of genes in pham
- Manual Annotations of this start: 8 of 25
- Called 88.9% of time when present
- Phage (with cluster) where this start called: Caterpillar\_63 (AU4), Giantsbane\_67 (AU2), LilHuddy\_68 (AU2), Makai\_67 (AU5), MediumFry\_64 (AU4), Shepard\_69 (AU2), Tokki\_73 (AU2), Truckee\_65 (AU5),

#### Start 6:

- Found in 2 of 32 ( 6.2% ) of genes in pham
- Manual Annotations of this start: 1 of 25
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Egad\_66 (AW),

#### Start 8:

- Found in 30 of 32 ( 93.8% ) of genes in pham
- No Manual Annotations of this start.
- Called 3.3% of time when present
- Phage (with cluster) where this start called: Phaby\_68 (AU2),

### Summary by clusters:

There are 6 clusters represented in this pham: AU1, AU2, AU, AU4, AW, AU5,

Info for manual annotations of cluster AU:

- Start number 2 was manually annotated 1 time for cluster AU.

Info for manual annotations of cluster AU1:

- Start number 1 was manually annotated 12 times for cluster AU1.
- Start number 2 was manually annotated 3 times for cluster AU1.

Info for manual annotations of cluster AU2:

- Start number 5 was manually annotated 4 times for cluster AU2.

Info for manual annotations of cluster AU4:

- Start number 5 was manually annotated 2 times for cluster AU4.

Info for manual annotations of cluster AU5:

- Start number 5 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AW:

- Start number 6 was manually annotated 1 time for cluster AW.

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

Gene: AreFloNak\_66 Start: 44576, Stop: 44890, Start Num: 1

Candidate Starts for AreFloNak\_66:

(Start: 1 @44576 has 12 MA's), (8, 44645), (15, 44708), (17, 44759),

Gene: Breylor17\_63 Start: 45151, Stop: 45465, Start Num: 1

Candidate Starts for Breylor17\_63:

(Start: 1 @45151 has 12 MA's), (8, 45220), (12, 45265), (15, 45283), (17, 45334),

Gene: Brunswick\_64 Start: 44599, Stop: 44910, Start Num: 2

Candidate Starts for Brunswick\_64:

(Start: 2 @44599 has 4 MA's), (8, 44665), (10, 44689), (15, 44728), (19, 44827),

Gene: CapnMurica\_61 Start: 45337, Stop: 45651, Start Num: 1

Candidate Starts for CapnMurica\_61:

(Start: 1 @45337 has 12 MA's), (8, 45406), (15, 45469), (16, 45493), (17, 45520),

Gene: CastorTray\_67 Start: 45340, Stop: 45654, Start Num: 1

Candidate Starts for CastorTray\_67:

(Start: 1 @45340 has 12 MA's), (8, 45409), (12, 45454), (15, 45472), (17, 45523),

Gene: Caterpillar\_63 Start: 44268, Stop: 44546, Start Num: 5

Candidate Starts for Caterpillar\_63:

(Start: 5 @44268 has 8 MA's), (8, 44307), (9, 44313), (21, 44505),

Gene: Darby\_62 Start: 44386, Stop: 44700, Start Num: 1

Candidate Starts for Darby\_62:

(Start: 1 @44386 has 12 MA's), (8, 44455), (15, 44518), (17, 44569),

Gene: DevitoJr\_63 Start: 44772, Stop: 45086, Start Num: 1

Candidate Starts for DevitoJr\_63:

(Start: 1 @44772 has 12 MA's), (8, 44841), (15, 44904), (17, 44955),

Gene: Egad\_66 Start: 42768, Stop: 43037, Start Num: 6

Candidate Starts for Egad\_66:

(3, 42735), (4, 42738), (Start: 6 @42768 has 1 MA's), (7, 42777), (22, 43011),

Gene: ElephantMan\_64 Start: 45229, Stop: 45540, Start Num: 2

Candidate Starts for ElephantMan\_64:

(Start: 2 @45229 has 4 MA's), (8, 45295), (10, 45319), (15, 45358), (16, 45382),

Gene: Giantsbane\_67 Start: 43961, Stop: 44245, Start Num: 5

Candidate Starts for Giantsbane\_67:

(Start: 5 @43961 has 8 MA's), (8, 44000), (14, 44051), (21, 44204),

Gene: Gordon\_61 Start: 45264, Stop: 45578, Start Num: 1

Candidate Starts for Gordon\_61:

(Start: 1 @45264 has 12 MA's), (8, 45333), (15, 45396), (17, 45447),

Gene: Inked\_69 Start: 45815, Stop: 46129, Start Num: 2

Candidate Starts for Inked\_69:

(Start: 2 @45815 has 4 MA's), (8, 45884), (14, 45935), (21, 46088),

Gene: Issa\_64 Start: 44432, Stop: 44746, Start Num: 1

Candidate Starts for Issa\_64:

(Start: 1 @44432 has 12 MA's), (8, 44501), (16, 44588), (17, 44615), (18, 44633),

Gene: LilHuddy\_68 Start: 45074, Stop: 45361, Start Num: 5

Candidate Starts for LilHuddy\_68:

(Start: 5 @45074 has 8 MA's), (8, 45113), (13, 45164), (14, 45167), (18, 45248), (21, 45320),

Gene: Makai\_67 Start: 45228, Stop: 45506, Start Num: 5

Candidate Starts for Makai\_67:

(Start: 5 @45228 has 8 MA's), (8, 45267), (13, 45312), (21, 45465),

Gene: MediumFry\_64 Start: 44564, Stop: 44842, Start Num: 5

Candidate Starts for MediumFry\_64:

(Start: 5 @44564 has 8 MA's), (8, 44603), (9, 44609), (11, 44636), (21, 44801),

Gene: MiniBagel\_61 Start: 45328, Stop: 45642, Start Num: 1

Candidate Starts for MiniBagel\_61:

(Start: 1 @45328 has 12 MA's), (8, 45397), (16, 45484), (17, 45511),

Gene: Nightmare\_65 Start: 45626, Stop: 45940, Start Num: 1

Candidate Starts for Nightmare\_65:

(Start: 1 @45626 has 12 MA's), (8, 45695), (12, 45740), (15, 45758), (17, 45809),

Gene: Niktson\_64 Start: 45229, Stop: 45540, Start Num: 2

Candidate Starts for Niktson\_64:

(Start: 2 @45229 has 4 MA's), (8, 45295), (10, 45319), (15, 45358), (16, 45382),

Gene: Nivinsha\_66 Start: 44576, Stop: 44890, Start Num: 1

Candidate Starts for Nivinsha\_66:

(Start: 1 @44576 has 12 MA's), (8, 44645), (15, 44708), (17, 44759),

Gene: Phaby\_68 Start: 45674, Stop: 45922, Start Num: 8  
Candidate Starts for Phaby\_68:  
(Start: 5 @45635 has 8 MA's), (8, 45674), (10, 45701), (14, 45728), (21, 45881),

Gene: ProfFrink\_67 Start: 42737, Stop: 43036, Start Num: 4  
Candidate Starts for ProfFrink\_67:  
(3, 42734), (4, 42737), (Start: 6 @42767 has 1 MA's), (7, 42776), (22, 43010),

Gene: ScienceWizSam\_64 Start: 44738, Stop: 45052, Start Num: 1  
Candidate Starts for ScienceWizSam\_64:  
(Start: 1 @44738 has 12 MA's), (8, 44807), (15, 44870), (17, 44921),

Gene: Shepard\_69 Start: 44933, Stop: 45220, Start Num: 5  
Candidate Starts for Shepard\_69:  
(Start: 5 @44933 has 8 MA's), (8, 44972), (13, 45023), (16, 45062), (18, 45107), (20, 45152), (21, 45179),

Gene: Synopsis\_62 Start: 44739, Stop: 45053, Start Num: 1  
Candidate Starts for Synopsis\_62:  
(Start: 1 @44739 has 12 MA's), (8, 44808), (15, 44871), (17, 44922),

Gene: Tatanka\_59 Start: 44875, Stop: 45189, Start Num: 1  
Candidate Starts for Tatanka\_59:  
(Start: 1 @44875 has 12 MA's), (8, 44944), (15, 45007), (17, 45058),

Gene: Teacup\_65 Start: 45308, Stop: 45619, Start Num: 2  
Candidate Starts for Teacup\_65:  
(Start: 2 @45308 has 4 MA's), (8, 45374), (10, 45398), (15, 45437), (16, 45461),

Gene: Tenno\_64 Start: 45392, Stop: 45706, Start Num: 1  
Candidate Starts for Tenno\_64:  
(Start: 1 @45392 has 12 MA's), (8, 45461), (16, 45548), (17, 45575),

Gene: Tokki\_73 Start: 45503, Stop: 45790, Start Num: 5  
Candidate Starts for Tokki\_73:  
(Start: 5 @45503 has 8 MA's), (8, 45542), (13, 45593), (18, 45677), (21, 45749),

Gene: Truckee\_65 Start: 45012, Stop: 45290, Start Num: 5  
Candidate Starts for Truckee\_65:  
(Start: 5 @45012 has 8 MA's), (8, 45051), (13, 45096), (21, 45249),

Gene: Trustiboi\_63 Start: 44994, Stop: 45308, Start Num: 1  
Candidate Starts for Trustiboi\_63:  
(Start: 1 @44994 has 12 MA's), (8, 45063), (12, 45108), (15, 45126), (17, 45177),