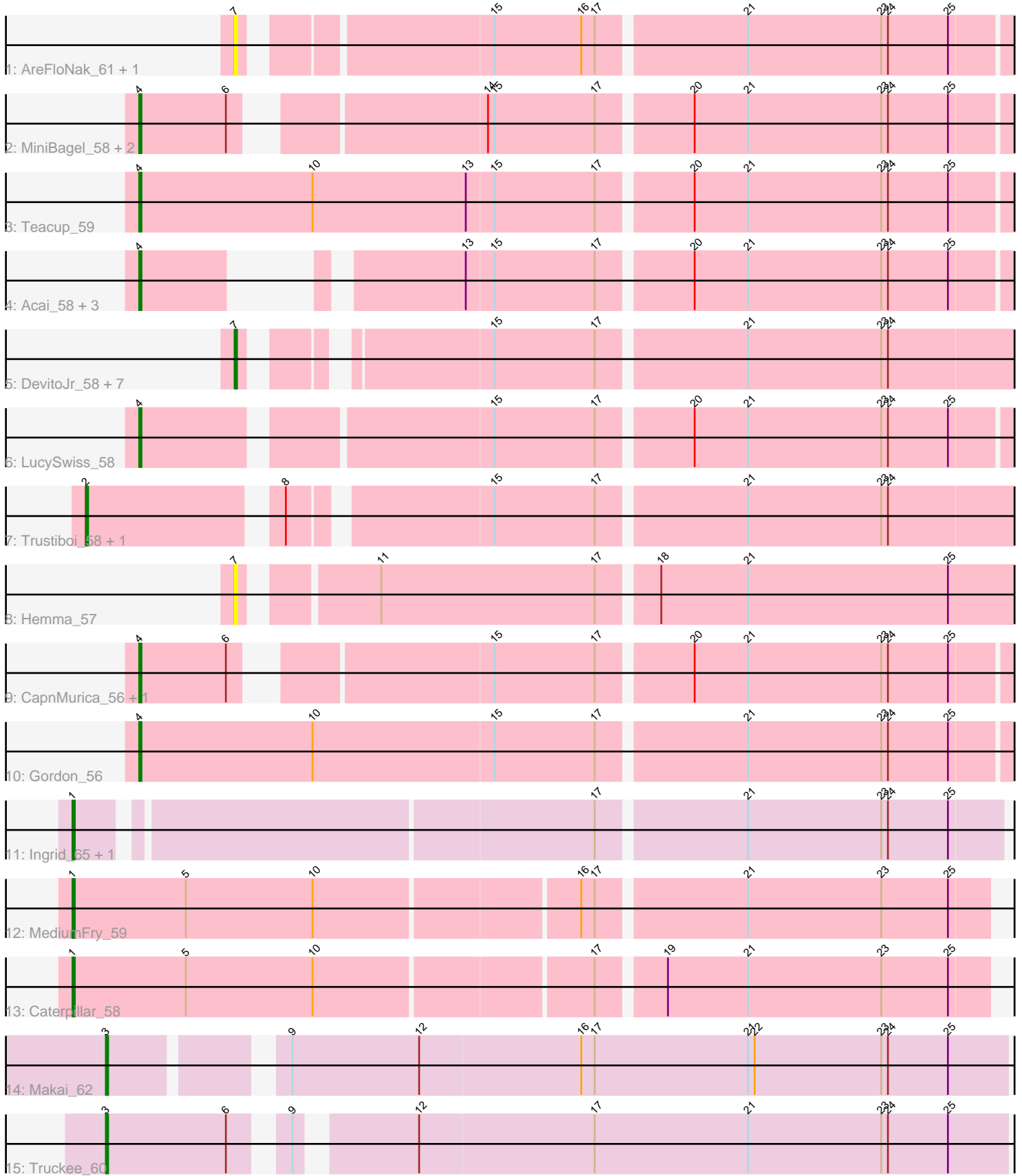


# Pham 301615



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 301615 Report

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

Pham number 301615 has 31 members, 6 are drafts.

Phages represented in each track:

- Track 1 : AreFloNak\_61, Nivinsha\_60
- Track 2 : MiniBagel\_58, Issa\_57, Dinallo\_57
- Track 3 : Teacup\_59
- Track 4 : Acai\_58, Niktson\_58, ElephantMan\_58, Brunswick\_59
- Track 5 : DevitoJr\_58, Breylor17\_58, CastorTray\_62, Westerlin\_58, Tatanka\_55, Nightmare\_60, Synepsis\_57, Darby\_57
- Track 6 : LucySwiss\_58
- Track 7 : Trustiboi\_58, ScienceWizSam\_59
- Track 8 : Hemma\_57
- Track 9 : CapnMurica\_56, Tenno\_59
- Track 10 : Gordon\_56
- Track 11 : Ingrid\_65, Loretta\_62
- Track 12 : MediumFry\_59
- Track 13 : Caterpillar\_58
- Track 14 : Makai\_62
- Track 15 : Truckee\_60

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

The start number called the most often in the published annotations is 4, it was called in 10 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acai\_58, Brunswick\_59, CapnMurica\_56, Dinallo\_57, ElephantMan\_58, Gordon\_56, Issa\_57, LucySwiss\_58, MiniBagel\_58, Niktson\_58, Teacup\_59, Tenno\_59,

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

- 

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

- AreFloNak\_61, Breylor17\_58, CastorTray\_62, Caterpillar\_58, Darby\_57, DevitoJr\_58, Hemma\_57, Ingrid\_65, Loretta\_62, Makai\_62, MediumFry\_59, Nightmare\_60, Nivinsha\_60, ScienceWizSam\_59, Synepsis\_57, Tatanka\_55, Truckee\_60, Trustiboi\_58, Westerlin\_58,

## Summary by start number:

### Start 1:

- Found in 4 of 31 ( 12.9% ) 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: Caterpillar\_58 (AU4), Ingrid\_65 (AU3), Loretta\_62 (AU3), MediumFry\_59 (AU4),

### Start 2:

- Found in 2 of 31 ( 6.5% ) of genes in pham
- Manual Annotations of this start: 2 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ScienceWizSam\_59 (AU1), Trustiboi\_58 (AU1),

### Start 3:

- Found in 2 of 31 ( 6.5% ) of genes in pham
- Manual Annotations of this start: 2 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Makai\_62 (AU5), Truckee\_60 (AU5),

### Start 4:

- Found in 12 of 31 ( 38.7% ) of genes in pham
- Manual Annotations of this start: 10 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acai\_58 (AU1), Brunswick\_59 (AU1), CapnMurica\_56 (AU1), Dinallo\_57 (AU1), ElephantMan\_58 (AU1), Gordon\_56 (AU1), Issa\_57 (AU1), LucySwiss\_58 (AU1), MiniBagel\_58 (AU1), Niktson\_58 (AU1), Teacup\_59 (AU1), Tenno\_59 (AU1),

### Start 7:

- Found in 11 of 31 ( 35.5% ) of genes in pham
- Manual Annotations of this start: 7 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AreFloNak\_61 (AU1), Breylor17\_58 (AU1), CastorTray\_62 (AU1), Darby\_57 (AU1), DevitoJr\_58 (AU1), Hemma\_57 (AU1), Nightmare\_60 (AU1), Nivinsha\_60 (AU1), Synepsis\_57 (AU1), Tatanka\_55 (AU1), Westerlin\_58 (AU1),

## Summary by clusters:

There are 4 clusters represented in this pham: AU1, AU3, AU5, AU4,

### Info for manual annotations of cluster AU1:

- Start number 2 was manually annotated 2 times for cluster AU1.
- Start number 4 was manually annotated 10 times for cluster AU1.
- Start number 7 was manually annotated 7 times for cluster AU1.

### Info for manual annotations of cluster AU3:

- Start number 1 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU4:

- Start number 1 was manually annotated 2 times for cluster AU4.

Info for manual annotations of cluster AU5:

- Start number 3 was manually annotated 2 times for cluster AU5.

### **Gene Information:**

Gene: Acai\_58 Start: 42880, Stop: 43212, Start Num: 4

Candidate Starts for Acai\_58:

(Start: 4 @42880 has 10 MA's), (13, 42976), (15, 42988), (17, 43033), (20, 43072), (21, 43096), (23, 43156), (24, 43159), (25, 43186),

Gene: AreFloNak\_61 Start: 42859, Stop: 43182, Start Num: 7

Candidate Starts for AreFloNak\_61:

(Start: 7 @42859 has 7 MA's), (15, 42958), (16, 42997), (17, 43003), (21, 43066), (23, 43126), (24, 43129), (25, 43156),

Gene: Breylor17\_58 Start: 43432, Stop: 43758, Start Num: 7

Candidate Starts for Breylor17\_58:

(Start: 7 @43432 has 7 MA's), (15, 43531), (17, 43576), (21, 43639), (23, 43699), (24, 43702),

Gene: Brunswick\_59 Start: 42729, Stop: 43055, Start Num: 4

Candidate Starts for Brunswick\_59:

(Start: 4 @42729 has 10 MA's), (13, 42819), (15, 42831), (17, 42876), (20, 42915), (21, 42939), (23, 42999), (24, 43002), (25, 43029),

Gene: CapnMurica\_56 Start: 43585, Stop: 43947, Start Num: 4

Candidate Starts for CapnMurica\_56:

(Start: 4 @43585 has 10 MA's), (6, 43624), (15, 43723), (17, 43768), (20, 43807), (21, 43831), (23, 43891), (24, 43894), (25, 43921),

Gene: CastorTray\_62 Start: 43620, Stop: 43946, Start Num: 7

Candidate Starts for CastorTray\_62:

(Start: 7 @43620 has 7 MA's), (15, 43719), (17, 43764), (21, 43827), (23, 43887), (24, 43890),

Gene: Caterpillar\_58 Start: 42467, Stop: 42865, Start Num: 1

Candidate Starts for Caterpillar\_58:

(Start: 1 @42467 has 4 MA's), (5, 42518), (10, 42575), (17, 42695), (19, 42722), (21, 42758), (23, 42818), (25, 42848),

Gene: Darby\_57 Start: 42676, Stop: 42993, Start Num: 7

Candidate Starts for Darby\_57:

(Start: 7 @42676 has 7 MA's), (15, 42766), (17, 42811), (21, 42874), (23, 42934), (24, 42937),

Gene: DevitoJr\_58 Start: 43062, Stop: 43379, Start Num: 7

Candidate Starts for DevitoJr\_58:

(Start: 7 @43062 has 7 MA's), (15, 43152), (17, 43197), (21, 43260), (23, 43320), (24, 43323),

Gene: Dinallo\_57 Start: 43894, Stop: 44256, Start Num: 4

Candidate Starts for Dinallo\_57:

(Start: 4 @43894 has 10 MA's), (6, 43933), (14, 44029), (15, 44032), (17, 44077), (20, 44116), (21, 44140), (23, 44200), (24, 44203), (25, 44230),

Gene: ElephantMan\_58 Start: 43359, Stop: 43685, Start Num: 4

Candidate Starts for ElephantMan\_58:

(Start: 4 @43359 has 10 MA's), (13, 43449), (15, 43461), (17, 43506), (20, 43545), (21, 43569), (23, 43629), (24, 43632), (25, 43659),

Gene: Gordon\_56 Start: 43483, Stop: 43866, Start Num: 4

Candidate Starts for Gordon\_56:

(Start: 4 @43483 has 10 MA's), (10, 43561), (15, 43642), (17, 43687), (21, 43750), (23, 43810), (24, 43813), (25, 43840),

Gene: Hemma\_57 Start: 40112, Stop: 40447, Start Num: 7

Candidate Starts for Hemma\_57:

(Start: 7 @40112 has 7 MA's), (11, 40163), (17, 40259), (18, 40283), (21, 40322), (25, 40412),

Gene: Ingrid\_65 Start: 43339, Stop: 43734, Start Num: 1

Candidate Starts for Ingrid\_65:

(Start: 1 @43339 has 4 MA's), (17, 43558), (21, 43621), (23, 43681), (24, 43684), (25, 43711),

Gene: Issa\_57 Start: 42679, Stop: 43041, Start Num: 4

Candidate Starts for Issa\_57:

(Start: 4 @42679 has 10 MA's), (6, 42718), (14, 42814), (15, 42817), (17, 42862), (20, 42901), (21, 42925), (23, 42985), (24, 42988), (25, 43015),

Gene: Loretta\_62 Start: 43339, Stop: 43734, Start Num: 1

Candidate Starts for Loretta\_62:

(Start: 1 @43339 has 4 MA's), (17, 43558), (21, 43621), (23, 43681), (24, 43684), (25, 43711),

Gene: LucySwiss\_58 Start: 42467, Stop: 42835, Start Num: 4

Candidate Starts for LucySwiss\_58:

(Start: 4 @42467 has 10 MA's), (15, 42611), (17, 42656), (20, 42695), (21, 42719), (23, 42779), (24, 42782), (25, 42809),

Gene: Makai\_62 Start: 43423, Stop: 43809, Start Num: 3

Candidate Starts for Makai\_62:

(Start: 3 @43423 has 2 MA's), (9, 43489), (12, 43546), (16, 43618), (17, 43624), (21, 43693), (22, 43696), (23, 43753), (24, 43756), (25, 43783),

Gene: MediumFry\_59 Start: 42756, Stop: 43154, Start Num: 1

Candidate Starts for MediumFry\_59:

(Start: 1 @42756 has 4 MA's), (5, 42807), (10, 42864), (16, 42978), (17, 42984), (21, 43047), (23, 43107), (25, 43137),

Gene: MiniBagel\_58 Start: 43567, Stop: 43929, Start Num: 4

Candidate Starts for MiniBagel\_58:

(Start: 4 @43567 has 10 MA's), (6, 43606), (14, 43702), (15, 43705), (17, 43750), (20, 43789), (21, 43813), (23, 43873), (24, 43876), (25, 43903),

Gene: Nightmare\_60 Start: 43904, Stop: 44227, Start Num: 7

Candidate Starts for Nightmare\_60:

(Start: 7 @43904 has 7 MA's), (15, 44003), (17, 44048), (21, 44111), (23, 44171), (24, 44174),

Gene: Niktson\_58 Start: 43359, Stop: 43685, Start Num: 4

Candidate Starts for Niktson\_58:

(Start: 4 @43359 has 10 MA's), (13, 43449), (15, 43461), (17, 43506), (20, 43545), (21, 43569), (23, 43629), (24, 43632), (25, 43659),

Gene: Nivinsha\_60 Start: 42859, Stop: 43182, Start Num: 7

Candidate Starts for Nivinsha\_60:

(Start: 7 @42859 has 7 MA's), (15, 42958), (16, 42997), (17, 43003), (21, 43066), (23, 43126), (24, 43129), (25, 43156),

Gene: ScienceWizSam\_59 Start: 42958, Stop: 43344, Start Num: 2

Candidate Starts for ScienceWizSam\_59:

(Start: 2 @42958 has 2 MA's), (8, 43036), (15, 43117), (17, 43162), (21, 43225), (23, 43285), (24, 43288),

Gene: Synopsis\_57 Start: 43026, Stop: 43349, Start Num: 7

Candidate Starts for Synopsis\_57:

(Start: 7 @43026 has 7 MA's), (15, 43125), (17, 43170), (21, 43233), (23, 43293), (24, 43296),

Gene: Tatanka\_55 Start: 43155, Stop: 43481, Start Num: 7

Candidate Starts for Tatanka\_55:

(Start: 7 @43155 has 7 MA's), (15, 43254), (17, 43299), (21, 43362), (23, 43422), (24, 43425),

Gene: Teacup\_59 Start: 43381, Stop: 43764, Start Num: 4

Candidate Starts for Teacup\_59:

(Start: 4 @43381 has 10 MA's), (10, 43459), (13, 43528), (15, 43540), (17, 43585), (20, 43624), (21, 43648), (23, 43708), (24, 43711), (25, 43738),

Gene: Tenno\_59 Start: 43640, Stop: 44002, Start Num: 4

Candidate Starts for Tenno\_59:

(Start: 4 @43640 has 10 MA's), (6, 43679), (15, 43778), (17, 43823), (20, 43862), (21, 43886), (23, 43946), (24, 43949), (25, 43976),

Gene: Truckee\_60 Start: 43213, Stop: 43593, Start Num: 3

Candidate Starts for Truckee\_60:

(Start: 3 @43213 has 2 MA's), (6, 43267), (9, 43285), (12, 43330), (17, 43408), (21, 43477), (23, 43537), (24, 43540), (25, 43567),

Gene: Trustiboi\_58 Start: 43218, Stop: 43604, Start Num: 2

Candidate Starts for Trustiboi\_58:

(Start: 2 @43218 has 2 MA's), (8, 43296), (15, 43377), (17, 43422), (21, 43485), (23, 43545), (24, 43548),

Gene: Westerlin\_58 Start: 44358, Stop: 44684, Start Num: 7

Candidate Starts for Westerlin\_58:

(Start: 7 @44358 has 7 MA's), (15, 44457), (17, 44502), (21, 44565), (23, 44625), (24, 44628),