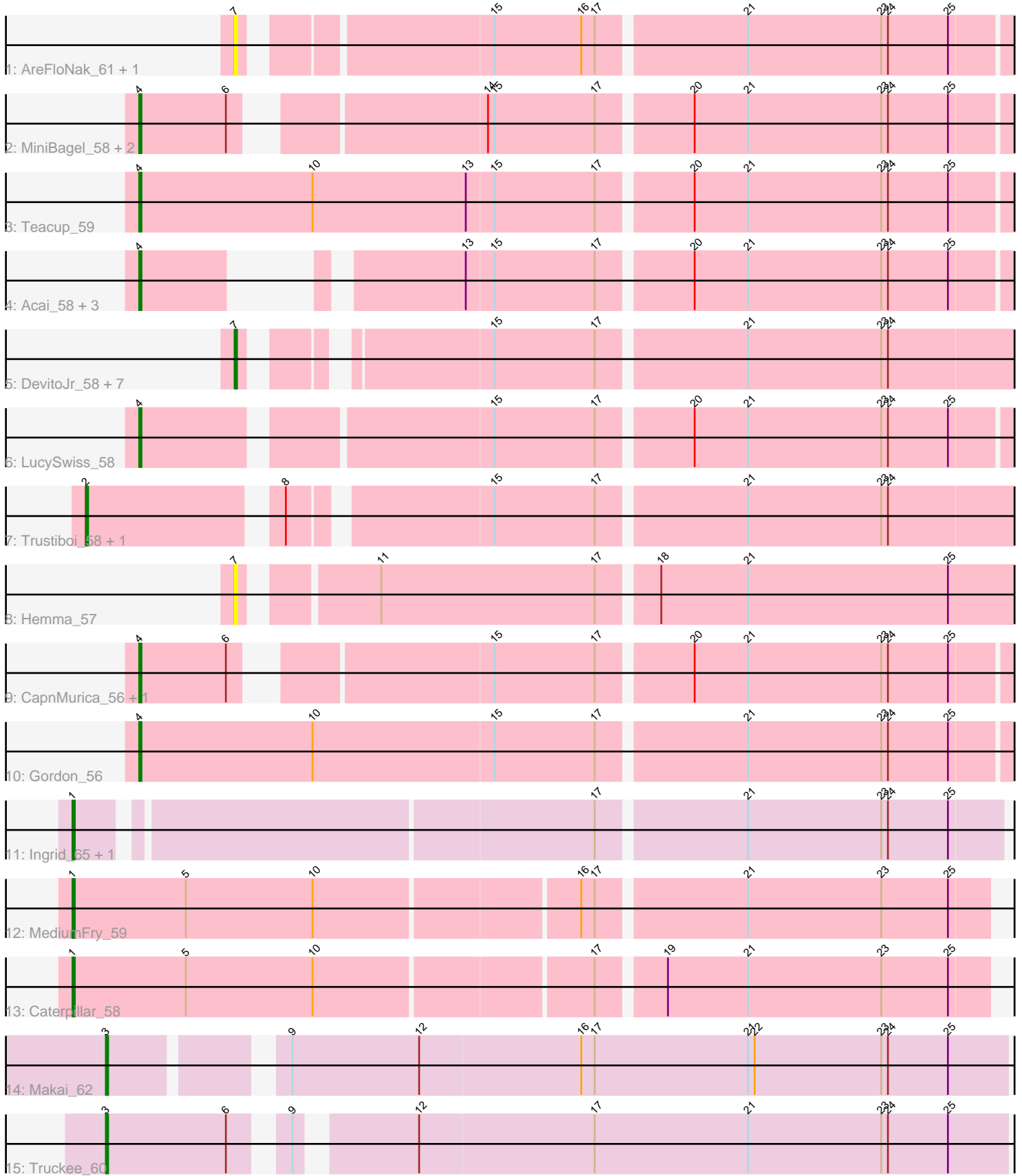


Pham 294961



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 294961 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294961 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, Synopsis_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, Synopsis_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), Synopsis_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),