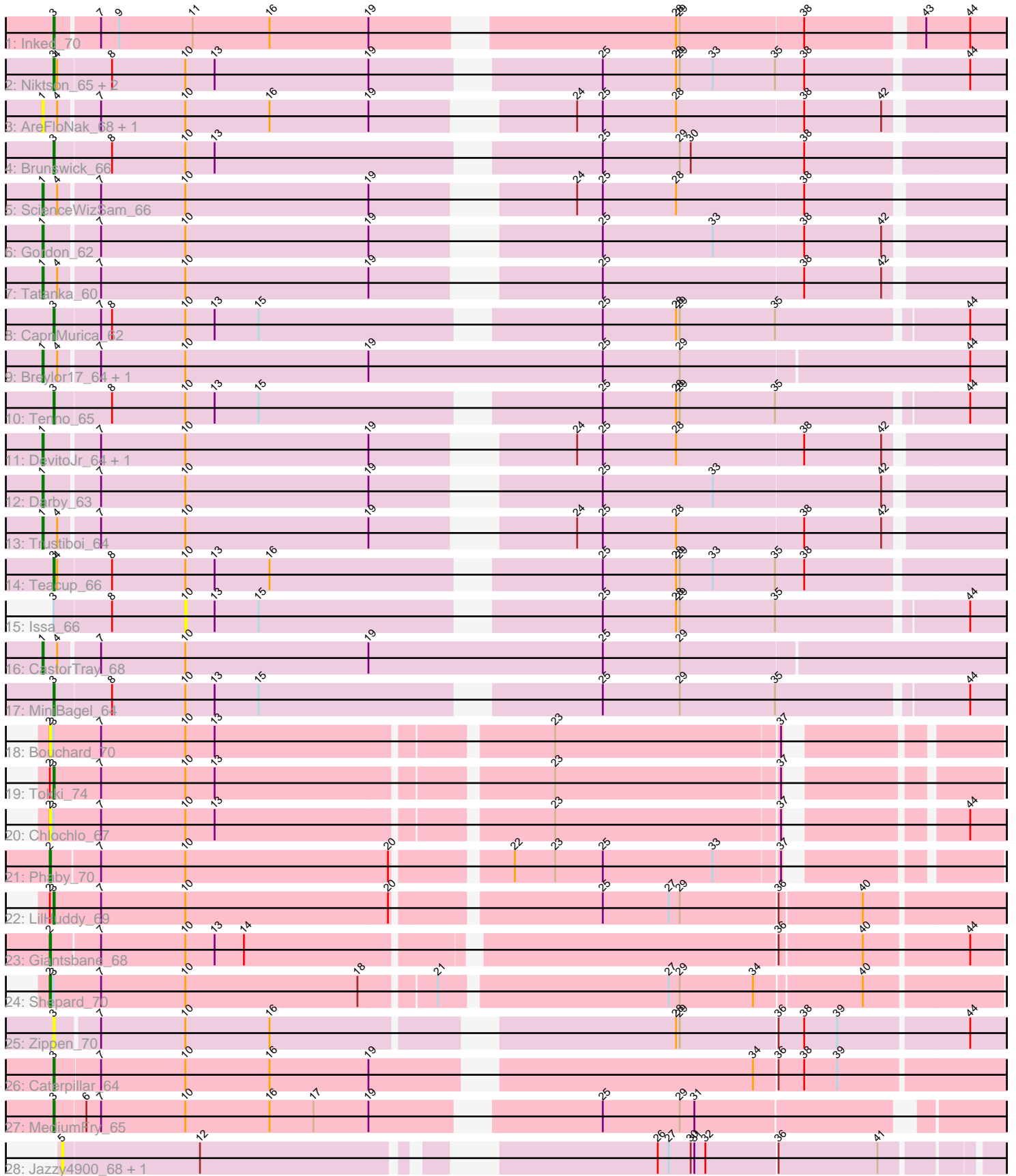


Pham 219943



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 219943 Report

This analysis was run 03/28/25 on database version 593.

Pham number 219943 has 34 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Inked_70
- Track 2 : Niktson_65, ElephantMan_65, Acai_65
- Track 3 : AreFloNak_68, Nivinsha_68
- Track 4 : Brunswick_66
- Track 5 : ScienceWizSam_66
- Track 6 : Gordon_62
- Track 7 : Tatanka_60
- Track 8 : CapnMurica_62
- Track 9 : Breylor17_64, Nightmare_66
- Track 10 : Tenno_65
- Track 11 : DevitoJr_64, Synepsis_63
- Track 12 : Darby_63
- Track 13 : Trustiboi_64
- Track 14 : Teacup_66
- Track 15 : Issa_66
- Track 16 : CastorTray_68
- Track 17 : MiniBagel_64
- Track 18 : Bouchard_70
- Track 19 : Tokki_74
- Track 20 : Chlochlo_67
- Track 21 : Phaby_70
- Track 22 : LilHuddy_69
- Track 23 : Giantsbane_68
- Track 24 : Shepard_70
- Track 25 : Zippen_70
- Track 26 : Caterpillar_64
- Track 27 : MediumFry_65
- Track 28 : Jazzy4900_68, Sunny4976_67

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

Genes that call this "Most Annotated" start:

- Acai_65, Brunswick_66, CapnMurica_62, Caterpillar_64, ElephantMan_65, Inked_70, LilHuddy_69, MediumFry_65, MiniBagel_64, Niktson_65, Teacup_66, Tenno_65, Tokki_74, Zippen_70,

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

- Bouchard_70, Chlochlo_67, Issa_66, Shepard_70,

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

- AreFloNak_68, Breylor17_64, CastorTray_68, Darby_63, DevitoJr_64, Giantsbane_68, Gordon_62, Jazzy4900_68, Nightmare_66, Nivinsha_68, Phaby_70, ScienceWizSam_66, Sunny4976_67, Synepsis_63, Tatanka_60, Trustiboi_64,

Summary by start number:

Start 1:

- Found in 12 of 34 (35.3%) 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: AreFloNak_68 (AU1), Breylor17_64 (AU1), CastorTray_68 (AU1), Darby_63 (AU1), DevitoJr_64 (AU1), Gordon_62 (AU1), Nightmare_66 (AU1), Nivinsha_68 (AU1), ScienceWizSam_66 (AU1), Synepsis_63 (AU1), Tatanka_60 (AU1), Trustiboi_64 (AU1),

Start 2:

- Found in 7 of 34 (20.6%) of genes in pham
- Manual Annotations of this start: 3 of 25
- Called 71.4% of time when present
- Phage (with cluster) where this start called: Bouchard_70 (AU2), Chlochlo_67 (AU2), Giantsbane_68 (AU2), Phaby_70 (AU2), Shepard_70 (AU2),

Start 3:

- Found in 18 of 34 (52.9%) of genes in pham
- Manual Annotations of this start: 12 of 25
- Called 77.8% of time when present
- Phage (with cluster) where this start called: Acai_65 (AU1), Brunswick_66 (AU1), CapnMurica_62 (AU1), Caterpillar_64 (AU4), ElephantMan_65 (AU1), Inked_70 (AU), LilHuddy_69 (AU2), MediumFry_65 (AU4), MiniBagel_64 (AU1), Niktson_65 (AU1), Teacup_66 (AU1), Tenno_65 (AU1), Tokki_74 (AU2), Zippen_70 (AU3),

Start 5:

- Found in 2 of 34 (5.9%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jazzy4900_68 (FI), Sunny4976_67 (FI),

Start 10:

- Found in 31 of 34 (91.2%) of genes in pham
- No Manual Annotations of this start.
- Called 3.2% of time when present
- Phage (with cluster) where this start called: Issa_66 (AU1),

Summary by clusters:

There are 6 clusters represented in this pham: AU1, AU3, AU2, AU, AU4, FI,

Info for manual annotations of cluster AU:

- Start number 3 was manually annotated 1 time for cluster AU.

Info for manual annotations of cluster AU1:

- Start number 1 was manually annotated 10 times for cluster AU1.
- Start number 3 was manually annotated 7 times for cluster AU1.

Info for manual annotations of cluster AU2:

- Start number 2 was manually annotated 3 times for cluster AU2.
- Start number 3 was manually annotated 2 times for cluster AU2.

Info for manual annotations of cluster AU4:

- Start number 3 was manually annotated 2 times for cluster AU4.

Gene Information:

Gene: Acai_65 Start: 45068, Stop: 45805, Start Num: 3

Candidate Starts for Acai_65:

(Start: 3 @45068 has 12 MA's), (4, 45071), (8, 45113), (10, 45173), (13, 45197), (19, 45323), (25, 45482), (28, 45542), (29, 45545), (33, 45572), (35, 45623), (38, 45647), (44, 45773),

Gene: AreFloNak_68 Start: 45124, Stop: 45852, Start Num: 1

Candidate Starts for AreFloNak_68:

(Start: 1 @45124 has 10 MA's), (4, 45136), (7, 45166), (10, 45235), (16, 45304), (19, 45385), (24, 45514), (25, 45535), (28, 45595), (38, 45697), (42, 45760),

Gene: Bouchard_70 Start: 45735, Stop: 46451, Start Num: 2

Candidate Starts for Bouchard_70:

(Start: 2 @45735 has 3 MA's), (Start: 3 @45738 has 12 MA's), (7, 45777), (10, 45846), (13, 45870), (23, 46125), (37, 46305),

Gene: Breylor17_64 Start: 45466, Stop: 46245, Start Num: 1

Candidate Starts for Breylor17_64:

(Start: 1 @45466 has 10 MA's), (4, 45478), (7, 45508), (10, 45577), (19, 45727), (25, 45919), (29, 45982), (44, 46213),

Gene: Brunswick_66 Start: 44911, Stop: 45648, Start Num: 3

Candidate Starts for Brunswick_66:

(Start: 3 @44911 has 12 MA's), (8, 44956), (10, 45016), (13, 45040), (25, 45325), (29, 45388), (30, 45397), (38, 45490),

Gene: CapnMurica_62 Start: 45652, Stop: 46386, Start Num: 3

Candidate Starts for CapnMurica_62:

(Start: 3 @45652 has 12 MA's), (7, 45688), (8, 45697), (10, 45757), (13, 45781), (15, 45817), (25, 46066), (28, 46126), (29, 46129), (35, 46207), (44, 46354),

Gene: CastorTray_68 Start: 45655, Stop: 46434, Start Num: 1

Candidate Starts for CastorTray_68:

(Start: 1 @45655 has 10 MA's), (4, 45667), (7, 45697), (10, 45766), (19, 45916), (25, 46108), (29, 46171),

Gene: Caterpillar_64 Start: 44546, Stop: 45283, Start Num: 3

Candidate Starts for Caterpillar_64:

(Start: 3 @44546 has 12 MA's), (7, 44582), (10, 44651), (16, 44720), (19, 44801), (34, 45083), (36, 45101), (38, 45122), (39, 45149),

Gene: Chlochlo_67 Start: 45262, Stop: 45984, Start Num: 2

Candidate Starts for Chlochlo_67:

(Start: 2 @45262 has 3 MA's), (Start: 3 @45265 has 12 MA's), (7, 45304), (10, 45373), (13, 45397), (23, 45652), (37, 45832), (44, 45952),

Gene: Darby_63 Start: 44701, Stop: 45429, Start Num: 1

Candidate Starts for Darby_63:

(Start: 1 @44701 has 10 MA's), (7, 44743), (10, 44812), (19, 44962), (25, 45112), (33, 45202), (42, 45337),

Gene: DevitoJr_64 Start: 45087, Stop: 45815, Start Num: 1

Candidate Starts for DevitoJr_64:

(Start: 1 @45087 has 10 MA's), (7, 45129), (10, 45198), (19, 45348), (24, 45477), (25, 45498), (28, 45558), (38, 45660), (42, 45723),

Gene: ElephantMan_65 Start: 45541, Stop: 46278, Start Num: 3

Candidate Starts for ElephantMan_65:

(Start: 3 @45541 has 12 MA's), (4, 45544), (8, 45586), (10, 45646), (13, 45670), (19, 45796), (25, 45955), (28, 46015), (29, 46018), (33, 46045), (35, 46096), (38, 46120), (44, 46246),

Gene: Giantsbane_68 Start: 44242, Stop: 44979, Start Num: 2

Candidate Starts for Giantsbane_68:

(Start: 2 @44242 has 3 MA's), (7, 44281), (10, 44350), (13, 44374), (14, 44398), (36, 44806), (40, 44872), (44, 44953),

Gene: Gordon_62 Start: 45579, Stop: 46307, Start Num: 1

Candidate Starts for Gordon_62:

(Start: 1 @45579 has 10 MA's), (7, 45621), (10, 45690), (19, 45840), (25, 45990), (33, 46080), (38, 46152), (42, 46215),

Gene: Inked_70 Start: 46130, Stop: 46858, Start Num: 3

Candidate Starts for Inked_70:

(Start: 3 @46130 has 12 MA's), (7, 46163), (9, 46178), (11, 46238), (16, 46301), (19, 46382), (28, 46601), (29, 46604), (38, 46703), (43, 46790), (44, 46826),

Gene: Issa_66 Start: 44852, Stop: 45481, Start Num: 10

Candidate Starts for Issa_66:

(Start: 3 @44747 has 12 MA's), (8, 44792), (10, 44852), (13, 44876), (15, 44912), (25, 45161), (28, 45221), (29, 45224), (35, 45302), (44, 45449),

Gene: Jazzy4900_68 Start: 45796, Stop: 46485, Start Num: 5

Candidate Starts for Jazzy4900_68:

(5, 45796), (12, 45907), (26, 46219), (27, 46228), (30, 46246), (31, 46249), (32, 46258), (36, 46315), (41, 46396),

Gene: LilHuddy_69 Start: 45361, Stop: 46110, Start Num: 3

Candidate Starts for LilHuddy_69:

(Start: 2 @45358 has 3 MA's), (Start: 3 @45361 has 12 MA's), (7, 45400), (10, 45469), (20, 45634), (25, 45790), (27, 45844), (29, 45853), (36, 45931), (40, 45997),

Gene: MediumFry_65 Start: 44842, Stop: 45561, Start Num: 3

Candidate Starts for MediumFry_65:

(Start: 3 @44842 has 12 MA's), (6, 44866), (7, 44878), (10, 44947), (16, 45016), (17, 45052), (19, 45097), (25, 45256), (29, 45319), (31, 45331),

Gene: MiniBagel_64 Start: 45643, Stop: 46377, Start Num: 3

Candidate Starts for MiniBagel_64:

(Start: 3 @45643 has 12 MA's), (8, 45688), (10, 45748), (13, 45772), (15, 45808), (25, 46057), (29, 46120), (35, 46198), (44, 46345),

Gene: Nightmare_66 Start: 45941, Stop: 46720, Start Num: 1

Candidate Starts for Nightmare_66:

(Start: 1 @45941 has 10 MA's), (4, 45953), (7, 45983), (10, 46052), (19, 46202), (25, 46394), (29, 46457), (44, 46688),

Gene: Niktson_65 Start: 45541, Stop: 46278, Start Num: 3

Candidate Starts for Niktson_65:

(Start: 3 @45541 has 12 MA's), (4, 45544), (8, 45586), (10, 45646), (13, 45670), (19, 45796), (25, 45955), (28, 46015), (29, 46018), (33, 46045), (35, 46096), (38, 46120), (44, 46246),

Gene: Nivinsha_68 Start: 45124, Stop: 45852, Start Num: 1

Candidate Starts for Nivinsha_68:

(Start: 1 @45124 has 10 MA's), (4, 45136), (7, 45166), (10, 45235), (16, 45304), (19, 45385), (24, 45514), (25, 45535), (28, 45595), (38, 45697), (42, 45760),

Gene: Phaby_70 Start: 45919, Stop: 46635, Start Num: 2

Candidate Starts for Phaby_70:

(Start: 2 @45919 has 3 MA's), (7, 45958), (10, 46027), (20, 46192), (22, 46276), (23, 46309), (25, 46348), (33, 46438), (37, 46489),

Gene: ScienceWizSam_66 Start: 45286, Stop: 46014, Start Num: 1

Candidate Starts for ScienceWizSam_66:

(Start: 1 @45286 has 10 MA's), (4, 45298), (7, 45328), (10, 45397), (19, 45547), (24, 45676), (25, 45697), (28, 45757), (38, 45859),

Gene: Shepard_70 Start: 45217, Stop: 45960, Start Num: 2

Candidate Starts for Shepard_70:

(Start: 2 @45217 has 3 MA's), (Start: 3 @45220 has 12 MA's), (7, 45259), (10, 45328), (18, 45469), (21, 45523), (27, 45700), (29, 45709), (34, 45769), (40, 45853),

Gene: Sunny4976_67 Start: 45796, Stop: 46485, Start Num: 5

Candidate Starts for Sunny4976_67:

(5, 45796), (12, 45907), (26, 46219), (27, 46228), (30, 46246), (31, 46249), (32, 46258), (36, 46315), (41, 46396),

Gene: Synepsis_63 Start: 45054, Stop: 45782, Start Num: 1

Candidate Starts for Synepsis_63:

(Start: 1 @45054 has 10 MA's), (7, 45096), (10, 45165), (19, 45315), (24, 45444), (25, 45465), (28, 45525), (38, 45627), (42, 45690),

Gene: Tatanka_60 Start: 45190, Stop: 45918, Start Num: 1

Candidate Starts for Tatanka_60:

(Start: 1 @45190 has 10 MA's), (4, 45202), (7, 45232), (10, 45301), (19, 45451), (25, 45601), (38, 45763), (42, 45826),

Gene: Teacup_66 Start: 45620, Stop: 46357, Start Num: 3

Candidate Starts for Teacup_66:

(Start: 3 @45620 has 12 MA's), (4, 45623), (8, 45665), (10, 45725), (13, 45749), (16, 45794), (25, 46034), (28, 46094), (29, 46097), (33, 46124), (35, 46175), (38, 46199),

Gene: Tenno_65 Start: 45707, Stop: 46441, Start Num: 3

Candidate Starts for Tenno_65:

(Start: 3 @45707 has 12 MA's), (8, 45752), (10, 45812), (13, 45836), (15, 45872), (25, 46121), (28, 46181), (29, 46184), (35, 46262), (44, 46409),

Gene: Tokki_74 Start: 45790, Stop: 46503, Start Num: 3

Candidate Starts for Tokki_74:

(Start: 2 @45787 has 3 MA's), (Start: 3 @45790 has 12 MA's), (7, 45829), (10, 45898), (13, 45922), (23, 46177), (37, 46357),

Gene: Trustiboi_64 Start: 45309, Stop: 46037, Start Num: 1

Candidate Starts for Trustiboi_64:

(Start: 1 @45309 has 10 MA's), (4, 45321), (7, 45351), (10, 45420), (19, 45570), (24, 45699), (25, 45720), (28, 45780), (38, 45882), (42, 45945),

Gene: Zippen_70 Start: 46004, Stop: 46729, Start Num: 3

Candidate Starts for Zippen_70:

(Start: 3 @46004 has 12 MA's), (7, 46037), (10, 46106), (16, 46175), (28, 46466), (29, 46469), (36, 46547), (38, 46568), (39, 46595), (44, 46697),