Pham 283958

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 283958 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283958 has 42 members, 13 are drafts.

Phages represented in each track:
• Track 1 : RadFad_75, Vopal_72, Hillester_75
• Track 2 : Seahorse_75
• Track 3 : Sashimi_68
• Track 4 : GumGum_74
• Track 5 : ThayneTheZag_75
• Track 6 : Raqqa_66
• Track 7 : SonDevVon_77, Phrank15_73
• Track 8 : YoungHarleezy_69
• Track 9 : Raphaella_70, Windest_73, BenchScraper_70, Kabloowy_70, Richie_73, Mapleville_66, Lawnathon_72
• Track 10 : MurphyJoseph_67
• Track 11 : LeBruni_72
• Track 12 : BillyTP_71
• Track 13 : Persistence_64
• Track 14 : Lasker_71
• Track 15 : Faja_71
• Track 16 : SpicyFrank_73
• Track 17 : AdaS_67
• Track 18 : Satrap_71
• Track 19 : Hestia_62
• Track 20 : MidnightRain_73
• Track 21 : EvePickles_68
• Track 22 : AbbyDaisy_71
• Track 23 : Auxilium_67
• Track 24 : Globfish_71
• Track 25 : Kumotta_54, MargaretKali_50
• Track 26 : Alatato_53
• Track 27 : BrayBeast_54, Sarge_48
• Track 28 : BellaJr_62
• Track 29 : Cassini_66
• Track 30 : Khuang_49
• Track 31 : Altostratus_49

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

The start number called the most often in the published annotations is 24, it was called in 17 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AbbyDaisy_71, AdaS_67, BellaJr_62, BenchScraper_70, BillyTP_71, Faja_71, Globfish_71, Hestia_62, Kabloowy_70, Lawnathon_72, LeBruni_72, Mapleville_66, MurphyJoseph_67, Phrank15_73, Raphaella_70, Raqqa_66, Richie_73, Sashimi_68, Seahorse_75, SonDevVon_77, SpicyFrank_73, ThayneTheZag_75, Windest_73, YoungHarleezy_69,

Genes that have the "Most Annotated" start but do not call it:
• Cassini_66, Hillester_75, Lasker_71, MidnightRain_73, RadFad_75, Satrap_71, Vopal_72,

Genes that do not have the "Most Annotated" start:
• Alatato_53, Altostratus_49, Auxilium_67, BrayBeast_54, EvePickles_68, GumGum_74, Khuang_49, Kumotta_54, MargaretKali_50, Persistence_64, Sarge_48,

Summary by start number:

Start 20:
• Found in 2 of 42 (4.8%) of genes in pham
• Manual Annotations of this start: 1 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Altostratus_49 (FS), Khuang_49 (FS),

Start 22:
• Found in 4 of 42 (9.5%) of genes in pham
• No Manual Annotations of this start.
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Cassini_66 (FN), Lasker_71 (AY), Satrap_71 (AY),

Start 23:
• Found in 12 of 42 (28.6%) of genes in pham
• Manual Annotations of this start: 9 of 29
• Called 91.7% of time when present
• Phage (with cluster) where this start called: Auxilium_67 (AY), BrayBeast_54 (FB), GumGum_74 (AY), Hillester_75 (AY), Kumotta_54 (FB), MargaretKali_50 (FB), MidnightRain_73 (AY), Persistence_64 (AY), RadFad_75 (AY), Sarge_48 (FB), Vopal_72 (AY),

Start 24:
• Found in 31 of 42 (73.8%) of genes in pham
• Manual Annotations of this start: 17 of 29
• Called 77.4% of time when present
• Phage (with cluster) where this start called: AbbyDaisy_71 (AY), AdaS_67 (AY), BellaJr_62 (FN), BenchScraper_70 (AY), BillyTP_71 (AY), Faja_71 (AY), Globfish_71 (AY), Hestia_62 (AY), Kabloowy_70 (AY), Lawnathon_72 (AY), LeBruni_72 (AY), Mapleville_66 (AY), MurphyJoseph_67 (AY), Phrank15_73 (AY), Raphaella_70 (AY), Raqqa_66 (AY), Richie_73 (AY), Sashimi_68 (AY), Seahorse_75 (AY),

SonDevVon_77 (AY), SpicyFrank_73 (AY), ThayneTheZag_75 (AY), Windest_73 (AY), YoungHarleezy_69 (AY),

Start 25:
• Found in 1 of 42 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alatato_53 (FB),

Start 27:
• Found in 4 of 42 (9.5%) of genes in pham
• Manual Annotations of this start: 1 of 29
• Called 25.0% of time when present
• Phage (with cluster) where this start called: EvePickles_68 (AY),

Summary by clusters:

There are 4 clusters represented in this pham: AY, FB, FS, FN,

Info for manual annotations of cluster AY:
•Start number 23 was manually annotated 5 times for cluster AY.
•Start number 24 was manually annotated 17 times for cluster AY.
•Start number 27 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster FB:
•Start number 23 was manually annotated 4 times for cluster FB.
•Start number 25 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FS:
•Start number 20 was manually annotated 1 time for cluster FS.

Gene Information:
Gene: AbbyDaisy_71 Start: 38196, Stop: 38375, Start Num: 24
Candidate Starts for AbbyDaisy_71:
(Start: 24 @38196 has 17 MA's), (37, 38283),

Gene: AdaS_67 Start: 35491, Stop: 35688, Start Num: 24
Candidate Starts for AdaS_67:
(15, 35398), (Start: 24 @35491 has 17 MA's), (37, 35575), (40, 35596),

Gene: Alatato_53 Start: 31219, Stop: 31377, Start Num: 25
Candidate Starts for Alatato_53:
(8, 30967), (19, 31153), (Start: 25 @31219 has 1 MA's), (33, 31279), (41, 31315), (44, 31348),

Gene: Altostratus_49 Start: 29569, Stop: 29766, Start Num: 20
Candidate Starts for Altostratus_49:
(Start: 20 @29569 has 1 MA's), (26, 29596), (30, 29623), (34, 29656),

Gene: Auxilium_67 Start: 35324, Stop: 35491, Start Num: 23

Candidate Starts for Auxilium_67:
(21, 35312), (Start: 23 @35324 has 9 MA's), (Start: 27 @35339 has 1 MA's), (31, 35366), (33, 35393), (41, 35429), (44, 35462),

Gene: BellaJr_62 Start: 36280, Stop: 36459, Start Num: 24
Candidate Starts for BellaJr_62:
(Start: 24 @36280 has 17 MA's), (37, 36367),

Gene: BenchScraper_70 Start: 36878, Stop: 37075, Start Num: 24
Candidate Starts for BenchScraper_70:
(14, 36758), (15, 36785), (Start: 24 @36878 has 17 MA's), (37, 36962), (40, 36983),

Gene: BillyTP_71 Start: 38733, Stop: 38930, Start Num: 24
Candidate Starts for BillyTP_71:
(14, 38613), (15, 38640), (Start: 24 @38733 has 17 MA's), (37, 38817), (40, 38838), (43, 38871),

Gene: BrayBeast_54 Start: 31079, Stop: 31249, Start Num: 23
Candidate Starts for BrayBeast_54:
(Start: 23 @31079 has 9 MA's), (28, 31097), (33, 31145), (35, 31154), (41, 31181), (44, 31214),

Gene: Cassini_66 Start: 36948, Stop: 37136, Start Num: 22
Candidate Starts for Cassini_66:
(22, 36948), (Start: 24 @36960 has 17 MA's), (37, 37044), (40, 37065),

Gene: EvePickles_68 Start: 38201, Stop: 38353, Start Num: 27
Candidate Starts for EvePickles_68:
(2, 37781), (5, 37847), (7, 37880), (18, 38123), (Start: 23 @38186 has 9 MA's), (Start: 27 @38201 has 1 MA's), (29, 38213), (35, 38264), (41, 38291), (44, 38324),

Gene: Faja_71 Start: 38483, Stop: 38680, Start Num: 24
Candidate Starts for Faja_71:
(9, 38258), (14, 38363), (15, 38390), (Start: 24 @38483 has 17 MA's), (37, 38567), (40, 38588),

Gene: Globfish_71 Start: 37587, Stop: 37763, Start Num: 24
Candidate Starts for Globfish_71:
(14, 37467), (15, 37494), (Start: 24 @37587 has 17 MA's), (37, 37671), (39, 37686),

Gene: GumGum_74 Start: 38050, Stop: 38217, Start Num: 23
Candidate Starts for GumGum_74:
(21, 38038), (Start: 23 @38050 has 9 MA's), (Start: 27 @38065 has 1 MA's), (29, 38077), (35, 38128), (41, 38155), (44, 38188),

Gene: Hestia_62 Start: 34706, Stop: 34903, Start Num: 24
Candidate Starts for Hestia_62:
(11, 34511), (14, 34586), (15, 34613), (Start: 24 @34706 has 17 MA's), (37, 34790), (40, 34811),

Gene: Hillester_75 Start: 38659, Stop: 38826, Start Num: 23
Candidate Starts for Hillester_75:
(Start: 23 @38659 has 9 MA's), (Start: 24 @38668 has 17 MA's), (29, 38686), (33, 38728), (35, 38737), (41, 38764), (44, 38797),

Gene: Kabloowy_70 Start: 38057, Stop: 38233, Start Num: 24
Candidate Starts for Kabloowy_70:

(14, 37937), (15, 37964), (Start: 24 @38057 has 17 MA's), (37, 38141), (40, 38162),

Gene: Khuang_49 Start: 29765, Stop: 29962, Start Num: 20
Candidate Starts for Khuang_49:
(Start: 20 @29765 has 1 MA's), (26, 29792), (32, 29843), (44, 29930),

Gene: Kumotta_54 Start: 31812, Stop: 31997, Start Num: 23
Candidate Starts for Kumotta_54:
(10, 31620), (12, 31632), (16, 31725), (Start: 23 @31812 has 9 MA's), (38, 31908),

Gene: Lasker_71 Start: 38063, Stop: 38272, Start Num: 22
Candidate Starts for Lasker_71:
(22, 38063), (Start: 24 @38075 has 17 MA's), (37, 38159), (40, 38180), (44, 38219),

Gene: Lawnathon_72 Start: 37278, Stop: 37454, Start Num: 24
Candidate Starts for Lawnathon_72:
(14, 37158), (15, 37185), (Start: 24 @37278 has 17 MA's), (37, 37362), (40, 37383),

Gene: LeBruni_72 Start: 36986, Stop: 37165, Start Num: 24
Candidate Starts for LeBruni_72:
(Start: 24 @36986 has 17 MA's), (28, 37007), (37, 37073),

Gene: Mapleville_66 Start: 36597, Stop: 36773, Start Num: 24
Candidate Starts for Mapleville_66:
(14, 36477), (15, 36504), (Start: 24 @36597 has 17 MA's), (37, 36681), (40, 36702),

Gene: MargaretKali_50 Start: 30430, Stop: 30615, Start Num: 23
Candidate Starts for MargaretKali_50:
(10, 30238), (12, 30250), (16, 30343), (Start: 23 @30430 has 9 MA's), (38, 30526),

Gene: MidnightRain_73 Start: 38445, Stop: 38612, Start Num: 23
Candidate Starts for MidnightRain_73:
(Start: 23 @38445 has 9 MA's), (Start: 24 @38454 has 17 MA's), (29, 38472), (33, 38514), (41, 38550), (44, 38583),

Gene: MurphyJoseph_67 Start: 36356, Stop: 36532, Start Num: 24
Candidate Starts for MurphyJoseph_67:
(13, 36227), (15, 36263), (Start: 24 @36356 has 17 MA's), (37, 36440), (40, 36461),

Gene: Persistence_64 Start: 35999, Stop: 36166, Start Num: 23
Candidate Starts for Persistence_64:
(1, 35489), (3, 35600), (4, 35642), (6, 35663), (Start: 23 @35999 has 9 MA's), (Start: 27 @36014 has 1 MA's), (33, 36068), (35, 36077), (41, 36104), (44, 36137),

Gene: Phrank15_73 Start: 37855, Stop: 38034, Start Num: 24
Candidate Starts for Phrank15_73:
(Start: 24 @37855 has 17 MA's), (37, 37942),

Gene: RadFad_75 Start: 38659, Stop: 38826, Start Num: 23
Candidate Starts for RadFad_75:
(Start: 23 @38659 has 9 MA's), (Start: 24 @38668 has 17 MA's), (29, 38686), (33, 38728), (35, 38737), (41, 38764), (44, 38797),

Gene: Raphaella_70 Start: 36976, Stop: 37152, Start Num: 24
Candidate Starts for Raphaella_70:
(14, 36856), (15, 36883), (Start: 24 @36976 has 17 MA's), (37, 37060), (40, 37081),

Gene: Raqqa_66 Start: 35298, Stop: 35495, Start Num: 24
Candidate Starts for Raqqa_66:
(14, 35178), (15, 35205), (Start: 24 @35298 has 17 MA's), (37, 35382),

Gene: Richie_73 Start: 38781, Stop: 38957, Start Num: 24
Candidate Starts for Richie_73:
(14, 38661), (15, 38688), (Start: 24 @38781 has 17 MA's), (37, 38865), (40, 38886),

Gene: Sarge_48 Start: 28826, Stop: 28996, Start Num: 23
Candidate Starts for Sarge_48:
(Start: 23 @28826 has 9 MA's), (28, 28844), (33, 28892), (35, 28901), (41, 28928), (44, 28961),

Gene: Sashimi_68 Start: 37898, Stop: 38074, Start Num: 24
Candidate Starts for Sashimi_68:
(15, 37805), (Start: 24 @37898 has 17 MA's), (37, 37982),

Gene: Satrap_71 Start: 38041, Stop: 38232, Start Num: 22
Candidate Starts for Satrap_71:
(22, 38041), (Start: 24 @38053 has 17 MA's), (28, 38074), (37, 38140),

Gene: Seahorse_75 Start: 39938, Stop: 40120, Start Num: 24
Candidate Starts for Seahorse_75:
(22, 39926), (Start: 24 @39938 has 17 MA's), (28, 39959), (36, 40019), (42, 40067),

Gene: SonDevVon_77 Start: 38575, Stop: 38754, Start Num: 24
Candidate Starts for SonDevVon_77:
(Start: 24 @38575 has 17 MA's), (37, 38662),

Gene: SpicyFrank_73 Start: 38199, Stop: 38375, Start Num: 24
Candidate Starts for SpicyFrank_73:
(14, 38079), (15, 38106), (17, 38127), (Start: 24 @38199 has 17 MA's), (37, 38283), (40, 38304),

Gene: ThayneTheZag_75 Start: 37865, Stop: 38041, Start Num: 24
Candidate Starts for ThayneTheZag_75:
(14, 37745), (15, 37772), (Start: 24 @37865 has 17 MA's), (37, 37949), (40, 37970),

Gene: Vopal_72 Start: 40127, Stop: 40294, Start Num: 23
Candidate Starts for Vopal_72:
(Start: 23 @40127 has 9 MA's), (Start: 24 @40136 has 17 MA's), (29, 40154), (33, 40196), (35, 40205), (41, 40232), (44, 40265),

Gene: Windest_73 Start: 36336, Stop: 36512, Start Num: 24
Candidate Starts for Windest_73:
(14, 36216), (15, 36243), (Start: 24 @36336 has 17 MA's), (37, 36420), (40, 36441),

Gene: YoungHarleezy_69 Start: 37188, Stop: 37385, Start Num: 24
Candidate Starts for YoungHarleezy_69:
(13, 37059), (15, 37095), (Start: 24 @37188 has 17 MA's), (37, 37272), (40, 37293), (43, 37326),