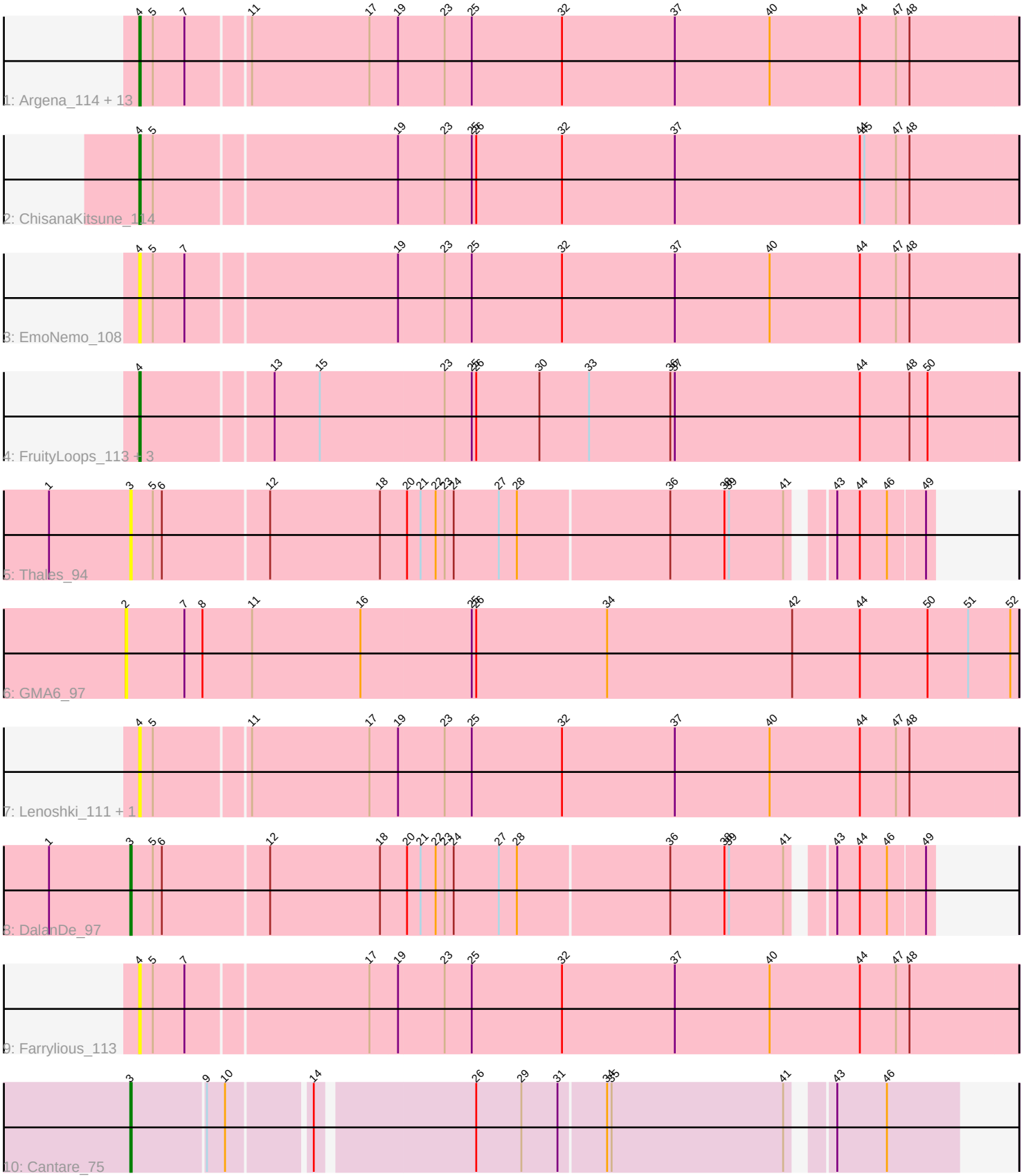
Pham 287076


1: Argena_114 + 13
2: ChisanaKitsune_114
3: EmoNemo_108
4: FruityLoops_113 + 3
5: Thales_94
6: GMA6_97
7: Lenoshki_111 + 1
8: DalanDe_97
9: Farrylious_113
10: Cantare_75

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 287076 Report

This analysis was run 03/28/26 on database version 641.

Pham number 287076 has 27 members, 16 are drafts.

Phages represented in each track:
• Track 1 : Argena_114, MintFritos_112, Kabocha_116, Aloki_107, Schomber_113, Amoonguss_113, Gray_112, Chidiebere_115, Toneprano_112, Mikronejon_110, Pakusa_109, Twin_110, Oogie_110, Hanem_114
• Track 2 : ChisanaKitsune_114
• Track 3 : EmoNemo_108
• Track 4 : FruityLoops_113, UBSmoodge_117, ScarletRaider_113, FlyingTortilla_112
• Track 5 : Thales_94
• Track 6 : GMA6_97
• Track 7 : Lenoshki_111, Beted_111
• Track 8 : DalanDe_97
• Track 9 : Farrylious_113
• Track 10 : Cantare_75

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 9 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aloki_107, Amoonguss_113, Argena_114, Beted_111, Chidiebere_115, ChisanaKitsune_114, EmoNemo_108, Farrylious_113, FlyingTortilla_112, FruityLoops_113, Gray_112, Hanem_114, Kabocha_116, Lenoshki_111, Mikronejon_110, MintFritos_112, Oogie_110, Pakusa_109, ScarletRaider_113, Schomber_113, Toneprano_112, Twin_110, UBSmoodge_117,

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

Genes that do not have the "Most Annotated" start:
• Cantare_75, DalanDe_97, GMA6_97, Thales_94,

Summary by start number:

Start 2:

• Found in 1 of 27 (3.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA6_97 (DQ),

Start 3:
• Found in 3 of 27 (11.1%) of genes in pham
• Manual Annotations of this start: 2 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cantare_75 (singleton), DalanDe_97 (DQ), Thales_94 (DQ),

Start 4:
• Found in 23 of 27 (85.2%) of genes in pham
• Manual Annotations of this start: 9 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aloki_107 (DQ), Amoonguss_113 (DQ), Argena_114 (DQ), Beted_111 (DQ), Chidiebere_115 (DQ), ChisanaKitsune_114 (DQ), EmoNemo_108 (DQ), Farrylious_113 (DQ), FlyingTortilla_112 (DQ), FruityLoops_113 (DQ), Gray_112 (DQ), Hanem_114 (DQ), Kabocha_116 (DQ), Lenoshki_111 (DQ), Mikronejon_110 (DQ), MintFritos_112 (DQ), Oogie_110 (DQ), Pakusa_109 (DQ), ScarletRaider_113 (DQ), Schomber_113 (DQ), Toneprano_112 (DQ), Twin_110 (DQ), UBSmoodge_117 (DQ),

Summary by clusters:

There are 2 clusters represented in this pham: singleton, DQ,

Info for manual annotations of cluster DQ:
•Start number 3 was manually annotated 1 time for cluster DQ.
•Start number 4 was manually annotated 9 times for cluster DQ.

Gene Information:

Gene: Aloki_107 Start: 78726, Stop: 79301, Start Num: 4
Candidate Starts for Aloki_107:
(Start: 4 @78726 has 9 MA's), (5, 78735), (7, 78756), (11, 78795), (17, 78873), (19, 78891), (23, 78921), (25, 78939), (32, 78999), (37, 79074), (40, 79137), (44, 79197), (47, 79221), (48, 79230),

Gene: Amoonguss_113 Start: 79363, Stop: 79938, Start Num: 4
Candidate Starts for Amoonguss_113:
(Start: 4 @79363 has 9 MA's), (5, 79372), (7, 79393), (11, 79432), (17, 79510), (19, 79528), (23, 79558), (25, 79576), (32, 79636), (37, 79711), (40, 79774), (44, 79834), (47, 79858), (48, 79867),

Gene: Argena_114 Start: 79779, Stop: 80354, Start Num: 4
Candidate Starts for Argena_114:
(Start: 4 @79779 has 9 MA's), (5, 79788), (7, 79809), (11, 79848), (17, 79926), (19, 79944), (23, 79974), (25, 79992), (32, 80052), (37, 80127), (40, 80190), (44, 80250), (47, 80274), (48, 80283),

Gene: Beted_111 Start: 80639, Stop: 81214, Start Num: 4
Candidate Starts for Beted_111:

(Start: 4 @80639 has 9 MA's), (5, 80648), (11, 80708), (17, 80786), (19, 80804), (23, 80834), (25, 80852), (32, 80912), (37, 80987), (40, 81050), (44, 81110), (47, 81134), (48, 81143),

Gene: Cantare_75 Start: 61854, Stop: 62366, Start Num: 3
Candidate Starts for Cantare_75:
(Start: 3 @61854 has 2 MA's), (9, 61902), (10, 61914), (14, 61965), (26, 62064), (29, 62094), (31, 62118), (34, 62148), (35, 62151), (41, 62265), (43, 62286), (46, 62319),

Gene: Chidiebere_115 Start: 79856, Stop: 80431, Start Num: 4
Candidate Starts for Chidiebere_115:
(Start: 4 @79856 has 9 MA's), (5, 79865), (7, 79886), (11, 79925), (17, 80003), (19, 80021), (23, 80051), (25, 80069), (32, 80129), (37, 80204), (40, 80267), (44, 80327), (47, 80351), (48, 80360),

Gene: ChisanaKitsune_114 Start: 78857, Stop: 79432, Start Num: 4
Candidate Starts for ChisanaKitsune_114:
(Start: 4 @78857 has 9 MA's), (5, 78866), (19, 79022), (23, 79052), (25, 79070), (26, 79073), (32, 79130), (37, 79205), (44, 79328), (45, 79331), (47, 79352), (48, 79361),

Gene: DalanDe_97 Start: 77200, Stop: 77709, Start Num: 3
Candidate Starts for DalanDe_97:
(1, 77146), (Start: 3 @77200 has 2 MA's), (5, 77215), (6, 77221), (12, 77290), (18, 77362), (20, 77380), (21, 77389), (22, 77398), (23, 77404), (24, 77410), (27, 77440), (28, 77452), (36, 77551), (38, 77587), (39, 77590), (41, 77626), (43, 77647), (44, 77662), (46, 77680), (49, 77704),

Gene: EmoNemo_108 Start: 78928, Stop: 79503, Start Num: 4
Candidate Starts for EmoNemo_108:
(Start: 4 @78928 has 9 MA's), (5, 78937), (7, 78958), (19, 79093), (23, 79123), (25, 79141), (32, 79201), (37, 79276), (40, 79339), (44, 79399), (47, 79423), (48, 79432),

Gene: Farrylious_113 Start: 79534, Stop: 80109, Start Num: 4
Candidate Starts for Farrylious_113:
(Start: 4 @79534 has 9 MA's), (5, 79543), (7, 79564), (17, 79681), (19, 79699), (23, 79729), (25, 79747), (32, 79807), (37, 79882), (40, 79945), (44, 80005), (47, 80029), (48, 80038),

Gene: FlyingTortilla_112 Start: 82708, Stop: 83283, Start Num: 4
Candidate Starts for FlyingTortilla_112:
(Start: 4 @82708 has 9 MA's), (13, 82792), (15, 82822), (23, 82903), (25, 82921), (26, 82924), (30, 82966), (33, 82999), (36, 83053), (37, 83056), (44, 83179), (48, 83212), (50, 83224),

Gene: FruityLoops_113 Start: 82214, Stop: 82789, Start Num: 4
Candidate Starts for FruityLoops_113:
(Start: 4 @82214 has 9 MA's), (13, 82298), (15, 82328), (23, 82409), (25, 82427), (26, 82430), (30, 82472), (33, 82505), (36, 82559), (37, 82562), (44, 82685), (48, 82718), (50, 82730),

Gene: GMA6_97 Start: 70563, Stop: 71153, Start Num: 2
Candidate Starts for GMA6_97:
(2, 70563), (7, 70602), (8, 70614), (11, 70647), (16, 70719), (25, 70791), (26, 70794), (34, 70881), (42, 71004), (44, 71049), (50, 71094), (51, 71121), (52, 71148),

Gene: Gray_112 Start: 79189, Stop: 79764, Start Num: 4
Candidate Starts for Gray_112:
(Start: 4 @79189 has 9 MA's), (5, 79198), (7, 79219), (11, 79258), (17, 79336), (19, 79354), (23, 79384), (25, 79402), (32, 79462), (37, 79537), (40, 79600), (44, 79660), (47, 79684), (48, 79693),

Gene: Hanem_114 Start: 78726, Stop: 79301, Start Num: 4
Candidate Starts for Hanem_114:
(Start: 4 @78726 has 9 MA's), (5, 78735), (7, 78756), (11, 78795), (17, 78873), (19, 78891), (23, 78921), (25, 78939), (32, 78999), (37, 79074), (40, 79137), (44, 79197), (47, 79221), (48, 79230),

Gene: Kabocha_116 Start: 80669, Stop: 81244, Start Num: 4
Candidate Starts for Kabocha_116:
(Start: 4 @80669 has 9 MA's), (5, 80678), (7, 80699), (11, 80738), (17, 80816), (19, 80834), (23, 80864), (25, 80882), (32, 80942), (37, 81017), (40, 81080), (44, 81140), (47, 81164), (48, 81173),

Gene: Lenoshki_111 Start: 80639, Stop: 81214, Start Num: 4
Candidate Starts for Lenoshki_111:
(Start: 4 @80639 has 9 MA's), (5, 80648), (11, 80708), (17, 80786), (19, 80804), (23, 80834), (25, 80852), (32, 80912), (37, 80987), (40, 81050), (44, 81110), (47, 81134), (48, 81143),

Gene: Mikronejon_110 Start: 79206, Stop: 79781, Start Num: 4
Candidate Starts for Mikronejon_110:
(Start: 4 @79206 has 9 MA's), (5, 79215), (7, 79236), (11, 79275), (17, 79353), (19, 79371), (23, 79401), (25, 79419), (32, 79479), (37, 79554), (40, 79617), (44, 79677), (47, 79701), (48, 79710),

Gene: MintFritos_112 Start: 79684, Stop: 80259, Start Num: 4
Candidate Starts for MintFritos_112:
(Start: 4 @79684 has 9 MA's), (5, 79693), (7, 79714), (11, 79753), (17, 79831), (19, 79849), (23, 79879), (25, 79897), (32, 79957), (37, 80032), (40, 80095), (44, 80155), (47, 80179), (48, 80188),

Gene: Oogie_110 Start: 80689, Stop: 81264, Start Num: 4
Candidate Starts for Oogie_110:
(Start: 4 @80689 has 9 MA's), (5, 80698), (7, 80719), (11, 80758), (17, 80836), (19, 80854), (23, 80884), (25, 80902), (32, 80962), (37, 81037), (40, 81100), (44, 81160), (47, 81184), (48, 81193),

Gene: Pakusa_109 Start: 78654, Stop: 79229, Start Num: 4
Candidate Starts for Pakusa_109:
(Start: 4 @78654 has 9 MA's), (5, 78663), (7, 78684), (11, 78723), (17, 78801), (19, 78819), (23, 78849), (25, 78867), (32, 78927), (37, 79002), (40, 79065), (44, 79125), (47, 79149), (48, 79158),

Gene: ScarletRaider_113 Start: 81925, Stop: 82500, Start Num: 4
Candidate Starts for ScarletRaider_113:
(Start: 4 @81925 has 9 MA's), (13, 82009), (15, 82039), (23, 82120), (25, 82138), (26, 82141), (30, 82183), (33, 82216), (36, 82270), (37, 82273), (44, 82396), (48, 82429), (50, 82441),

Gene: Schomber_113 Start: 79057, Stop: 79632, Start Num: 4
Candidate Starts for Schomber_113:
(Start: 4 @79057 has 9 MA's), (5, 79066), (7, 79087), (11, 79126), (17, 79204), (19, 79222), (23, 79252), (25, 79270), (32, 79330), (37, 79405), (40, 79468), (44, 79528), (47, 79552), (48, 79561),

Gene: Thales_94 Start: 75727, Stop: 76236, Start Num: 3
Candidate Starts for Thales_94:
(1, 75673), (Start: 3 @75727 has 2 MA's), (5, 75742), (6, 75748), (12, 75817), (18, 75889), (20, 75907), (21, 75916), (22, 75925), (23, 75931), (24, 75937), (27, 75967), (28, 75979), (36, 76078), (38, 76114), (39, 76117), (41, 76153), (43, 76174), (44, 76189), (46, 76207), (49, 76231),

Gene: Toneprano_112 Start: 79377, Stop: 79952, Start Num: 4

Candidate Starts for Toneprano_112:
(Start: 4 @79377 has 9 MA's), (5, 79386), (7, 79407), (11, 79446), (17, 79524), (19, 79542), (23, 79572), (25, 79590), (32, 79650), (37, 79725), (40, 79788), (44, 79848), (47, 79872), (48, 79881),

Gene: Twin_110 Start: 79407, Stop: 79982, Start Num: 4
Candidate Starts for Twin_110:
(Start: 4 @79407 has 9 MA's), (5, 79416), (7, 79437), (11, 79476), (17, 79554), (19, 79572), (23, 79602), (25, 79620), (32, 79680), (37, 79755), (40, 79818), (44, 79878), (47, 79902), (48, 79911),

Gene: UBSmoodge_117 Start: 82495, Stop: 83070, Start Num: 4
Candidate Starts for UBSmoodge_117:
(Start: 4 @82495 has 9 MA's), (13, 82579), (15, 82609), (23, 82690), (25, 82708), (26, 82711), (30, 82753), (33, 82786), (36, 82840), (37, 82843), (44, 82966), (48, 82999), (50, 83011),