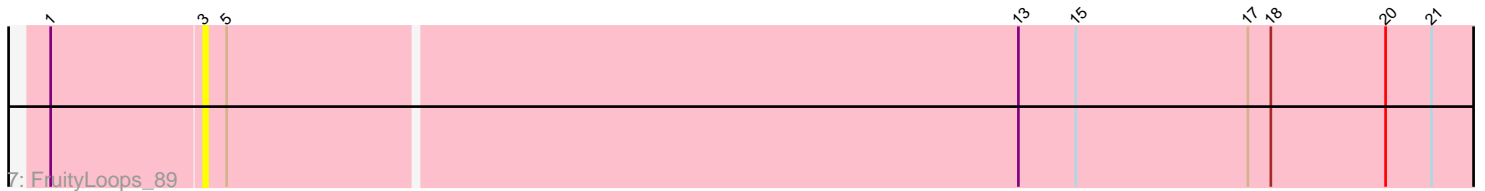
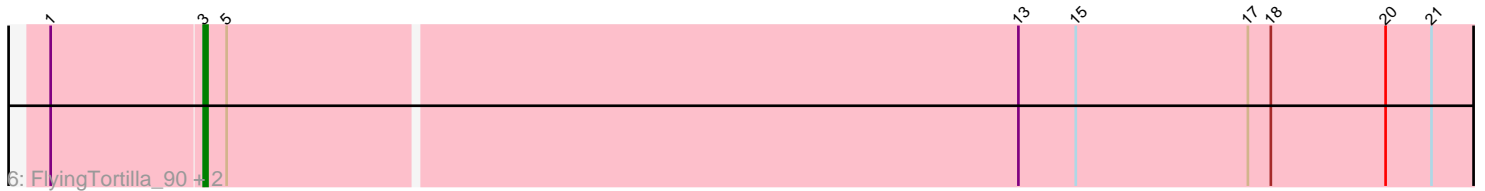
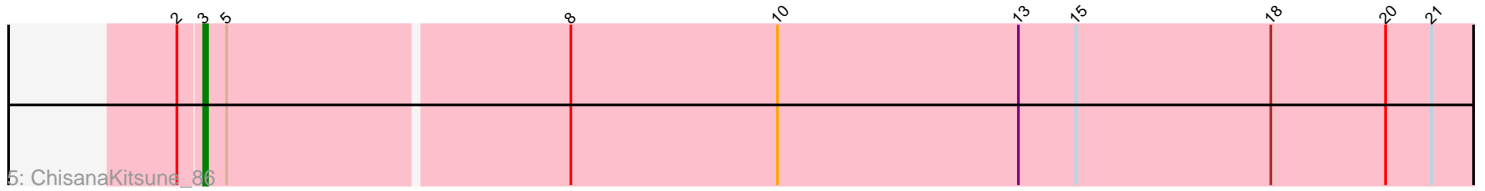
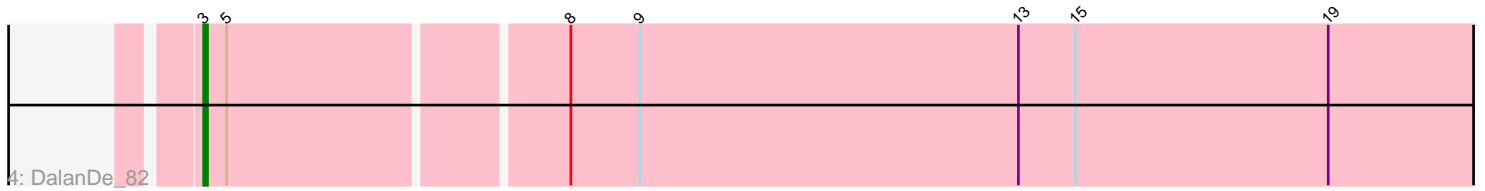
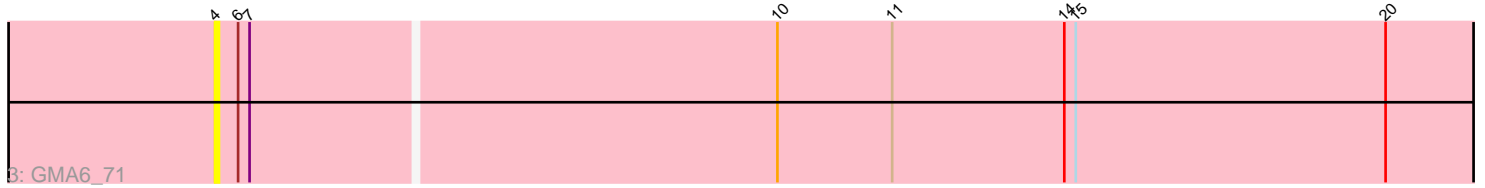
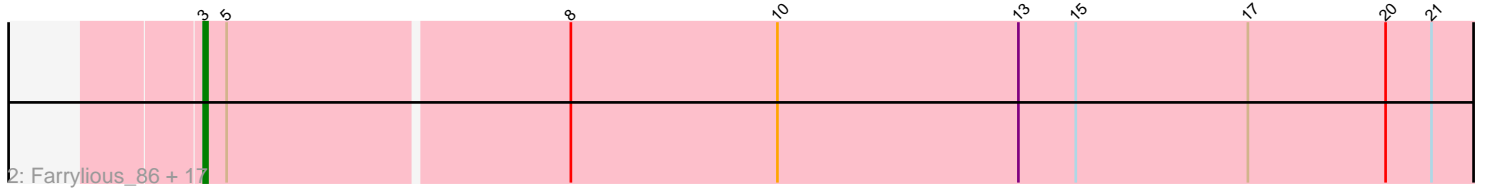
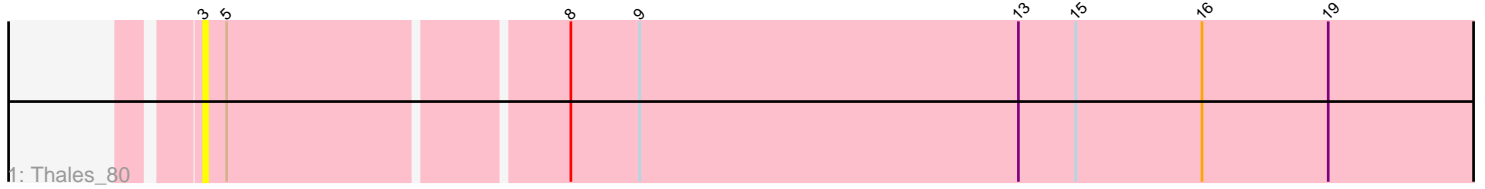


Zoomed Pham 309105



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 309105 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309105 has 27 members, 14 are drafts.

Phages represented in each track:

- Track 1 : Thales_80
- Track 2 : Farrylious_86, Twin_84, Gray_89, Beted_89, Toneprano_86, Hanem_88, Lenoshki_89, Kabocha_90, Amoonguss_86, MintFritos_85, Pakusa_85, Mikronejon_85, Oogie_90, Schomber_87, Chidiebere_89, EmoNemo_84, Alok_88, Argena_86
- Track 3 : GMA6_71
- Track 4 : DalanDe_82
- Track 5 : ChisanaKitsune_86
- Track 6 : FlyingTortilla_90, UBSmoodge_92, ScarletRaider_89
- Track 7 : FruityLoops_89
- Track 8 : Cantare_61

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 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alok_88, Amoonguss_86, Argena_86, Beted_89, Chidiebere_89, ChisanaKitsune_86, DalanDe_82, EmoNemo_84, Farrylious_86, FlyingTortilla_90, FruityLoops_89, Gray_89, Hanem_88, Kabocha_90, Lenoshki_89, Mikronejon_85, MintFritos_85, Oogie_90, Pakusa_85, ScarletRaider_89, Schomber_87, Thales_80, Toneprano_86, Twin_84, UBSmoodge_92,

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

-

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

- Cantare_61, GMA6_71,

Summary by start number:

Start 3:

- Found in 25 of 27 (92.6%) of genes in pham

- Manual Annotations of this start: 12 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aloki_88 (DQ), Amoonguss_86 (DQ), Argena_86 (DQ), Beted_89 (DQ), Chidiebere_89 (DQ), ChisanaKitsune_86 (DQ), DalanDe_82 (DQ), EmoNemo_84 (DQ), Farrylious_86 (DQ), FlyingTortilla_90 (DQ), FruityLoops_89 (DQ), Gray_89 (DQ), Hanem_88 (DQ), Kabocha_90 (DQ), Lenoshki_89 (DQ), Mikronejon_85 (DQ), MintFritos_85 (DQ), Oogie_90 (DQ), Pakusa_85 (DQ), ScarletRaider_89 (DQ), Schomber_87 (DQ), Thales_80 (DQ), Toneprano_86 (DQ), Twin_84 (DQ), UBSmoodge_92 (DQ),

Start 4:

- Found in 2 of 27 (7.4%) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cantare_61 (singleton), GMA6_71 (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 12 times for cluster DQ.

Gene Information:

Gene: Aloki_88 Start: 66117, Stop: 66878, Start Num: 3

Candidate Starts for Aloki_88:

(Start: 3 @66117 has 12 MA's), (5, 66123), (8, 66210), (10, 66264), (13, 66327), (15, 66342), (17, 66387), (20, 66423), (21, 66435), (23, 66450), (26, 66501), (30, 66567), (33, 66594), (35, 66603), (37, 66615), (38, 66630), (40, 66669), (41, 66693), (42, 66771), (44, 66774), (45, 66795), (47, 66864),

Gene: Amoonguss_86 Start: 66077, Stop: 66835, Start Num: 3

Candidate Starts for Amoonguss_86:

(Start: 3 @66077 has 12 MA's), (5, 66083), (8, 66170), (10, 66224), (13, 66287), (15, 66302), (17, 66347), (20, 66383), (21, 66395), (23, 66410), (26, 66461), (30, 66527), (33, 66554), (35, 66563), (37, 66575), (38, 66590), (40, 66629), (41, 66653), (42, 66731), (44, 66734), (45, 66752), (47, 66821),

Gene: Argena_86 Start: 66089, Stop: 66847, Start Num: 3

Candidate Starts for Argena_86:

(Start: 3 @66089 has 12 MA's), (5, 66095), (8, 66182), (10, 66236), (13, 66299), (15, 66314), (17, 66359), (20, 66395), (21, 66407), (23, 66422), (26, 66473), (30, 66539), (33, 66566), (35, 66575), (37, 66587), (38, 66602), (40, 66641), (41, 66665), (42, 66743), (44, 66746), (45, 66764), (47, 66833),

Gene: Beted_89 Start: 68228, Stop: 68989, Start Num: 3

Candidate Starts for Beted_89:

(Start: 3 @68228 has 12 MA's), (5, 68234), (8, 68321), (10, 68375), (13, 68438), (15, 68453), (17, 68498), (20, 68534), (21, 68546), (23, 68561), (26, 68612), (30, 68678), (33, 68705), (35, 68714), (37, 68726), (38, 68741), (40, 68780), (41, 68804), (42, 68882), (44, 68885), (45, 68906), (47, 68975),

Gene: Cantare_61 Start: 51966, Stop: 52736, Start Num: 4

Candidate Starts for Cantare_61:

(Start: 4 @51966 has 1 MA's), (12, 52149), (15, 52185), (16, 52209), (17, 52221), (21, 52269), (22, 52281), (23, 52284), (24, 52314), (27, 52371), (33, 52428), (36, 52446), (39, 52473), (46, 52707),

Gene: Chidiebere_89 Start: 66650, Stop: 67411, Start Num: 3

Candidate Starts for Chidiebere_89:

(Start: 3 @66650 has 12 MA's), (5, 66656), (8, 66743), (10, 66797), (13, 66860), (15, 66875), (17, 66920), (20, 66956), (21, 66968), (23, 66983), (26, 67034), (30, 67100), (33, 67127), (35, 67136), (37, 67148), (38, 67163), (40, 67202), (41, 67226), (42, 67304), (44, 67307), (45, 67328), (47, 67397),

Gene: ChisanaKitsune_86 Start: 65843, Stop: 66586, Start Num: 3

Candidate Starts for ChisanaKitsune_86:

(2, 65837), (Start: 3 @65843 has 12 MA's), (5, 65849), (8, 65936), (10, 65990), (13, 66053), (15, 66068), (18, 66119), (20, 66149), (21, 66161), (22, 66173), (23, 66176), (26, 66227), (31, 66308), (33, 66320), (34, 66326), (35, 66329), (37, 66341), (38, 66356), (40, 66392), (41, 66419), (45, 66521),

Gene: DalanDe_82 Start: 67810, Stop: 68487, Start Num: 3

Candidate Starts for DalanDe_82:

(Start: 3 @67810 has 12 MA's), (5, 67816), (8, 67900), (9, 67918), (13, 68017), (15, 68032), (19, 68098), (22, 68137), (25, 68188), (28, 68230), (29, 68251), (40, 68368), (43, 68473),

Gene: EmoNemo_84 Start: 66117, Stop: 66878, Start Num: 3

Candidate Starts for EmoNemo_84:

(Start: 3 @66117 has 12 MA's), (5, 66123), (8, 66210), (10, 66264), (13, 66327), (15, 66342), (17, 66387), (20, 66423), (21, 66435), (23, 66450), (26, 66501), (30, 66567), (33, 66594), (35, 66603), (37, 66615), (38, 66630), (40, 66669), (41, 66693), (42, 66771), (44, 66774), (45, 66795), (47, 66864),

Gene: Farrylious_86 Start: 65853, Stop: 66614, Start Num: 3

Candidate Starts for Farrylious_86:

(Start: 3 @65853 has 12 MA's), (5, 65859), (8, 65946), (10, 66000), (13, 66063), (15, 66078), (17, 66123), (20, 66159), (21, 66171), (23, 66186), (26, 66237), (30, 66303), (33, 66330), (35, 66339), (37, 66351), (38, 66366), (40, 66405), (41, 66429), (42, 66507), (44, 66510), (45, 66531), (47, 66600),

Gene: FlyingTortilla_90 Start: 70317, Stop: 71081, Start Num: 3

Candidate Starts for FlyingTortilla_90:

(1, 70278), (Start: 3 @70317 has 12 MA's), (5, 70323), (13, 70527), (15, 70542), (17, 70587), (18, 70593), (20, 70623), (21, 70635), (23, 70650), (26, 70701), (30, 70767), (34, 70800), (35, 70803), (37, 70815), (44, 70980), (45, 71001),

Gene: FruityLoops_89 Start: 69618, Stop: 70382, Start Num: 3

Candidate Starts for FruityLoops_89:

(1, 69579), (Start: 3 @69618 has 12 MA's), (5, 69624), (13, 69828), (15, 69843), (17, 69888), (18, 69894), (20, 69924), (21, 69936), (23, 69951), (26, 70002), (30, 70068), (32, 70086), (34, 70101), (35, 70104), (37, 70116), (44, 70281), (45, 70302),

Gene: GMA6_71 Start: 57069, Stop: 57743, Start Num: 4

Candidate Starts for GMA6_71:

(Start: 4 @57069 has 1 MA's), (6, 57075), (7, 57078), (10, 57213), (11, 57243), (14, 57288), (15, 57291), (20, 57372), (23, 57399), (24, 57429), (29, 57510), (33, 57543),

Gene: Gray_89 Start: 66581, Stop: 67342, Start Num: 3

Candidate Starts for Gray_89:

(Start: 3 @66581 has 12 MA's), (5, 66587), (8, 66674), (10, 66728), (13, 66791), (15, 66806), (17, 66851), (20, 66887), (21, 66899), (23, 66914), (26, 66965), (30, 67031), (33, 67058), (35, 67067), (37,

67079), (38, 67094), (40, 67133), (41, 67157), (42, 67235), (44, 67238), (45, 67259), (47, 67328),

Gene: Hanem_88 Start: 66117, Stop: 66878, Start Num: 3

Candidate Starts for Hanem_88:

(Start: 3 @66117 has 12 MA's), (5, 66123), (8, 66210), (10, 66264), (13, 66327), (15, 66342), (17, 66387), (20, 66423), (21, 66435), (23, 66450), (26, 66501), (30, 66567), (33, 66594), (35, 66603), (37, 66615), (38, 66630), (40, 66669), (41, 66693), (42, 66771), (44, 66774), (45, 66795), (47, 66864),

Gene: Kabocha_90 Start: 67463, Stop: 68224, Start Num: 3

Candidate Starts for Kabocha_90:

(Start: 3 @67463 has 12 MA's), (5, 67469), (8, 67556), (10, 67610), (13, 67673), (15, 67688), (17, 67733), (20, 67769), (21, 67781), (23, 67796), (26, 67847), (30, 67913), (33, 67940), (35, 67949), (37, 67961), (38, 67976), (40, 68015), (41, 68039), (42, 68117), (44, 68120), (45, 68141), (47, 68210),

Gene: Lenoshki_89 Start: 68228, Stop: 68989, Start Num: 3

Candidate Starts for Lenoshki_89:

(Start: 3 @68228 has 12 MA's), (5, 68234), (8, 68321), (10, 68375), (13, 68438), (15, 68453), (17, 68498), (20, 68534), (21, 68546), (23, 68561), (26, 68612), (30, 68678), (33, 68705), (35, 68714), (37, 68726), (38, 68741), (40, 68780), (41, 68804), (42, 68882), (44, 68885), (45, 68906), (47, 68975),

Gene: Mikronejon_85 Start: 66117, Stop: 66878, Start Num: 3

Candidate Starts for Mikronejon_85:

(Start: 3 @66117 has 12 MA's), (5, 66123), (8, 66210), (10, 66264), (13, 66327), (15, 66342), (17, 66387), (20, 66423), (21, 66435), (23, 66450), (26, 66501), (30, 66567), (33, 66594), (35, 66603), (37, 66615), (38, 66630), (40, 66669), (41, 66693), (42, 66771), (44, 66774), (45, 66795), (47, 66864),

Gene: MintFritos_85 Start: 66093, Stop: 66851, Start Num: 3

Candidate Starts for MintFritos_85:

(Start: 3 @66093 has 12 MA's), (5, 66099), (8, 66186), (10, 66240), (13, 66303), (15, 66318), (17, 66363), (20, 66399), (21, 66411), (23, 66426), (26, 66477), (30, 66543), (33, 66570), (35, 66579), (37, 66591), (38, 66606), (40, 66645), (41, 66669), (42, 66747), (44, 66750), (45, 66768), (47, 66837),

Gene: Oogie_90 Start: 68281, Stop: 69042, Start Num: 3

Candidate Starts for Oogie_90:

(Start: 3 @68281 has 12 MA's), (5, 68287), (8, 68374), (10, 68428), (13, 68491), (15, 68506), (17, 68551), (20, 68587), (21, 68599), (23, 68614), (26, 68665), (30, 68731), (33, 68758), (35, 68767), (37, 68779), (38, 68794), (40, 68833), (41, 68857), (42, 68935), (44, 68938), (45, 68959), (47, 69028),

Gene: Pakusa_85 Start: 65843, Stop: 66604, Start Num: 3

Candidate Starts for Pakusa_85:

(Start: 3 @65843 has 12 MA's), (5, 65849), (8, 65936), (10, 65990), (13, 66053), (15, 66068), (17, 66113), (20, 66149), (21, 66161), (23, 66176), (26, 66227), (30, 66293), (33, 66320), (35, 66329), (37, 66341), (38, 66356), (40, 66395), (41, 66419), (42, 66497), (44, 66500), (45, 66521), (47, 66590),

Gene: ScarletRaider_89 Start: 69582, Stop: 70346, Start Num: 3

Candidate Starts for ScarletRaider_89:

(1, 69543), (Start: 3 @69582 has 12 MA's), (5, 69588), (13, 69792), (15, 69807), (17, 69852), (18, 69858), (20, 69888), (21, 69900), (23, 69915), (26, 69966), (30, 70032), (34, 70065), (35, 70068), (37, 70080), (44, 70245), (45, 70266),

Gene: Schomber_87 Start: 65851, Stop: 66612, Start Num: 3

Candidate Starts for Schomber_87:

(Start: 3 @65851 has 12 MA's), (5, 65857), (8, 65944), (10, 65998), (13, 66061), (15, 66076), (17, 66121), (20, 66157), (21, 66169), (23, 66184), (26, 66235), (30, 66301), (33, 66328), (35, 66337), (37, 66349), (38, 66364), (40, 66403), (41, 66427), (42, 66505), (44, 66508), (45, 66529), (47, 66598),

Gene: Thales_80 Start: 66337, Stop: 67014, Start Num: 3

Candidate Starts for Thales_80:

(Start: 3 @66337 has 12 MA's), (5, 66343), (8, 66427), (9, 66445), (13, 66544), (15, 66559), (16, 66592), (19, 66625), (22, 66664), (25, 66715), (28, 66757), (29, 66778), (40, 66895), (43, 67000),

Gene: Toneprano_86 Start: 66091, Stop: 66849, Start Num: 3

Candidate Starts for Toneprano_86:

(Start: 3 @66091 has 12 MA's), (5, 66097), (8, 66184), (10, 66238), (13, 66301), (15, 66316), (17, 66361), (20, 66397), (21, 66409), (23, 66424), (26, 66475), (30, 66541), (33, 66568), (35, 66577), (37, 66589), (38, 66604), (40, 66643), (41, 66667), (42, 66745), (44, 66748), (45, 66766), (47, 66835),

Gene: Twin_84 Start: 66116, Stop: 66877, Start Num: 3

Candidate Starts for Twin_84:

(Start: 3 @66116 has 12 MA's), (5, 66122), (8, 66209), (10, 66263), (13, 66326), (15, 66341), (17, 66386), (20, 66422), (21, 66434), (23, 66449), (26, 66500), (30, 66566), (33, 66593), (35, 66602), (37, 66614), (38, 66629), (40, 66668), (41, 66692), (42, 66770), (44, 66773), (45, 66794), (47, 66863),

Gene: UBSmoodge_92 Start: 70022, Stop: 70786, Start Num: 3

Candidate Starts for UBSmoodge_92:

(1, 69983), (Start: 3 @70022 has 12 MA's), (5, 70028), (13, 70232), (15, 70247), (17, 70292), (18, 70298), (20, 70328), (21, 70340), (23, 70355), (26, 70406), (30, 70472), (34, 70505), (35, 70508), (37, 70520), (44, 70685), (45, 70706),