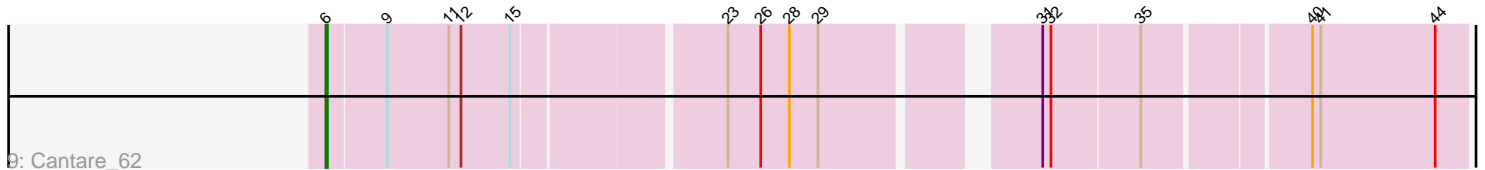
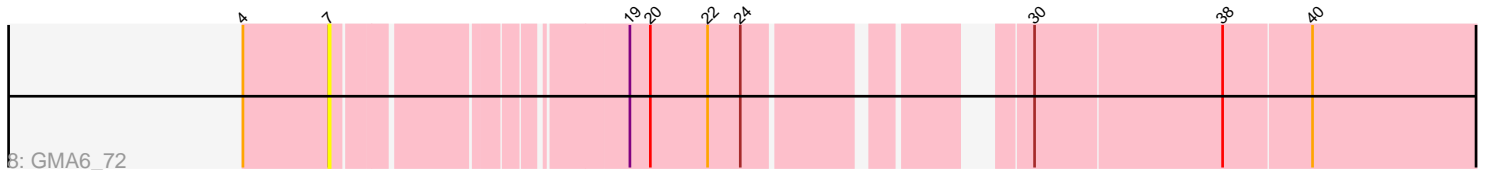
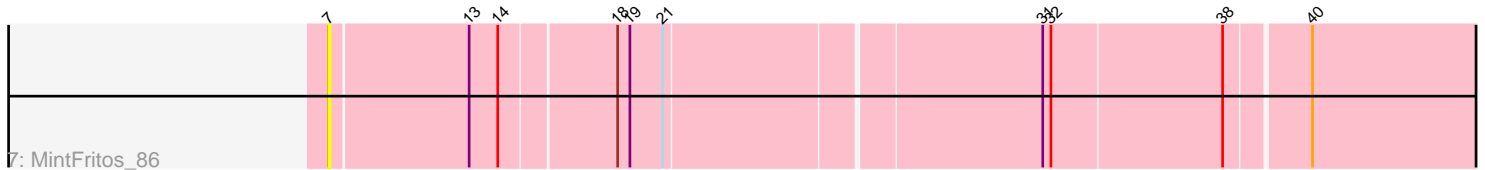
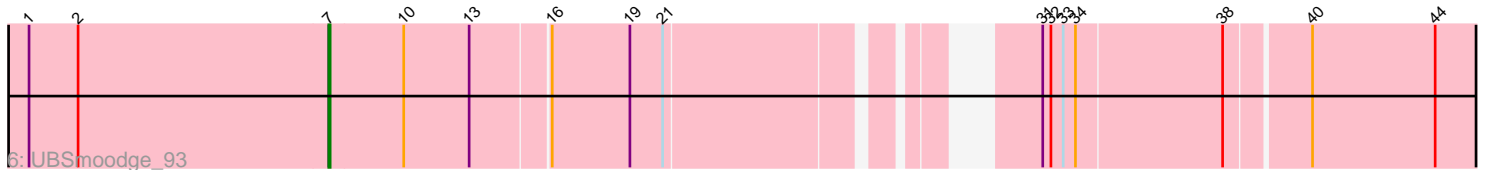
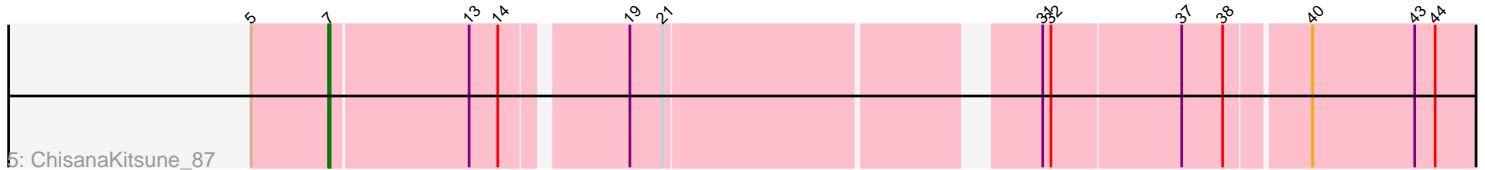
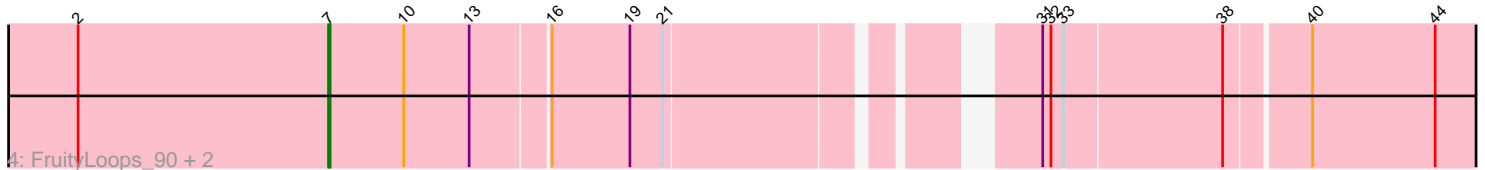
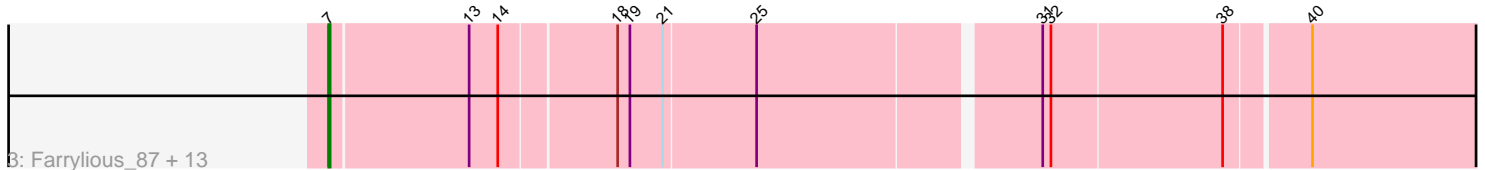
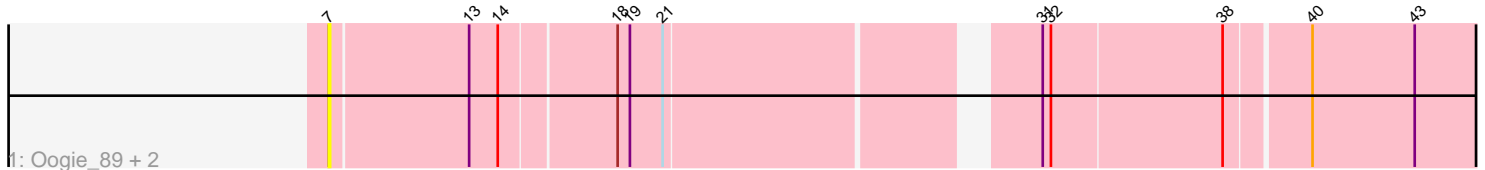


Pham 305243



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 305243 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305243 has 27 members, 16 are drafts.

Phages represented in each track:

- Track 1 : Oogie_89, Lenoshki_90, Beted_90
- Track 2 : Thales_81, DalanDe_83
- Track 3 : Farrylious_87, Twin_85, Chidiebere_90, Argena_87, Hanem_89, Toneprano_87, Kabocha_91, Amoonguss_87, Pakusa_86, Mikronejon_86, Schomber_88, EmoNemo_85, Alok_85, Gray_90
- Track 4 : FruityLoops_90, FlyingTortilla_91, ScarletRaider_90
- Track 5 : ChisanaKitsune_87
- Track 6 : UBSmoodge_93
- Track 7 : MintFritos_86
- Track 8 : GMA6_72
- Track 9 : Cantare_62

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

The start number called the most often in the published annotations is 7, it was called in 9 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alok_85, Amoonguss_87, Argena_87, Beted_90, Chidiebere_90, ChisanaKitsune_87, EmoNemo_85, Farrylious_87, FlyingTortilla_91, FruityLoops_90, GMA6_72, Gray_90, Hanem_89, Kabocha_91, Lenoshki_90, Mikronejon_86, MintFritos_86, Oogie_89, Pakusa_86, ScarletRaider_90, Schomber_88, Toneprano_87, Twin_85, UBSmoodge_93,

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

-

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

- Cantare_62, DalanDe_83, Thales_81,

Summary by start number:

Start 3:

- Found in 2 of 27 (7.4%) of genes in pham

- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DalanDe_83 (DQ), Thales_81 (DQ),

Start 6:

- Found in 1 of 27 (3.7%) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cantare_62 (singleton),

Start 7:

- Found in 24 of 27 (88.9%) 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_85 (DQ), Amoonguss_87 (DQ), Argena_87 (DQ), Beted_90 (DQ), Chidiebere_90 (DQ), ChisanaKitsune_87 (DQ), EmoNemo_85 (DQ), Farrylous_87 (DQ), FlyingTortilla_91 (DQ), FruityLoops_90 (DQ), GMA6_72 (DQ), Gray_90 (DQ), Hanem_89 (DQ), Kabocha_91 (DQ), Lenoshki_90 (DQ), Mikronejon_86 (DQ), MintFritos_86 (DQ), Oogie_89 (DQ), Pakusa_86 (DQ), ScarletRaider_90 (DQ), Schomber_88 (DQ), Toneprano_87 (DQ), Twin_85 (DQ), UBSmoodge_93 (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 7 was manually annotated 9 times for cluster DQ.

Gene Information:

Gene: Aloki_85 Start: 66937, Stop: 67758, Start Num: 7

Candidate Starts for Aloki_85:

(Start: 7 @66937 has 9 MA's), (13, 67036), (14, 67057), (18, 67138), (19, 67147), (21, 67171), (25, 67237), (31, 67426), (32, 67432), (38, 67555), (40, 67612),

Gene: Amoonguss_87 Start: 66894, Stop: 67715, Start Num: 7

Candidate Starts for Amoonguss_87:

(Start: 7 @66894 has 9 MA's), (13, 66993), (14, 67014), (18, 67095), (19, 67104), (21, 67128), (25, 67194), (31, 67383), (32, 67389), (38, 67512), (40, 67569),

Gene: Argena_87 Start: 66906, Stop: 67727, Start Num: 7

Candidate Starts for Argena_87:

(Start: 7 @66906 has 9 MA's), (13, 67005), (14, 67026), (18, 67107), (19, 67116), (21, 67140), (25, 67206), (31, 67395), (32, 67401), (38, 67524), (40, 67581),

Gene: Beted_90 Start: 69048, Stop: 69860, Start Num: 7

Candidate Starts for Beted_90:

(Start: 7 @69048 has 9 MA's), (13, 69147), (14, 69168), (18, 69249), (19, 69258), (21, 69282), (31, 69528), (32, 69534), (38, 69657), (40, 69714), (43, 69789),

Gene: Cantare_62 Start: 52781, Stop: 53548, Start Num: 6

Candidate Starts for Cantare_62:

(Start: 6 @52781 has 1 MA's), (9, 52823), (11, 52868), (12, 52877), (15, 52913), (23, 53054), (26, 53078), (28, 53099), (29, 53120), (31, 53255), (32, 53261), (35, 53324), (40, 53435), (41, 53441), (44, 53525),

Gene: Chidiebere_90 Start: 67470, Stop: 68291, Start Num: 7

Candidate Starts for Chidiebere_90:

(Start: 7 @67470 has 9 MA's), (13, 67569), (14, 67590), (18, 67671), (19, 67680), (21, 67704), (25, 67770), (31, 67959), (32, 67965), (38, 68088), (40, 68145),

Gene: ChisanaKitsune_87 Start: 66644, Stop: 67441, Start Num: 7

Candidate Starts for ChisanaKitsune_87:

(5, 66587), (Start: 7 @66644 has 9 MA's), (13, 66743), (14, 66764), (19, 66845), (21, 66869), (31, 67115), (32, 67121), (37, 67214), (38, 67244), (40, 67301), (43, 67376), (44, 67391),

Gene: DalanDe_83 Start: 68491, Stop: 69411, Start Num: 3

Candidate Starts for DalanDe_83:

(Start: 3 @68491 has 1 MA's), (8, 68641), (17, 68833), (19, 68854), (27, 68959), (31, 69109), (34, 69133), (35, 69181), (36, 69208), (39, 69247), (40, 69307), (42, 69349),

Gene: EmoNemo_85 Start: 66937, Stop: 67758, Start Num: 7

Candidate Starts for EmoNemo_85:

(Start: 7 @66937 has 9 MA's), (13, 67036), (14, 67057), (18, 67138), (19, 67147), (21, 67171), (25, 67237), (31, 67426), (32, 67432), (38, 67555), (40, 67612),

Gene: Farrylious_87 Start: 66673, Stop: 67494, Start Num: 7

Candidate Starts for Farrylious_87:

(Start: 7 @66673 has 9 MA's), (13, 66772), (14, 66793), (18, 66874), (19, 66883), (21, 66907), (25, 66973), (31, 67168), (32, 67174), (38, 67297), (40, 67354),

Gene: FlyingTortilla_91 Start: 71239, Stop: 72009, Start Num: 7

Candidate Starts for FlyingTortilla_91:

(2, 71056), (Start: 7 @71239 has 9 MA's), (10, 71293), (13, 71341), (16, 71395), (19, 71452), (21, 71476), (31, 71689), (32, 71695), (33, 71704), (38, 71818), (40, 71875), (44, 71965),

Gene: FruityLoops_90 Start: 70540, Stop: 71328, Start Num: 7

Candidate Starts for FruityLoops_90:

(2, 70357), (Start: 7 @70540 has 9 MA's), (10, 70594), (13, 70642), (16, 70696), (19, 70753), (21, 70777), (31, 71002), (32, 71008), (33, 71017), (38, 71131), (40, 71188), (44, 71278),

Gene: GMA6_72 Start: 57807, Stop: 58559, Start Num: 7

Candidate Starts for GMA6_72:

(4, 57744), (Start: 7 @57807 has 9 MA's), (19, 57990), (20, 58005), (22, 58047), (24, 58071), (30, 58233), (38, 58368), (40, 58431),

Gene: Gray_90 Start: 67401, Stop: 68234, Start Num: 7

Candidate Starts for Gray_90:

(Start: 7 @67401 has 9 MA's), (13, 67500), (14, 67521), (18, 67602), (19, 67611), (21, 67635), (25, 67701), (31, 67902), (32, 67908), (38, 68031), (40, 68088),

Gene: Hanem_89 Start: 66937, Stop: 67758, Start Num: 7

Candidate Starts for Hanem_89:

(Start: 7 @66937 has 9 MA's), (13, 67036), (14, 67057), (18, 67138), (19, 67147), (21, 67171), (25, 67237), (31, 67426), (32, 67432), (38, 67555), (40, 67612),

Gene: Kabocha_91 Start: 68283, Stop: 69104, Start Num: 7

Candidate Starts for Kabocha_91:

(Start: 7 @68283 has 9 MA's), (13, 68382), (14, 68403), (18, 68484), (19, 68493), (21, 68517), (25, 68583), (31, 68772), (32, 68778), (38, 68901), (40, 68958),

Gene: Lenoshki_90 Start: 69048, Stop: 69860, Start Num: 7

Candidate Starts for Lenoshki_90:

(Start: 7 @69048 has 9 MA's), (13, 69147), (14, 69168), (18, 69249), (19, 69258), (21, 69282), (31, 69528), (32, 69534), (38, 69657), (40, 69714), (43, 69789),

Gene: Mikronejon_86 Start: 66937, Stop: 67758, Start Num: 7

Candidate Starts for Mikronejon_86:

(Start: 7 @66937 has 9 MA's), (13, 67036), (14, 67057), (18, 67138), (19, 67147), (21, 67171), (25, 67237), (31, 67426), (32, 67432), (38, 67555), (40, 67612),

Gene: MintFritos_86 Start: 66910, Stop: 67740, Start Num: 7

Candidate Starts for MintFritos_86:

(Start: 7 @66910 has 9 MA's), (13, 67009), (14, 67030), (18, 67111), (19, 67120), (21, 67144), (31, 67408), (32, 67414), (38, 67537), (40, 67594),

Gene: Oogie_89 Start: 69101, Stop: 69910, Start Num: 7

Candidate Starts for Oogie_89:

(Start: 7 @69101 has 9 MA's), (13, 69200), (14, 69221), (18, 69302), (19, 69311), (21, 69335), (31, 69578), (32, 69584), (38, 69707), (40, 69764), (43, 69839),

Gene: Pakusa_86 Start: 66663, Stop: 67484, Start Num: 7

Candidate Starts for Pakusa_86:

(Start: 7 @66663 has 9 MA's), (13, 66762), (14, 66783), (18, 66864), (19, 66873), (21, 66897), (25, 66963), (31, 67152), (32, 67158), (38, 67281), (40, 67338),

Gene: ScarletRaider_90 Start: 70504, Stop: 71280, Start Num: 7

Candidate Starts for ScarletRaider_90:

(2, 70321), (Start: 7 @70504 has 9 MA's), (10, 70558), (13, 70606), (16, 70660), (19, 70717), (21, 70741), (31, 70960), (32, 70966), (33, 70975), (38, 71089), (40, 71146), (44, 71236),

Gene: Schomber_88 Start: 66671, Stop: 67492, Start Num: 7

Candidate Starts for Schomber_88:

(Start: 7 @66671 has 9 MA's), (13, 66770), (14, 66791), (18, 66872), (19, 66881), (21, 66905), (25, 66971), (31, 67160), (32, 67166), (38, 67289), (40, 67346),

Gene: Thales_81 Start: 67018, Stop: 67938, Start Num: 3

Candidate Starts for Thales_81:

(Start: 3 @67018 has 1 MA's), (8, 67168), (17, 67360), (19, 67381), (27, 67486), (31, 67636), (34, 67660), (35, 67708), (36, 67735), (39, 67774), (40, 67834), (42, 67876),

Gene: Toneprano_87 Start: 66908, Stop: 67729, Start Num: 7

Candidate Starts for Toneprano_87:

(Start: 7 @66908 has 9 MA's), (13, 67007), (14, 67028), (18, 67109), (19, 67118), (21, 67142), (25, 67208), (31, 67397), (32, 67403), (38, 67526), (40, 67583),

Gene: Twin_85 Start: 66936, Stop: 67757, Start Num: 7

Candidate Starts for Twin_85:

(Start: 7 @66936 has 9 MA's), (13, 67035), (14, 67056), (18, 67137), (19, 67146), (21, 67170), (25, 67236), (31, 67425), (32, 67431), (38, 67554), (40, 67611),

Gene: UBSmoodge_93 Start: 70944, Stop: 71720, Start Num: 7

Candidate Starts for UBSmoodge_93:

(1, 70725), (2, 70761), (Start: 7 @70944 has 9 MA's), (10, 70998), (13, 71046), (16, 71100), (19, 71157), (21, 71181), (31, 71394), (32, 71400), (33, 71409), (34, 71418), (38, 71523), (40, 71580), (44, 71670),