Pham 289916

1: Birdsong_77 + 1
2: Ecliptus_83
3: BotCity_83
4: Frickyeah_83
5: Horus_79 + 2
6: Kenna_76 + 1
7: Leroy_78
8: Kuwabara_79

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 289916 Report

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

Pham number 289916 has 12 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Birdsong_77, Asapag_78
• Track 2 : Ecliptus_83
• Track 3 : BotCity_83
• Track 4 : Frickyeah_83
• Track 5 : Horus_79, Phistory_76, Crater_77
• Track 6 : Kenna_76, Lutum_82
• Track 7 : Leroy_78
• Track 8 : Kuwabara_79

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

Genes that call this "Most Annotated" start:
• Asapag_78, Birdsong_77, BotCity_83, Crater_77, Ecliptus_83, Frickyeah_83, Horus_79, Kenna_76, Kuwabara_79, Leroy_78, Lutum_82, Phistory_76,

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

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

Summary by start number:

Start 3:
• Found in 12 of 12 (100.0%) of genes in pham
• Manual Annotations of this start: 11 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Asapag_78 (DN1), Birdsong_77 (DN), BotCity_83 (DN), Crater_77 (DN3), Ecliptus_83 (DN), Frickyeah_83 (DN1), Horus_79 (DN1), Kenna_76 (DN1), Kuwabara_79 (DN4), Leroy_78 (DN1), Lutum_82 (DN1), Phistory_76 (DN1),

Summary by clusters:

There are 4 clusters represented in this pham: DN, DN4, DN1, DN3,

Info for manual annotations of cluster DN:
•Start number 3 was manually annotated 3 times for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 3 was manually annotated 6 times for cluster DN1.

Info for manual annotations of cluster DN3:
•Start number 3 was manually annotated 1 time for cluster DN3.

Info for manual annotations of cluster DN4:
•Start number 3 was manually annotated 1 time for cluster DN4.

Gene Information:

Gene: Asapag_78 Start: 44830, Stop: 45786, Start Num: 3
Candidate Starts for Asapag_78:
(Start: 3 @44830 has 11 MA's), (4, 44908), (8, 44983), (9, 44986), (11, 45049), (13, 45079), (14, 45082), (17, 45133), (19, 45199), (23, 45292), (25, 45364), (29, 45484), (30, 45487), (33, 45526), (35, 45601), (36, 45604), (39, 45652), (40, 45712),

Gene: Birdsong_77 Start: 44566, Stop: 45522, Start Num: 3
Candidate Starts for Birdsong_77:
(Start: 3 @44566 has 11 MA's), (4, 44644), (8, 44719), (9, 44722), (11, 44785), (13, 44815), (14, 44818), (17, 44869), (19, 44935), (23, 45028), (25, 45100), (29, 45220), (30, 45223), (33, 45262), (35, 45337), (36, 45340), (39, 45388), (40, 45448),

Gene: BotCity_83 Start: 47079, Stop: 47891, Start Num: 3
Candidate Starts for BotCity_83:
(1, 47025), (2, 47061), (Start: 3 @47079 has 11 MA's), (4, 47157), (5, 47169), (15, 47325), (16, 47340), (23, 47469), (24, 47541), (26, 47574), (27, 47664), (29, 47760), (30, 47763), (31, 47772), (32, 47778), (37, 47865),

Gene: Crater_77 Start: 44364, Stop: 45185, Start Num: 3
Candidate Starts for Crater_77:
(Start: 3 @44364 has 11 MA's), (4, 44442), (5, 44454), (12, 44616), (21, 44820), (28, 44976), (29, 45039), (30, 45042), (31, 45051), (35, 45150), (38, 45168),

Gene: Ecliptus_83 Start: 47333, Stop: 48154, Start Num: 3
Candidate Starts for Ecliptus_83:
(1, 47279), (Start: 3 @47333 has 11 MA's), (4, 47411), (5, 47423), (12, 47585), (21, 47789), (28, 47945), (29, 48008), (30, 48011), (31, 48020), (35, 48119), (38, 48137),

Gene: Frickyeah_83 Start: 45702, Stop: 46463, Start Num: 3
Candidate Starts for Frickyeah_83:
(1, 45648), (2, 45684), (Start: 3 @45702 has 11 MA's), (4, 45780), (5, 45792), (6, 45807), (10, 45888), (14, 45951), (17, 45996), (20, 46059), (25, 46179), (29, 46299), (30, 46302), (32, 46317), (34, 46368),

Gene: Horus_79 Start: 46431, Stop: 47252, Start Num: 3
Candidate Starts for Horus_79:
(Start: 3 @46431 has 11 MA's), (4, 46509), (5, 46521), (12, 46683), (21, 46887), (28, 47043), (29, 47106), (30, 47109), (31, 47118), (35, 47217), (38, 47235),

Gene: Kenna_76 Start: 44823, Stop: 45635, Start Num: 3
Candidate Starts for Kenna_76:
(1, 44769), (Start: 3 @44823 has 11 MA's), (4, 44901), (5, 44913), (15, 45069), (16, 45084), (23, 45213), (24, 45285), (26, 45318), (27, 45408), (29, 45504), (30, 45507), (31, 45516), (32, 45522), (37, 45609),

Gene: Kuwabara_79 Start: 46663, Stop: 47598, Start Num: 3
Candidate Starts for Kuwabara_79:
(1, 46609), (Start: 3 @46663 has 11 MA's), (4, 46741), (5, 46753), (8, 46816), (9, 46819), (11, 46882), (13, 46912), (14, 46915), (17, 46966), (19, 47032), (22, 47107), (24, 47215), (26, 47248), (27, 47338), (29, 47434), (30, 47437),

Gene: Leroy_78 Start: 44626, Stop: 45447, Start Num: 3
Candidate Starts for Leroy_78:
(Start: 3 @44626 has 11 MA's), (4, 44701), (5, 44713), (7, 44764), (18, 44998), (21, 45082), (28, 45238), (29, 45301), (30, 45304), (31, 45313), (35, 45412), (38, 45430),

Gene: Lutum_82 Start: 45985, Stop: 46797, Start Num: 3
Candidate Starts for Lutum_82:
(1, 45931), (Start: 3 @45985 has 11 MA's), (4, 46063), (5, 46075), (15, 46231), (16, 46246), (23, 46375), (24, 46447), (26, 46480), (27, 46570), (29, 46666), (30, 46669), (31, 46678), (32, 46684), (37, 46771),

Gene: Phistory_76 Start: 43529, Stop: 44350, Start Num: 3
Candidate Starts for Phistory_76:
(Start: 3 @43529 has 11 MA's), (4, 43607), (5, 43619), (12, 43781), (21, 43985), (28, 44141), (29, 44204), (30, 44207), (31, 44216), (35, 44315), (38, 44333),