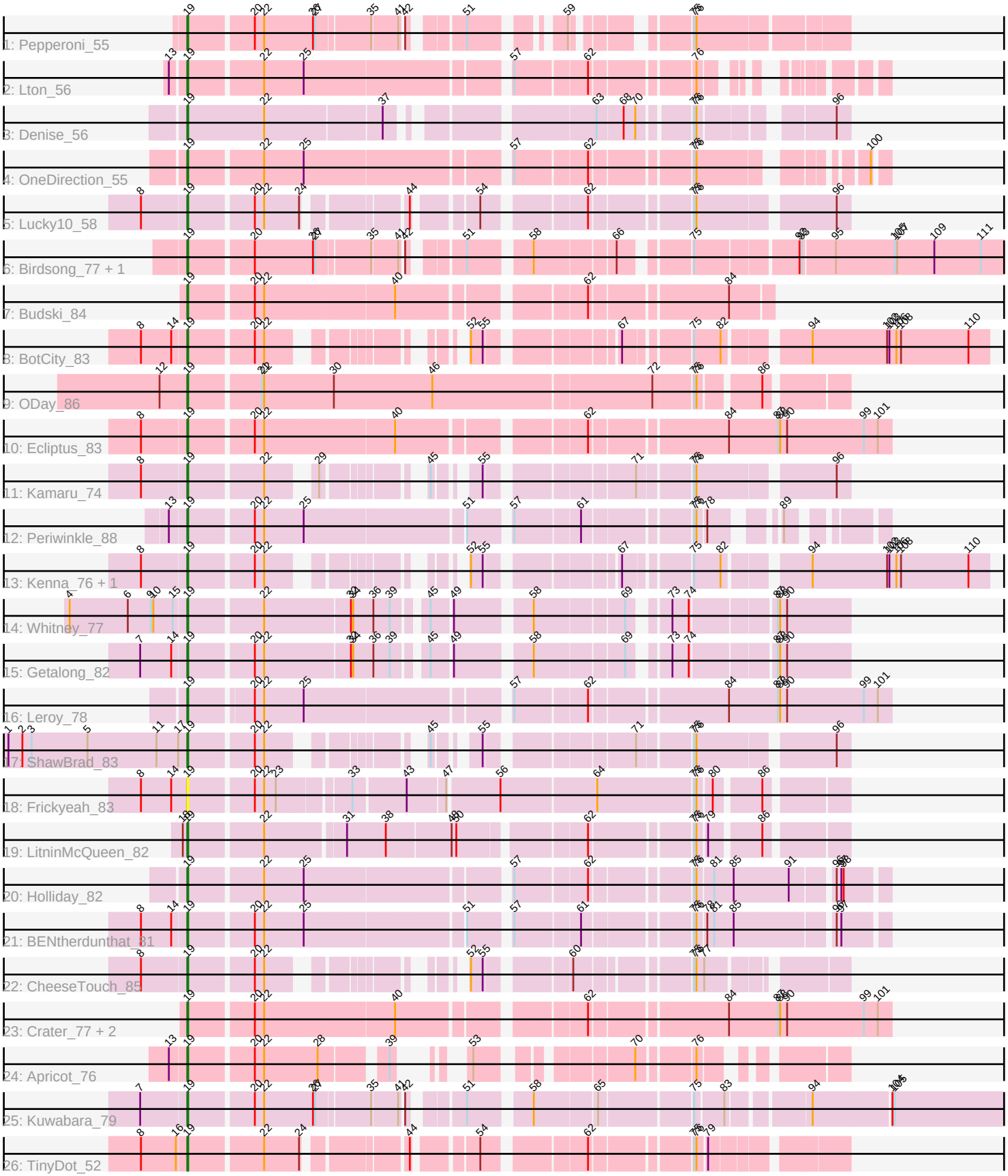
Pham 347902


1: Pepperoni_55
2: Lton_56
3: Denise_56
4: OneDirection_55
5: Lucky10_58
6: Birdsong_77 + 1
7: Budski_84
8: BotCity_83
9: ODay_86
10: Ecliptus_83
11: Kamaru_74
12: Periwinkle_88
13: Kenna_76 + 1
14: Whitney_77
15: Getalong_82
16: Leroy_78
17: ShawBrad_83
18: Frickyeah_83
19: LitninMcQueen_82
20: Holliday_82
21: BENtherdunthat_81
22: CheeseTouch_85
23: Crater_77 + 2
24: Apricot_76
25: Kuwabara_79
26: TinyDot_52

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 347902 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347902 has 30 members, 1 are drafts.

Phages represented in each track:
- Track 1 : Pepperoni_55
- Track 2 : Lton_56
- Track 3 : Denise_56
- Track 4 : OneDirection_55
- Track 5 : Lucky10_58
- Track 6 : Birdsong_77, Asapag_78
- Track 7 : Budski_84
- Track 8 : BotCity_83
- Track 9 : ODay_86
- Track 10 : Ecliptus_83
- Track 11 : Kamaru_74
- Track 12 : Periwinkle_88
- Track 13 : Kenna_76, Lutum_82
- Track 14 : Whitney_77
- Track 15 : Getalong_82
- Track 16 : Leroy_78
- Track 17 : ShawBrad_83
- Track 18 : Frickyeah_83
- Track 19 : LitninMcQueen_82
- Track 20 : Holliday_82
- Track 21 : BENtherdunthat_81
- Track 22 : CheeseTouch_85
- Track 23 : Crater_77, Horus_79, Phistory_76
- Track 24 : Apricot_76
- Track 25 : Kuwabara_79
- Track 26 : TinyDot_52

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

The start number called the most often in the published annotations is 19, it was called in 29 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Apricot_76, Asapag_78, BENtherdunthat_81, Birdsong_77, BotCity_83, Budski_84, CheeseTouch_85, Crater_77, Denise_56, Ecliptus_83, Frickyeah_83, Getalong_82, Holliday_82, Horus_79, Kamaru_74, Kenna_76, Kuwabara_79, Leroy_78, LitninMcQueen_82, Lton_56, Lucky10_58, Lutum_82, ODay_86, OneDirection_55, Pepperoni_55, Periwinkle_88, Phistory_76, ShawBrad_83, TinyDot_52, Whitney_77,

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 19:
• Found in 30 of 30 (100.0%) of genes in pham
• Manual Annotations of this start: 29 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Apricot_76 (DN3), Asapag_78 (DN1), BENtherdunthat_81 (DN1), Birdsong_77 (DN), BotCity_83 (DN), Budski_84 (DN), CheeseTouch_85 (DN1), Crater_77 (DN3), Denise_56 (CZ5), Ecliptus_83 (DN), Frickyeah_83 (DN1), Getalong_82 (DN1), Holliday_82 (DN1), Horus_79 (DN1), Kamaru_74 (DN1), Kenna_76 (DN1), Kuwabara_79 (DN4), Leroy_78 (DN1), LitninMcQueen_82 (DN1), Lton_56 (CZ), Lucky10_58 (DH), Lutum_82 (DN1), ODay_86 (DN), OneDirection_55 (CZ6), Pepperoni_55 (CZ), Periwinkle_88 (DN1), Phistory_76 (DN1), ShawBrad_83 (DN1), TinyDot_52 (singleton), Whitney_77 (DN1),

Summary by clusters:

There are 9 clusters represented in this pham: DN, singleton, DH, DN4, CZ6, CZ5, CZ, DN1, DN3,

Info for manual annotations of cluster CZ:
•Start number 19 was manually annotated 2 times for cluster CZ.

Info for manual annotations of cluster CZ5:
•Start number 19 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster CZ6:
•Start number 19 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster DH:
•Start number 19 was manually annotated 1 time for cluster DH.

Info for manual annotations of cluster DN:
•Start number 19 was manually annotated 5 times for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 19 was manually annotated 15 times for cluster DN1.

Info for manual annotations of cluster DN3:
•Start number 19 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster DN4:
•Start number 19 was manually annotated 1 time for cluster DN4.

Gene Information:

Gene: Apricot_76 Start: 43822, Stop: 44436, Start Num: 19
Candidate Starts for Apricot_76:
(13, 43801), (Start: 19 @43822 has 29 MA's), (20, 43900), (22, 43912), (28, 43981), (39, 44053), (53, 44080), (70, 44233), (76, 44296),

Gene: Asapag_78 Start: 44830, Stop: 45786, Start Num: 19
Candidate Starts for Asapag_78:
(Start: 19 @44830 has 29 MA's), (20, 44908), (26, 44983), (27, 44986), (35, 45049), (41, 45079), (42, 45082), (51, 45133), (58, 45199), (66, 45292), (75, 45364), (92, 45484), (93, 45487), (95, 45526), (105, 45601), (107, 45604), (109, 45652), (111, 45712),

Gene: BENtherdunthat_81 Start: 45571, Stop: 46362, Start Num: 19
Candidate Starts for BENtherdunthat_81:
(8, 45517), (14, 45553), (Start: 19 @45571 has 29 MA's), (20, 45649), (22, 45661), (25, 45712), (51, 45901), (57, 45946), (61, 46021), (75, 46141), (76, 46144), (78, 46153), (81, 46162), (85, 46186), (96, 46303), (97, 46309),

Gene: Birdsong_77 Start: 44566, Stop: 45522, Start Num: 19
Candidate Starts for Birdsong_77:
(Start: 19 @44566 has 29 MA's), (20, 44644), (26, 44719), (27, 44722), (35, 44785), (41, 44815), (42, 44818), (51, 44869), (58, 44935), (66, 45028), (75, 45100), (92, 45220), (93, 45223), (95, 45262), (105, 45337), (107, 45340), (109, 45388), (111, 45448),

Gene: BotCity_83 Start: 47079, Stop: 47891, Start Num: 19
Candidate Starts for BotCity_83:
(8, 47025), (14, 47061), (Start: 19 @47079 has 29 MA's), (20, 47157), (22, 47169), (52, 47325), (55, 47340), (67, 47469), (75, 47541), (82, 47574), (94, 47664), (102, 47760), (103, 47763), (106, 47772), (108, 47778), (110, 47865),

Gene: Budski_84 Start: 46675, Stop: 47340, Start Num: 19
Candidate Starts for Budski_84:
(Start: 19 @46675 has 29 MA's), (20, 46753), (22, 46765), (40, 46927), (62, 47131), (84, 47287),

Gene: CheeseTouch_85 Start: 42327, Stop: 42953, Start Num: 19
Candidate Starts for CheeseTouch_85:
(8, 42273), (Start: 19 @42327 has 29 MA's), (20, 42405), (22, 42417), (52, 42573), (55, 42588), (60, 42669), (75, 42789), (76, 42792), (77, 42801),

Gene: Crater_77 Start: 44364, Stop: 45185, Start Num: 19
Candidate Starts for Crater_77:
(Start: 19 @44364 has 29 MA's), (20, 44442), (22, 44454), (40, 44616), (62, 44820), (84, 44976), (87, 45039), (88, 45042), (90, 45051), (99, 45150), (101, 45168),

Gene: Denise_56 Start: 35910, Stop: 36626, Start Num: 19
Candidate Starts for Denise_56:

(Start: 19 @35910 has 29 MA's), (22, 36009), (37, 36150), (63, 36363), (68, 36393), (70, 36408), (75, 36465), (76, 36468), (96, 36609),

Gene: Ecliptus_83 Start: 47333, Stop: 48154, Start Num: 19
Candidate Starts for Ecliptus_83:
(8, 47279), (Start: 19 @47333 has 29 MA's), (20, 47411), (22, 47423), (40, 47585), (62, 47789), (84, 47945), (87, 48008), (88, 48011), (90, 48020), (99, 48119), (101, 48137),

Gene: Frickyeah_83 Start: 45702, Stop: 46463, Start Num: 19
Candidate Starts for Frickyeah_83:
(8, 45648), (14, 45684), (Start: 19 @45702 has 29 MA's), (20, 45780), (22, 45792), (23, 45807), (33, 45888), (43, 45951), (47, 45996), (56, 46059), (64, 46179), (75, 46299), (76, 46302), (80, 46317), (86, 46368),

Gene: Getalong_82 Start: 46997, Stop: 47734, Start Num: 19
Candidate Starts for Getalong_82:
(7, 46943), (14, 46979), (Start: 19 @46997 has 29 MA's), (20, 47075), (22, 47087), (32, 47195), (34, 47198), (36, 47222), (39, 47243), (45, 47276), (49, 47300), (58, 47384), (69, 47489), (73, 47525), (74, 47546), (87, 47642), (88, 47645), (90, 47654),

Gene: Holliday_82 Start: 48542, Stop: 49330, Start Num: 19
Candidate Starts for Holliday_82:
(Start: 19 @48542 has 29 MA's), (22, 48632), (25, 48683), (57, 48917), (62, 49001), (75, 49109), (76, 49112), (81, 49130), (85, 49154), (91, 49223), (96, 49271), (97, 49277), (98, 49280),

Gene: Horus_79 Start: 46431, Stop: 47252, Start Num: 19
Candidate Starts for Horus_79:
(Start: 19 @46431 has 29 MA's), (20, 46509), (22, 46521), (40, 46683), (62, 46887), (84, 47043), (87, 47106), (88, 47109), (90, 47118), (99, 47217), (101, 47235),

Gene: Kamaru_74 Start: 44161, Stop: 44814, Start Num: 19
Candidate Starts for Kamaru_74:
(8, 44107), (Start: 19 @44161 has 29 MA's), (22, 44251), (29, 44296), (45, 44386), (55, 44422), (71, 44575), (75, 44635), (76, 44638), (96, 44797),

Gene: Kenna_76 Start: 44823, Stop: 45635, Start Num: 19
Candidate Starts for Kenna_76:
(8, 44769), (Start: 19 @44823 has 29 MA's), (20, 44901), (22, 44913), (52, 45069), (55, 45084), (67, 45213), (75, 45285), (82, 45318), (94, 45408), (102, 45504), (103, 45507), (106, 45516), (108, 45522), (110, 45609),

Gene: Kuwabara_79 Start: 46663, Stop: 47598, Start Num: 19
Candidate Starts for Kuwabara_79:
(7, 46609), (Start: 19 @46663 has 29 MA's), (20, 46741), (22, 46753), (26, 46816), (27, 46819), (35, 46882), (41, 46912), (42, 46915), (51, 46966), (58, 47032), (65, 47107), (75, 47215), (83, 47248), (94, 47338), (104, 47434), (105, 47437),

Gene: Leroy_78 Start: 44626, Stop: 45447, Start Num: 19
Candidate Starts for Leroy_78:
(Start: 19 @44626 has 29 MA's), (20, 44701), (22, 44713), (25, 44764), (57, 44998), (62, 45082), (84, 45238), (87, 45301), (88, 45304), (90, 45313), (99, 45412), (101, 45430),

Gene: LitninMcQueen_82 Start: 45874, Stop: 46599, Start Num: 19

Candidate Starts for LitninMcQueen_82:
(18, 45868), (Start: 19 @45874 has 29 MA's), (22, 45964), (31, 46054), (38, 46102), (48, 46180), (50, 46186), (62, 46327), (75, 46435), (76, 46438), (79, 46447), (86, 46504),

Gene: Lton_56 Start: 33761, Stop: 34471, Start Num: 19
Candidate Starts for Lton_56:
(13, 33743), (Start: 19 @33761 has 29 MA's), (22, 33851), (25, 33902), (57, 34136), (62, 34220), (76, 34331),

Gene: Lucky10_58 Start: 36978, Stop: 37679, Start Num: 19
Candidate Starts for Lucky10_58:
(8, 36924), (Start: 19 @36978 has 29 MA's), (20, 37056), (22, 37068), (24, 37113), (44, 37218), (54, 37284), (62, 37392), (75, 37500), (76, 37503), (96, 37662),

Gene: Lutum_82 Start: 45985, Stop: 46797, Start Num: 19
Candidate Starts for Lutum_82:
(8, 45931), (Start: 19 @45985 has 29 MA's), (20, 46063), (22, 46075), (52, 46231), (55, 46246), (67, 46375), (75, 46447), (82, 46480), (94, 46570), (102, 46666), (103, 46669), (106, 46678), (108, 46684), (110, 46771),

Gene: ODay_86 Start: 47792, Stop: 48577, Start Num: 19
Candidate Starts for ODay_86:
(12, 47759), (Start: 19 @47792 has 29 MA's), (21, 47879), (22, 47882), (30, 47972), (46, 48098), (72, 48365), (75, 48413), (76, 48416), (86, 48482),

Gene: OneDirection_55 Start: 33949, Stop: 34695, Start Num: 19
Candidate Starts for OneDirection_55:
(Start: 19 @33949 has 29 MA's), (22, 34039), (25, 34090), (57, 34324), (62, 34408), (75, 34516), (76, 34519), (100, 34678),

Gene: Pepperoni_55 Start: 35253, Stop: 35927, Start Num: 19
Candidate Starts for Pepperoni_55:
(Start: 19 @35253 has 29 MA's), (20, 35331), (22, 35343), (26, 35406), (27, 35409), (35, 35472), (41, 35502), (42, 35505), (51, 35556), (59, 35640), (75, 35748), (76, 35751),

Gene: Periwinkle_88 Start: 47628, Stop: 48359, Start Num: 19
Candidate Starts for Periwinkle_88:
(13, 47607), (Start: 19 @47628 has 29 MA's), (20, 47703), (22, 47715), (25, 47766), (51, 47955), (57, 48000), (61, 48075), (75, 48195), (76, 48198), (78, 48207), (89, 48264),

Gene: Phistory_76 Start: 43529, Stop: 44350, Start Num: 19
Candidate Starts for Phistory_76:
(Start: 19 @43529 has 29 MA's), (20, 43607), (22, 43619), (40, 43781), (62, 43985), (84, 44141), (87, 44204), (88, 44207), (90, 44216), (99, 44315), (101, 44333),

Gene: ShawBrad_83 Start: 45314, Stop: 45967, Start Num: 19
Candidate Starts for ShawBrad_83:
(1, 45086), (2, 45104), (3, 45116), (5, 45188), (11, 45275), (17, 45302), (Start: 19 @45314 has 29 MA's), (20, 45392), (22, 45404), (45, 45539), (55, 45575), (71, 45728), (75, 45788), (76, 45791), (96, 45950),

Gene: TinyDot_52 Start: 33073, Stop: 33759, Start Num: 19
Candidate Starts for TinyDot_52:

(8, 33019), (16, 33061), (Start: 19 @33073 has 29 MA's), (22, 33163), (24, 33208), (44, 33313), (54, 33379), (62, 33487), (75, 33595), (76, 33598), (79, 33607),

Gene: Whitney_77 Start: 46318, Stop: 47055, Start Num: 19
Candidate Starts for Whitney_77:
(4, 46171), (6, 46246), (9, 46276), (10, 46279), (15, 46303), (Start: 19 @46318 has 29 MA's), (22, 46408), (32, 46516), (34, 46519), (36, 46543), (39, 46564), (45, 46597), (49, 46621), (58, 46705), (69, 46810), (73, 46846), (74, 46867), (87, 46963), (88, 46966), (90, 46975),