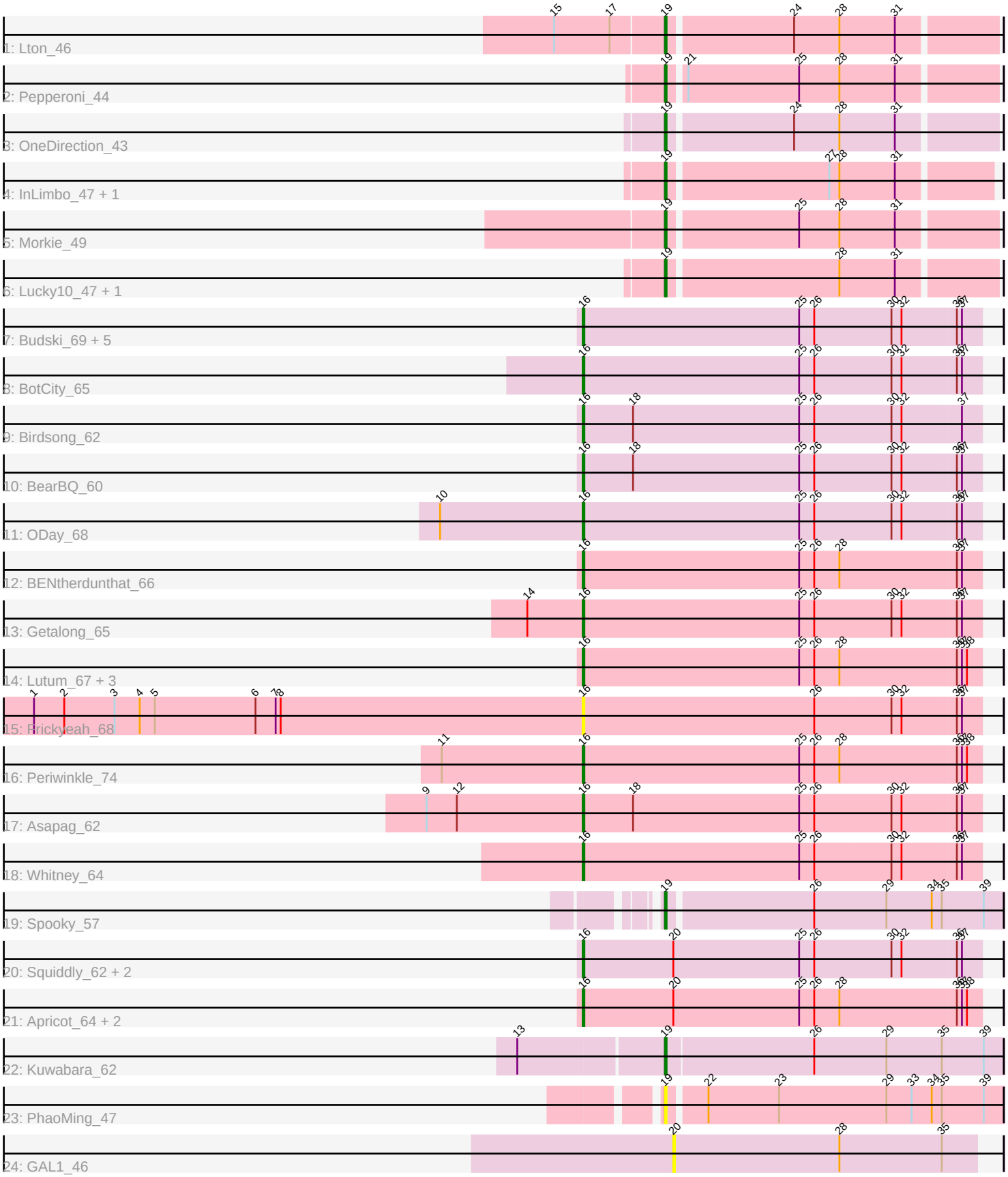
Pham 347812


1: Lton_46
2: Pepperoni_44
3: OneDirection_43
4: InLimbo_47 + 1
5: Morkie_49
6: Lucky10_47 + 1
7: Budski_69 + 5
8: BotCity_65
9: Birdsong_62
10: BearBQ_60
11: ODay_68
12: BENtherdunthat_66
13: Getalong_65
14: Lutum_67 + 3
15: Brickyeah_68
16: Periwinkle_74
17: Asapag_62
18: Whitney_64
19: Spooky_57
20: Squiddly_62 + 2
21: Apricot_64 + 2
22: Kuwabara_62
23: PhaoMing_47
24: GAL1_46

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 347812 Report

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

Pham number 347812 has 38 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Lton_46
• Track 2 : Pepperoni_44
• Track 3 : OneDirection_43
• Track 4 : InLimbo_47, PhorbesPhlower_47
• Track 5 : Morkie_49
• Track 6 : Lucky10_47, Faith5x5_42
• Track 7 : Budski_69, Horus_63, Phistory_63, MortyNRick_58, Phabuloso_64, Holliday_66
• Track 8 : BotCity_65
• Track 9 : Birdsong_62
• Track 10 : BearBQ_60
• Track 11 : ODay_68
• Track 12 : BENtherdunthat_66
• Track 13 : Getalong_65
• Track 14 : Lutum_67, ShawBrad_68, Ecliptus_65, Kenna_62
• Track 15 : Frickyeah_68
• Track 16 : Periwinkle_74
• Track 17 : Asapag_62
• Track 18 : Whitney_64
• Track 19 : Spooky_57
• Track 20 : Squiddly_62, LitninMcQueen_60, Kamaru_61
• Track 21 : Apricot_64, Crater_64, Leroy_64
• Track 22 : Kuwabara_62
• Track 23 : PhaoMing_47
• Track 24 : GAL1_46

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

The start number called the most often in the published annotations is 16, it was called in 25 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Apricot_64, Asapag_62, BENtherdunthat_66, BearBQ_60, Birdsong_62, BotCity_65, Budski_69, Crater_64, Ecliptus_65, Frickyeah_68, Getalong_65, Holliday_66,

Horus_63, Kamaru_61, Kenna_62, Leroy_64, LitninMcQueen_60, Lutum_67, MortyNRick_58, ODay_68, Periwinkle_74, Phabuloso_64, Phistory_63, ShawBrad_68, Squiddly_62, Whitney_64,

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

Genes that do not have the "Most Annotated" start:
• Faith5x5_42, GAL1_46, InLimbo_47, Kuwabara_62, Lton_46, Lucky10_47, Morkie_49, OneDirection_43, Pepperoni_44, PhaoMing_47, PhorbesPhlower_47, Spooky_57,

Summary by start number:

Start 16:
• Found in 26 of 38 (68.4%) of genes in pham
• Manual Annotations of this start: 25 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Apricot_64 (DN3), Asapag_62 (DN1), BENtherdunthat_66 (DN1), BearBQ_60 (DN), Birdsong_62 (DN), BotCity_65 (DN), Budski_69 (DN), Crater_64 (DN3), Ecliptus_65 (DN), Frickyeah_68 (DN1), Getalong_65 (DN1), Holliday_66 (DN1), Horus_63 (DN1), Kamaru_61 (DN1), Kenna_62 (DN1), Leroy_64 (DN1), LitninMcQueen_60 (DN1), Lutum_67 (DN1), MortyNRick_58 (DN), ODay_68 (DN), Periwinkle_74 (DN1), Phabuloso_64 (DN1), Phistory_63 (DN1), ShawBrad_68 (DN1), Squiddly_62 (DN2), Whitney_64 (DN1),

Start 19:
• Found in 11 of 38 (28.9%) of genes in pham
• Manual Annotations of this start: 9 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Faith5x5_42 (CZ6), InLimbo_47 (DH), Kuwabara_62 (DN4), Lton_46 (CZ), Lucky10_47 (DH), Morkie_49 (DH), OneDirection_43 (CZ6), Pepperoni_44 (CZ), PhaoMing_47 (UNK), PhorbesPhlower_47 (DH), Spooky_57 (DN2),

Start 20:
• Found in 7 of 38 (18.4%) of genes in pham
• No Manual Annotations of this start.
• Called 14.3% of time when present
• Phage (with cluster) where this start called: GAL1_46 (singleton),

Summary by clusters:

There are 10 clusters represented in this pham: DN, singleton, DH, CZ, CZ6, DN4, DN1, DN3, DN2, UNK,

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

Info for manual annotations of cluster CZ6:
•Start number 19 was manually annotated 2 times for cluster CZ6.

Info for manual annotations of cluster DH:

•Start number 19 was manually annotated 3 times for cluster DH.

Info for manual annotations of cluster DN:
•Start number 16 was manually annotated 7 times for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 16 was manually annotated 15 times for cluster DN1.

Info for manual annotations of cluster DN2:
•Start number 16 was manually annotated 1 time for cluster DN2.
•Start number 19 was manually annotated 1 time for cluster DN2.

Info for manual annotations of cluster DN3:
•Start number 16 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_64 Start: 39325, Stop: 39558, Start Num: 16
Candidate Starts for Apricot_64:
(Start: 16 @39325 has 25 MA's), (20, 39379), (25, 39454), (26, 39463), (28, 39478), (36, 39544), (37, 39547), (38, 39550),

Gene: Asapag_62 Start: 38801, Stop: 39034, Start Num: 16
Candidate Starts for Asapag_62:
(9, 38708), (12, 38726), (Start: 16 @38801 has 25 MA's), (18, 38831), (25, 38930), (26, 38939), (30, 38984), (32, 38990), (36, 39020), (37, 39023),

Gene: BENtherdunthat_66 Start: 40285, Stop: 40518, Start Num: 16
Candidate Starts for BENtherdunthat_66:
(Start: 16 @40285 has 25 MA's), (25, 40414), (26, 40423), (28, 40438), (36, 40504), (37, 40507),

Gene: BearBQ_60 Start: 40529, Stop: 40762, Start Num: 16
Candidate Starts for BearBQ_60:
(Start: 16 @40529 has 25 MA's), (18, 40559), (25, 40658), (26, 40667), (30, 40712), (32, 40718), (36, 40748), (37, 40751),

Gene: Birdsong_62 Start: 39196, Stop: 39429, Start Num: 16
Candidate Starts for Birdsong_62:
(Start: 16 @39196 has 25 MA's), (18, 39226), (25, 39325), (26, 39334), (30, 39379), (32, 39385), (37, 39418),

Gene: BotCity_65 Start: 40477, Stop: 40710, Start Num: 16
Candidate Starts for BotCity_65:
(Start: 16 @40477 has 25 MA's), (25, 40606), (26, 40615), (30, 40660), (32, 40666), (36, 40696), (37, 40699),

Gene: Budski_69 Start: 41317, Stop: 41550, Start Num: 16

Candidate Starts for Budski_69:
(Start: 16 @41317 has 25 MA's), (25, 41446), (26, 41455), (30, 41500), (32, 41506), (36, 41536), (37, 41539),

Gene: Crater_64 Start: 39720, Stop: 39953, Start Num: 16
Candidate Starts for Crater_64:
(Start: 16 @39720 has 25 MA's), (20, 39774), (25, 39849), (26, 39858), (28, 39873), (36, 39939), (37, 39942), (38, 39945),

Gene: Ecliptus_65 Start: 41517, Stop: 41750, Start Num: 16
Candidate Starts for Ecliptus_65:
(Start: 16 @41517 has 25 MA's), (25, 41646), (26, 41655), (28, 41670), (36, 41736), (37, 41739), (38, 41742),

Gene: Faith5x5_42 Start: 30278, Stop: 30463, Start Num: 19
Candidate Starts for Faith5x5_42:
(Start: 19 @30278 has 9 MA's), (28, 30377), (31, 30410),

Gene: Frickyeah_68 Start: 39812, Stop: 40045, Start Num: 16
Candidate Starts for Frickyeah_68:
(1, 39485), (2, 39503), (3, 39533), (4, 39548), (5, 39557), (6, 39617), (7, 39629), (8, 39632), (Start: 16 @39812 has 25 MA's), (26, 39950), (30, 39995), (32, 40001), (36, 40031), (37, 40034),

Gene: GAL1_46 Start: 34604, Stop: 34783, Start Num: 20
Candidate Starts for GAL1_46:
(20, 34604), (28, 34703), (35, 34763),

Gene: Getalong_65 Start: 41179, Stop: 41412, Start Num: 16
Candidate Starts for Getalong_65:
(14, 41146), (Start: 16 @41179 has 25 MA's), (25, 41308), (26, 41317), (30, 41362), (32, 41368), (36, 41398), (37, 41401),

Gene: Holliday_66 Start: 41153, Stop: 41386, Start Num: 16
Candidate Starts for Holliday_66:
(Start: 16 @41153 has 25 MA's), (25, 41282), (26, 41291), (30, 41336), (32, 41342), (36, 41372), (37, 41375),

Gene: Horus_63 Start: 40387, Stop: 40620, Start Num: 16
Candidate Starts for Horus_63:
(Start: 16 @40387 has 25 MA's), (25, 40516), (26, 40525), (30, 40570), (32, 40576), (36, 40606), (37, 40609),

Gene: InLimbo_47 Start: 32075, Stop: 32260, Start Num: 19
Candidate Starts for InLimbo_47:
(Start: 19 @32075 has 9 MA's), (27, 32168), (28, 32174), (31, 32207),

Gene: Kamaru_61 Start: 39381, Stop: 39614, Start Num: 16
Candidate Starts for Kamaru_61:
(Start: 16 @39381 has 25 MA's), (20, 39435), (25, 39510), (26, 39519), (30, 39564), (32, 39570), (36, 39600), (37, 39603),

Gene: Kenna_62 Start: 39350, Stop: 39583, Start Num: 16
Candidate Starts for Kenna_62:

(Start: 16 @39350 has 25 MA's), (25, 39479), (26, 39488), (28, 39503), (36, 39569), (37, 39572), (38, 39575),

Gene: Kuwabara_62 Start: 40677, Stop: 40874, Start Num: 19
Candidate Starts for Kuwabara_62:
(13, 40593), (Start: 19 @40677 has 9 MA's), (26, 40764), (29, 40806), (35, 40839), (39, 40863),

Gene: Leroy_64 Start: 39656, Stop: 39889, Start Num: 16
Candidate Starts for Leroy_64:
(Start: 16 @39656 has 25 MA's), (20, 39710), (25, 39785), (26, 39794), (28, 39809), (36, 39875), (37, 39878), (38, 39881),

Gene: LitninMcQueen_60 Start: 39128, Stop: 39361, Start Num: 16
Candidate Starts for LitninMcQueen_60:
(Start: 16 @39128 has 25 MA's), (20, 39182), (25, 39257), (26, 39266), (30, 39311), (32, 39317), (36, 39347), (37, 39350),

Gene: Lton_46 Start: 30324, Stop: 30512, Start Num: 19
Candidate Starts for Lton_46:
(15, 30261), (17, 30294), (Start: 19 @30324 has 9 MA's), (24, 30396), (28, 30423), (31, 30456),

Gene: Lucky10_47 Start: 33042, Stop: 33230, Start Num: 19
Candidate Starts for Lucky10_47:
(Start: 19 @33042 has 9 MA's), (28, 33141), (31, 33174),

Gene: Lutum_67 Start: 40514, Stop: 40747, Start Num: 16
Candidate Starts for Lutum_67:
(Start: 16 @40514 has 25 MA's), (25, 40643), (26, 40652), (28, 40667), (36, 40733), (37, 40736), (38, 40739),

Gene: Morkie_49 Start: 32379, Stop: 32567, Start Num: 19
Candidate Starts for Morkie_49:
(Start: 19 @32379 has 9 MA's), (25, 32454), (28, 32478), (31, 32511),

Gene: MortyNRick_58 Start: 40558, Stop: 40791, Start Num: 16
Candidate Starts for MortyNRick_58:
(Start: 16 @40558 has 25 MA's), (25, 40687), (26, 40696), (30, 40741), (32, 40747), (36, 40777), (37, 40780),

Gene: ODay_68 Start: 41458, Stop: 41691, Start Num: 16
Candidate Starts for ODay_68:
(10, 41374), (Start: 16 @41458 has 25 MA's), (25, 41587), (26, 41596), (30, 41641), (32, 41647), (36, 41677), (37, 41680),

Gene: OneDirection_43 Start: 29772, Stop: 29960, Start Num: 19
Candidate Starts for OneDirection_43:
(Start: 19 @29772 has 9 MA's), (24, 29844), (28, 29871), (31, 29904),

Gene: Pepperoni_44 Start: 31534, Stop: 31722, Start Num: 19
Candidate Starts for Pepperoni_44:
(Start: 19 @31534 has 9 MA's), (21, 31543), (25, 31609), (28, 31633), (31, 31666),

Gene: Periwinkle_74 Start: 42820, Stop: 43053, Start Num: 16

Candidate Starts for Periwinkle_74:
(11, 42736), (Start: 16 @42820 has 25 MA's), (25, 42949), (26, 42958), (28, 42973), (36, 43039), (37, 43042), (38, 43045),

Gene: Phabuloso_64 Start: 39559, Stop: 39792, Start Num: 16
Candidate Starts for Phabuloso_64:
(Start: 16 @39559 has 25 MA's), (25, 39688), (26, 39697), (30, 39742), (32, 39748), (36, 39778), (37, 39781),

Gene: PhaoMing_47 Start: 35899, Stop: 36093, Start Num: 19
Candidate Starts for PhaoMing_47:
(Start: 19 @35899 has 9 MA's), (22, 35920), (23, 35962), (29, 36025), (33, 36040), (34, 36052), (35, 36058), (39, 36082),

Gene: Phistory_63 Start: 38885, Stop: 39118, Start Num: 16
Candidate Starts for Phistory_63:
(Start: 16 @38885 has 25 MA's), (25, 39014), (26, 39023), (30, 39068), (32, 39074), (36, 39104), (37, 39107),

Gene: PhorbesPhlower_47 Start: 31528, Stop: 31713, Start Num: 19
Candidate Starts for PhorbesPhlower_47:
(Start: 19 @31528 has 9 MA's), (27, 31621), (28, 31627), (31, 31660),

Gene: ShawBrad_68 Start: 39976, Stop: 40209, Start Num: 16
Candidate Starts for ShawBrad_68:
(Start: 16 @39976 has 25 MA's), (25, 40105), (26, 40114), (28, 40129), (36, 40195), (37, 40198), (38, 40201),

Gene: Spooky_57 Start: 38296, Stop: 38490, Start Num: 19
Candidate Starts for Spooky_57:
(Start: 19 @38296 has 9 MA's), (26, 38380), (29, 38422), (34, 38449), (35, 38455), (39, 38479),

Gene: Squiddly_62 Start: 40715, Stop: 40948, Start Num: 16
Candidate Starts for Squiddly_62:
(Start: 16 @40715 has 25 MA's), (20, 40769), (25, 40844), (26, 40853), (30, 40898), (32, 40904), (36, 40934), (37, 40937),

Gene: Whitney_64 Start: 41230, Stop: 41463, Start Num: 16
Candidate Starts for Whitney_64:
(Start: 16 @41230 has 25 MA's), (25, 41359), (26, 41368), (30, 41413), (32, 41419), (36, 41449), (37, 41452),