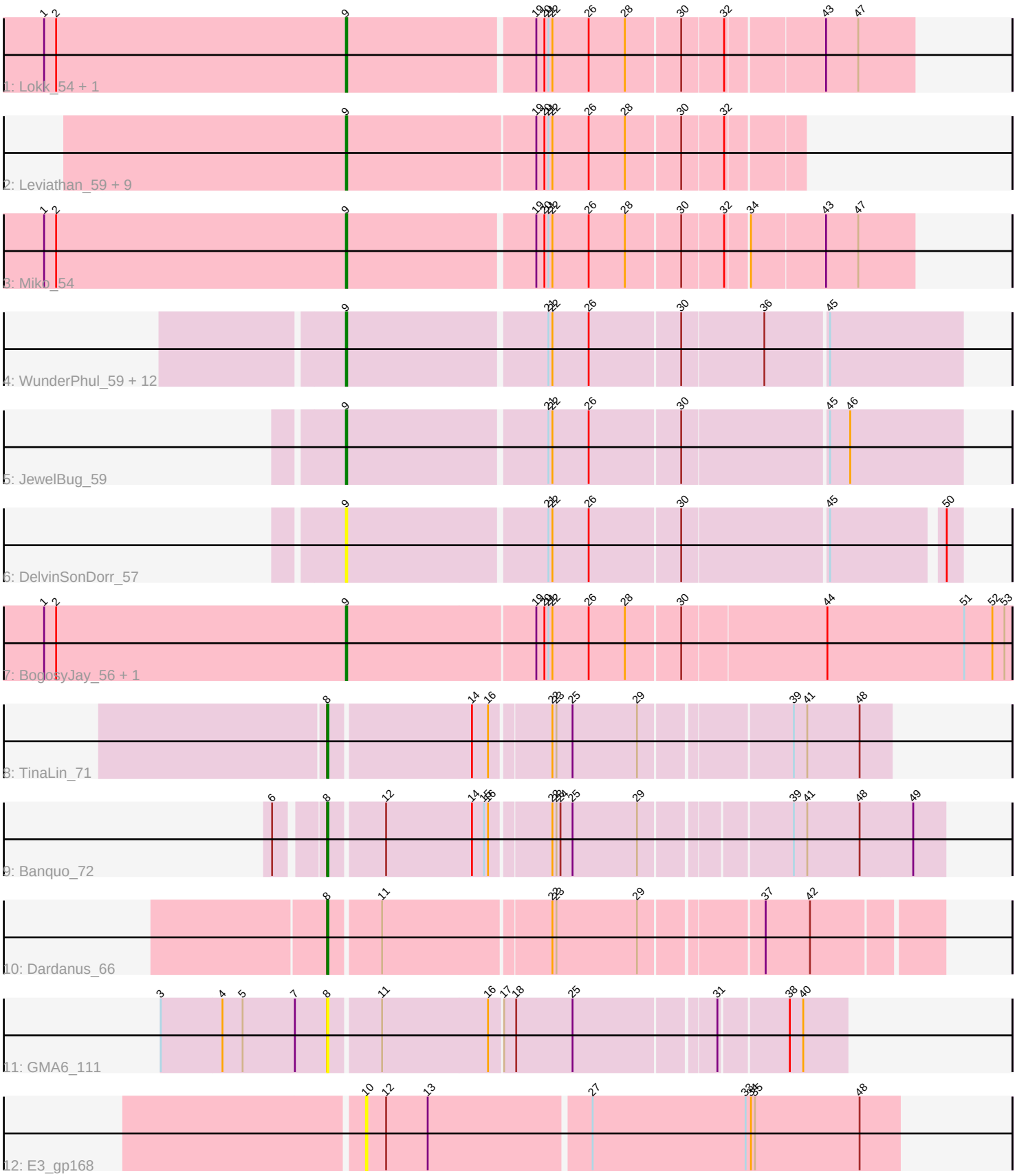
Pham 347852


1: Lokk_54 + 1
2: Leviathan_59 + 9
3: Miko_54
4: WunderPhul_59 + 12
5: JewelBug_59
6: DelvinSonDorr_57
7: BogosyJay_56 + 1
8: TinaLin_71
9: Banquo_72
10: Dardanus_66
11: GMA6_111
12: E3_gp168

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 347852 Report

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

Pham number 347852 has 35 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Lokk_54, Rachaly_56
• Track 2 : Leviathan_59, LilTurb_58, Dignity_59, AbbyPaige_59, Agape74_59, Bugsy_59, Turbido_58, Whabigail7_58, Jerm_59, Smeagan_60
• Track 3 : Miko_54
• Track 4 : WunderPhul_59, Garak_61, BlessJoy_59, Zulu_60, Helmet_61, Temprado_60, Lilbunny_58, Artemis2UCLA_59, ToneTone_56, BennyP_59, Zaka_59, Indra_62, Yokurt_59
• Track 5 : JewelBug_59
• Track 6 : DelvinSonDorr_57
• Track 7 : BogosyJay_56, Maminiaina_56
• Track 8 : TinaLin_71
• Track 9 : Banquo_72
• Track 10 : Dardanus_66
• Track 11 : GMA6_111
• Track 12 : E3_gp168

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

The start number called the most often in the published annotations is 9, it was called in 28 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AbbyPaige_59, Agape74_59, Artemis2UCLA_59, BennyP_59, BlessJoy_59, BogosyJay_56, Bugsy_59, DelvinSonDorr_57, Dignity_59, Garak_61, Helmet_61, Indra_62, Jerm_59, JewelBug_59, Leviathan_59, LilTurb_58, Lilbunny_58, Lokk_54, Maminiaina_56, Miko_54, Rachaly_56, Smeagan_60, Temprado_60, ToneTone_56, Turbido_58, Whabigail7_58, WunderPhul_59, Yokurt_59, Zaka_59, Zulu_60,

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

Genes that do not have the "Most Annotated" start:
• Banquo_72, Dardanus_66, E3_gp168, GMA6_111, TinaLin_71,

Summary by start number:

Start 8:
• Found in 4 of 35 (11.4%) of genes in pham
• Manual Annotations of this start: 3 of 31
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Banquo_72 (CU1), Dardanus_66 (CU3), GMA6_111 (DQ), TinaLin_71 (CU1),

Start 9:
• Found in 30 of 35 (85.7%) of genes in pham
• Manual Annotations of this start: 28 of 31
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AbbyPaige_59 (A2), Agape74_59 (A2), Artemis2UCLA_59 (A6), BennyP_59 (A6), BlessJoy_59 (A6), BogosyJay_56 (A9), Bugsy_59 (A2), DelvinSonDorr_57 (A6), Dignity_59 (A2), Garak_61 (A6), Helmet_61 (A6), Indra_62 (A6), Jerm_59 (A2), JewelBug_59 (A6), Leviathan_59 (A2), LilTurb_58 (A2), Lilbunny_58 (A6), Lokk_54 (A2), Maminiaina_56 (A9), Miko_54 (A2), Rachaly_56 (A2), Smeagan_60 (A2), Temprado_60 (A6), ToneTone_56 (A6), Turbido_58 (A2), Whabigail7_58 (A2), WunderPhul_59 (A6), Yokurt_59 (A6), Zaka_59 (A6), Zulu_60 (A6),

Start 10:
• Found in 1 of 35 (2.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: E3_gp168 (singleton),

Summary by clusters:

There are 7 clusters represented in this pham: singleton, CU3, CU1, A2, A6, A9, DQ,

Info for manual annotations of cluster A2:
•Start number 9 was manually annotated 13 times for cluster A2.

Info for manual annotations of cluster A6:
•Start number 9 was manually annotated 13 times for cluster A6.

Info for manual annotations of cluster A9:
•Start number 9 was manually annotated 2 times for cluster A9.

Info for manual annotations of cluster CU1:
•Start number 8 was manually annotated 2 times for cluster CU1.

Info for manual annotations of cluster CU3:
•Start number 8 was manually annotated 1 time for cluster CU3.

Gene Information:

Gene: AbbyPaige_59 Start: 38506, Stop: 38180, Start Num: 9

Candidate Starts for AbbyPaige_59:
(Start: 9 @38506 has 28 MA's), (19, 38368), (20, 38362), (21, 38359), (22, 38356), (26, 38329), (28, 38302), (30, 38263), (32, 38233),

Gene: Agape74_59 Start: 38500, Stop: 38174, Start Num: 9
Candidate Starts for Agape74_59:
(Start: 9 @38500 has 28 MA's), (19, 38362), (20, 38356), (21, 38353), (22, 38350), (26, 38323), (28, 38296), (30, 38257), (32, 38227),

Gene: Artemis2UCLA_59 Start: 37105, Stop: 36662, Start Num: 9
Candidate Starts for Artemis2UCLA_59:
(Start: 9 @37105 has 28 MA's), (21, 36961), (22, 36958), (26, 36931), (30, 36865), (36, 36805), (45, 36760),

Gene: Banquo_72 Start: 42206, Stop: 42637, Start Num: 8
Candidate Starts for Banquo_72:
(6, 42176), (Start: 8 @42206 has 3 MA's), (12, 42245), (14, 42308), (15, 42317), (16, 42320), (22, 42362), (23, 42365), (24, 42368), (25, 42377), (29, 42425), (39, 42527), (41, 42536), (48, 42575), (49, 42614),

Gene: BennyP_59 Start: 37175, Stop: 36732, Start Num: 9
Candidate Starts for BennyP_59:
(Start: 9 @37175 has 28 MA's), (21, 37031), (22, 37028), (26, 37001), (30, 36935), (36, 36875), (45, 36830),

Gene: BlessJoy_59 Start: 37531, Stop: 37088, Start Num: 9
Candidate Starts for BlessJoy_59:
(Start: 9 @37531 has 28 MA's), (21, 37387), (22, 37384), (26, 37357), (30, 37291), (36, 37231), (45, 37186),

Gene: BogosyJay_56 Start: 37976, Stop: 37491, Start Num: 9
Candidate Starts for BogosyJay_56:
(1, 38201), (2, 38192), (Start: 9 @37976 has 28 MA's), (19, 37838), (20, 37832), (21, 37829), (22, 37826), (26, 37799), (28, 37772), (30, 37733), (44, 37628), (51, 37526), (52, 37505), (53, 37496),

Gene: Bugsy_59 Start: 38557, Stop: 38231, Start Num: 9
Candidate Starts for Bugsy_59:
(Start: 9 @38557 has 28 MA's), (19, 38419), (20, 38413), (21, 38410), (22, 38407), (26, 38380), (28, 38353), (30, 38314), (32, 38284),

Gene: Dardanus_66 Start: 41025, Stop: 41453, Start Num: 8
Candidate Starts for Dardanus_66:
(Start: 8 @41025 has 3 MA's), (11, 41061), (22, 41181), (23, 41184), (29, 41244), (37, 41328), (42, 41361),

Gene: DelvinSonDorr_57 Start: 37255, Stop: 36821, Start Num: 9
Candidate Starts for DelvinSonDorr_57:
(Start: 9 @37255 has 28 MA's), (21, 37111), (22, 37108), (26, 37081), (30, 37015), (45, 36910), (50, 36832),

Gene: Dignity_59 Start: 38580, Stop: 38254, Start Num: 9
Candidate Starts for Dignity_59:

(Start: 9 @38580 has 28 MA's), (19, 38442), (20, 38436), (21, 38433), (22, 38430), (26, 38403), (28, 38376), (30, 38337), (32, 38307),

Gene: E3_gp168 Start: 115529, Stop: 115918, Start Num: 10
Candidate Starts for E3_gp168:
(10, 115529), (12, 115544), (13, 115574), (27, 115691), (33, 115805), (34, 115808), (35, 115811), (48, 115889),

Gene: GMA6_111 Start: 81832, Stop: 82194, Start Num: 8
Candidate Starts for GMA6_111:
(3, 81709), (4, 81754), (5, 81769), (7, 81808), (Start: 8 @81832 has 3 MA's), (11, 81868), (16, 81946), (17, 81955), (18, 81964), (25, 82006), (31, 82105), (38, 82153), (40, 82162),

Gene: Garak_61 Start: 37472, Stop: 37029, Start Num: 9
Candidate Starts for Garak_61:
(Start: 9 @37472 has 28 MA's), (21, 37328), (22, 37325), (26, 37298), (30, 37232), (36, 37172), (45, 37127),

Gene: Helmet_61 Start: 37472, Stop: 37029, Start Num: 9
Candidate Starts for Helmet_61:
(Start: 9 @37472 has 28 MA's), (21, 37328), (22, 37325), (26, 37298), (30, 37232), (36, 37172), (45, 37127),

Gene: Indra_62 Start: 37473, Stop: 37030, Start Num: 9
Candidate Starts for Indra_62:
(Start: 9 @37473 has 28 MA's), (21, 37329), (22, 37326), (26, 37299), (30, 37233), (36, 37173), (45, 37128),

Gene: Jerm_59 Start: 38572, Stop: 38246, Start Num: 9
Candidate Starts for Jerm_59:
(Start: 9 @38572 has 28 MA's), (19, 38434), (20, 38428), (21, 38425), (22, 38422), (26, 38395), (28, 38368), (30, 38329), (32, 38299),

Gene: JewelBug_59 Start: 37215, Stop: 36772, Start Num: 9
Candidate Starts for JewelBug_59:
(Start: 9 @37215 has 28 MA's), (21, 37071), (22, 37068), (26, 37041), (30, 36975), (45, 36870), (46, 36855),

Gene: Leviathan_59 Start: 38629, Stop: 38303, Start Num: 9
Candidate Starts for Leviathan_59:
(Start: 9 @38629 has 28 MA's), (19, 38491), (20, 38485), (21, 38482), (22, 38479), (26, 38452), (28, 38425), (30, 38386), (32, 38356),

Gene: LilTurb_58 Start: 38453, Stop: 38127, Start Num: 9
Candidate Starts for LilTurb_58:
(Start: 9 @38453 has 28 MA's), (19, 38315), (20, 38309), (21, 38306), (22, 38303), (26, 38276), (28, 38249), (30, 38210), (32, 38180),

Gene: Lilbunny_58 Start: 37103, Stop: 36660, Start Num: 9
Candidate Starts for Lilbunny_58:
(Start: 9 @37103 has 28 MA's), (21, 36959), (22, 36956), (26, 36929), (30, 36863), (36, 36803), (45, 36758),

Gene: Lokk_54 Start: 37531, Stop: 37127, Start Num: 9
Candidate Starts for Lokk_54:
(1, 37756), (2, 37747), (Start: 9 @37531 has 28 MA's), (19, 37396), (20, 37390), (21, 37387), (22, 37384), (26, 37357), (28, 37330), (30, 37291), (32, 37261), (43, 37192), (47, 37168),

Gene: Maminiaina_56 Start: 37958, Stop: 37473, Start Num: 9
Candidate Starts for Maminiaina_56:
(1, 38183), (2, 38174), (Start: 9 @37958 has 28 MA's), (19, 37820), (20, 37814), (21, 37811), (22, 37808), (26, 37781), (28, 37754), (30, 37715), (44, 37610), (51, 37508), (52, 37487), (53, 37478),

Gene: Miko_54 Start: 38309, Stop: 37905, Start Num: 9
Candidate Starts for Miko_54:
(1, 38534), (2, 38525), (Start: 9 @38309 has 28 MA's), (19, 38174), (20, 38168), (21, 38165), (22, 38162), (26, 38135), (28, 38108), (30, 38069), (32, 38039), (34, 38024), (43, 37970), (47, 37946),

Gene: Rachaly_56 Start: 38454, Stop: 38050, Start Num: 9
Candidate Starts for Rachaly_56:
(1, 38679), (2, 38670), (Start: 9 @38454 has 28 MA's), (19, 38319), (20, 38313), (21, 38310), (22, 38307), (26, 38280), (28, 38253), (30, 38214), (32, 38184), (43, 38115), (47, 38091),

Gene: Smeagan_60 Start: 38716, Stop: 38390, Start Num: 9
Candidate Starts for Smeagan_60:
(Start: 9 @38716 has 28 MA's), (19, 38578), (20, 38572), (21, 38569), (22, 38566), (26, 38539), (28, 38512), (30, 38473), (32, 38443),

Gene: Temprado_60 Start: 37472, Stop: 37029, Start Num: 9
Candidate Starts for Temprado_60:
(Start: 9 @37472 has 28 MA's), (21, 37328), (22, 37325), (26, 37298), (30, 37232), (36, 37172), (45, 37127),

Gene: TinaLin_71 Start: 41940, Stop: 42335, Start Num: 8
Candidate Starts for TinaLin_71:
(Start: 8 @41940 has 3 MA's), (14, 42042), (16, 42054), (22, 42096), (23, 42099), (25, 42111), (29, 42159), (39, 42264), (41, 42273), (48, 42312),

Gene: ToneTone_56 Start: 37032, Stop: 36589, Start Num: 9
Candidate Starts for ToneTone_56:
(Start: 9 @37032 has 28 MA's), (21, 36888), (22, 36885), (26, 36858), (30, 36792), (36, 36732), (45, 36687),

Gene: Turbido_58 Start: 38450, Stop: 38124, Start Num: 9
Candidate Starts for Turbido_58:
(Start: 9 @38450 has 28 MA's), (19, 38312), (20, 38306), (21, 38303), (22, 38300), (26, 38273), (28, 38246), (30, 38207), (32, 38177),

Gene: Whabigail7_58 Start: 38435, Stop: 38109, Start Num: 9
Candidate Starts for Whabigail7_58:
(Start: 9 @38435 has 28 MA's), (19, 38297), (20, 38291), (21, 38288), (22, 38285), (26, 38258), (28, 38231), (30, 38192), (32, 38162),

Gene: WunderPhul_59 Start: 37101, Stop: 36658, Start Num: 9
Candidate Starts for WunderPhul_59:

(Start: 9 @37101 has 28 MA's), (21, 36957), (22, 36954), (26, 36927), (30, 36861), (36, 36801), (45, 36756),

Gene: Yokurt_59 Start: 37103, Stop: 36660, Start Num: 9
Candidate Starts for Yokurt_59:
(Start: 9 @37103 has 28 MA's), (21, 36959), (22, 36956), (26, 36929), (30, 36863), (36, 36803), (45, 36758),

Gene: Zaka_59 Start: 37103, Stop: 36660, Start Num: 9
Candidate Starts for Zaka_59:
(Start: 9 @37103 has 28 MA's), (21, 36959), (22, 36956), (26, 36929), (30, 36863), (36, 36803), (45, 36758),

Gene: Zulu_60 Start: 37481, Stop: 37038, Start Num: 9
Candidate Starts for Zulu_60:
(Start: 9 @37481 has 28 MA's), (21, 37337), (22, 37334), (26, 37307), (30, 37241), (36, 37181), (45, 37136),