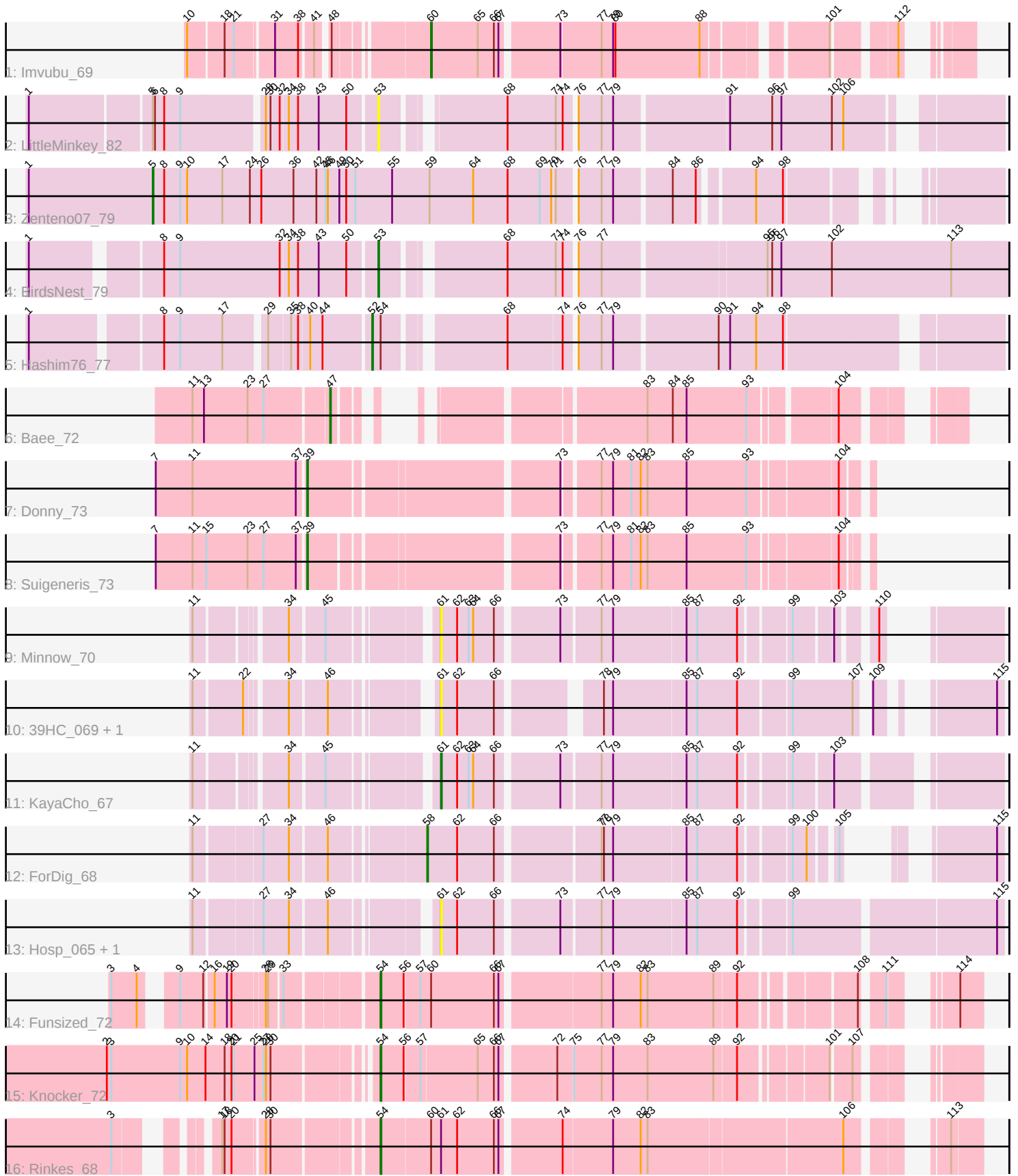


Pham 331303



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 331303 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331303 has 18 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Imvubu_69
- Track 2 : LittleMinkey_82
- Track 3 : Zenteno07_79
- Track 4 : BirdsNest_79
- Track 5 : Hashim76_77
- Track 6 : Baee_72
- Track 7 : Donny_73
- Track 8 : Suigeneris_73
- Track 9 : Minnow_70
- Track 10 : 39HC_069, 40BC_069
- Track 11 : KayaCho_67
- Track 12 : ForDig_68
- Track 13 : Hosp_065, Jolie1_067
- Track 14 : Funsized_72
- Track 15 : Knocker_72
- Track 16 : Rinkes_68

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

The start number called the most often in the published annotations is 54, it was called in 3 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Funsized_72, Knocker_72, Rinkes_68,

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

- Hashim76_77,

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

- 39HC_069, 40BC_069, Baee_72, BirdsNest_79, Donny_73, ForDig_68, Hosp_065, Imvubu_69, Jolie1_067, KayaCho_67, LittleMinkey_82, Minnow_70, Suigeneris_73, Zenteno07_79,

Summary by start number:

Start 5:

- Found in 2 of 18 (11.1%) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Zenteno07_79 (B13),

Start 39:

- Found in 2 of 18 (11.1%) of genes in pham
- Manual Annotations of this start: 2 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Donny_73 (B5), Suigeneris_73 (B5),

Start 47:

- Found in 1 of 18 (5.6%) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Baee_72 (B5),

Start 52:

- Found in 1 of 18 (5.6%) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hashim76_77 (B13),

Start 53:

- Found in 2 of 18 (11.1%) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BirdsNest_79 (B13), LittleMinkey_82 (B13),

Start 54:

- Found in 4 of 18 (22.2%) of genes in pham
- Manual Annotations of this start: 3 of 12
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Funsized_72 (B9), Knocker_72 (B9), Rinkes_68 (B9),

Start 58:

- Found in 1 of 18 (5.6%) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ForDig_68 (B6),

Start 60:

- Found in 3 of 18 (16.7%) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Imvubu_69 (B10),

Start 61:

- Found in 7 of 18 (38.9%) of genes in pham

- Manual Annotations of this start: 1 of 12
- Called 85.7% of time when present
- Phage (with cluster) where this start called: 39HC_069 (B6), 40BC_069 (B6), Hosp_065 (B6), Jolie1_067 (B6), KayaCho_67 (B6), Minnow_70 (B6),

Summary by clusters:

There are 5 clusters represented in this pham: B5, B6, B9, B10, B13,

Info for manual annotations of cluster B10:

- Start number 60 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B13:

- Start number 5 was manually annotated 1 time for cluster B13.
- Start number 52 was manually annotated 1 time for cluster B13.
- Start number 53 was manually annotated 1 time for cluster B13.

Info for manual annotations of cluster B5:

- Start number 39 was manually annotated 2 times for cluster B5.
- Start number 47 was manually annotated 1 time for cluster B5.

Info for manual annotations of cluster B6:

- Start number 58 was manually annotated 1 time for cluster B6.
- Start number 61 was manually annotated 1 time for cluster B6.

Info for manual annotations of cluster B9:

- Start number 54 was manually annotated 3 times for cluster B9.

Gene Information:

Gene: 39HC_069 Start: 58780, Stop: 59388, Start Num: 61

Candidate Starts for 39HC_069:

(11, 58525), (22, 58585), (34, 58630), (46, 58675), (Start: 61 @58780 has 1 MA's), (62, 58801), (66, 58849), (78, 58957), (79, 58969), (85, 59062), (87, 59074), (92, 59125), (99, 59188), (107, 59266), (109, 59275), (115, 59380),

Gene: 40BC_069 Start: 58780, Stop: 59388, Start Num: 61

Candidate Starts for 40BC_069:

(11, 58525), (22, 58585), (34, 58630), (46, 58675), (Start: 61 @58780 has 1 MA's), (62, 58801), (66, 58849), (78, 58957), (79, 58969), (85, 59062), (87, 59074), (92, 59125), (99, 59188), (107, 59266), (109, 59275), (115, 59380),

Gene: Baee_72 Start: 60813, Stop: 61436, Start Num: 47

Candidate Starts for Baee_72:

(11, 60642), (13, 60657), (23, 60714), (27, 60735), (Start: 47 @60813 has 1 MA's), (83, 61101), (84, 61134), (85, 61152), (93, 61227), (104, 61326),

Gene: BirdsNest_79 Start: 60884, Stop: 61648, Start Num: 53

Candidate Starts for BirdsNest_79:

(1, 60470), (8, 60617), (9, 60638), (32, 60767), (34, 60776), (38, 60788), (43, 60815), (50, 60851), (Start: 53 @60884 has 1 MA's), (68, 61022), (71, 61085), (74, 61094), (76, 61106), (77, 61136), (95,

61337), (96, 61343), (97, 61355), (102, 61418), (113, 61574),

Gene: Donny_73 Start: 59741, Stop: 60397, Start Num: 39

Candidate Starts for Donny_73:

(7, 59549), (11, 59597), (37, 59732), (Start: 39 @59741 has 2 MA's), (73, 60035), (77, 60077), (79, 60092), (81, 60116), (82, 60128), (83, 60137), (85, 60188), (93, 60263), (104, 60368),

Gene: ForDig_68 Start: 58743, Stop: 59336, Start Num: 58

Candidate Starts for ForDig_68:

(11, 58476), (27, 58557), (34, 58590), (46, 58635), (Start: 58 @58743 has 1 MA's), (62, 58782), (66, 58830), (77, 58953), (78, 58956), (79, 58968), (85, 59061), (87, 59073), (92, 59124), (99, 59181), (100, 59199), (105, 59226), (115, 59328),

Gene: Funsized_72 Start: 61973, Stop: 62629, Start Num: 54

Candidate Starts for Funsized_72:

(3, 61688), (4, 61721), (9, 61751), (12, 61781), (16, 61790), (19, 61805), (20, 61811), (28, 61850), (29, 61853), (33, 61868), (Start: 54 @61973 has 3 MA's), (56, 62003), (57, 62021), (Start: 60 @62033 has 1 MA's), (66, 62114), (67, 62120), (77, 62240), (79, 62255), (82, 62291), (83, 62300), (89, 62384), (92, 62411), (108, 62534), (111, 62555), (114, 62600),

Gene: Hashim76_77 Start: 60745, Stop: 61467, Start Num: 52

Candidate Starts for Hashim76_77:

(1, 60346), (8, 60502), (9, 60523), (17, 60577), (29, 60625), (35, 60652), (38, 60661), (40, 60673), (44, 60688), (Start: 52 @60745 has 1 MA's), (Start: 54 @60754 has 3 MA's), (68, 60886), (74, 60955), (76, 60967), (77, 60997), (79, 61012), (90, 61141), (91, 61156), (94, 61189), (98, 61222),

Gene: Hosp_065 Start: 56539, Stop: 57216, Start Num: 61

Candidate Starts for Hosp_065:

(11, 56272), (27, 56353), (34, 56386), (46, 56431), (Start: 61 @56539 has 1 MA's), (62, 56560), (66, 56608), (73, 56683), (77, 56731), (79, 56746), (85, 56839), (87, 56851), (92, 56902), (99, 56959), (115, 57208),

Gene: Imvubu_69 Start: 58708, Stop: 59286, Start Num: 60

Candidate Starts for Imvubu_69:

(10, 58453), (18, 58495), (21, 58507), (31, 58552), (38, 58582), (41, 58597), (48, 58609), (Start: 60 @58708 has 1 MA's), (65, 58768), (66, 58789), (67, 58795), (73, 58864), (77, 58915), (79, 58930), (80, 58933), (88, 59041), (101, 59170), (112, 59236),

Gene: Jolie1_067 Start: 58667, Stop: 59344, Start Num: 61

Candidate Starts for Jolie1_067:

(11, 58400), (27, 58481), (34, 58514), (46, 58559), (Start: 61 @58667 has 1 MA's), (62, 58688), (66, 58736), (73, 58811), (77, 58859), (79, 58874), (85, 58967), (87, 58979), (92, 59030), (99, 59087), (115, 59336),

Gene: KayaCho_67 Start: 58637, Stop: 59281, Start Num: 61

Candidate Starts for KayaCho_67:

(11, 58385), (34, 58484), (45, 58523), (Start: 61 @58637 has 1 MA's), (62, 58658), (63, 58673), (64, 58679), (66, 58706), (73, 58781), (77, 58829), (79, 58844), (85, 58937), (87, 58949), (92, 59000), (99, 59057), (103, 59102),

Gene: Knocker_72 Start: 61176, Stop: 61832, Start Num: 54

Candidate Starts for Knocker_72:

(2, 60855), (3, 60861), (9, 60951), (10, 60960), (14, 60984), (18, 61008), (20, 61017), (21, 61020), (25, 61044), (27, 61056), (28, 61059), (30, 61065), (Start: 54 @61176 has 3 MA's), (56, 61206), (57, 61224), (65, 61296), (66, 61317), (67, 61323), (72, 61386), (75, 61404), (77, 61440), (79, 61455), (83, 61500), (89, 61584), (92, 61611), (101, 61707), (107, 61731),

Gene: LittleMinkey_82 Start: 60638, Stop: 61354, Start Num: 53

Candidate Starts for LittleMinkey_82:

(1, 60218), (Start: 5 @60368 has 1 MA's), (6, 60371), (8, 60383), (9, 60404), (28, 60503), (30, 60509), (32, 60521), (34, 60530), (38, 60542), (43, 60569), (50, 60605), (Start: 53 @60638 has 1 MA's), (68, 60773), (71, 60836), (74, 60845), (76, 60857), (77, 60887), (79, 60902), (91, 61043), (96, 61097), (97, 61109), (102, 61175), (106, 61190),

Gene: Minnow_70 Start: 58894, Stop: 59490, Start Num: 61

Candidate Starts for Minnow_70:

(11, 58642), (34, 58741), (45, 58780), (Start: 61 @58894 has 1 MA's), (62, 58915), (63, 58930), (64, 58936), (66, 58963), (73, 59038), (77, 59086), (79, 59101), (85, 59194), (87, 59206), (92, 59257), (99, 59314), (103, 59359), (110, 59392),

Gene: Rinkes_68 Start: 59532, Stop: 60221, Start Num: 54

Candidate Starts for Rinkes_68:

(3, 59274), (17, 59358), (18, 59361), (20, 59370), (28, 59406), (30, 59412), (Start: 54 @59532 has 3 MA's), (Start: 60 @59592 has 1 MA's), (Start: 61 @59604 has 1 MA's), (62, 59625), (66, 59673), (67, 59679), (74, 59748), (79, 59811), (82, 59847), (83, 59856), (106, 60099), (113, 60183),

Gene: Suigeneris_73 Start: 59932, Stop: 60579, Start Num: 39

Candidate Starts for Suigeneris_73:

(7, 59740), (11, 59788), (15, 59806), (23, 59860), (27, 59881), (37, 59923), (Start: 39 @59932 has 2 MA's), (73, 60220), (77, 60262), (79, 60277), (81, 60301), (82, 60313), (83, 60322), (85, 60373), (93, 60448), (104, 60553),

Gene: Zenteno07_79 Start: 60479, Stop: 61459, Start Num: 5

Candidate Starts for Zenteno07_79:

(1, 60317), (Start: 5 @60479 has 1 MA's), (8, 60494), (9, 60515), (10, 60524), (17, 60569), (24, 60605), (26, 60620), (36, 60662), (42, 60692), (45, 60704), (46, 60707), (49, 60722), (50, 60731), (51, 60743), (55, 60791), (59, 60839), (64, 60896), (68, 60941), (69, 60983), (70, 60998), (71, 61001), (76, 61022), (77, 61052), (79, 61067), (84, 61136), (86, 61166), (94, 61226), (98, 61259),