Pham 289961

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 289961 Report

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

Pham number 289961 has 10 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Imvubu_69
• Track 2 : Zenteno07_79
• Track 3 : Hashim76_77
• Track 4 : BirdsNest_79
• Track 5 : Baee_72
• Track 6 : Suigeneris_73
• Track 7 : Rich_71
• Track 8 : Donny_73
• Track 9 : Funsized_72
• Track 10 : Knocker_72

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

The start number called the most often in the published annotations is 40, it was called in 2 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Donny_73, Suigeneris_73,

Genes that have the "Most Annotated" start but do not call it:
• Zenteno07_79,

Genes that do not have the "Most Annotated" start:
• Baee_72, BirdsNest_79, Funsized_72, Hashim76_77, Imvubu_69, Knocker_72, Rich_71,

Summary by start number:

Start 3:
• Found in 2 of 10 (20.0%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Zenteno07_79 (B13),

Start 28:
• Found in 4 of 10 (40.0%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Rich_71 (B5),

Start 40:
• Found in 3 of 10 (30.0%) of genes in pham
• Manual Annotations of this start: 2 of 10
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Donny_73 (B5), Suigeneris_73 (B5),

Start 44:
• Found in 1 of 10 (10.0%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Baee_72 (B5),

Start 46:
• Found in 1 of 10 (10.0%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hashim76_77 (B13),

Start 47:
• Found in 2 of 10 (20.0%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 50.0% of time when present
• Phage (with cluster) where this start called: BirdsNest_79 (B13),

Start 49:
• Found in 2 of 10 (20.0%) of genes in pham
• Manual Annotations of this start: 2 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Funsized_72 (B9), Knocker_72 (B9),

Start 52:
• Found in 3 of 10 (30.0%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Imvubu_69 (B10),

Summary by clusters:

There are 4 clusters represented in this pham: B5, B9, B10, B13,

Info for manual annotations of cluster B10:
•Start number 52 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B13:
•Start number 3 was manually annotated 1 time for cluster B13.
•Start number 46 was manually annotated 1 time for cluster B13.
•Start number 47 was manually annotated 1 time for cluster B13.

Info for manual annotations of cluster B5:
•Start number 28 was manually annotated 1 time for cluster B5.
•Start number 40 was manually annotated 2 times for cluster B5.
•Start number 44 was manually annotated 1 time for cluster B5.

Info for manual annotations of cluster B9:
•Start number 49 was manually annotated 2 times for cluster B9.

Gene Information:

Gene: Baee_72 Start: 60813, Stop: 61436, Start Num: 44
Candidate Starts for Baee_72:
(12, 60642), (13, 60657), (24, 60714), (Start: 28 @60735 has 1 MA's), (Start: 44 @60813 has 1 MA's), (72, 61101), (73, 61134), (74, 61152), (81, 61227), (88, 61326),

Gene: BirdsNest_79 Start: 60884, Stop: 61648, Start Num: 47
Candidate Starts for BirdsNest_79:
(1, 60470), (4, 60617), (8, 60638), (25, 60767), (27, 60776), (29, 60788), (35, 60815), (42, 60851), (Start: 47 @60884 has 1 MA's), (59, 61022), (62, 61085), (64, 61094), (66, 61106), (67, 61136), (83, 61337), (84, 61343), (85, 61355), (86, 61418), (94, 61574),

Gene: Donny_73 Start: 59741, Stop: 60397, Start Num: 40
Candidate Starts for Donny_73:
(5, 59549), (12, 59597), (38, 59732), (Start: 40 @59741 has 2 MA's), (63, 60035), (67, 60077), (68, 60092), (70, 60116), (71, 60128), (72, 60137), (74, 60188), (81, 60263), (88, 60368),

Gene: Funsized_72 Start: 61973, Stop: 62629, Start Num: 49
Candidate Starts for Funsized_72:
(6, 61688), (11, 61721), (15, 61751), (18, 61781), (20, 61790), (23, 61805), (24, 61811), (32, 61850), (33, 61853), (36, 61868), (Start: 49 @61973 has 2 MA's), (51, 62003), (Start: 52 @62021 has 1 MA's), (54, 62033), (57, 62114), (58, 62120), (67, 62240), (68, 62255), (71, 62291), (72, 62300), (77, 62384), (80, 62411), (90, 62534), (91, 62555), (93, 62600),

Gene: Hashim76_77 Start: 60745, Stop: 61467, Start Num: 46
Candidate Starts for Hashim76_77:
(1, 60346), (4, 60502), (8, 60523), (14, 60577), (21, 60625), (27, 60652), (Start: 28 @60661 has 1 MA's), (31, 60673), (34, 60688), (Start: 46 @60745 has 1 MA's), (48, 60754), (59, 60886), (64, 60955), (66, 60967), (67, 60997), (68, 61012), (78, 61141), (79, 61156), (82, 61189), (86, 61222),

Gene: Imvubu_69 Start: 58708, Stop: 59286, Start Num: 52
Candidate Starts for Imvubu_69:
(10, 58453), (17, 58495), (18, 58507), (26, 58552), (32, 58582), (36, 58597), (39, 58609), (Start: 52 @58708 has 1 MA's), (56, 58768), (57, 58789), (58, 58795), (63, 58864), (67, 58915), (68, 58930), (69, 58933), (76, 59041), (87, 59170), (92, 59236),

Gene: Knocker_72 Start: 61176, Stop: 61832, Start Num: 49
Candidate Starts for Knocker_72:
(2, 60855), (Start: 3 @60861 has 1 MA's), (15, 60951), (16, 60960), (19, 60984), (22, 61008), (24, 61017), (25, 61020), (30, 61044), (32, 61056), (33, 61059), (34, 61065), (Start: 49 @61176 has 2 MA's), (51, 61206), (Start: 52 @61224 has 1 MA's), (56, 61296), (57, 61317), (58, 61323), (62, 61386),

(65, 61404), (67, 61440), (68, 61455), (72, 61500), (77, 61584), (80, 61611), (87, 61707), (89, 61731),

Gene: Rich_71 Start: 60783, Stop: 61481, Start Num: 28
Candidate Starts for Rich_71:
(7, 60651), (12, 60690), (14, 60708), (24, 60762), (Start: 28 @60783 has 1 MA's), (72, 61146), (73, 61179), (74, 61197), (81, 61272), (88, 61371),

Gene: Suigeneris_73 Start: 59932, Stop: 60579, Start Num: 40
Candidate Starts for Suigeneris_73:
(5, 59740), (12, 59788), (14, 59806), (24, 59860), (Start: 28 @59881 has 1 MA's), (38, 59923), (Start: 40 @59932 has 2 MA's), (63, 60220), (67, 60262), (68, 60277), (70, 60301), (71, 60313), (72, 60322), (74, 60373), (81, 60448), (88, 60553),

Gene: Zenteno07_79 Start: 60479, Stop: 61459, Start Num: 3
Candidate Starts for Zenteno07_79:
(1, 60317), (Start: 3 @60479 has 1 MA's), (4, 60494), (8, 60515), (9, 60524), (14, 60569), (18, 60605), (21, 60620), (29, 60662), (37, 60692), (Start: 40 @60704 has 2 MA's), (41, 60707), (43, 60722), (45, 60731), (Start: 47 @60743 has 1 MA's), (50, 60791), (53, 60839), (55, 60896), (59, 60941), (60, 60983), (61, 60998), (62, 61001), (66, 61022), (67, 61052), (68, 61067), (73, 61136), (75, 61166), (82, 61226), (86, 61259),