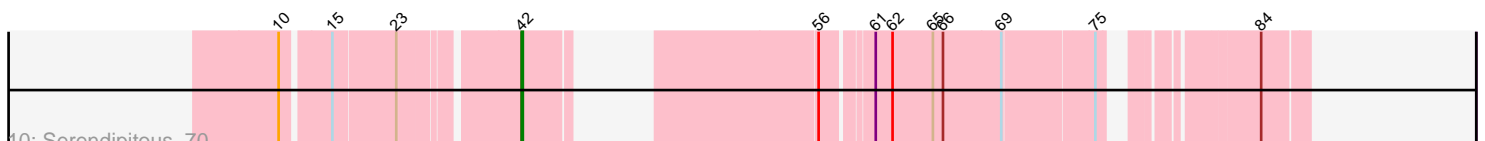
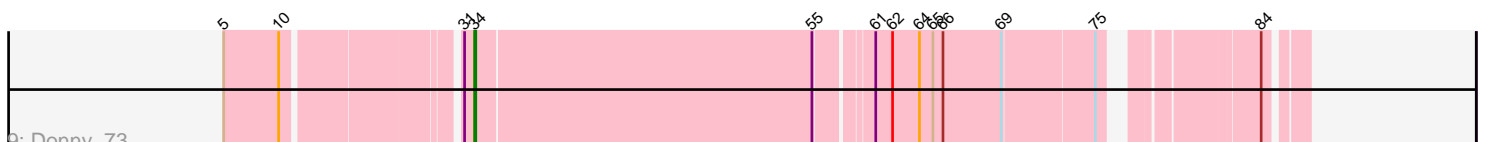
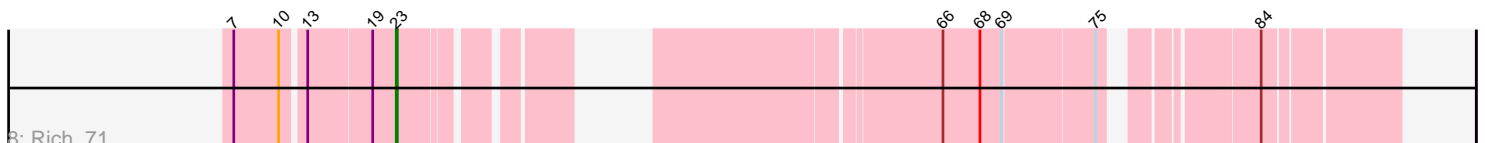
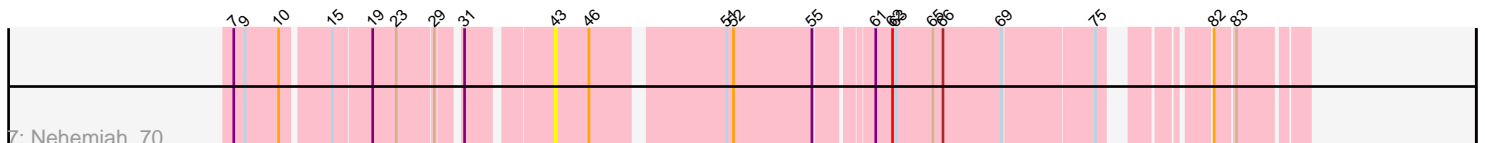
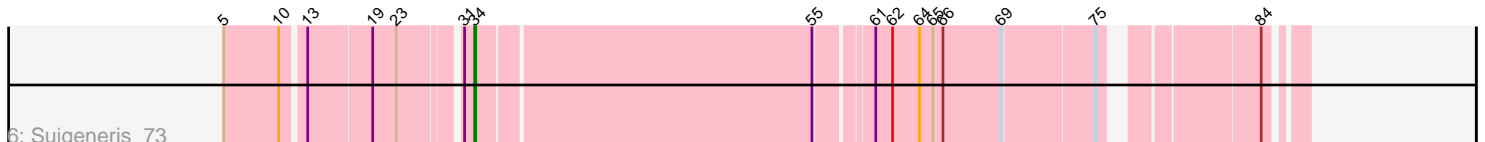
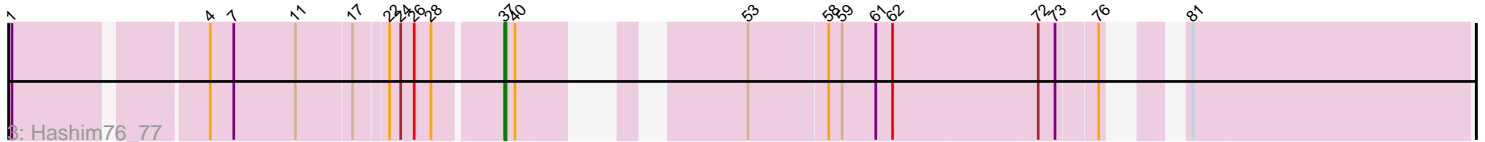
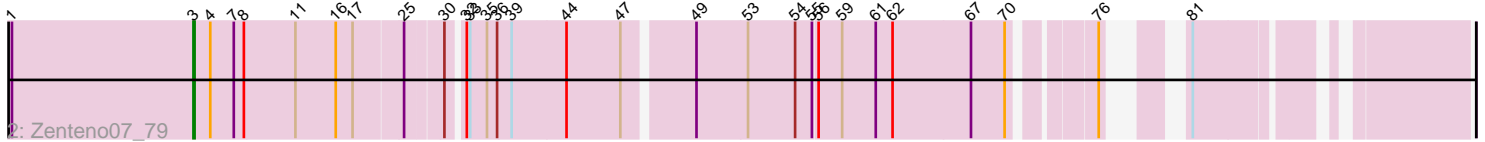
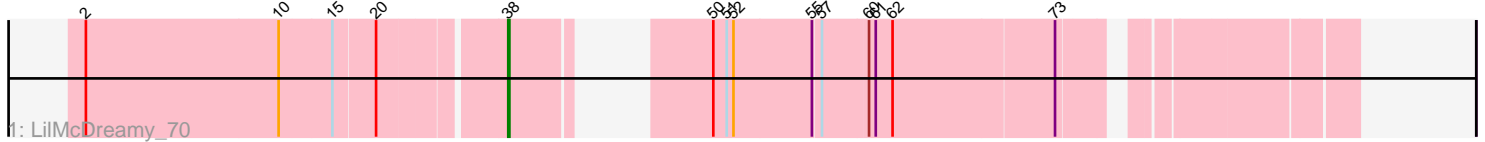


Pham 225039



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 225039 Report

This analysis was run 03/28/25 on database version 593.

Pham number 225039 has 12 members, 3 are drafts.

Phages represented in each track:

- Track 1 : LilMcDreamy_70
- Track 2 : Zenteno07_79
- Track 3 : Hashim76_77
- Track 4 : BirdsNest_79
- Track 5 : Bae_72
- Track 6 : Suigeneris_73
- Track 7 : Nehemiah_70
- Track 8 : Rich_71
- Track 9 : Donny_73
- Track 10 : Serendipitous_70
- Track 11 : Hosp_065, Jolie1_067

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

The start number called the most often in the published annotations is 34, it was called in 2 of the 9 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:

- BirdsNest_79,

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

- Bae_72, Hashim76_77, Hosp_065, Jolie1_067, LilMcDreamy_70, Nehemiah_70, Rich_71, Serendipitous_70, Zenteno07_79,

Summary by start number:

Start 3:

- Found in 1 of 12 (8.3%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Zenteno07_79 (B13),

Start 23:

- Found in 5 of 12 (41.7%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Rich_71 (B5),

Start 34:

- Found in 3 of 12 (25.0%) of genes in pham
- Manual Annotations of this start: 2 of 9
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Donny_73 (B5), Suigeneris_73 (B5),

Start 37:

- Found in 1 of 12 (8.3%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hashim76_77 (B13),

Start 38:

- Found in 1 of 12 (8.3%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LilMcDreamy_70 (B12),

Start 39:

- Found in 2 of 12 (16.7%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 50.0% of time when present
- Phage (with cluster) where this start called: BirdsNest_79 (B13),

Start 41:

- Found in 1 of 12 (8.3%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bae_72 (B5),

Start 42:

- Found in 1 of 12 (8.3%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Serendipitous_70 (B5),

Start 43:

- Found in 1 of 12 (8.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nehemiah_70 (B5),

Start 45:

- Found in 2 of 12 (16.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Hosp_065 (B6), Jolie1_067 (B6),

Summary by clusters:

There are 4 clusters represented in this pham: B5, B6, B12, B13,

Info for manual annotations of cluster B12:

- Start number 38 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:

- Start number 3 was manually annotated 1 time for cluster B13.
- Start number 37 was manually annotated 1 time for cluster B13.
- Start number 39 was manually annotated 1 time for cluster B13.

Info for manual annotations of cluster B5:

- Start number 23 was manually annotated 1 time for cluster B5.
- Start number 34 was manually annotated 2 times for cluster B5.
- Start number 41 was manually annotated 1 time for cluster B5.
- Start number 42 was manually annotated 1 time for cluster B5.

Gene Information:

Gene: Bae_72 Start: 60813, Stop: 61436, Start Num: 41

Candidate Starts for Bae_72:

(10, 60642), (12, 60657), (19, 60714), (Start: 23 @60735 has 1 MA's), (Start: 41 @60813 has 1 MA's), (66, 61101), (68, 61134), (69, 61152), (75, 61227), (84, 61326),

Gene: BirdsNest_79 Start: 60884, Stop: 61648, Start Num: 39

Candidate Starts for BirdsNest_79:

(1, 60470), (4, 60617), (7, 60638), (21, 60767), (22, 60776), (25, 60788), (29, 60815), (Start: 34 @60851 has 2 MA's), (Start: 39 @60884 has 1 MA's), (53, 61022), (56, 61085), (58, 61094), (59, 61106), (61, 61136), (77, 61337), (78, 61343), (79, 61355), (81, 61418), (85, 61574),

Gene: Donny_73 Start: 59741, Stop: 60397, Start Num: 34

Candidate Starts for Donny_73:

(5, 59549), (10, 59597), (31, 59732), (Start: 34 @59741 has 2 MA's), (55, 60035), (61, 60077), (62, 60092), (64, 60116), (65, 60128), (66, 60137), (69, 60188), (75, 60263), (84, 60368),

Gene: Hashim76_77 Start: 60745, Stop: 61467, Start Num: 37

Candidate Starts for Hashim76_77:

(1, 60346), (4, 60502), (7, 60523), (11, 60577), (17, 60625), (22, 60652), (24, 60661), (26, 60673), (28, 60688), (Start: 37 @60745 has 1 MA's), (40, 60754), (53, 60886), (58, 60955), (59, 60967), (61, 60997), (62, 61012), (72, 61141), (73, 61156), (76, 61189), (81, 61222),

Gene: Hosp_065 Start: 56539, Stop: 57216, Start Num: 45

Candidate Starts for Hosp_065:

(6, 56272), (14, 56353), (18, 56386), (27, 56431), (45, 56539), (48, 56560), (51, 56608), (55, 56683), (61, 56731), (62, 56746), (69, 56839), (71, 56851), (74, 56902), (80, 56959), (86, 57208),

Gene: Jolie1_067 Start: 58667, Stop: 59344, Start Num: 45

Candidate Starts for Jolie1_067:

(6, 58400), (14, 58481), (18, 58514), (27, 58559), (45, 58667), (48, 58688), (51, 58736), (55, 58811), (61, 58859), (62, 58874), (69, 58967), (71, 58979), (74, 59030), (80, 59087), (86, 59336),

Gene: LilMcDreamy_70 Start: 59640, Stop: 60260, Start Num: 38

Candidate Starts for LilMcDreamy_70:

(2, 59286), (10, 59457), (15, 59502), (20, 59538), (Start: 38 @59640 has 1 MA's), (50, 59748), (51, 59760), (52, 59766), (55, 59835), (57, 59841), (60, 59880), (61, 59886), (62, 59901), (73, 60042),

Gene: Nehemiah_70 Start: 59668, Stop: 60234, Start Num: 43

Candidate Starts for Nehemiah_70:

(7, 59428), (9, 59437), (10, 59467), (15, 59506), (19, 59539), (Start: 23 @59560 has 1 MA's), (29, 59587), (31, 59602), (43, 59668), (46, 59698), (51, 59806), (52, 59812), (55, 59881), (61, 59923), (62, 59938), (63, 59941), (65, 59974), (66, 59983), (69, 60034), (75, 60109), (82, 60169), (83, 60181),

Gene: Rich_71 Start: 60783, Stop: 61481, Start Num: 23

Candidate Starts for Rich_71:

(7, 60651), (10, 60690), (13, 60708), (19, 60762), (Start: 23 @60783 has 1 MA's), (66, 61146), (68, 61179), (69, 61197), (75, 61272), (84, 61371),

Gene: Serendipitous_70 Start: 59224, Stop: 59772, Start Num: 42

Candidate Starts for Serendipitous_70:

(10, 59041), (15, 59080), (Start: 23 @59134 has 1 MA's), (Start: 42 @59224 has 1 MA's), (56, 59407), (61, 59446), (62, 59461), (65, 59497), (66, 59506), (69, 59557), (75, 59632), (84, 59734),

Gene: Suigeneris_73 Start: 59932, Stop: 60579, Start Num: 34

Candidate Starts for Suigeneris_73:

(5, 59740), (10, 59788), (13, 59806), (19, 59860), (Start: 23 @59881 has 1 MA's), (31, 59923), (Start: 34 @59932 has 2 MA's), (55, 60220), (61, 60262), (62, 60277), (64, 60301), (65, 60313), (66, 60322), (69, 60373), (75, 60448), (84, 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), (7, 60515), (8, 60524), (11, 60569), (16, 60605), (17, 60620), (25, 60662), (30, 60692), (32, 60704), (33, 60707), (35, 60722), (36, 60731), (Start: 39 @60743 has 1 MA's), (44, 60791), (47, 60839), (49, 60896), (53, 60941), (54, 60983), (55, 60998), (56, 61001), (59, 61022), (61, 61052), (62, 61067), (67, 61136), (70, 61166), (76, 61226), (81, 61259),