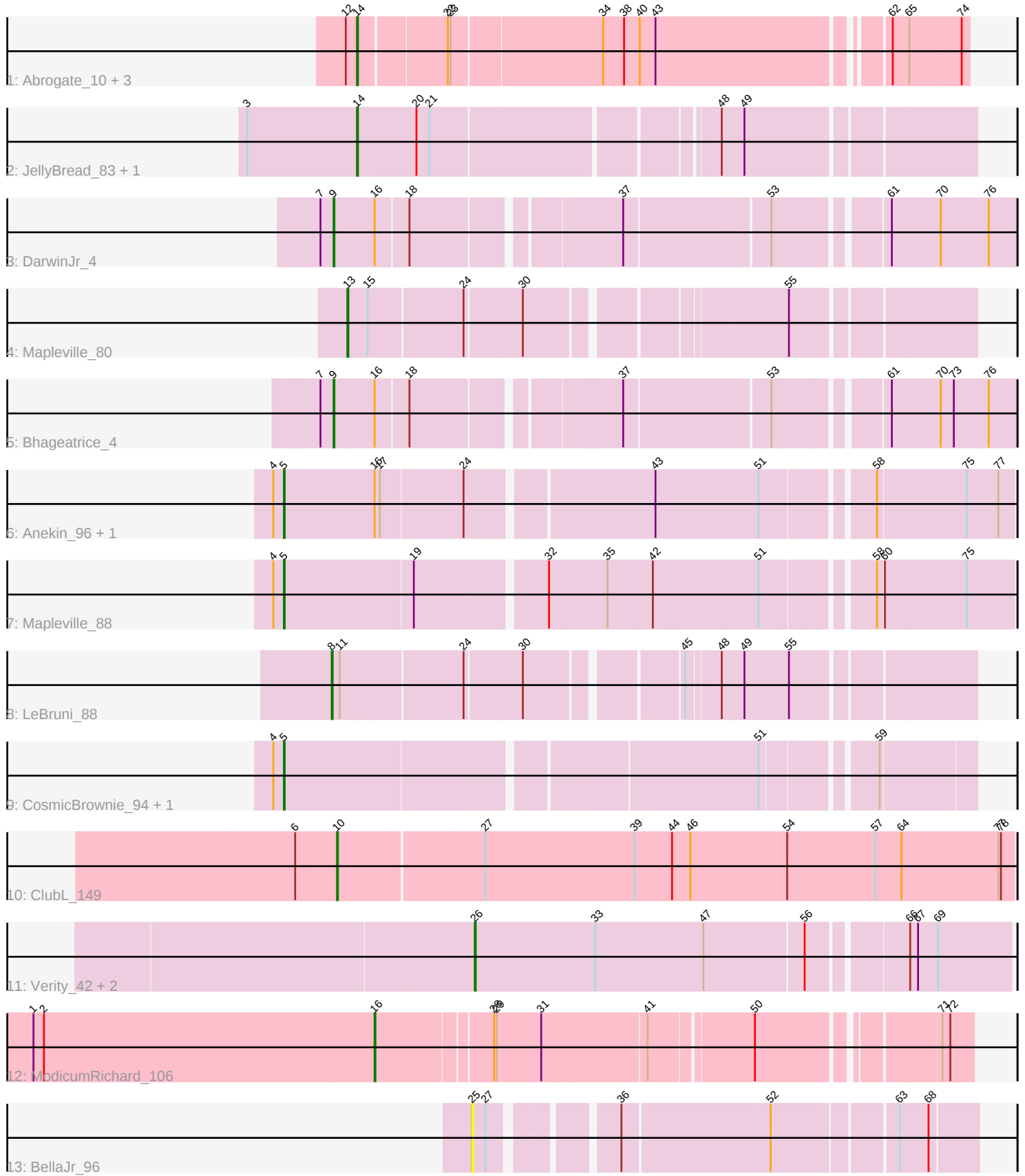


Pham 331247



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 331247 Report

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

Pham number 331247 has 21 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Abrogate_10, DreamCatcher_1, Sanya_1, Ruotula_1
- Track 2 : JellyBread_83, BlackSpider_75
- Track 3 : DarwinJr_4
- Track 4 : Mapleville_80
- Track 5 : Bhageatrice_4
- Track 6 : Anekin_96, MUWow_99
- Track 7 : Mapleville_88
- Track 8 : LeBruni_88
- Track 9 : CosmicBrownie_94, Phrank15_101
- Track 10 : ClubL_149
- Track 11 : Verity_42, DoctorFroggo_42, Delrey21_42
- Track 12 : ModicumRichard_106
- Track 13 : BellaJr_96

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

The start number called the most often in the published annotations is 14, it was called in 6 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abrogate_10, BlackSpider_75, DreamCatcher_1, JellyBread_83, Ruotula_1, Sanya_1,

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

-

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

- Anekin_96, BellaJr_96, Bhageatrice_4, ClubL_149, CosmicBrownie_94, DarwinJr_4, Delrey21_42, DoctorFroggo_42, LeBruni_88, MUWow_99, Mapleville_80, Mapleville_88, ModicumRichard_106, Phrank15_101, Verity_42,

Summary by start number:

Start 5:

- Found in 5 of 21 (23.8%) of genes in pham
- Manual Annotations of this start: 4 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anekin_96 (AY), CosmicBrownie_94 (AY), MUWow_99 (AY), Mapleville_88 (AY), Phrank15_101 (AY),

Start 8:

- Found in 1 of 21 (4.8%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LeBruni_88 (AY),

Start 9:

- Found in 2 of 21 (9.5%) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bhageatrice_4 (AY), DarwinJr_4 (AY),

Start 10:

- Found in 1 of 21 (4.8%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ClubL_149 (CQ1),

Start 13:

- Found in 1 of 21 (4.8%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mapleville_80 (AY),

Start 14:

- Found in 6 of 21 (28.6%) of genes in pham
- Manual Annotations of this start: 6 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abrogate_10 (A1), BlackSpider_75 (FN), DreamCatcher_1 (A1), JellyBread_83 (AY), Ruotula_1 (A1), Sanya_1 (A1),

Start 16:

- Found in 5 of 21 (23.8%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 20.0% of time when present
- Phage (with cluster) where this start called: ModicumRichard_106 (DZ),

Start 25:

- Found in 1 of 21 (4.8%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BellaJr_96 (FN),

Start 26:

- Found in 3 of 21 (14.3%) of genes in pham
- Manual Annotations of this start: 3 of 19
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Delrey21_42 (DE4), DoctorFroggo_42 (DE4), Verity_42 (DE4),

Summary by clusters:

There are 6 clusters represented in this pham: DE4, A1, DZ, AY, CQ1, FN,

Info for manual annotations of cluster A1:

- Start number 14 was manually annotated 4 times for cluster A1.

Info for manual annotations of cluster AY:

- Start number 5 was manually annotated 4 times for cluster AY.
- Start number 8 was manually annotated 1 time for cluster AY.
- Start number 9 was manually annotated 2 times for cluster AY.
- Start number 13 was manually annotated 1 time for cluster AY.
- Start number 14 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster CQ1:

- Start number 10 was manually annotated 1 time for cluster CQ1.

Info for manual annotations of cluster DE4:

- Start number 26 was manually annotated 3 times for cluster DE4.

Info for manual annotations of cluster DZ:

- Start number 16 was manually annotated 1 time for cluster DZ.

Info for manual annotations of cluster FN:

- Start number 14 was manually annotated 1 time for cluster FN.

Gene Information:

Gene: Abrogate_10 Start: 697, Stop: 1347, Start Num: 14

Candidate Starts for Abrogate_10:

(12, 685), (Start: 14 @697 has 6 MA's), (22, 793), (23, 796), (34, 961), (38, 985), (40, 1003), (43, 1021), (62, 1264), (65, 1282), (74, 1339),

Gene: Anekin_96 Start: 52648, Stop: 53418, Start Num: 5

Candidate Starts for Anekin_96:

(4, 52636), (Start: 5 @52648 has 4 MA's), (Start: 16 @52750 has 1 MA's), (17, 52756), (24, 52849), (43, 53041), (51, 53155), (58, 53266), (75, 53365), (77, 53401),

Gene: BellaJr_96 Start: 52094, Stop: 52612, Start Num: 25

Candidate Starts for BellaJr_96:

(25, 52094), (27, 52109), (36, 52229), (52, 52394), (63, 52526), (68, 52559),

Gene: Bhageatrice_4 Start: 2128, Stop: 2829, Start Num: 9

Candidate Starts for Bhageatrice_4:

(7, 2113), (Start: 9 @2128 has 2 MA's), (Start: 16 @2173 has 1 MA's), (18, 2206), (37, 2419), (53, 2575), (61, 2689), (70, 2743), (73, 2758), (76, 2797),

Gene: BlackSpider_75 Start: 46054, Stop: 46710, Start Num: 14

Candidate Starts for BlackSpider_75:

(3, 45928), (Start: 14 @46054 has 6 MA's), (20, 46120), (21, 46135), (48, 46438), (49, 46462),

Gene: ClubL_149 Start: 79995, Stop: 80744, Start Num: 10

Candidate Starts for ClubL_149:

(6, 79950), (Start: 10 @79995 has 1 MA's), (27, 80154), (39, 80319), (44, 80361), (46, 80382), (54, 80490), (57, 80589), (64, 80619), (77, 80727), (78, 80730),

Gene: CosmicBrownie_94 Start: 50910, Stop: 51626, Start Num: 5

Candidate Starts for CosmicBrownie_94:

(4, 50898), (Start: 5 @50910 has 4 MA's), (51, 51411), (59, 51522),

Gene: DarwinJr_4 Start: 2066, Stop: 2767, Start Num: 9

Candidate Starts for DarwinJr_4:

(7, 2051), (Start: 9 @2066 has 2 MA's), (Start: 16 @2111 has 1 MA's), (18, 2144), (37, 2357), (53, 2513), (61, 2627), (70, 2681), (76, 2735),

Gene: Delrey21_42 Start: 39489, Stop: 40070, Start Num: 26

Candidate Starts for Delrey21_42:

(Start: 26 @39489 has 3 MA's), (33, 39624), (47, 39747), (56, 39855), (66, 39957), (67, 39966), (69, 39987),

Gene: DoctorFroggo_42 Start: 39489, Stop: 40070, Start Num: 26

Candidate Starts for DoctorFroggo_42:

(Start: 26 @39489 has 3 MA's), (33, 39624), (47, 39747), (56, 39855), (66, 39957), (67, 39966), (69, 39987),

Gene: DreamCatcher_1 Start: 695, Stop: 1345, Start Num: 14

Candidate Starts for DreamCatcher_1:

(12, 683), (Start: 14 @695 has 6 MA's), (22, 791), (23, 794), (34, 959), (38, 983), (40, 1001), (43, 1019), (62, 1262), (65, 1280), (74, 1337),

Gene: JellyBread_83 Start: 48413, Stop: 49069, Start Num: 14

Candidate Starts for JellyBread_83:

(3, 48287), (Start: 14 @48413 has 6 MA's), (20, 48479), (21, 48494), (48, 48797), (49, 48821),

Gene: LeBruni_88 Start: 48740, Stop: 49414, Start Num: 8

Candidate Starts for LeBruni_88:

(Start: 8 @48740 has 1 MA's), (11, 48749), (24, 48884), (30, 48947), (45, 49106), (48, 49142), (49, 49166), (55, 49217),

Gene: MUWow_99 Start: 54213, Stop: 54983, Start Num: 5

Candidate Starts for MUWow_99:

(4, 54201), (Start: 5 @54213 has 4 MA's), (Start: 16 @54315 has 1 MA's), (17, 54321), (24, 54414), (43, 54606), (51, 54720), (58, 54831), (75, 54930), (77, 54966),

Gene: Mapleville_80 Start: 47176, Stop: 47832, Start Num: 13

Candidate Starts for Mapleville_80:

(Start: 13 @47176 has 1 MA's), (15, 47197), (24, 47302), (30, 47365), (55, 47635),

Gene: Mapleville_88 Start: 50610, Stop: 51389, Start Num: 5

Candidate Starts for Mapleville_88:

(4, 50598), (Start: 5 @50610 has 4 MA's), (19, 50754), (32, 50892), (35, 50958), (42, 51009), (51, 51126), (58, 51237), (60, 51243), (75, 51336),

Gene: ModicumRichard_106 Start: 60143, Stop: 60772, Start Num: 16

Candidate Starts for ModicumRichard_106:

(1, 59753), (2, 59765), (Start: 16 @60143 has 1 MA's), (28, 60269), (29, 60272), (31, 60323), (41, 60440), (50, 60551), (71, 60737), (72, 60746),

Gene: Phrank15_101 Start: 52549, Stop: 53265, Start Num: 5

Candidate Starts for Phrank15_101:

(4, 52537), (Start: 5 @52549 has 4 MA's), (51, 53050), (59, 53161),

Gene: Ruotula_1 Start: 698, Stop: 1348, Start Num: 14

Candidate Starts for Ruotula_1:

(12, 686), (Start: 14 @698 has 6 MA's), (22, 794), (23, 797), (34, 962), (38, 986), (40, 1004), (43, 1022), (62, 1265), (65, 1283), (74, 1340),

Gene: Sanya_1 Start: 697, Stop: 1347, Start Num: 14

Candidate Starts for Sanya_1:

(12, 685), (Start: 14 @697 has 6 MA's), (22, 793), (23, 796), (34, 961), (38, 985), (40, 1003), (43, 1021), (62, 1264), (65, 1282), (74, 1339),

Gene: Verity_42 Start: 39489, Stop: 40070, Start Num: 26

Candidate Starts for Verity_42:

(Start: 26 @39489 has 3 MA's), (33, 39624), (47, 39747), (56, 39855), (66, 39957), (67, 39966), (69, 39987),