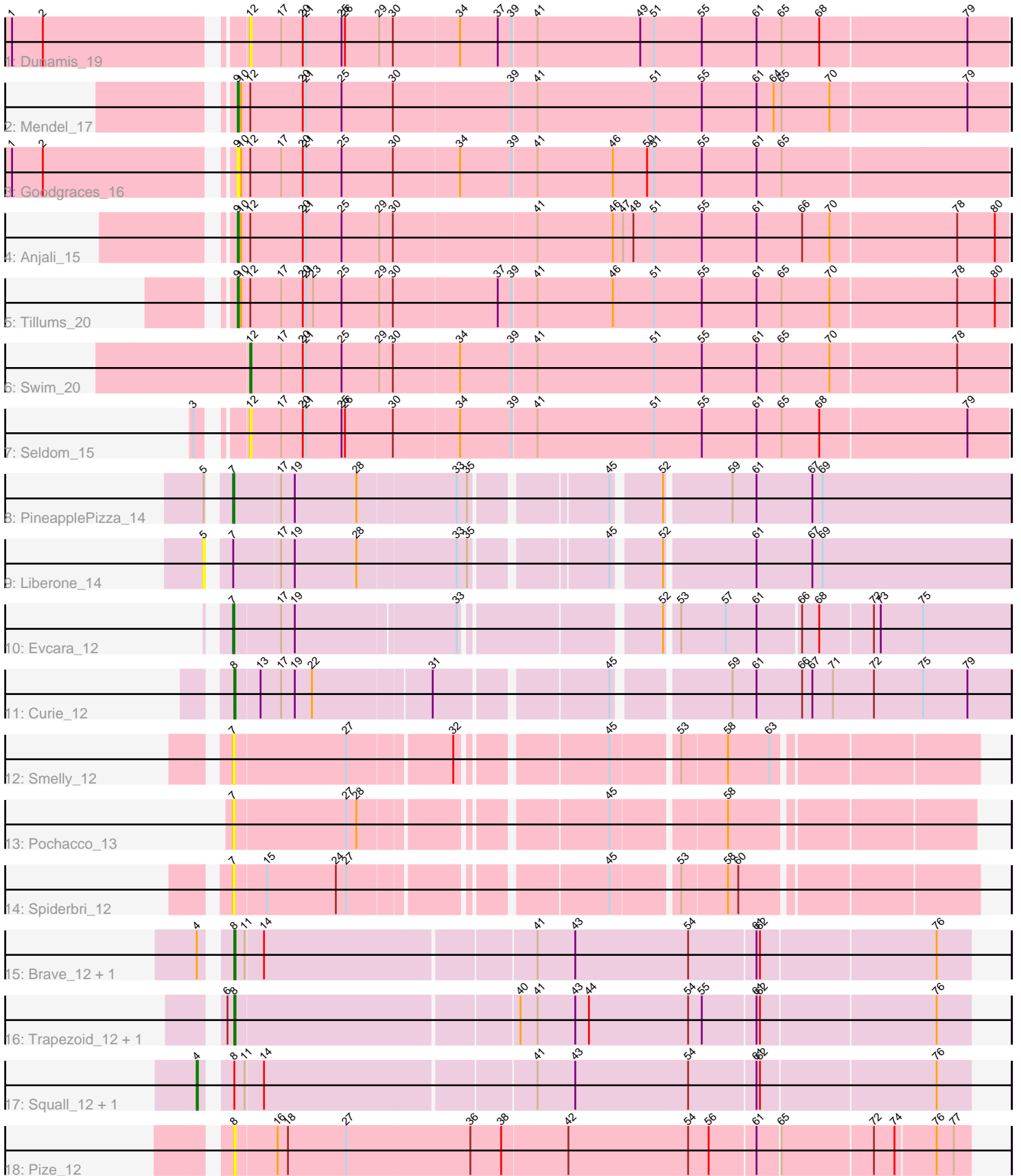


Pham 224899



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 224899 Report

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

Pham number 224899 has 21 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Dunamis_19
- Track 2 : Mendel_17
- Track 3 : Goodgraces_16
- Track 4 : Anjali_15
- Track 5 : Tillums_20
- Track 6 : Swim_20
- Track 7 : Seldom_15
- Track 8 : PineapplePizza_14
- Track 9 : Liberone_14
- Track 10 : Evcara_12
- Track 11 : Curie_12
- Track 12 : Smelly_12
- Track 13 : Pochacco_13
- Track 14 : Spiderbri_12
- Track 15 : Brave_12, Penne_12
- Track 16 : Trapezoid_12, Reje_12
- Track 17 : Squall_12, Fairywren_12
- Track 18 : Pize_12

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

The start number called the most often in the published annotations is 8, it was called in 4 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Brave_12, Curie_12, Penne_12, Pize_12, Reje_12, Trapezoid_12,

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

- Fairywren_12, Squall_12,

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

- Anjali_15, Dunamis_19, Evcara_12, Goodgraces_16, Liberone_14, Mendel_17, PineapplePizza_14, Pochacco_13, Seldom_15, Smelly_12, Spiderbri_12, Swim_20, Tillums_20,

Summary by start number:

Start 4:

- Found in 4 of 21 (19.0%) of genes in pham
- Manual Annotations of this start: 2 of 12
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Fairywren_12 (JB), Squall_12 (JB),

Start 5:

- Found in 2 of 21 (9.5%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Liberone_14 (GI),

Start 7:

- Found in 6 of 21 (28.6%) of genes in pham
- Manual Annotations of this start: 2 of 12
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Evcara_12 (GI), PineapplePizza_14 (GI), Pochacco_13 (GK), Smelly_12 (GK), Spiderbri_12 (GK),

Start 8:

- Found in 8 of 21 (38.1%) of genes in pham
- Manual Annotations of this start: 4 of 12
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Brave_12 (JB), Curie_12 (GI), Penne_12 (JB), Pize_12 (UNK), Reje_12 (UNK), Trapezoid_12 (JB),

Start 9:

- Found in 4 of 21 (19.0%) of genes in pham
- Manual Annotations of this start: 3 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anjali_15 (FD), Goodgraces_16 (FD), Mendel_17 (FD), Tillums_20 (FD),

Start 12:

- Found in 7 of 21 (33.3%) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 42.9% of time when present
- Phage (with cluster) where this start called: Dunamis_19 (FD), Seldom_15 (FD), Swim_20 (FD),

Summary by clusters:

There are 5 clusters represented in this pham: GK, UNK, FD, GI, JB,

Info for manual annotations of cluster FD:

- Start number 9 was manually annotated 3 times for cluster FD.
- Start number 12 was manually annotated 1 time for cluster FD.

Info for manual annotations of cluster GI:

- Start number 7 was manually annotated 2 times for cluster GI.

- Start number 8 was manually annotated 1 time for cluster GI.

Info for manual annotations of cluster JB:

- Start number 4 was manually annotated 2 times for cluster JB.
- Start number 8 was manually annotated 3 times for cluster JB.

Gene Information:

Gene: Anjali_15 Start: 12943, Stop: 13605, Start Num: 9

Candidate Starts for Anjali_15:

(Start: 9 @12943 has 3 MA's), (10, 12946), (Start: 12 @12952 has 1 MA's), (20, 12997), (21, 13000), (25, 13030), (29, 13063), (30, 13075), (41, 13198), (46, 13264), (47, 13273), (48, 13282), (51, 13300), (55, 13342), (61, 13390), (66, 13429), (70, 13453), (78, 13561), (80, 13594),

Gene: Brave_12 Start: 12439, Stop: 13059, Start Num: 8

Candidate Starts for Brave_12:

(Start: 4 @12421 has 2 MA's), (Start: 8 @12439 has 4 MA's), (11, 12448), (14, 12463), (41, 12691), (43, 12724), (54, 12823), (61, 12880), (62, 12883), (76, 13030),

Gene: Curie_12 Start: 12432, Stop: 13067, Start Num: 8

Candidate Starts for Curie_12:

(Start: 8 @12432 has 4 MA's), (13, 12453), (17, 12471), (19, 12483), (22, 12498), (31, 12597), (45, 12735), (59, 12825), (61, 12846), (66, 12885), (67, 12894), (71, 12912), (72, 12948), (75, 12990), (79, 13029),

Gene: Dunamis_19 Start: 13118, Stop: 13771, Start Num: 12

Candidate Starts for Dunamis_19:

(1, 12932), (2, 12959), (Start: 12 @13118 has 1 MA's), (17, 13145), (20, 13163), (21, 13166), (25, 13196), (26, 13199), (29, 13229), (30, 13241), (34, 13298), (37, 13331), (39, 13343), (41, 13364), (49, 13454), (51, 13466), (55, 13508), (61, 13556), (65, 13577), (68, 13610), (79, 13736),

Gene: Evcara_12 Start: 12378, Stop: 13010, Start Num: 7

Candidate Starts for Evcara_12:

(Start: 7 @12378 has 2 MA's), (17, 12417), (19, 12429), (33, 12564), (52, 12720), (53, 12729), (57, 12768), (61, 12795), (66, 12831), (68, 12846), (72, 12891), (73, 12897), (75, 12933),

Gene: Fairywren_12 Start: 12387, Stop: 13025, Start Num: 4

Candidate Starts for Fairywren_12:

(Start: 4 @12387 has 2 MA's), (Start: 8 @12405 has 4 MA's), (11, 12414), (14, 12429), (41, 12657), (43, 12690), (54, 12789), (61, 12846), (62, 12849), (76, 12996),

Gene: Goodgraces_16 Start: 13169, Stop: 13831, Start Num: 9

Candidate Starts for Goodgraces_16:

(1, 12992), (2, 13019), (Start: 9 @13169 has 3 MA's), (10, 13172), (Start: 12 @13178 has 1 MA's), (17, 13205), (20, 13223), (21, 13226), (25, 13256), (30, 13301), (34, 13358), (39, 13403), (41, 13424), (46, 13490), (50, 13520), (51, 13526), (55, 13568), (61, 13616), (65, 13637),

Gene: Liberone_14 Start: 13161, Stop: 13808, Start Num: 5

Candidate Starts for Liberone_14:

(5, 13161), (Start: 7 @13173 has 2 MA's), (17, 13212), (19, 13224), (28, 13278), (33, 13362), (35, 13371), (45, 13476), (52, 13512), (61, 13587), (67, 13635), (69, 13644),

Gene: Mendel_17 Start: 12867, Stop: 13529, Start Num: 9

Candidate Starts for Mendel_17:

(Start: 9 @12867 has 3 MA's), (10, 12870), (Start: 12 @12876 has 1 MA's), (20, 12921), (21, 12924), (25, 12954), (30, 12999), (39, 13101), (41, 13122), (51, 13224), (55, 13266), (61, 13314), (64, 13329), (65, 13335), (70, 13377), (79, 13494),

Gene: Penne_12 Start: 12442, Stop: 13062, Start Num: 8

Candidate Starts for Penne_12:

(Start: 4 @12424 has 2 MA's), (Start: 8 @12442 has 4 MA's), (11, 12451), (14, 12466), (41, 12694), (43, 12727), (54, 12826), (61, 12883), (62, 12886), (76, 13033),

Gene: PineapplePizza_14 Start: 13106, Stop: 13741, Start Num: 7

Candidate Starts for PineapplePizza_14:

(5, 13094), (Start: 7 @13106 has 2 MA's), (17, 13145), (19, 13157), (28, 13211), (33, 13295), (35, 13304), (45, 13409), (52, 13445), (59, 13499), (61, 13520), (67, 13568), (69, 13577),

Gene: Pize_12 Start: 12515, Stop: 13141, Start Num: 8

Candidate Starts for Pize_12:

(Start: 8 @12515 has 4 MA's), (16, 12551), (18, 12560), (27, 12611), (36, 12719), (38, 12746), (42, 12803), (54, 12908), (56, 12926), (61, 12965), (65, 12983), (72, 13061), (74, 13079), (76, 13112), (77, 13127),

Gene: Pochacco_13 Start: 12208, Stop: 12795, Start Num: 7

Candidate Starts for Pochacco_13:

(Start: 7 @12208 has 2 MA's), (27, 12304), (28, 12313), (45, 12502), (58, 12595),

Gene: Reje_12 Start: 12270, Stop: 12890, Start Num: 8

Candidate Starts for Reje_12:

(6, 12264), (Start: 8 @12270 has 4 MA's), (40, 12507), (41, 12522), (43, 12555), (44, 12567), (54, 12654), (55, 12666), (61, 12711), (62, 12714), (76, 12861),

Gene: Seldom_15 Start: 13502, Stop: 14155, Start Num: 12

Candidate Starts for Seldom_15:

(3, 13475), (Start: 12 @13502 has 1 MA's), (17, 13529), (20, 13547), (21, 13550), (25, 13580), (26, 13583), (30, 13625), (34, 13682), (39, 13727), (41, 13748), (51, 13850), (55, 13892), (61, 13940), (65, 13961), (68, 13994), (79, 14120),

Gene: Smelly_12 Start: 12047, Stop: 12637, Start Num: 7

Candidate Starts for Smelly_12:

(Start: 7 @12047 has 2 MA's), (27, 12143), (32, 12227), (45, 12341), (53, 12395), (58, 12434), (63, 12470),

Gene: Spiderbri_12 Start: 12150, Stop: 12740, Start Num: 7

Candidate Starts for Spiderbri_12:

(Start: 7 @12150 has 2 MA's), (15, 12177), (24, 12237), (27, 12246), (45, 12444), (53, 12498), (58, 12537), (60, 12546),

Gene: Squall_12 Start: 12391, Stop: 13029, Start Num: 4

Candidate Starts for Squall_12:

(Start: 4 @12391 has 2 MA's), (Start: 8 @12409 has 4 MA's), (11, 12418), (14, 12433), (41, 12661), (43, 12694), (54, 12793), (61, 12850), (62, 12853), (76, 13000),

Gene: Swim_20 Start: 13301, Stop: 13954, Start Num: 12

Candidate Starts for Swim_20:

(Start: 12 @13301 has 1 MA's), (17, 13328), (20, 13346), (21, 13349), (25, 13379), (29, 13412), (30, 13424), (34, 13481), (39, 13526), (41, 13547), (51, 13649), (55, 13691), (61, 13739), (65, 13760), (70, 13802), (78, 13910),

Gene: Tillums_20 Start: 13489, Stop: 14151, Start Num: 9

Candidate Starts for Tillums_20:

(Start: 9 @13489 has 3 MA's), (10, 13492), (Start: 12 @13498 has 1 MA's), (17, 13525), (20, 13543), (21, 13546), (23, 13552), (25, 13576), (29, 13609), (30, 13621), (37, 13711), (39, 13723), (41, 13744), (46, 13810), (51, 13846), (55, 13888), (61, 13936), (65, 13957), (70, 13999), (78, 14107), (80, 14140),

Gene: Trapezoid_12 Start: 12303, Stop: 12923, Start Num: 8

Candidate Starts for Trapezoid_12:

(6, 12297), (Start: 8 @12303 has 4 MA's), (40, 12540), (41, 12555), (43, 12588), (44, 12600), (54, 12687), (55, 12699), (61, 12744), (62, 12747), (76, 12894),