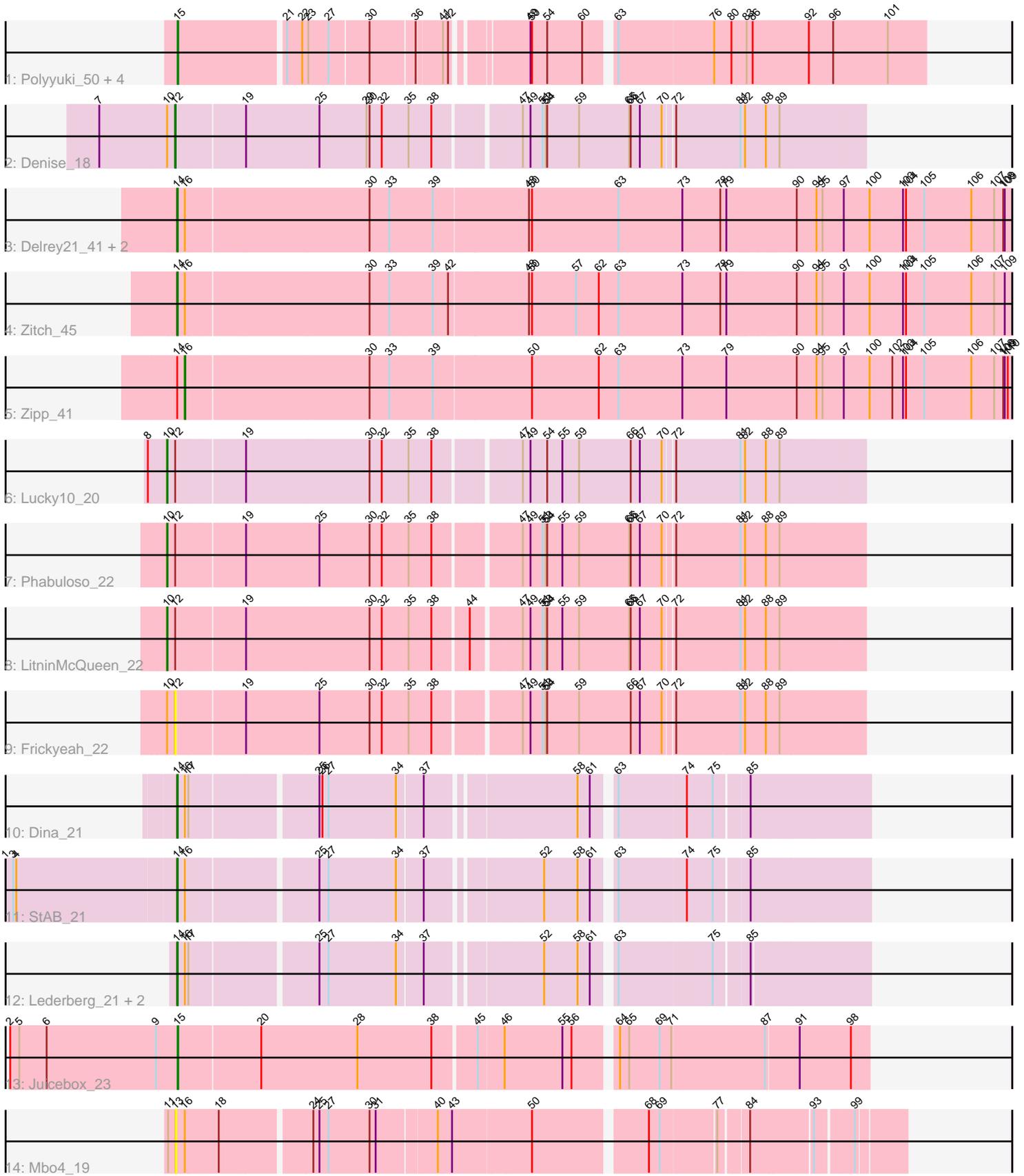


Pham 284172



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 284172 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284172 has 22 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Polyuyuki_50, Apiary_50, CoffeeBean_50, Maselop_50, Braxoaddie_50
- Track 2 : Denise_18
- Track 3 : Delrey21_41, Verity_41, DoctorFroggo_41
- Track 4 : Zitch_45
- Track 5 : Zipp_41
- Track 6 : Lucky10_20
- Track 7 : Phabuloso_22
- Track 8 : LitninMcQueen_22
- Track 9 : Frickyeah_22
- Track 10 : Dina_21
- Track 11 : StAB_21
- Track 12 : Lederberg_21, Troy_21, SamW_21
- Track 13 : Juicebox_23
- Track 14 : Mbo4_19

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 9 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Delrey21_41, Dina_21, DoctorFroggo_41, Lederberg_21, SamW_21, StAB_21, Troy_21, Verity_41, Zitch_45,

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

- Zipp_41,

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

- Apiary_50, Braxoaddie_50, CoffeeBean_50, Denise_18, Frickyeah_22, Juicebox_23, LitninMcQueen_22, Lucky10_20, Maselop_50, Mbo4_19, Phabuloso_22, Polyuyuki_50,

Summary by start number:

Start 10:

- Found in 5 of 22 (22.7%) of genes in pham
- Manual Annotations of this start: 3 of 20
- Called 60.0% of time when present
- Phage (with cluster) where this start called: LitninMcQueen_22 (DN1), Lucky10_20 (DH), Phabuloso_22 (DN1),

Start 12:

- Found in 5 of 22 (22.7%) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Denise_18 (CZ5), Frickyeah_22 (DN1),

Start 13:

- Found in 1 of 22 (4.5%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mbo4_19 (singleton),

Start 14:

- Found in 10 of 22 (45.5%) of genes in pham
- Manual Annotations of this start: 9 of 20
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Delrey21_41 (DE4), Dina_21 (EP), DoctorFroggo_41 (DE4), Lederberg_21 (EP), SamW_21 (EP), StAB_21 (EP), Troy_21 (EP), Verity_41 (DE4), Zitch_45 (DE4),

Start 15:

- Found in 6 of 22 (27.3%) of genes in pham
- Manual Annotations of this start: 6 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Apiary_50 (CR6), Braxoaddie_50 (CR6), CoffeeBean_50 (CR6), Juicebox_23 (singleton), Maselop_50 (CR6), Polyyuki_50 (CR6),

Start 16:

- Found in 11 of 22 (50.0%) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 9.1% of time when present
- Phage (with cluster) where this start called: Zipp_41 (DE4),

Summary by clusters:

There are 7 clusters represented in this pham: singleton, CR6, DH, DE4, CZ5, DN1, EP,

Info for manual annotations of cluster CR6:

- Start number 15 was manually annotated 5 times for cluster CR6.

Info for manual annotations of cluster CZ5:

- Start number 12 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster DE4:

- Start number 14 was manually annotated 4 times for cluster DE4.
- Start number 16 was manually annotated 1 time for cluster DE4.

Info for manual annotations of cluster DH:

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

Info for manual annotations of cluster DN1:

- Start number 10 was manually annotated 2 times for cluster DN1.

Info for manual annotations of cluster EP:

- Start number 14 was manually annotated 5 times for cluster EP.

Gene Information:

Gene: Apiary_50 Start: 35704, Stop: 37047, Start Num: 15

Candidate Starts for Apiary_50:

(Start: 15 @35704 has 6 MA's), (21, 35902), (22, 35932), (23, 35944), (27, 35983), (30, 36055), (36, 36133), (41, 36175), (42, 36184), (49, 36307), (50, 36310), (54, 36340), (60, 36409), (63, 36457), (76, 36640), (80, 36673), (83, 36703), (86, 36715), (92, 36823), (96, 36868), (101, 36973),

Gene: Braxoaddie_50 Start: 35693, Stop: 37036, Start Num: 15

Candidate Starts for Braxoaddie_50:

(Start: 15 @35693 has 6 MA's), (21, 35891), (22, 35921), (23, 35933), (27, 35972), (30, 36044), (36, 36122), (41, 36164), (42, 36173), (49, 36296), (50, 36299), (54, 36329), (60, 36398), (63, 36446), (76, 36629), (80, 36662), (83, 36692), (86, 36704), (92, 36812), (96, 36857), (101, 36962),

Gene: CoffeeBean_50 Start: 35651, Stop: 36994, Start Num: 15

Candidate Starts for CoffeeBean_50:

(Start: 15 @35651 has 6 MA's), (21, 35849), (22, 35879), (23, 35891), (27, 35930), (30, 36002), (36, 36080), (41, 36122), (42, 36131), (49, 36254), (50, 36257), (54, 36287), (60, 36356), (63, 36404), (76, 36587), (80, 36620), (83, 36650), (86, 36662), (92, 36770), (96, 36815), (101, 36920),

Gene: Delrey21_41 Start: 37882, Stop: 39492, Start Num: 14

Candidate Starts for Delrey21_41:

(Start: 14 @37882 has 9 MA's), (Start: 16 @37897 has 1 MA's), (30, 38248), (33, 38287), (39, 38371), (48, 38554), (50, 38560), (63, 38728), (73, 38854), (78, 38929), (79, 38941), (90, 39070), (94, 39109), (95, 39121), (97, 39160), (100, 39211), (103, 39277), (104, 39283), (105, 39319), (106, 39412), (107, 39457), (108, 39475), (109, 39478),

Gene: Denise_18 Start: 16581, Stop: 17858, Start Num: 12

Candidate Starts for Denise_18:

(7, 16434), (Start: 10 @16566 has 3 MA's), (Start: 12 @16581 has 1 MA's), (19, 16704), (25, 16848), (29, 16941), (30, 16947), (32, 16971), (35, 17022), (38, 17061), (47, 17211), (49, 17226), (51, 17247), (53, 17253), (54, 17256), (59, 17319), (65, 17418), (66, 17421), (67, 17439), (70, 17478), (72, 17496), (81, 17622), (82, 17631), (88, 17670), (89, 17697),

Gene: Dina_21 Start: 19817, Stop: 21049, Start Num: 14

Candidate Starts for Dina_21:

(Start: 14 @19817 has 9 MA's), (Start: 16 @19826 has 1 MA's), (17, 19832), (25, 20063), (26, 20069), (27, 20081), (34, 20210), (37, 20258), (58, 20522), (61, 20546), (63, 20579), (74, 20705), (75, 20756), (85, 20819),

Gene: DoctorFroggo_41 Start: 37882, Stop: 39492, Start Num: 14

Candidate Starts for DoctorFroggo_41:

(Start: 14 @37882 has 9 MA's), (Start: 16 @37897 has 1 MA's), (30, 38248), (33, 38287), (39, 38371), (48, 38554), (50, 38560), (63, 38728), (73, 38854), (78, 38929), (79, 38941), (90, 39070), (94, 39109), (95, 39121), (97, 39160), (100, 39211), (103, 39277), (104, 39283), (105, 39319), (106, 39412), (107, 39457), (108, 39475), (109, 39478),

Gene: Frickyeah_22 Start: 18680, Stop: 19957, Start Num: 12

Candidate Starts for Frickyeah_22:

(Start: 10 @18665 has 3 MA's), (Start: 12 @18680 has 1 MA's), (19, 18803), (25, 18947), (30, 19046), (32, 19070), (35, 19121), (38, 19160), (47, 19310), (49, 19325), (51, 19346), (53, 19352), (54, 19355), (59, 19418), (66, 19520), (67, 19538), (70, 19577), (72, 19595), (81, 19721), (82, 19730), (88, 19769), (89, 19796),

Gene: Juicebox_23 Start: 21279, Stop: 22559, Start Num: 15

Candidate Starts for Juicebox_23:

(2, 20949), (5, 20967), (6, 21021), (9, 21237), (Start: 15 @21279 has 6 MA's), (20, 21432), (28, 21621), (38, 21762), (45, 21837), (46, 21885), (55, 21996), (56, 22014), (64, 22086), (65, 22104), (69, 22164), (71, 22185), (87, 22365), (91, 22428), (98, 22524),

Gene: Lederberg_21 Start: 19839, Stop: 21065, Start Num: 14

Candidate Starts for Lederberg_21:

(Start: 14 @19839 has 9 MA's), (Start: 16 @19848 has 1 MA's), (17, 19854), (25, 20085), (27, 20103), (34, 20232), (37, 20280), (52, 20478), (58, 20544), (61, 20568), (63, 20601), (75, 20778), (85, 20841),

Gene: LitninMcQueen_22 Start: 18659, Stop: 19951, Start Num: 10

Candidate Starts for LitninMcQueen_22:

(Start: 10 @18659 has 3 MA's), (Start: 12 @18674 has 1 MA's), (19, 18797), (30, 19040), (32, 19064), (35, 19115), (38, 19154), (44, 19220), (47, 19304), (49, 19319), (51, 19340), (53, 19346), (54, 19349), (55, 19379), (59, 19412), (65, 19511), (66, 19514), (67, 19532), (70, 19571), (72, 19589), (81, 19715), (82, 19724), (88, 19763), (89, 19790),

Gene: Lucky10_20 Start: 17297, Stop: 18589, Start Num: 10

Candidate Starts for Lucky10_20:

(8, 17261), (Start: 10 @17297 has 3 MA's), (Start: 12 @17312 has 1 MA's), (19, 17435), (30, 17678), (32, 17702), (35, 17753), (38, 17792), (47, 17942), (49, 17957), (54, 17987), (55, 18017), (59, 18050), (66, 18152), (67, 18170), (70, 18209), (72, 18227), (81, 18353), (82, 18362), (88, 18401), (89, 18428),

Gene: Maselop_50 Start: 35727, Stop: 37070, Start Num: 15

Candidate Starts for Maselop_50:

(Start: 15 @35727 has 6 MA's), (21, 35925), (22, 35955), (23, 35967), (27, 36006), (30, 36078), (36, 36156), (41, 36198), (42, 36207), (49, 36330), (50, 36333), (54, 36363), (60, 36432), (63, 36480), (76, 36663), (80, 36696), (83, 36726), (86, 36738), (92, 36846), (96, 36891), (101, 36996),

Gene: Mbo4_19 Start: 17568, Stop: 18866, Start Num: 13

Candidate Starts for Mbo4_19:

(11, 17553), (13, 17568), (Start: 16 @17583 has 1 MA's), (18, 17646), (24, 17814), (25, 17826), (27, 17844), (30, 17925), (31, 17937), (40, 18045), (43, 18072), (50, 18222), (68, 18429), (69, 18450), (77, 18552), (84, 18600), (93, 18711), (99, 18774),

Gene: Phabuloso_22 Start: 18659, Stop: 19951, Start Num: 10

Candidate Starts for Phabuloso_22:

(Start: 10 @18659 has 3 MA's), (Start: 12 @18674 has 1 MA's), (19, 18797), (25, 18941), (30, 19040), (32, 19064), (35, 19115), (38, 19154), (47, 19304), (49, 19319), (51, 19340), (53, 19346), (54, 19349), (55, 19379), (59, 19412), (65, 19511), (66, 19514), (67, 19532), (70, 19571), (72, 19589), (81, 19715), (82, 19724), (88, 19763), (89, 19790),

Gene: Polyuyki_50 Start: 35716, Stop: 37059, Start Num: 15

Candidate Starts for Polyuyki_50:

(Start: 15 @35716 has 6 MA's), (21, 35914), (22, 35944), (23, 35956), (27, 35995), (30, 36067), (36, 36145), (41, 36187), (42, 36196), (49, 36319), (50, 36322), (54, 36352), (60, 36421), (63, 36469), (76, 36652), (80, 36685), (83, 36715), (86, 36727), (92, 36835), (96, 36880), (101, 36985),

Gene: SamW_21 Start: 19818, Stop: 21044, Start Num: 14

Candidate Starts for SamW_21:

(Start: 14 @19818 has 9 MA's), (Start: 16 @19827 has 1 MA's), (17, 19833), (25, 20064), (27, 20082), (34, 20211), (37, 20259), (52, 20457), (58, 20523), (61, 20547), (63, 20580), (75, 20757), (85, 20820),

Gene: StAB_21 Start: 19864, Stop: 21096, Start Num: 14

Candidate Starts for StAB_21:

(1, 19534), (3, 19549), (4, 19555), (Start: 14 @19864 has 9 MA's), (Start: 16 @19873 has 1 MA's), (25, 20110), (27, 20128), (34, 20257), (37, 20305), (52, 20503), (58, 20569), (61, 20593), (63, 20626), (74, 20752), (75, 20803), (85, 20866),

Gene: Troy_21 Start: 19818, Stop: 21044, Start Num: 14

Candidate Starts for Troy_21:

(Start: 14 @19818 has 9 MA's), (Start: 16 @19827 has 1 MA's), (17, 19833), (25, 20064), (27, 20082), (34, 20211), (37, 20259), (52, 20457), (58, 20523), (61, 20547), (63, 20580), (75, 20757), (85, 20820),

Gene: Verity_41 Start: 37882, Stop: 39492, Start Num: 14

Candidate Starts for Verity_41:

(Start: 14 @37882 has 9 MA's), (Start: 16 @37897 has 1 MA's), (30, 38248), (33, 38287), (39, 38371), (48, 38554), (50, 38560), (63, 38728), (73, 38854), (78, 38929), (79, 38941), (90, 39070), (94, 39109), (95, 39121), (97, 39160), (100, 39211), (103, 39277), (104, 39283), (105, 39319), (106, 39412), (107, 39457), (108, 39475), (109, 39478),

Gene: Zipp_41 Start: 37800, Stop: 39395, Start Num: 16

Candidate Starts for Zipp_41:

(Start: 14 @37785 has 9 MA's), (Start: 16 @37800 has 1 MA's), (30, 38151), (33, 38190), (39, 38274), (50, 38463), (62, 38592), (63, 38631), (73, 38757), (79, 38844), (90, 38973), (94, 39012), (95, 39024), (97, 39063), (100, 39114), (102, 39159), (103, 39180), (104, 39186), (105, 39222), (106, 39315), (107, 39360), (108, 39378), (109, 39381), (110, 39387),

Gene: Zitch_45 Start: 36483, Stop: 38093, Start Num: 14

Candidate Starts for Zitch_45:

(Start: 14 @36483 has 9 MA's), (Start: 16 @36498 has 1 MA's), (30, 36849), (33, 36888), (39, 36972), (42, 37002), (48, 37155), (50, 37161), (57, 37245), (62, 37290), (63, 37329), (73, 37455), (78, 37530), (79, 37542), (90, 37671), (94, 37710), (95, 37722), (97, 37761), (100, 37812), (103, 37878), (104, 37884), (105, 37920), (106, 38013), (107, 38058), (109, 38079),