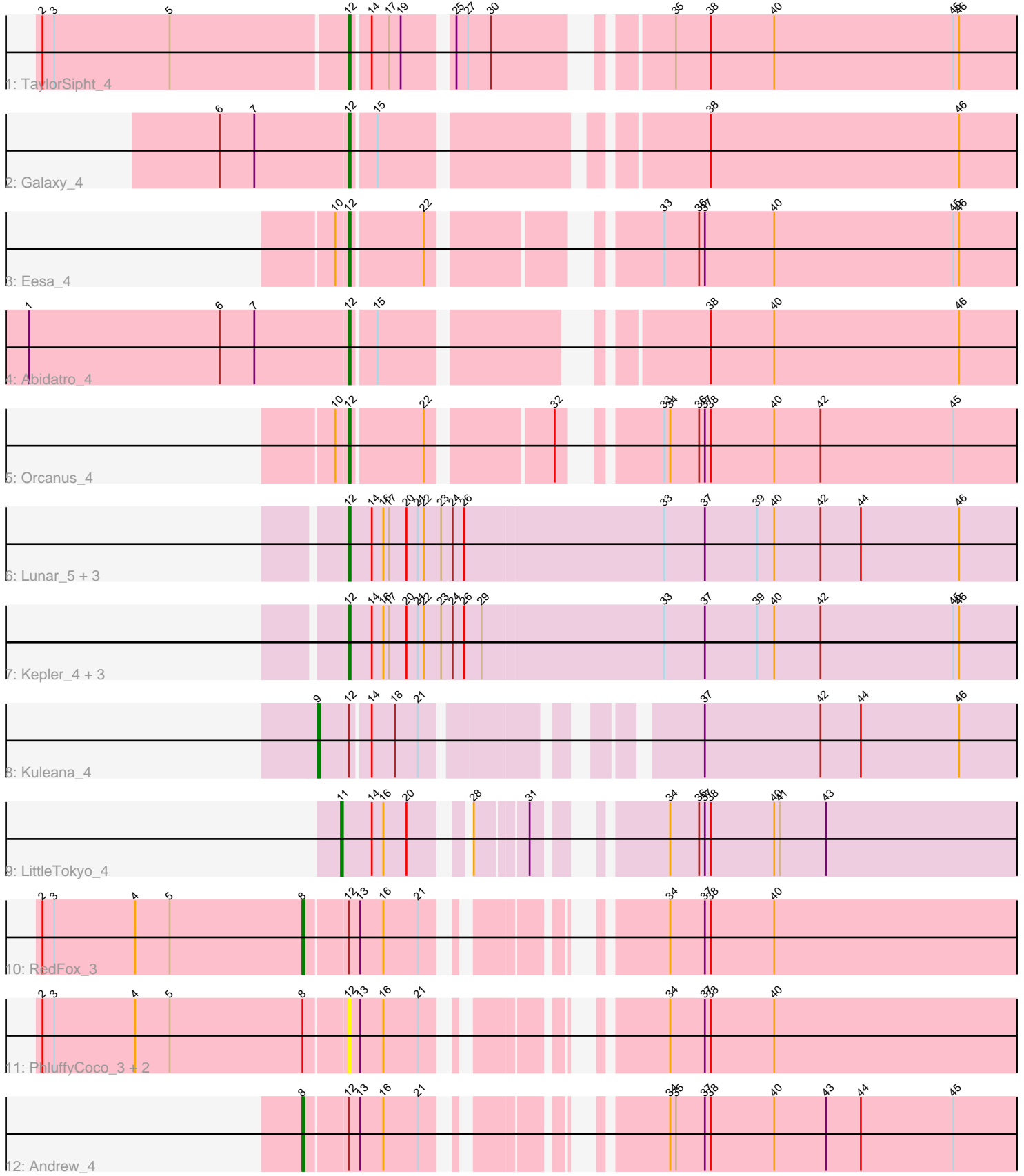


Pham 162179



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 162179 Report

This analysis was run 04/28/24 on database version 559.

Pham number 162179 has 20 members, 3 are drafts.

Phages represented in each track:

- Track 1 : TaylorSipht_4
- Track 2 : Galaxy_4
- Track 3 : Eesa_4
- Track 4 : Abidatro_4
- Track 5 : Orcanus_4
- Track 6 : Lunar_5, Cote_5, Amelia_5, Melons_5
- Track 7 : Kepler_4, Daob_5, Polka_4, Coral_4
- Track 8 : Kuleana_4
- Track 9 : LittleTokyo_4
- Track 10 : RedFox_3
- Track 11 : PhluffyCoco_3, KHumphrey_3, Juno112_3
- Track 12 : Andrew_4

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

The start number called the most often in the published annotations is 12, it was called in 13 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abidatro_4, Amelia_5, Coral_4, Cote_5, Daob_5, Eesa_4, Galaxy_4, Juno112_3, KHumphrey_3, Kepler_4, Lunar_5, Melons_5, Orcanus_4, PhluffyCoco_3, Polka_4, TaylorSipht_4,

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

- Andrew_4, Kuleana_4, RedFox_3,

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

- LittleTokyo_4,

Summary by start number:

Start 8:

- Found in 5 of 20 (25.0%) of genes in pham
- Manual Annotations of this start: 2 of 17

- Called 40.0% of time when present
- Phage (with cluster) where this start called: Andrew_4 (AS3), RedFox_3 (AS3),

Start 9:

- Found in 1 of 20 (5.0%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kuleana_4 (AS2),

Start 11:

- Found in 1 of 20 (5.0%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LittleTokyo_4 (AS2),

Start 12:

- Found in 19 of 20 (95.0%) of genes in pham
- Manual Annotations of this start: 13 of 17
- Called 84.2% of time when present
- Phage (with cluster) where this start called: Abidatro_4 (AS1), Amelia_5 (AS2), Coral_4 (AS2), Cote_5 (AS2), Daob_5 (AS2), Eesa_4 (AS1), Galaxy_4 (AS1), Juno112_3 (AS3), KHumphrey_3 (AS3), Kepler_4 (AS2), Lunar_5 (AS2), Melons_5 (AS2), Orcanus_4 (AS1), PhluffyCoco_3 (AS3), Polka_4 (AS2), TaylorSipht_4 (AS1),

Summary by clusters:

There are 3 clusters represented in this pham: AS3, AS2, AS1,

Info for manual annotations of cluster AS1:

- Start number 12 was manually annotated 5 times for cluster AS1.

Info for manual annotations of cluster AS2:

- Start number 9 was manually annotated 1 time for cluster AS2.
- Start number 11 was manually annotated 1 time for cluster AS2.
- Start number 12 was manually annotated 8 times for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 8 was manually annotated 2 times for cluster AS3.

Gene Information:

Gene: Abidatro_4 Start: 2358, Stop: 2675, Start Num: 12

Candidate Starts for Abidatro_4:

(1, 2193), (6, 2292), (7, 2310), (Start: 12 @2358 has 13 MA's), (15, 2370), (38, 2508), (40, 2541), (46, 2637),

Gene: Amelia_5 Start: 2509, Stop: 2862, Start Num: 12

Candidate Starts for Amelia_5:

(Start: 12 @2509 has 13 MA's), (14, 2521), (16, 2527), (17, 2530), (20, 2539), (21, 2545), (22, 2548), (23, 2557), (24, 2563), (26, 2569), (33, 2671), (37, 2692), (39, 2719), (40, 2728), (42, 2752), (44, 2773), (46, 2824),

Gene: Andrew_4 Start: 2360, Stop: 2689, Start Num: 8

Candidate Starts for Andrew_4:

(Start: 8 @2360 has 2 MA's), (Start: 12 @2381 has 13 MA's), (13, 2387), (16, 2399), (21, 2417), (34, 2501), (35, 2504), (37, 2519), (38, 2522), (40, 2555), (43, 2582), (44, 2600), (45, 2648),

Gene: Coral_4 Start: 2345, Stop: 2698, Start Num: 12

Candidate Starts for Coral_4:

(Start: 12 @2345 has 13 MA's), (14, 2357), (16, 2363), (17, 2366), (20, 2375), (21, 2381), (22, 2384), (23, 2393), (24, 2399), (26, 2405), (29, 2414), (33, 2507), (37, 2528), (39, 2555), (40, 2564), (42, 2588), (45, 2657), (46, 2660),

Gene: Cote_5 Start: 2509, Stop: 2862, Start Num: 12

Candidate Starts for Cote_5:

(Start: 12 @2509 has 13 MA's), (14, 2521), (16, 2527), (17, 2530), (20, 2539), (21, 2545), (22, 2548), (23, 2557), (24, 2563), (26, 2569), (33, 2671), (37, 2692), (39, 2719), (40, 2728), (42, 2752), (44, 2773), (46, 2824),

Gene: Daob_5 Start: 2509, Stop: 2862, Start Num: 12

Candidate Starts for Daob_5:

(Start: 12 @2509 has 13 MA's), (14, 2521), (16, 2527), (17, 2530), (20, 2539), (21, 2545), (22, 2548), (23, 2557), (24, 2563), (26, 2569), (29, 2578), (33, 2671), (37, 2692), (39, 2719), (40, 2728), (42, 2752), (45, 2821), (46, 2824),

Gene: Eesa_4 Start: 2556, Stop: 2876, Start Num: 12

Candidate Starts for Eesa_4:

(10, 2550), (Start: 12 @2556 has 13 MA's), (22, 2592), (33, 2685), (36, 2703), (37, 2706), (40, 2742), (45, 2835), (46, 2838),

Gene: Galaxy_4 Start: 2358, Stop: 2684, Start Num: 12

Candidate Starts for Galaxy_4:

(6, 2292), (7, 2310), (Start: 12 @2358 has 13 MA's), (15, 2370), (38, 2517), (46, 2646),

Gene: Juno112_3 Start: 2010, Stop: 2318, Start Num: 12

Candidate Starts for Juno112_3:

(2, 1854), (3, 1860), (4, 1902), (5, 1920), (Start: 8 @1989 has 2 MA's), (Start: 12 @2010 has 13 MA's), (13, 2016), (16, 2028), (21, 2046), (34, 2130), (37, 2148), (38, 2151), (40, 2184),

Gene: KHumphrey_3 Start: 2010, Stop: 2318, Start Num: 12

Candidate Starts for KHumphrey_3:

(2, 1854), (3, 1860), (4, 1902), (5, 1920), (Start: 8 @1989 has 2 MA's), (Start: 12 @2010 has 13 MA's), (13, 2016), (16, 2028), (21, 2046), (34, 2130), (37, 2148), (38, 2151), (40, 2184),

Gene: Kepler_4 Start: 2344, Stop: 2697, Start Num: 12

Candidate Starts for Kepler_4:

(Start: 12 @2344 has 13 MA's), (14, 2356), (16, 2362), (17, 2365), (20, 2374), (21, 2380), (22, 2383), (23, 2392), (24, 2398), (26, 2404), (29, 2413), (33, 2506), (37, 2527), (39, 2554), (40, 2563), (42, 2587), (45, 2656), (46, 2659),

Gene: Kuleana_4 Start: 2342, Stop: 2671, Start Num: 9

Candidate Starts for Kuleana_4:

(Start: 9 @2342 has 1 MA's), (Start: 12 @2357 has 13 MA's), (14, 2366), (18, 2378), (21, 2390), (37, 2501), (42, 2561), (44, 2582), (46, 2633),

Gene: LittleTokyo_4 Start: 2335, Stop: 2649, Start Num: 11

Candidate Starts for LittleTokyo_4:

(Start: 11 @2335 has 1 MA's), (14, 2350), (16, 2356), (20, 2368), (28, 2389), (31, 2413), (34, 2461), (36, 2476), (37, 2479), (38, 2482), (40, 2515), (41, 2518), (43, 2542),

Gene: Lunar_5 Start: 2509, Stop: 2862, Start Num: 12

Candidate Starts for Lunar_5:

(Start: 12 @2509 has 13 MA's), (14, 2521), (16, 2527), (17, 2530), (20, 2539), (21, 2545), (22, 2548), (23, 2557), (24, 2563), (26, 2569), (33, 2671), (37, 2692), (39, 2719), (40, 2728), (42, 2752), (44, 2773), (46, 2824),

Gene: Melons_5 Start: 2509, Stop: 2862, Start Num: 12

Candidate Starts for Melons_5:

(Start: 12 @2509 has 13 MA's), (14, 2521), (16, 2527), (17, 2530), (20, 2539), (21, 2545), (22, 2548), (23, 2557), (24, 2563), (26, 2569), (33, 2671), (37, 2692), (39, 2719), (40, 2728), (42, 2752), (44, 2773), (46, 2824),

Gene: Orcanus_4 Start: 2349, Stop: 2669, Start Num: 12

Candidate Starts for Orcanus_4:

(10, 2343), (Start: 12 @2349 has 13 MA's), (22, 2385), (32, 2442), (33, 2478), (34, 2481), (36, 2496), (37, 2499), (38, 2502), (40, 2535), (42, 2559), (45, 2628),

Gene: PhluffyCoco_3 Start: 2010, Stop: 2318, Start Num: 12

Candidate Starts for PhluffyCoco_3:

(2, 1854), (3, 1860), (4, 1902), (5, 1920), (Start: 8 @1989 has 2 MA's), (Start: 12 @2010 has 13 MA's), (13, 2016), (16, 2028), (21, 2046), (34, 2130), (37, 2148), (38, 2151), (40, 2184),

Gene: Polka_4 Start: 2345, Stop: 2698, Start Num: 12

Candidate Starts for Polka_4:

(Start: 12 @2345 has 13 MA's), (14, 2357), (16, 2363), (17, 2366), (20, 2375), (21, 2381), (22, 2384), (23, 2393), (24, 2399), (26, 2405), (29, 2414), (33, 2507), (37, 2528), (39, 2555), (40, 2564), (42, 2588), (45, 2657), (46, 2660),

Gene: RedFox_3 Start: 1989, Stop: 2318, Start Num: 8

Candidate Starts for RedFox_3:

(2, 1854), (3, 1860), (4, 1902), (5, 1920), (Start: 8 @1989 has 2 MA's), (Start: 12 @2010 has 13 MA's), (13, 2016), (16, 2028), (21, 2046), (34, 2130), (37, 2148), (38, 2151), (40, 2184),

Gene: TaylorSipht_4 Start: 2373, Stop: 2693, Start Num: 12

Candidate Starts for TaylorSipht_4:

(2, 2217), (3, 2223), (5, 2283), (Start: 12 @2373 has 13 MA's), (14, 2382), (17, 2391), (19, 2397), (25, 2418), (27, 2424), (30, 2436), (35, 2508), (38, 2526), (40, 2559), (45, 2652), (46, 2655),