

Pham 194222



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 194222 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194222 has 32 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Abidatro_4
- Track 2 : TaylorSipht_4
- Track 3 : Orcanus_4
- Track 4 : Galaxy_4
- Track 5 : Eesa_4
- Track 6 : Amelia_5, Cote_5, Lunar_5, Melons_5, Bedetta_5, Jerole_5
- Track 7 : Kuleana_4
- Track 8 : Daob_5, Kepler_4, Polka_4, Colusalem_4, Coral_4
- Track 9 : HannahPhantana_5
- Track 10 : LittleTokyo_4
- Track 11 : Andrew_4
- Track 12 : PhluffyCoco_3, KHumphrey_3, Camara_3
- Track 13 : RedFox_3, Juno112_3
- Track 14 : BrayBeast_3, Sarge_3
- Track 15 : EvenBluerMoon_4, Aoka_4
- Track 16 : JanetJ_4
- Track 17 : Maja_3
- Track 18 : CocoCinnamon_6

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 15 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abidatro_4, Amelia_5, Bedetta_5, Camara_3, Colusalem_4, Coral_4, Cote_5, Daob_5, Eesa_4, Galaxy_4, HannahPhantana_5, Jerole_5, 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, Juno112_3, Kuleana_4, RedFox_3,

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

- Aoka_4, BrayBeast_3, CocoCinnamon_6, EvenBluerMoon_4, JanetJ_4, LittleTokyo_4, Maja_3, Sarge_3,

Summary by start number:

Start 8:

- Found in 6 of 32 (18.8%) of genes in pham
- Manual Annotations of this start: 3 of 25
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Andrew_4 (AS3), Juno112_3 (AS3), RedFox_3 (AS3),

Start 9:

- Found in 1 of 32 (3.1%) of genes in pham
- Manual Annotations of this start: 1 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kuleana_4 (AS2),

Start 11:

- Found in 1 of 32 (3.1%) of genes in pham
- Manual Annotations of this start: 1 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LittleTokyo_4 (AS2),

Start 12:

- Found in 24 of 32 (75.0%) of genes in pham
- Manual Annotations of this start: 15 of 25
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Abidatro_4 (AS1), Amelia_5 (AS2), Bedetta_5 (AS2), Camara_3 (AS3), Colusalem_4 (AS2), Coral_4 (AS2), Cote_5 (AS2), Daob_5 (AS2), Eesa_4 (AS1), Galaxy_4 (AS1), HannahPhantana_5 (AS2), Jerole_5 (AS2), KHumphrey_3 (AS3), Kepler_4 (AS2), Lunar_5 (AS2), Melons_5 (AS2), Orcanus_4 (AS1), PhluffyCoco_3 (AS3), Polka_4 (AS2), TaylorSipht_4 (AS1),

Start 23:

- Found in 1 of 32 (3.1%) of genes in pham
- Manual Annotations of this start: 1 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JanetJ_4 (FO),

Start 26:

- Found in 2 of 32 (6.2%) of genes in pham
- Manual Annotations of this start: 2 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BrayBeast_3 (FB), Sarge_3 (FB),

Start 28:

- Found in 4 of 32 (12.5%) of genes in pham
- Manual Annotations of this start: 2 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aoka_4 (FO), CocoCinnamon_6 (FO), EvenBluerMoon_4 (FO), Maja_3 (FO),

Summary by clusters:

There are 5 clusters represented in this pham: AS3, AS2, FB, AS1, FO,

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 9 times for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 8 was manually annotated 3 times for cluster AS3.
- Start number 12 was manually annotated 1 time for cluster AS3.

Info for manual annotations of cluster FB:

- Start number 26 was manually annotated 2 times for cluster FB.

Info for manual annotations of cluster FO:

- Start number 23 was manually annotated 1 time for cluster FO.
- Start number 28 was manually annotated 2 times for cluster FO.

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 15 MA's), (15, 2370), (43, 2508), (45, 2541), (52, 2637),

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

Candidate Starts for Amelia_5:

(Start: 12 @2509 has 15 MA's), (14, 2521), (16, 2527), (17, 2530), (20, 2539), (21, 2545), (22, 2548), (24, 2557), (25, 2563), (27, 2569), (38, 2671), (42, 2692), (44, 2719), (45, 2728), (48, 2752), (50, 2773), (52, 2824),

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

Candidate Starts for Andrew_4:

(Start: 8 @2360 has 3 MA's), (Start: 12 @2381 has 15 MA's), (13, 2387), (16, 2399), (21, 2417), (39, 2501), (40, 2504), (42, 2519), (43, 2522), (45, 2555), (49, 2582), (50, 2600), (51, 2648),

Gene: Aoka_4 Start: 2853, Stop: 3122, Start Num: 28

Candidate Starts for Aoka_4:

(Start: 28 @2853 has 2 MA's), (36, 2889), (43, 2955),

Gene: Bedetta_5 Start: 2509, Stop: 2862, Start Num: 12

Candidate Starts for Bedetta_5:

(Start: 12 @2509 has 15 MA's), (14, 2521), (16, 2527), (17, 2530), (20, 2539), (21, 2545), (22, 2548), (24, 2557), (25, 2563), (27, 2569), (38, 2671), (42, 2692), (44, 2719), (45, 2728), (48, 2752), (50, 2773), (52, 2824),

Gene: BrayBeast_3 Start: 1772, Stop: 2044, Start Num: 26

Candidate Starts for BrayBeast_3:

(Start: 26 @1772 has 2 MA's), (37, 1838), (39, 1856), (41, 1871), (43, 1877), (45, 1910), (53, 2036),

Gene: Camara_3 Start: 2011, Stop: 2319, Start Num: 12

Candidate Starts for Camara_3:

(2, 1855), (3, 1861), (4, 1903), (5, 1921), (Start: 8 @1990 has 3 MA's), (Start: 12 @2011 has 15 MA's), (13, 2017), (16, 2029), (21, 2047), (39, 2131), (42, 2149), (43, 2152), (45, 2185),

Gene: CocoCinnamon_6 Start: 2894, Stop: 3178, Start Num: 28

Candidate Starts for CocoCinnamon_6:

(Start: 28 @2894 has 2 MA's), (35, 2939), (39, 2990), (43, 3011), (47, 3050), (51, 3137),

Gene: Colusalem_4 Start: 2345, Stop: 2698, Start Num: 12

Candidate Starts for Colusalem_4:

(Start: 12 @2345 has 15 MA's), (14, 2357), (16, 2363), (17, 2366), (20, 2375), (21, 2381), (22, 2384), (24, 2393), (25, 2399), (27, 2405), (30, 2414), (38, 2507), (42, 2528), (44, 2555), (45, 2564), (48, 2588), (51, 2657), (52, 2660),

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

Candidate Starts for Coral_4:

(Start: 12 @2345 has 15 MA's), (14, 2357), (16, 2363), (17, 2366), (20, 2375), (21, 2381), (22, 2384), (24, 2393), (25, 2399), (27, 2405), (30, 2414), (38, 2507), (42, 2528), (44, 2555), (45, 2564), (48, 2588), (51, 2657), (52, 2660),

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

Candidate Starts for Cote_5:

(Start: 12 @2509 has 15 MA's), (14, 2521), (16, 2527), (17, 2530), (20, 2539), (21, 2545), (22, 2548), (24, 2557), (25, 2563), (27, 2569), (38, 2671), (42, 2692), (44, 2719), (45, 2728), (48, 2752), (50, 2773), (52, 2824),

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

Candidate Starts for Daob_5:

(Start: 12 @2509 has 15 MA's), (14, 2521), (16, 2527), (17, 2530), (20, 2539), (21, 2545), (22, 2548), (24, 2557), (25, 2563), (27, 2569), (30, 2578), (38, 2671), (42, 2692), (44, 2719), (45, 2728), (48, 2752), (51, 2821), (52, 2824),

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

Candidate Starts for Eesa_4:

(10, 2550), (Start: 12 @2556 has 15 MA's), (22, 2592), (38, 2685), (41, 2703), (42, 2706), (45, 2742), (51, 2835), (52, 2838),

Gene: EvenBluerMoon_4 Start: 2851, Stop: 3120, Start Num: 28

Candidate Starts for EvenBluerMoon_4:

(Start: 28 @2851 has 2 MA's), (36, 2887), (43, 2953),

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

Candidate Starts for Galaxy_4:

(6, 2292), (7, 2310), (Start: 12 @2358 has 15 MA's), (15, 2370), (43, 2517), (52, 2646),

Gene: HannahPhantana_5 Start: 2509, Stop: 2862, Start Num: 12

Candidate Starts for HannahPhantana_5:

(Start: 12 @2509 has 15 MA's), (14, 2521), (16, 2527), (17, 2530), (20, 2539), (21, 2545), (22, 2548), (24, 2557), (25, 2563), (27, 2569), (38, 2671), (42, 2692), (44, 2719), (45, 2728), (48, 2752), (51, 2821), (52, 2824),

Gene: JanetJ_4 Start: 2612, Stop: 2899, Start Num: 23

Candidate Starts for JanetJ_4:

(Start: 23 @2612 has 1 MA's), (43, 2735),

Gene: Jerole_5 Start: 2509, Stop: 2862, Start Num: 12

Candidate Starts for Jerole_5:

(Start: 12 @2509 has 15 MA's), (14, 2521), (16, 2527), (17, 2530), (20, 2539), (21, 2545), (22, 2548), (24, 2557), (25, 2563), (27, 2569), (38, 2671), (42, 2692), (44, 2719), (45, 2728), (48, 2752), (50, 2773), (52, 2824),

Gene: Juno112_3 Start: 1989, Stop: 2318, Start Num: 8

Candidate Starts for Juno112_3:

(2, 1854), (3, 1860), (4, 1902), (5, 1920), (Start: 8 @1989 has 3 MA's), (Start: 12 @2010 has 15 MA's), (13, 2016), (16, 2028), (21, 2046), (39, 2130), (42, 2148), (43, 2151), (45, 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 3 MA's), (Start: 12 @2010 has 15 MA's), (13, 2016), (16, 2028), (21, 2046), (39, 2130), (42, 2148), (43, 2151), (45, 2184),

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

Candidate Starts for Kepler_4:

(Start: 12 @2344 has 15 MA's), (14, 2356), (16, 2362), (17, 2365), (20, 2374), (21, 2380), (22, 2383), (24, 2392), (25, 2398), (27, 2404), (30, 2413), (38, 2506), (42, 2527), (44, 2554), (45, 2563), (48, 2587), (51, 2656), (52, 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 15 MA's), (14, 2366), (18, 2378), (21, 2390), (42, 2501), (48, 2561), (50, 2582), (52, 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), (29, 2389), (33, 2413), (39, 2461), (41, 2476), (42, 2479), (43, 2482), (45, 2515), (46, 2518), (49, 2542),

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

Candidate Starts for Lunar_5:

(Start: 12 @2509 has 15 MA's), (14, 2521), (16, 2527), (17, 2530), (20, 2539), (21, 2545), (22, 2548), (24, 2557), (25, 2563), (27, 2569), (38, 2671), (42, 2692), (44, 2719), (45, 2728), (48, 2752), (50, 2773), (52, 2824),

Gene: Maja_3 Start: 2197, Stop: 2469, Start Num: 28

Candidate Starts for Maja_3:

(Start: 28 @2197 has 2 MA's), (32, 2224), (39, 2281), (43, 2302), (51, 2428),

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

Candidate Starts for Melons_5:

(Start: 12 @2509 has 15 MA's), (14, 2521), (16, 2527), (17, 2530), (20, 2539), (21, 2545), (22, 2548), (24, 2557), (25, 2563), (27, 2569), (38, 2671), (42, 2692), (44, 2719), (45, 2728), (48, 2752), (50, 2773), (52, 2824),

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

Candidate Starts for Orcanus_4:

(10, 2343), (Start: 12 @2349 has 15 MA's), (22, 2385), (34, 2442), (38, 2478), (39, 2481), (41, 2496), (42, 2499), (43, 2502), (45, 2535), (48, 2559), (51, 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 3 MA's), (Start: 12 @2010 has 15 MA's), (13, 2016), (16, 2028), (21, 2046), (39, 2130), (42, 2148), (43, 2151), (45, 2184),

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

Candidate Starts for Polka_4:

(Start: 12 @2345 has 15 MA's), (14, 2357), (16, 2363), (17, 2366), (20, 2375), (21, 2381), (22, 2384), (24, 2393), (25, 2399), (27, 2405), (30, 2414), (38, 2507), (42, 2528), (44, 2555), (45, 2564), (48, 2588), (51, 2657), (52, 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 3 MA's), (Start: 12 @2010 has 15 MA's), (13, 2016), (16, 2028), (21, 2046), (39, 2130), (42, 2148), (43, 2151), (45, 2184),

Gene: Sarge_3 Start: 1772, Stop: 2044, Start Num: 26

Candidate Starts for Sarge_3:

(Start: 26 @1772 has 2 MA's), (37, 1838), (39, 1856), (41, 1871), (43, 1877), (45, 1910), (53, 2036),

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 15 MA's), (14, 2382), (17, 2391), (19, 2397), (24, 2418), (25, 2424), (31, 2436), (40, 2508), (43, 2526), (45, 2559), (51, 2652), (52, 2655),