Zoomed Pham 348276



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 348276 Report

This analysis was run 11/14/26 on database version 672.

Pham number 348276 has 9 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Wheelbite_4
• Track 2 : Waltz_4
• Track 3 : ApoKipo_4
• Track 4 : Shrooms_4
• Track 5 : Laroye_4
• Track 6 : Kovu_4
• Track 7 : Edmundo_3
• Track 8 : LiSara_4
• Track 9 : Salgado_4

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

The start number called the most often in the published annotations is 1, it was called in 9 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ApoKipo_4, Edmundo_3, Kovu_4, Laroye_4, LiSara_4, Salgado_4, Shrooms_4, Waltz_4, Wheelbite_4,

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

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

Summary by start number:

Start 1:
• Found in 9 of 9 (100.0%) of genes in pham
• Manual Annotations of this start: 9 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ApoKipo_4 (AL), Edmundo_3 (AL), Kovu_4 (AL), Laroye_4 (AL), LiSara_4 (AL), Salgado_4 (AL), Shrooms_4 (AL), Waltz_4 (AL), Wheelbite_4 (AL),

Summary by clusters:

There is one cluster represented in this pham: AL

Info for manual annotations of cluster AL:
•Start number 1 was manually annotated 9 times for cluster AL.

Gene Information:

Gene: ApoKipo_4 Start: 1790, Stop: 3145, Start Num: 1
Candidate Starts for ApoKipo_4:
(Start: 1 @1790 has 9 MA's), (4, 1841), (5, 1844), (8, 1889), (12, 1961), (17, 2006), (18, 2027), (20, 2057), (27, 2114), (28, 2117), (30, 2153), (35, 2186), (36, 2201), (39, 2240), (44, 2324), (45, 2333), (52, 2444), (54, 2474), (55, 2579), (56, 2606), (59, 2687), (60, 2696), (62, 2735), (64, 2753), (65, 2765), (67, 2774), (70, 2810), (72, 2822), (73, 2825), (74, 2834), (76, 2858), (80, 2930), (86, 3026),

Gene: Edmundo_3 Start: 1698, Stop: 3419, Start Num: 1
Candidate Starts for Edmundo_3:
(Start: 1 @1698 has 9 MA's), (3, 1743), (10, 1845), (13, 1902), (16, 1923), (22, 1992), (23, 1998), (24, 2007), (26, 2034), (31, 2091), (41, 2295), (42, 2316), (46, 2403), (48, 2451), (49, 2472), (53, 2505), (55, 2625), (64, 2814), (66, 2832), (75, 2898), (78, 2982), (79, 2994), (82, 3024), (83, 3081), (84, 3084), (85, 3090), (87, 3138), (92, 3228), (96, 3267), (98, 3291), (99, 3381),

Gene: Kovu_4 Start: 2007, Stop: 3386, Start Num: 1
Candidate Starts for Kovu_4:
(Start: 1 @2007 has 9 MA's), (8, 2109), (12, 2181), (17, 2226), (27, 2334), (29, 2364), (30, 2373), (35, 2406), (36, 2421), (52, 2670), (54, 2700), (55, 2802), (56, 2829), (65, 2988), (67, 2997), (76, 3081), (85, 3243),

Gene: Laroye_4 Start: 1712, Stop: 3193, Start Num: 1
Candidate Starts for Laroye_4:
(Start: 1 @1712 has 9 MA's), (3, 1757), (10, 1859), (13, 1913), (19, 1967), (22, 2000), (23, 2006), (30, 2087), (32, 2108), (37, 2147), (41, 2207), (43, 2228), (46, 2318), (48, 2366), (51, 2408), (53, 2420), (55, 2540), (75, 2813), (78, 2897), (82, 2939), (83, 2996), (84, 2999), (85, 3005), (91, 3110), (92, 3140),

Gene: LiSara_4 Start: 1712, Stop: 3226, Start Num: 1
Candidate Starts for LiSara_4:
(Start: 1 @1712 has 9 MA's), (3, 1757), (6, 1784), (10, 1859), (19, 1967), (22, 2000), (23, 2006), (30, 2087), (32, 2108), (40, 2207), (41, 2252), (43, 2273), (46, 2351), (47, 2387), (48, 2399), (75, 2846), (77, 2876), (78, 2930), (82, 2972), (83, 3029), (84, 3032), (85, 3038), (91, 3143), (92, 3173),

Gene: Salgado_4 Start: 1712, Stop: 3202, Start Num: 1
Candidate Starts for Salgado_4:
(Start: 1 @1712 has 9 MA's), (3, 1757), (10, 1859), (19, 1967), (22, 2000), (23, 2006), (30, 2087), (32, 2108), (41, 2207), (43, 2228), (46, 2318), (48, 2366), (51, 2408), (53, 2420), (55, 2540), (75, 2813), (78, 2897), (82, 2939), (83, 2996), (84, 2999), (85, 3005), (90, 3116), (91, 3119), (92, 3149),

Gene: Shrooms_4 Start: 1712, Stop: 3259, Start Num: 1
Candidate Starts for Shrooms_4:

(Start: 1 @1712 has 9 MA's), (9, 1850), (11, 1874), (13, 1916), (14, 1922), (33, 2111), (34, 2114), (38, 2171), (46, 2339), (47, 2375), (49, 2408), (53, 2441), (58, 2669), (61, 2708), (63, 2735), (68, 2801), (69, 2807), (71, 2822), (76, 2864), (78, 2927), (81, 2948), (82, 2969), (83, 3026), (84, 3029), (85, 3035), (87, 3083), (88, 3119), (92, 3179), (97, 3236),

Gene: Waltz_4 Start: 1700, Stop: 3346, Start Num: 1
Candidate Starts for Waltz_4:
(Start: 1 @1700 has 9 MA's), (2, 1712), (5, 1763), (9, 1838), (15, 1916), (19, 1958), (21, 1982), (38, 2144), (46, 2312), (47, 2348), (50, 2381), (57, 2612), (58, 2621), (61, 2660), (63, 2687), (68, 2753), (69, 2759), (71, 2774), (76, 2816), (78, 2879), (84, 2981), (85, 2987), (87, 3035), (88, 3071), (91, 3101), (93, 3146), (94, 3152), (95, 3176), (100, 3320), (101, 3323),

Gene: Wheelbite_4 Start: 1710, Stop: 3296, Start Num: 1
Candidate Starts for Wheelbite_4:
(Start: 1 @1710 has 9 MA's), (3, 1755), (7, 1797), (10, 1857), (13, 1914), (16, 1935), (22, 2004), (23, 2010), (24, 2019), (25, 2034), (26, 2046), (41, 2310), (42, 2331), (46, 2418), (48, 2466), (49, 2487), (53, 2520), (55, 2640), (66, 2847), (75, 2913), (78, 2997), (82, 3039), (83, 3096), (84, 3099), (85, 3105), (87, 3153), (89, 3210), (92, 3243),