Pham 345950


1: CurlyFries_116
2: RegnumDei_114
3: Shagrat_114
4: Wolfstar_123 + 1
5: Roman_122 + 1
6: Hubbs_120 + 1
7: PhillyPhilly_117 + 3
8: Jacko_7 + 1
9: Lupine_116 + 1
10: Alleb_7 + 1
11: Saradis_6 + 1
12: Pavlo_118 + 3
13: OlinDD_117 + 5
14: Solimine_5
15: Platte_6 + 2

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 345950 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 345950 has 35 members, 3 are drafts.

Phages represented in each track:
• Track 1 : CurlyFries_116
• Track 2 : RegnumDei_114
• Track 3 : Shagrat_114
• Track 4 : Wolfstar_123, Wolfstar_7
• Track 5 : Roman_122, Roman_6
• Track 6 : Hubbs_120, Hubbs_6
• Track 7 : PhillyPhilly_117, DejaVu_6, PhillyPhilly_7, DejaVu_122
• Track 8 : Jacko_7, Jacko_116
• Track 9 : Lupine_116, Lupine_6
• Track 10 : Alleb_7, Alleb_115
• Track 11 : Saradis_6, Saradis_124
• Track 12 : Pavlo_118, Uterion_6, Pavlo_6, Uterion_122
• Track 13 : OlinDD_117, Hortus1_117, Pioneer3_6, Pioneer3_117, OlinDD_6, Hortus1_6
• Track 14 : Solimine_5
• Track 15 : Platte_6, Tandem_6, Tandem_117

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

The start number called the most often in the published annotations is 6, it was called in 14 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• DejaVu_122, DejaVu_6, Hubbs_120, Hubbs_6, Lupine_116, Lupine_6, Pavlo_118, Pavlo_6, PhillyPhilly_117, PhillyPhilly_7, Roman_122, Roman_6, Saradis_124, Saradis_6, Solimine_5, Uterion_122, Uterion_6,

Genes that have the "Most Annotated" start but do not call it:
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Genes that do not have the "Most Annotated" start:
• Alleb_115, Alleb_7, CurlyFries_116, Hortus1_117, Hortus1_6, Jacko_116, Jacko_7, OlinDD_117, OlinDD_6, Pioneer3_117, Pioneer3_6, Platte_6, RegnumDei_114, Shagrat_114, Tandem_117, Tandem_6, Wolfstar_123, Wolfstar_7,

Summary by start number:

Start 3:
• Found in 3 of 35 (8.6%) of genes in pham
• Manual Annotations of this start: 3 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CurlyFries_116 (CF), RegnumDei_114 (CF), Shagrat_114 (CF),

Start 5:
• Found in 2 of 35 (5.7%) of genes in pham
• Manual Annotations of this start: 2 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jacko_116 (ED1), Jacko_7 (ED1),

Start 6:
• Found in 17 of 35 (48.6%) of genes in pham
• Manual Annotations of this start: 14 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DejaVu_122 (ED1), DejaVu_6 (ED1), Hubbs_120 (ED1), Hubbs_6 (ED1), Lupine_116 (ED1), Lupine_6 (ED1), Pavlo_118 (ED1), Pavlo_6 (ED1), PhillyPhilly_117 (ED1), PhillyPhilly_7 (ED1), Roman_122 (ED1), Roman_6 (ED1), Saradis_124 (ED1), Saradis_6 (ED1), Solimine_5 (ED1), Uterion_122 (ED1), Uterion_6 (ED1),

Start 7:
• Found in 13 of 35 (37.1%) of genes in pham
• Manual Annotations of this start: 13 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alleb_115 (ED1), Alleb_7 (ED1), Hortus1_117 (ED1), Hortus1_6 (ED1), OlinDD_117 (ED1), OlinDD_6 (ED1), Pioneer3_117 (ED1), Pioneer3_6 (ED1), Platte_6 (ED1), Tandem_117 (ED1), Tandem_6 (ED1), Wolfstar_123 (ED), Wolfstar_7 (ED),

Summary by clusters:

There are 3 clusters represented in this pham: ED, ED1, CF,

Info for manual annotations of cluster CF:
•Start number 3 was manually annotated 3 times for cluster CF.

Info for manual annotations of cluster ED:
•Start number 7 was manually annotated 2 times for cluster ED.

Info for manual annotations of cluster ED1:
•Start number 5 was manually annotated 2 times for cluster ED1.
•Start number 6 was manually annotated 14 times for cluster ED1.
•Start number 7 was manually annotated 11 times for cluster ED1.

Gene Information:

Gene: Alleb_7 Start: 2777, Stop: 2382, Start Num: 7
Candidate Starts for Alleb_7:
(Start: 7 @2777 has 13 MA's), (10, 2726), (13, 2678), (14, 2666), (15, 2663), (16, 2654), (19, 2630), (20, 2624), (22, 2612), (23, 2609), (24, 2597), (25, 2588), (28, 2561), (30, 2546), (31, 2525), (33, 2495), (38, 2465), (40, 2453), (42, 2414),

Gene: Alleb_115 Start: 62256, Stop: 61861, Start Num: 7
Candidate Starts for Alleb_115:
(Start: 7 @62256 has 13 MA's), (10, 62205), (13, 62157), (14, 62145), (15, 62142), (16, 62133), (19, 62109), (20, 62103), (22, 62091), (23, 62088), (24, 62076), (25, 62067), (28, 62040), (30, 62025), (31, 62004), (33, 61974), (38, 61944), (40, 61932), (42, 61893),

Gene: CurlyFries_116 Start: 61161, Stop: 60703, Start Num: 3
Candidate Starts for CurlyFries_116:
(Start: 3 @61161 has 3 MA's), (11, 61059), (27, 60933), (32, 60876),

Gene: DejaVu_6 Start: 2530, Stop: 2129, Start Num: 6
Candidate Starts for DejaVu_6:
(1, 2611), (Start: 6 @2530 has 14 MA's), (15, 2416), (17, 2404), (25, 2341), (28, 2314), (44, 2140),

Gene: DejaVu_122 Start: 62910, Stop: 62509, Start Num: 6
Candidate Starts for DejaVu_122:
(1, 62991), (Start: 6 @62910 has 14 MA's), (15, 62796), (17, 62784), (25, 62721), (28, 62694), (44, 62520),

Gene: Hortus1_117 Start: 62690, Stop: 62289, Start Num: 7
Candidate Starts for Hortus1_117:
(Start: 7 @62690 has 13 MA's), (10, 62639), (15, 62576), (17, 62564), (24, 62510), (25, 62501), (26, 62498), (31, 62432), (37, 62381),

Gene: Hortus1_6 Start: 2730, Stop: 2329, Start Num: 7
Candidate Starts for Hortus1_6:
(Start: 7 @2730 has 13 MA's), (10, 2679), (15, 2616), (17, 2604), (24, 2550), (25, 2541), (26, 2538), (31, 2472), (37, 2421),

Gene: Hubbs_120 Start: 63433, Stop: 63023, Start Num: 6
Candidate Starts for Hubbs_120:
(1, 63514), (Start: 6 @63433 has 14 MA's), (15, 63319), (17, 63307), (25, 63244), (28, 63217), (37, 63124), (44, 63034),

Gene: Hubbs_6 Start: 3034, Stop: 2624, Start Num: 6
Candidate Starts for Hubbs_6:
(1, 3115), (Start: 6 @3034 has 14 MA's), (15, 2920), (17, 2908), (25, 2845), (28, 2818), (37, 2725), (44, 2635),

Gene: Jacko_7 Start: 2600, Stop: 2214, Start Num: 5
Candidate Starts for Jacko_7:

(Start: 5 @2600 has 2 MA's), (10, 2546), (15, 2483), (18, 2459), (25, 2408), (31, 2345), (37, 2294), (39, 2279), (40, 2273), (41, 2234), (43, 2225),

Gene: Jacko_116 Start: 60993, Stop: 60607, Start Num: 5
Candidate Starts for Jacko_116:
(Start: 5 @60993 has 2 MA's), (10, 60939), (15, 60876), (18, 60852), (25, 60801), (31, 60738), (37, 60687), (39, 60672), (40, 60666), (41, 60627), (43, 60618),

Gene: Lupine_116 Start: 62104, Stop: 61703, Start Num: 6
Candidate Starts for Lupine_116:
(1, 62185), (Start: 6 @62104 has 14 MA's), (15, 61990), (17, 61978), (25, 61915), (28, 61888), (44, 61714),

Gene: Lupine_6 Start: 2831, Stop: 2430, Start Num: 6
Candidate Starts for Lupine_6:
(1, 2912), (Start: 6 @2831 has 14 MA's), (15, 2717), (17, 2705), (25, 2642), (28, 2615), (44, 2441),

Gene: OlinDD_117 Start: 62695, Stop: 62294, Start Num: 7
Candidate Starts for OlinDD_117:
(Start: 7 @62695 has 13 MA's), (10, 62644), (15, 62581), (17, 62569), (24, 62515), (25, 62506), (26, 62503), (31, 62437), (37, 62386),

Gene: OlinDD_6 Start: 2730, Stop: 2329, Start Num: 7
Candidate Starts for OlinDD_6:
(Start: 7 @2730 has 13 MA's), (10, 2679), (15, 2616), (17, 2604), (24, 2550), (25, 2541), (26, 2538), (31, 2472), (37, 2421),

Gene: Pavlo_118 Start: 63181, Stop: 62771, Start Num: 6
Candidate Starts for Pavlo_118:
(1, 63262), (Start: 6 @63181 has 14 MA's), (15, 63067), (17, 63055), (25, 62992), (28, 62965), (37, 62872), (44, 62782),

Gene: Pavlo_6 Start: 2925, Stop: 2515, Start Num: 6
Candidate Starts for Pavlo_6:
(1, 3006), (Start: 6 @2925 has 14 MA's), (15, 2811), (17, 2799), (25, 2736), (28, 2709), (37, 2616), (44, 2526),

Gene: PhillyPhilly_117 Start: 62440, Stop: 62039, Start Num: 6
Candidate Starts for PhillyPhilly_117:
(1, 62521), (Start: 6 @62440 has 14 MA's), (15, 62326), (17, 62314), (25, 62251), (28, 62224), (44, 62050),

Gene: PhillyPhilly_7 Start: 2951, Stop: 2550, Start Num: 6
Candidate Starts for PhillyPhilly_7:
(1, 3032), (Start: 6 @2951 has 14 MA's), (15, 2837), (17, 2825), (25, 2762), (28, 2735), (44, 2561),

Gene: Pioneer3_6 Start: 2763, Stop: 2362, Start Num: 7
Candidate Starts for Pioneer3_6:
(Start: 7 @2763 has 13 MA's), (10, 2712), (15, 2649), (17, 2637), (24, 2583), (25, 2574), (26, 2571), (31, 2505), (37, 2454),

Gene: Pioneer3_117 Start: 62526, Stop: 62125, Start Num: 7
Candidate Starts for Pioneer3_117:

(Start: 7 @62526 has 13 MA's), (10, 62475), (15, 62412), (17, 62400), (24, 62346), (25, 62337), (26, 62334), (31, 62268), (37, 62217),

Gene: Platte_6 Start: 2752, Stop: 2351, Start Num: 7
Candidate Starts for Platte_6:
(Start: 7 @2752 has 13 MA's), (10, 2701), (15, 2638), (17, 2626), (24, 2572), (25, 2563), (26, 2560), (29, 2521), (31, 2494), (34, 2461), (35, 2455), (40, 2422), (42, 2383),

Gene: RegnumDei_114 Start: 63598, Stop: 63143, Start Num: 3
Candidate Starts for RegnumDei_114:
(2, 63643), (Start: 3 @63598 has 3 MA's), (27, 63373), (32, 63316),

Gene: Roman_122 Start: 63830, Stop: 63420, Start Num: 6
Candidate Starts for Roman_122:
(1, 63911), (Start: 6 @63830 has 14 MA's), (15, 63716), (17, 63704), (25, 63641), (28, 63614), (37, 63521),

Gene: Roman_6 Start: 2743, Stop: 2333, Start Num: 6
Candidate Starts for Roman_6:
(1, 2824), (Start: 6 @2743 has 14 MA's), (15, 2629), (17, 2617), (25, 2554), (28, 2527), (37, 2434),

Gene: Saradis_6 Start: 2798, Stop: 2382, Start Num: 6
Candidate Starts for Saradis_6:
(1, 2879), (Start: 6 @2798 has 14 MA's), (9, 2780), (15, 2684), (16, 2675), (21, 2639), (28, 2588), (36, 2498), (37, 2495), (38, 2486),

Gene: Saradis_124 Start: 63175, Stop: 62759, Start Num: 6
Candidate Starts for Saradis_124:
(1, 63256), (Start: 6 @63175 has 14 MA's), (9, 63157), (15, 63061), (16, 63052), (21, 63016), (28, 62965), (36, 62875), (37, 62872), (38, 62863),

Gene: Shagrat_114 Start: 61481, Stop: 61029, Start Num: 3
Candidate Starts for Shagrat_114:
(Start: 3 @61481 has 3 MA's), (4, 61478), (27, 61259), (32, 61202),

Gene: Solimine_5 Start: 2539, Stop: 2129, Start Num: 6
Candidate Starts for Solimine_5:
(1, 2620), (Start: 6 @2539 has 14 MA's), (15, 2425), (17, 2413), (24, 2359), (25, 2350), (28, 2323), (37, 2230),

Gene: Tandem_6 Start: 2857, Stop: 2456, Start Num: 7
Candidate Starts for Tandem_6:
(Start: 7 @2857 has 13 MA's), (10, 2806), (15, 2743), (17, 2731), (24, 2677), (25, 2668), (26, 2665), (29, 2626), (31, 2599), (34, 2566), (35, 2560), (40, 2527), (42, 2488),

Gene: Tandem_117 Start: 62700, Stop: 62299, Start Num: 7
Candidate Starts for Tandem_117:
(Start: 7 @62700 has 13 MA's), (10, 62649), (15, 62586), (17, 62574), (24, 62520), (25, 62511), (26, 62508), (29, 62469), (31, 62442), (34, 62409), (35, 62403), (40, 62370), (42, 62331),

Gene: Uterion_6 Start: 3063, Stop: 2653, Start Num: 6
Candidate Starts for Uterion_6:

(1, 3144), (Start: 6 @3063 has 14 MA's), (15, 2949), (17, 2937), (25, 2874), (28, 2847), (37, 2754), (44, 2664),

Gene: Uterion_122 Start: 63154, Stop: 62744, Start Num: 6
Candidate Starts for Uterion_122:
(1, 63235), (Start: 6 @63154 has 14 MA's), (15, 63040), (17, 63028), (25, 62965), (28, 62938), (37, 62845), (44, 62755),

Gene: Wolfstar_123 Start: 64463, Stop: 64086, Start Num: 7
Candidate Starts for Wolfstar_123:
(Start: 7 @64463 has 13 MA's), (8, 64454), (12, 64376), (15, 64349), (18, 64328), (19, 64319), (21, 64307), (24, 64286), (25, 64277), (34, 64181), (35, 64175), (37, 64163),

Gene: Wolfstar_7 Start: 3322, Stop: 2945, Start Num: 7
Candidate Starts for Wolfstar_7:
(Start: 7 @3322 has 13 MA's), (8, 3313), (12, 3235), (15, 3208), (18, 3187), (19, 3178), (21, 3166), (24, 3145), (25, 3136), (34, 3040), (35, 3034), (37, 3022),