Pham 4340

1: Lyell_123 + 3
2: Welcome_8
3: Fork_117 + 1
4: Necrophoxinus_124
5: DustyDino_8 + 3
6: Yuma_121 + 1
7: StevieWelch_8 + 1
8: ASegato_8 + 1
9: Welcome_125
10: Necrophoxinus_8
11: Musetta_121 + 1

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 4340 Report

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

Pham number 4340 has 22 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Lyell_123, Erenyeager_5, Lyell_8, Erenyeager_120
• Track 2 : Welcome_8
• Track 3 : Fork_117, Fork_5
• Track 4 : Necrophoxinus_124
• Track 5 : DustyDino_8, DustyDino_126, RunningBrook_8, RunningBrook_126
• Track 6 : Yuma_121, Yuma_8
• Track 7 : StevieWelch_8, StevieWelch_126
• Track 8 : ASegato_8, ASegato_122
• Track 9 : Welcome_125
• Track 10 : Necrophoxinus_8
• Track 11 : Musetta_121, Musetta_8

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

The start number called the most often in the published annotations is 4, it was called in 12 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ASegato_122, ASegato_8, DustyDino_126, DustyDino_8, Fork_117, Fork_5, Musetta_121, Musetta_8, Necrophoxinus_8, RunningBrook_126, RunningBrook_8, Welcome_8, Yuma_121, Yuma_8,

Genes that have the "Most Annotated" start but do not call it:
• Necrophoxinus_124, Welcome_125,

Genes that do not have the "Most Annotated" start:
• Erenyeager_120, Erenyeager_5, Lyell_123, Lyell_8, StevieWelch_126, StevieWelch_8,

Summary by start number:

Start 1:
• Found in 8 of 22 (36.4%) of genes in pham
• Manual Annotations of this start: 2 of 18

• Called 25.0% of time when present
• Phage (with cluster) where this start called: Necrophoxinus_124 (ED2), Welcome_125 (ED2),

Start 2:
• Found in 6 of 22 (27.3%) of genes in pham
• Manual Annotations of this start: 4 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Erenyeager_120 (ED2), Erenyeager_5 (ED2), Lyell_123 (ED2), Lyell_8 (ED2), StevieWelch_126 (ED2), StevieWelch_8 (ED2),

Start 4:
• Found in 16 of 22 (72.7%) of genes in pham
• Manual Annotations of this start: 12 of 18
• Called 87.5% of time when present
• Phage (with cluster) where this start called: ASegato_122 (ED2), ASegato_8 (ED2), DustyDino_126 (ED2), DustyDino_8 (ED2), Fork_117 (ED2), Fork_5 (ED2), Musetta_121 (ED2), Musetta_8 (ED2), Necrophoxinus_8 (ED2), RunningBrook_126 (ED2), RunningBrook_8 (ED2), Welcome_8 (ED2), Yuma_121 (ED2), Yuma_8 (ED2),

Summary by clusters:

There is one cluster represented in this pham: ED2

Info for manual annotations of cluster ED2:
•Start number 1 was manually annotated 2 times for cluster ED2.
•Start number 2 was manually annotated 4 times for cluster ED2.
•Start number 4 was manually annotated 12 times for cluster ED2.

Gene Information:

Gene: ASegato_8 Start: 3031, Stop: 2684, Start Num: 4
Candidate Starts for ASegato_8:
(Start: 1 @3073 has 2 MA's), (Start: 4 @3031 has 12 MA's), (6, 2980), (7, 2962), (8, 2956), (11, 2908), (16, 2779),

Gene: ASegato_122 Start: 62480, Stop: 62133, Start Num: 4
Candidate Starts for ASegato_122:
(Start: 1 @62522 has 2 MA's), (Start: 4 @62480 has 12 MA's), (6, 62429), (7, 62411), (8, 62405), (11, 62357), (16, 62228),

Gene: DustyDino_8 Start: 3067, Stop: 2720, Start Num: 4
Candidate Starts for DustyDino_8:
(Start: 4 @3067 has 12 MA's), (6, 3019), (7, 3001), (9, 2986), (14, 2896),

Gene: DustyDino_126 Start: 63157, Stop: 62810, Start Num: 4
Candidate Starts for DustyDino_126:
(Start: 4 @63157 has 12 MA's), (6, 63109), (7, 63091), (9, 63076), (14, 62986),

Gene: Erenyeager_5 Start: 2445, Stop: 2068, Start Num: 2

Candidate Starts for Erenyeager_5:
(Start: 2 @2445 has 4 MA's), (3, 2421), (5, 2385), (6, 2364), (7, 2346), (8, 2340), (11, 2292), (16, 2163),

Gene: Erenyeager_120 Start: 62106, Stop: 61729, Start Num: 2
Candidate Starts for Erenyeager_120:
(Start: 2 @62106 has 4 MA's), (3, 62082), (5, 62046), (6, 62025), (7, 62007), (8, 62001), (11, 61953), (16, 61824),

Gene: Fork_117 Start: 61324, Stop: 60980, Start Num: 4
Candidate Starts for Fork_117:
(Start: 4 @61324 has 12 MA's), (6, 61276), (9, 61243), (10, 61207), (12, 61165), (13, 61159), (17, 61033),

Gene: Fork_5 Start: 2333, Stop: 1989, Start Num: 4
Candidate Starts for Fork_5:
(Start: 4 @2333 has 12 MA's), (6, 2285), (9, 2252), (10, 2216), (12, 2174), (13, 2168), (17, 2042),

Gene: Lyell_123 Start: 61949, Stop: 61572, Start Num: 2
Candidate Starts for Lyell_123:
(Start: 2 @61949 has 4 MA's), (3, 61925), (5, 61889), (6, 61868), (7, 61850), (8, 61844), (11, 61796), (16, 61667),

Gene: Lyell_8 Start: 2782, Stop: 2405, Start Num: 2
Candidate Starts for Lyell_8:
(Start: 2 @2782 has 4 MA's), (3, 2758), (5, 2722), (6, 2701), (7, 2683), (8, 2677), (11, 2629), (16, 2500),

Gene: Musetta_121 Start: 62838, Stop: 62491, Start Num: 4
Candidate Starts for Musetta_121:
(Start: 4 @62838 has 12 MA's), (6, 62790), (7, 62772), (9, 62757), (10, 62721), (12, 62679), (13, 62673), (15, 62589),

Gene: Musetta_8 Start: 3043, Stop: 2696, Start Num: 4
Candidate Starts for Musetta_8:
(Start: 4 @3043 has 12 MA's), (6, 2995), (7, 2977), (9, 2962), (10, 2926), (12, 2884), (13, 2878), (15, 2794),

Gene: Necrophoxinus_124 Start: 63143, Stop: 62751, Start Num: 1
Candidate Starts for Necrophoxinus_124:
(Start: 1 @63143 has 2 MA's), (Start: 4 @63101 has 12 MA's), (6, 63050), (7, 63032), (9, 63017), (14, 62927),

Gene: Necrophoxinus_8 Start: 2858, Stop: 2508, Start Num: 4
Candidate Starts for Necrophoxinus_8:
(Start: 1 @2900 has 2 MA's), (Start: 4 @2858 has 12 MA's), (6, 2807), (7, 2789), (9, 2774), (14, 2684),

Gene: RunningBrook_8 Start: 3067, Stop: 2720, Start Num: 4
Candidate Starts for RunningBrook_8:
(Start: 4 @3067 has 12 MA's), (6, 3019), (7, 3001), (9, 2986), (14, 2896),

Gene: RunningBrook_126 Start: 63157, Stop: 62810, Start Num: 4
Candidate Starts for RunningBrook_126:

(Start: 4 @63157 has 12 MA's), (6, 63109), (7, 63091), (9, 63076), (14, 62986),

Gene: StevieWelch_8 Start: 2958, Stop: 2581, Start Num: 2
Candidate Starts for StevieWelch_8:
(Start: 2 @2958 has 4 MA's), (3, 2934), (5, 2898), (6, 2877), (7, 2859), (8, 2853), (11, 2805), (15, 2679),

Gene: StevieWelch_126 Start: 63204, Stop: 62827, Start Num: 2
Candidate Starts for StevieWelch_126:
(Start: 2 @63204 has 4 MA's), (3, 63180), (5, 63144), (6, 63123), (7, 63105), (8, 63099), (11, 63051), (15, 62925),

Gene: Welcome_8 Start: 3042, Stop: 2695, Start Num: 4
Candidate Starts for Welcome_8:
(Start: 1 @3084 has 2 MA's), (Start: 4 @3042 has 12 MA's), (6, 2991), (7, 2973), (8, 2967), (11, 2919), (15, 2793),

Gene: Welcome_125 Start: 63228, Stop: 62839, Start Num: 1
Candidate Starts for Welcome_125:
(Start: 1 @63228 has 2 MA's), (Start: 4 @63186 has 12 MA's), (6, 63135), (7, 63117), (8, 63111), (11, 63063), (15, 62937),

Gene: Yuma_121 Start: 61992, Stop: 61642, Start Num: 4
Candidate Starts for Yuma_121:
(Start: 1 @62034 has 2 MA's), (Start: 4 @61992 has 12 MA's), (6, 61941), (7, 61923), (9, 61908), (10, 61872), (12, 61830), (13, 61824), (15, 61740),

Gene: Yuma_8 Start: 2941, Stop: 2591, Start Num: 4
Candidate Starts for Yuma_8:
(Start: 1 @2983 has 2 MA's), (Start: 4 @2941 has 12 MA's), (6, 2890), (7, 2872), (9, 2857), (10, 2821), (12, 2779), (13, 2773), (15, 2689),