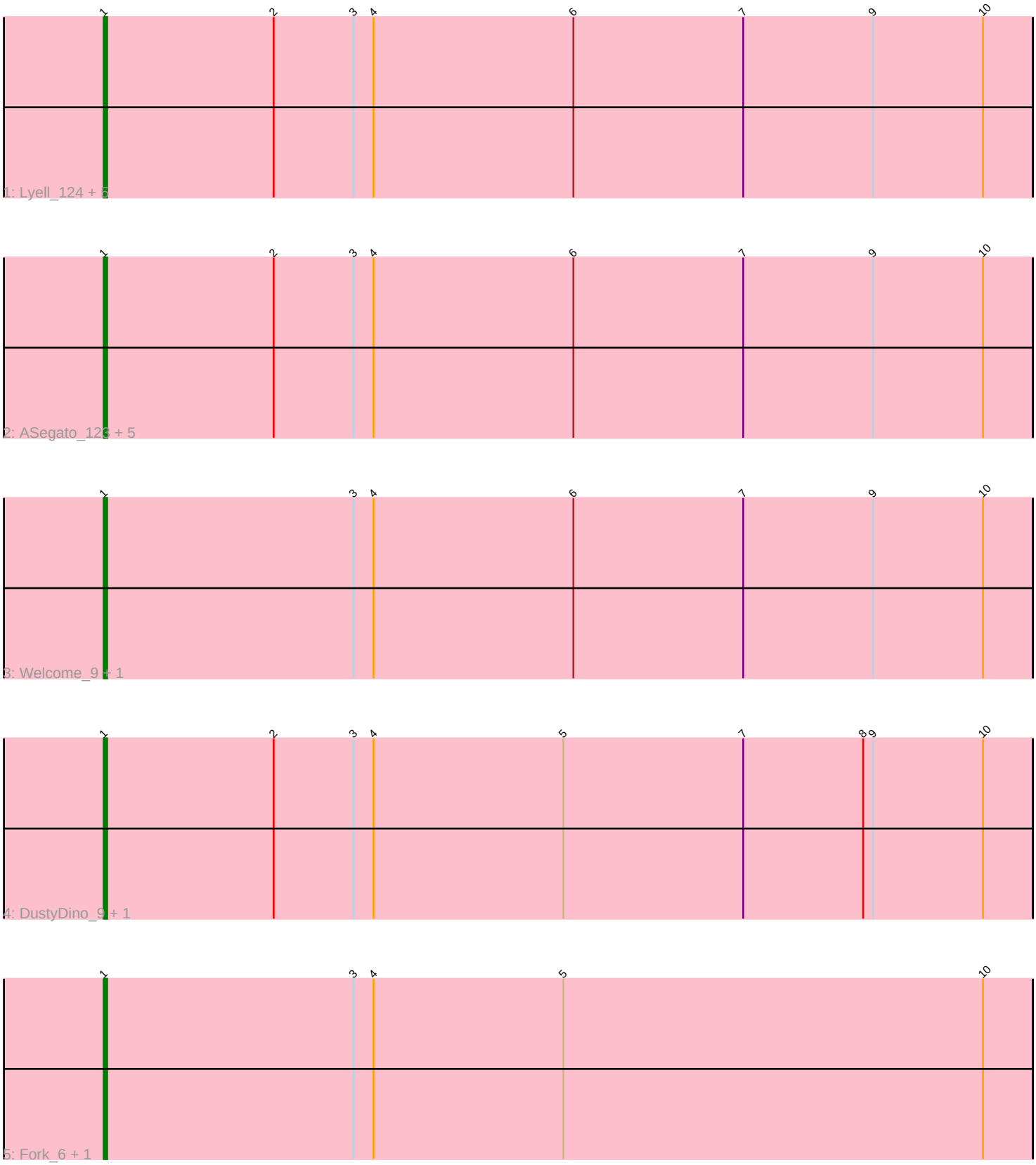
Pham 4744


1 2 3 4 6 7 9 10
1: Lyell_124 + 5
1 2 3 4 6 7 9 10
2: ASegato_123 + 5
1 3 4 6 7 9 10
3: Welcome_9 + 1
1 2 3 4 5 7 8 9 10
4: DustyDino_9 + 1
1 3 4 5 10
5: Fork_6 + 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 4744 Report

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

Pham number 4744 has 18 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Lyell_124, StevieWelch_9, Musetta_9, Lyell_9, StevieWelch_127, Musetta_122
• Track 2 : ASegato_123, Erenyeager_121, ASegato_9, Erenyeager_6, Yuma_9, Yuma_122
• Track 3 : Welcome_9, Welcome_126
• Track 4 : DustyDino_9, DustyDino_127
• Track 5 : Fork_6, Fork_118

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 16 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ASegato_123, ASegato_9, DustyDino_127, DustyDino_9, Erenyeager_121, Erenyeager_6, Fork_118, Fork_6, Lyell_124, Lyell_9, Musetta_122, Musetta_9, StevieWelch_127, StevieWelch_9, Welcome_126, Welcome_9, Yuma_122, Yuma_9,

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 18 of 18 (100.0%) of genes in pham
• Manual Annotations of this start: 16 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ASegato_123 (ED2), ASegato_9 (ED2), DustyDino_127 (ED2), DustyDino_9 (ED2), Erenyeager_121 (ED2), Erenyeager_6 (ED2), Fork_118 (ED2), Fork_6 (ED2), Lyell_124 (ED2), Lyell_9 (ED2), Musetta_122 (ED2), Musetta_9 (ED2), StevieWelch_127 (ED2), StevieWelch_9 (ED2),

Welcome_126 (ED2), Welcome_9 (ED2), Yuma_122 (ED2), Yuma_9 (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 16 times for cluster ED2.

Gene Information:

Gene: ASegato_123 Start: 62823, Stop: 62545, Start Num: 1
Candidate Starts for ASegato_123:
(Start: 1 @62823 has 16 MA's), (2, 62772), (3, 62748), (4, 62742), (6, 62682), (7, 62631), (9, 62592), (10, 62559),

Gene: ASegato_9 Start: 3374, Stop: 3096, Start Num: 1
Candidate Starts for ASegato_9:
(Start: 1 @3374 has 16 MA's), (2, 3323), (3, 3299), (4, 3293), (6, 3233), (7, 3182), (9, 3143), (10, 3110),

Gene: DustyDino_9 Start: 3412, Stop: 3134, Start Num: 1
Candidate Starts for DustyDino_9:
(Start: 1 @3412 has 16 MA's), (2, 3361), (3, 3337), (4, 3331), (5, 3274), (7, 3220), (8, 3184), (9, 3181), (10, 3148),

Gene: DustyDino_127 Start: 63502, Stop: 63224, Start Num: 1
Candidate Starts for DustyDino_127:
(Start: 1 @63502 has 16 MA's), (2, 63451), (3, 63427), (4, 63421), (5, 63364), (7, 63310), (8, 63274), (9, 63271), (10, 63238),

Gene: Erenyeager_121 Start: 62451, Stop: 62173, Start Num: 1
Candidate Starts for Erenyeager_121:
(Start: 1 @62451 has 16 MA's), (2, 62400), (3, 62376), (4, 62370), (6, 62310), (7, 62259), (9, 62220), (10, 62187),

Gene: Erenyeager_6 Start: 2790, Stop: 2512, Start Num: 1
Candidate Starts for Erenyeager_6:
(Start: 1 @2790 has 16 MA's), (2, 2739), (3, 2715), (4, 2709), (6, 2649), (7, 2598), (9, 2559), (10, 2526),

Gene: Fork_6 Start: 2678, Stop: 2400, Start Num: 1
Candidate Starts for Fork_6:
(Start: 1 @2678 has 16 MA's), (3, 2603), (4, 2597), (5, 2540), (10, 2414),

Gene: Fork_118 Start: 61669, Stop: 61391, Start Num: 1
Candidate Starts for Fork_118:
(Start: 1 @61669 has 16 MA's), (3, 61594), (4, 61588), (5, 61531), (10, 61405),

Gene: Lyell_124 Start: 62294, Stop: 62016, Start Num: 1
Candidate Starts for Lyell_124:

(Start: 1 @62294 has 16 MA's), (2, 62243), (3, 62219), (4, 62213), (6, 62153), (7, 62102), (9, 62063), (10, 62030),

Gene: Lyell_9 Start: 3127, Stop: 2849, Start Num: 1
Candidate Starts for Lyell_9:
(Start: 1 @3127 has 16 MA's), (2, 3076), (3, 3052), (4, 3046), (6, 2986), (7, 2935), (9, 2896), (10, 2863),

Gene: Musetta_9 Start: 3388, Stop: 3110, Start Num: 1
Candidate Starts for Musetta_9:
(Start: 1 @3388 has 16 MA's), (2, 3337), (3, 3313), (4, 3307), (6, 3247), (7, 3196), (9, 3157), (10, 3124),

Gene: Musetta_122 Start: 63183, Stop: 62905, Start Num: 1
Candidate Starts for Musetta_122:
(Start: 1 @63183 has 16 MA's), (2, 63132), (3, 63108), (4, 63102), (6, 63042), (7, 62991), (9, 62952), (10, 62919),

Gene: StevieWelch_9 Start: 3303, Stop: 3025, Start Num: 1
Candidate Starts for StevieWelch_9:
(Start: 1 @3303 has 16 MA's), (2, 3252), (3, 3228), (4, 3222), (6, 3162), (7, 3111), (9, 3072), (10, 3039),

Gene: StevieWelch_127 Start: 63549, Stop: 63271, Start Num: 1
Candidate Starts for StevieWelch_127:
(Start: 1 @63549 has 16 MA's), (2, 63498), (3, 63474), (4, 63468), (6, 63408), (7, 63357), (9, 63318), (10, 63285),

Gene: Welcome_9 Start: 3385, Stop: 3107, Start Num: 1
Candidate Starts for Welcome_9:
(Start: 1 @3385 has 16 MA's), (3, 3310), (4, 3304), (6, 3244), (7, 3193), (9, 3154), (10, 3121),

Gene: Welcome_126 Start: 63529, Stop: 63251, Start Num: 1
Candidate Starts for Welcome_126:
(Start: 1 @63529 has 16 MA's), (3, 63454), (4, 63448), (6, 63388), (7, 63337), (9, 63298), (10, 63265),

Gene: Yuma_9 Start: 3284, Stop: 3006, Start Num: 1
Candidate Starts for Yuma_9:
(Start: 1 @3284 has 16 MA's), (2, 3233), (3, 3209), (4, 3203), (6, 3143), (7, 3092), (9, 3053), (10, 3020),

Gene: Yuma_122 Start: 62335, Stop: 62057, Start Num: 1
Candidate Starts for Yuma_122:
(Start: 1 @62335 has 16 MA's), (2, 62284), (3, 62260), (4, 62254), (6, 62194), (7, 62143), (9, 62104), (10, 62071),