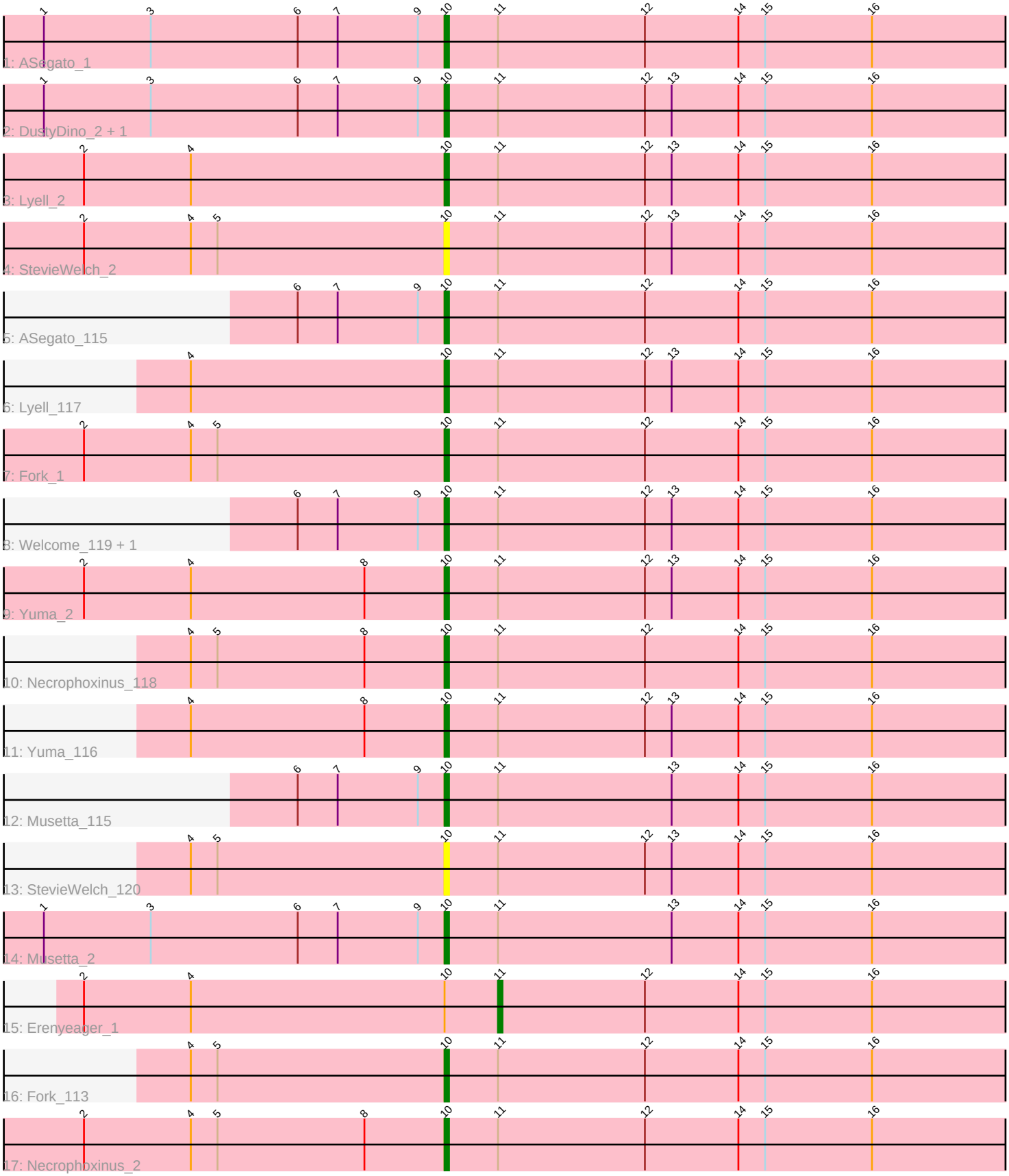
Pham 86717


1: ASegato_1
2: DustyDino_2 + 1
3: Lyell_2
4: StevieWelch_2
5: ASegato_115
6: Lyell_117
7: Fork_1
8: Welcome_119 + 1
9: Yuma_2
10: Necrophoxinus_118
11: Yuma_116
12: Musetta_115
13: StevieWelch_120
14: Musetta_2
15: Erenyeager_1
16: Fork_113
17: Necrophoxinus_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 86717 Report

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

Pham number 86717 has 19 members, 2 are drafts.

Phages represented in each track:
• Track 1 : ASegato_1
• Track 2 : DustyDino_2, Welcome_2
• Track 3 : Lyell_2
• Track 4 : StevieWelch_2
• Track 5 : ASegato_115
• Track 6 : Lyell_117
• Track 7 : Fork_1
• Track 8 : Welcome_119, DustyDino_120
• Track 9 : Yuma_2
• Track 10 : Necrophoxinus_118
• Track 11 : Yuma_116
• Track 12 : Musetta_115
• Track 13 : StevieWelch_120
• Track 14 : Musetta_2
• Track 15 : Erenyeager_1
• Track 16 : Fork_113
• Track 17 : Necrophoxinus_2

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

The start number called the most often in the published annotations is 10, it was called in 16 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ASegato_1, ASegato_115, DustyDino_120, DustyDino_2, Fork_1, Fork_113, Lyell_117, Lyell_2, Musetta_115, Musetta_2, Necrophoxinus_118, Necrophoxinus_2, StevieWelch_120, StevieWelch_2, Welcome_119, Welcome_2, Yuma_116, Yuma_2,

Genes that have the "Most Annotated" start but do not call it:
• Erenyeager_1,

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

Summary by start number:

Start 10:
• Found in 19 of 19 (100.0%) of genes in pham
• Manual Annotations of this start: 16 of 17
• Called 94.7% of time when present
• Phage (with cluster) where this start called: ASegato_1 (ED2), ASegato_115 (ED2), DustyDino_120 (ED2), DustyDino_2 (ED2), Fork_1 (ED2), Fork_113 (ED2), Lyell_117 (ED2), Lyell_2 (ED2), Musetta_115 (ED2), Musetta_2 (ED2), Necrophoxinus_118 (ED2), Necrophoxinus_2 (ED2), StevieWelch_120 (ED2), StevieWelch_2 (ED2), Welcome_119 (ED2), Welcome_2 (ED2), Yuma_116 (ED2), Yuma_2 (ED2),

Start 11:
• Found in 19 of 19 (100.0%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 5.3% of time when present
• Phage (with cluster) where this start called: Erenyeager_1 (ED2),

Summary by clusters:

There is one cluster represented in this pham: ED2

Info for manual annotations of cluster ED2:
•Start number 10 was manually annotated 16 times for cluster ED2.
•Start number 11 was manually annotated 1 time for cluster ED2.

Gene Information:

Gene: ASegato_1 Start: 525, Stop: 367, Start Num: 10
Candidate Starts for ASegato_1:
(1, 615), (3, 591), (6, 558), (7, 549), (9, 531), (Start: 10 @525 has 16 MA's), (Start: 11 @513 has 1 MA's), (12, 480), (14, 459), (15, 453), (16, 429),

Gene: ASegato_115 Start: 59974, Stop: 59816, Start Num: 10
Candidate Starts for ASegato_115:
(6, 60007), (7, 59998), (9, 59980), (Start: 10 @59974 has 16 MA's), (Start: 11 @59962 has 1 MA's), (12, 59929), (14, 59908), (15, 59902), (16, 59878),

Gene: DustyDino_2 Start: 528, Stop: 370, Start Num: 10
Candidate Starts for DustyDino_2:
(1, 618), (3, 594), (6, 561), (7, 552), (9, 534), (Start: 10 @528 has 16 MA's), (Start: 11 @516 has 1 MA's), (12, 483), (13, 477), (14, 462), (15, 456), (16, 432),

Gene: DustyDino_120 Start: 60618, Stop: 60460, Start Num: 10
Candidate Starts for DustyDino_120:
(6, 60651), (7, 60642), (9, 60624), (Start: 10 @60618 has 16 MA's), (Start: 11 @60606 has 1 MA's), (12, 60573), (13, 60567), (14, 60552), (15, 60546), (16, 60522),

Gene: Erenyeager_1 Start: 514, Stop: 368, Start Num: 11
Candidate Starts for Erenyeager_1:

(2, 607), (4, 583), (Start: 10 @526 has 16 MA's), (Start: 11 @514 has 1 MA's), (12, 481), (14, 460), (15, 454), (16, 430),

Gene: Fork_1 Start: 534, Stop: 376, Start Num: 10
Candidate Starts for Fork_1:
(2, 615), (4, 591), (5, 585), (Start: 10 @534 has 16 MA's), (Start: 11 @522 has 1 MA's), (12, 489), (14, 468), (15, 462), (16, 438),

Gene: Fork_113 Start: 59525, Stop: 59367, Start Num: 10
Candidate Starts for Fork_113:
(4, 59582), (5, 59576), (Start: 10 @59525 has 16 MA's), (Start: 11 @59513 has 1 MA's), (12, 59480), (14, 59459), (15, 59453), (16, 59429),

Gene: Lyell_2 Start: 526, Stop: 368, Start Num: 10
Candidate Starts for Lyell_2:
(2, 607), (4, 583), (Start: 10 @526 has 16 MA's), (Start: 11 @514 has 1 MA's), (12, 481), (13, 475), (14, 460), (15, 454), (16, 430),

Gene: Lyell_117 Start: 59693, Stop: 59535, Start Num: 10
Candidate Starts for Lyell_117:
(4, 59750), (Start: 10 @59693 has 16 MA's), (Start: 11 @59681 has 1 MA's), (12, 59648), (13, 59642), (14, 59627), (15, 59621), (16, 59597),

Gene: Musetta_115 Start: 60321, Stop: 60163, Start Num: 10
Candidate Starts for Musetta_115:
(6, 60354), (7, 60345), (9, 60327), (Start: 10 @60321 has 16 MA's), (Start: 11 @60309 has 1 MA's), (13, 60270), (14, 60255), (15, 60249), (16, 60225),

Gene: Musetta_2 Start: 526, Stop: 368, Start Num: 10
Candidate Starts for Musetta_2:
(1, 616), (3, 592), (6, 559), (7, 550), (9, 532), (Start: 10 @526 has 16 MA's), (Start: 11 @514 has 1 MA's), (13, 475), (14, 460), (15, 454), (16, 430),

Gene: Necrophoxinus_118 Start: 60772, Stop: 60614, Start Num: 10
Candidate Starts for Necrophoxinus_118:
(4, 60829), (5, 60823), (8, 60790), (Start: 10 @60772 has 16 MA's), (Start: 11 @60760 has 1 MA's), (12, 60727), (14, 60706), (15, 60700), (16, 60676),

Gene: Necrophoxinus_2 Start: 529, Stop: 371, Start Num: 10
Candidate Starts for Necrophoxinus_2:
(2, 610), (4, 586), (5, 580), (8, 547), (Start: 10 @529 has 16 MA's), (Start: 11 @517 has 1 MA's), (12, 484), (14, 463), (15, 457), (16, 433),

Gene: StevieWelch_2 Start: 521, Stop: 363, Start Num: 10
Candidate Starts for StevieWelch_2:
(2, 602), (4, 578), (5, 572), (Start: 10 @521 has 16 MA's), (Start: 11 @509 has 1 MA's), (12, 476), (13, 470), (14, 455), (15, 449), (16, 425),

Gene: StevieWelch_120 Start: 60767, Stop: 60609, Start Num: 10
Candidate Starts for StevieWelch_120:
(4, 60824), (5, 60818), (Start: 10 @60767 has 16 MA's), (Start: 11 @60755 has 1 MA's), (12, 60722), (13, 60716), (14, 60701), (15, 60695), (16, 60671),

Gene: Welcome_119 Start: 60670, Stop: 60512, Start Num: 10
Candidate Starts for Welcome_119:
(6, 60703), (7, 60694), (9, 60676), (Start: 10 @60670 has 16 MA's), (Start: 11 @60658 has 1 MA's), (12, 60625), (13, 60619), (14, 60604), (15, 60598), (16, 60574),

Gene: Welcome_2 Start: 526, Stop: 368, Start Num: 10
Candidate Starts for Welcome_2:
(1, 616), (3, 592), (6, 559), (7, 550), (9, 532), (Start: 10 @526 has 16 MA's), (Start: 11 @514 has 1 MA's), (12, 481), (13, 475), (14, 460), (15, 454), (16, 430),

Gene: Yuma_2 Start: 532, Stop: 374, Start Num: 10
Candidate Starts for Yuma_2:
(2, 613), (4, 589), (8, 550), (Start: 10 @532 has 16 MA's), (Start: 11 @520 has 1 MA's), (12, 487), (13, 481), (14, 466), (15, 460), (16, 436),

Gene: Yuma_116 Start: 59583, Stop: 59425, Start Num: 10
Candidate Starts for Yuma_116:
(4, 59640), (8, 59601), (Start: 10 @59583 has 16 MA's), (Start: 11 @59571 has 1 MA's), (12, 59538), (13, 59532), (14, 59517), (15, 59511), (16, 59487),