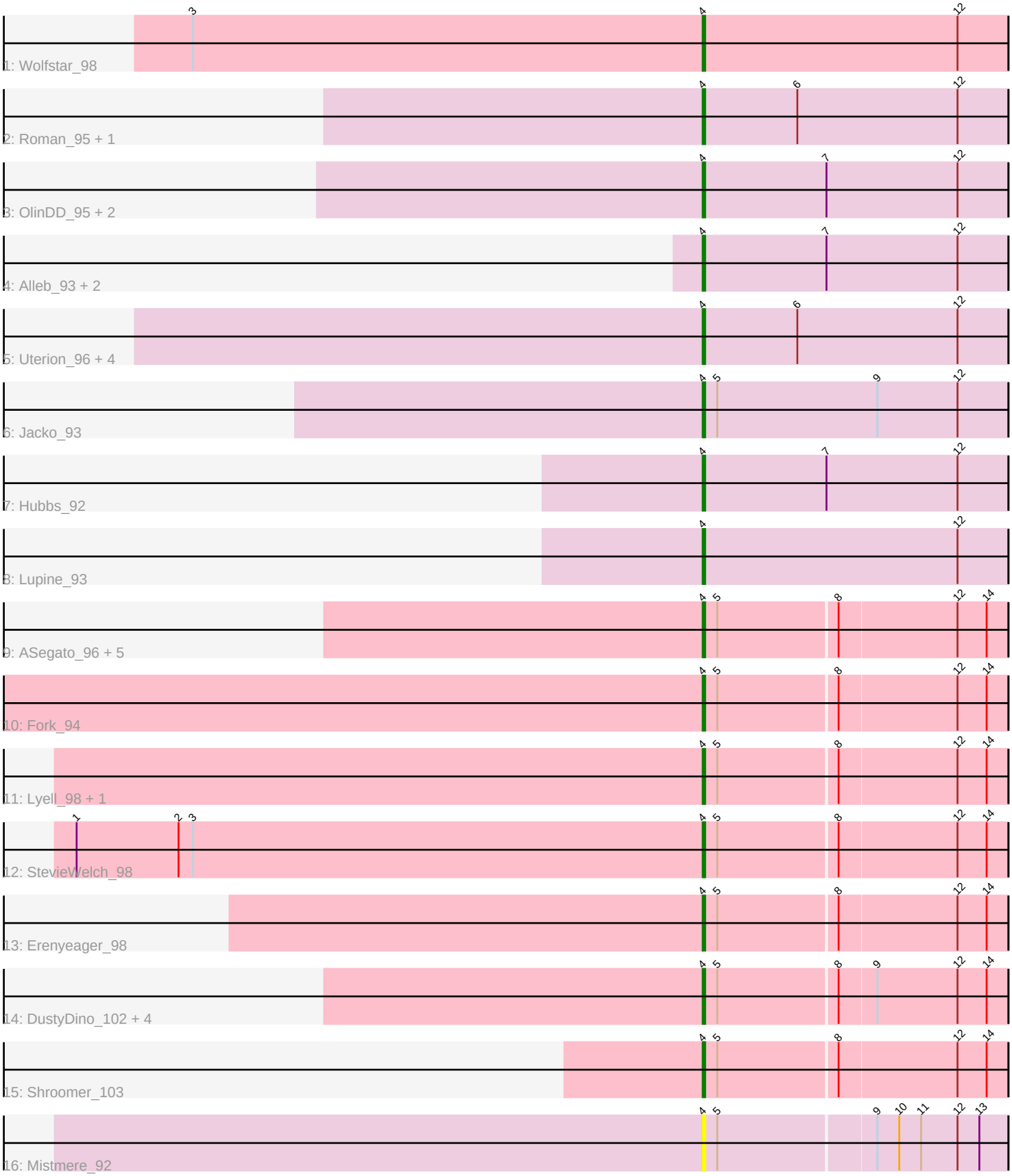
# Pham 347832


3
4
12
1: Wolfstar_98
4
6
12
2: Roman_95 + 1
4
7
12
3: OlinDD_95 + 2
4
7
12
4: Alleb_93 + 2
4
6
12
5: Uterion_96 + 4
4
5
9
12
6: Jacko_93
4
7
12
7: Hubbs_92
4
12
8: Lupine_93
4
5
8
12
14
9: ASegato_96 + 5
4
5
8
12
14
10: Fork_94
4
5
8
12
14
11: Lyell_98 + 1
1
2
3
4
5
8
12
14
12: StevieWelch_98
4
5
8
12
14
13: Erenyeager_98
4
5
8
9
12
14
14: DustyDino_102 + 4
4
5
8
12
14
15: Shroomer_103
4
5
9
10
11
12
13
16: Mistmere_92

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 347832 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 347832 has 35 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Wolfstar_98
• Track 2 : Roman_95, DejaVu_94
• Track 3 : OlinDD_95, Platte_94, Hortus1_95
• Track 4 : Alleb_93, Pioneer3_95, Tandem_95
• Track 5 : Uterion_96, Solimine_95, Pavlo_93, Saradis_95, PhillyPhilly_91
• Track 6 : Jacko_93
• Track 7 : Hubbs_92
• Track 8 : Lupine_93
• Track 9 : ASegato_96, Musetta_97, SteakFry_101, HollowPurple_99, Welcome_100, Issa7_97
• Track 10 : Fork_94
• Track 11 : Lyell_98, Necrophoxinus_100
• Track 12 : StevieWelch_98
• Track 13 : Erenyeager_98
• Track 14 : DustyDino_102, RunningBrook_100, Casablancas_99, Yuma_97, Deschain_99
• Track 15 : Shroomer_103
• Track 16 : Mistmere_92

***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 30 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ASegato_96, Alleb_93, Casablancas_99, DejaVu_94, Deschain_99, DustyDino_102, Erenyeager_98, Fork_94, HollowPurple_99, Hortus1_95, Hubbs_92, Issa7_97, Jacko_93, Lupine_93, Lyell_98, Mistmere_92, Musetta_97, Necrophoxinus_100, OlinDD_95, Pavlo_93, PhillyPhilly_91, Pioneer3_95, Platte_94, Roman_95, RunningBrook_100, Saradis_95, Shroomer_103, Solimine_95,

SteakFry_101, StevieWelch_98, Tandem_95, Uterion_96, Welcome_100, Wolfstar_98, Yuma_97,

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 4:
• Found in 35 of 35 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 30 of 30
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ASegato_96 (ED2), Alleb_93 (ED1), Casablancas_99 (ED2), DejaVu_94 (ED1), Deschain_99 (ED2), DustyDino_102 (ED2), Erenyeager_98 (ED2), Fork_94 (ED2), HollowPurple_99 (ED2), Hortus1_95 (ED1), Hubbs_92 (ED1), Issa7_97 (ED2), Jacko_93 (ED1), Lupine_93 (ED1), Lyell_98 (ED2), Mistmere_92 (ED3), Musetta_97 (ED2), Necrophoxinus_100 (ED2), OlinDD_95 (ED1), Pavlo_93 (ED1), PhillyPhilly_91 (ED1), Pioneer3_95 (ED1), Platte_94 (ED1), Roman_95 (ED1), RunningBrook_100 (ED2), Saradis_95 (ED1), Shroomer_103 (ED2), Solimine_95 (ED1), SteakFry_101 (ED2), StevieWelch_98 (ED2), Tandem_95 (ED1), Uterion_96 (ED1), Welcome_100 (ED2), Wolfstar_98 (ED), Yuma_97 (ED2),

**Summary by clusters:**

There are 4 clusters represented in this pham: ED2, ED3, ED1, ED,

Info for manual annotations of cluster ED:
•Start number 4 was manually annotated 1 time for cluster ED.

Info for manual annotations of cluster ED1:
•Start number 4 was manually annotated 14 times for cluster ED1.

Info for manual annotations of cluster ED2:
•Start number 4 was manually annotated 15 times for cluster ED2.

***Gene Information:***

Gene: ASegato_96 Start: 52634, Stop: 52512, Start Num: 4
Candidate Starts for ASegato_96:
(Start: 4 @52634 has 30 MA's), (5, 52628), (8, 52580), (12, 52532), (14, 52520),

Gene: Alleb_93 Start: 53561, Stop: 53436, Start Num: 4
Candidate Starts for Alleb_93:
(Start: 4 @53561 has 30 MA's), (7, 53510), (12, 53456),

Gene: Casablancas_99 Start: 52553, Stop: 52431, Start Num: 4

Candidate Starts for Casablancas_99:
(Start: 4 @52553 has 30 MA's), (5, 52547), (8, 52499), (9, 52484), (12, 52451), (14, 52439),

Gene: DejaVu_94 Start: 52789, Stop: 52664, Start Num: 4
Candidate Starts for DejaVu_94:
(Start: 4 @52789 has 30 MA's), (6, 52750), (12, 52684),

Gene: Deschain_99 Start: 53217, Stop: 53095, Start Num: 4
Candidate Starts for Deschain_99:
(Start: 4 @53217 has 30 MA's), (5, 53211), (8, 53163), (9, 53148), (12, 53115), (14, 53103),

Gene: DustyDino_102 Start: 53776, Stop: 53654, Start Num: 4
Candidate Starts for DustyDino_102:
(Start: 4 @53776 has 30 MA's), (5, 53770), (8, 53722), (9, 53707), (12, 53674), (14, 53662),

Gene: Erenyeager_98 Start: 52559, Stop: 52437, Start Num: 4
Candidate Starts for Erenyeager_98:
(Start: 4 @52559 has 30 MA's), (5, 52553), (8, 52505), (12, 52457), (14, 52445),

Gene: Fork_94 Start: 52512, Stop: 52390, Start Num: 4
Candidate Starts for Fork_94:
(Start: 4 @52512 has 30 MA's), (5, 52506), (8, 52458), (12, 52410), (14, 52398),

Gene: HollowPurple_99 Start: 53173, Stop: 53051, Start Num: 4
Candidate Starts for HollowPurple_99:
(Start: 4 @53173 has 30 MA's), (5, 53167), (8, 53119), (12, 53071), (14, 53059),

Gene: Hortus1_95 Start: 54136, Stop: 54011, Start Num: 4
Candidate Starts for Hortus1_95:
(Start: 4 @54136 has 30 MA's), (7, 54085), (12, 54031),

Gene: Hubbs_92 Start: 52838, Stop: 52713, Start Num: 4
Candidate Starts for Hubbs_92:
(Start: 4 @52838 has 30 MA's), (7, 52787), (12, 52733),

Gene: Issa7_97 Start: 52527, Stop: 52405, Start Num: 4
Candidate Starts for Issa7_97:
(Start: 4 @52527 has 30 MA's), (5, 52521), (8, 52473), (12, 52425), (14, 52413),

Gene: Jacko_93 Start: 52078, Stop: 51953, Start Num: 4
Candidate Starts for Jacko_93:
(Start: 4 @52078 has 30 MA's), (5, 52072), (9, 52006), (12, 51973),

Gene: Lupine_93 Start: 52848, Stop: 52723, Start Num: 4
Candidate Starts for Lupine_93:
(Start: 4 @52848 has 30 MA's), (12, 52743),

Gene: Lyell_98 Start: 52723, Stop: 52601, Start Num: 4
Candidate Starts for Lyell_98:
(Start: 4 @52723 has 30 MA's), (5, 52717), (8, 52669), (12, 52621), (14, 52609),

Gene: Mistmere_92 Start: 51251, Stop: 51129, Start Num: 4
Candidate Starts for Mistmere_92:

(Start: 4 @51251 has 30 MA's), (5, 51245), (9, 51182), (10, 51173), (11, 51164), (12, 51149), (13, 51140),

Gene: Musetta_97 Start: 53065, Stop: 52943, Start Num: 4
Candidate Starts for Musetta_97:
(Start: 4 @53065 has 30 MA's), (5, 53059), (8, 53011), (12, 52963), (14, 52951),

Gene: Necrophoxinus_100 Start: 53412, Stop: 53290, Start Num: 4
Candidate Starts for Necrophoxinus_100:
(Start: 4 @53412 has 30 MA's), (5, 53406), (8, 53358), (12, 53310), (14, 53298),

Gene: OlinDD_95 Start: 54141, Stop: 54016, Start Num: 4
Candidate Starts for OlinDD_95:
(Start: 4 @54141 has 30 MA's), (7, 54090), (12, 54036),

Gene: Pavlo_93 Start: 52933, Stop: 52808, Start Num: 4
Candidate Starts for Pavlo_93:
(Start: 4 @52933 has 30 MA's), (6, 52894), (12, 52828),

Gene: PhillyPhilly_91 Start: 52398, Stop: 52273, Start Num: 4
Candidate Starts for PhillyPhilly_91:
(Start: 4 @52398 has 30 MA's), (6, 52359), (12, 52293),

Gene: Pioneer3_95 Start: 53939, Stop: 53814, Start Num: 4
Candidate Starts for Pioneer3_95:
(Start: 4 @53939 has 30 MA's), (7, 53888), (12, 53834),

Gene: Platte_94 Start: 53707, Stop: 53582, Start Num: 4
Candidate Starts for Platte_94:
(Start: 4 @53707 has 30 MA's), (7, 53656), (12, 53602),

Gene: Roman_95 Start: 53449, Stop: 53324, Start Num: 4
Candidate Starts for Roman_95:
(Start: 4 @53449 has 30 MA's), (6, 53410), (12, 53344),

Gene: RunningBrook_100 Start: 53776, Stop: 53654, Start Num: 4
Candidate Starts for RunningBrook_100:
(Start: 4 @53776 has 30 MA's), (5, 53770), (8, 53722), (9, 53707), (12, 53674), (14, 53662),

Gene: Saradis_95 Start: 52410, Stop: 52285, Start Num: 4
Candidate Starts for Saradis_95:
(Start: 4 @52410 has 30 MA's), (6, 52371), (12, 52305),

Gene: Shroomer_103 Start: 53013, Stop: 52891, Start Num: 4
Candidate Starts for Shroomer_103:
(Start: 4 @53013 has 30 MA's), (5, 53007), (8, 52959), (12, 52911), (14, 52899),

Gene: Solimine_95 Start: 53306, Stop: 53181, Start Num: 4
Candidate Starts for Solimine_95:
(Start: 4 @53306 has 30 MA's), (6, 53267), (12, 53201),

Gene: SteakFry_101 Start: 53173, Stop: 53051, Start Num: 4
Candidate Starts for SteakFry_101:

(Start: 4 @53173 has 30 MA's), (5, 53167), (8, 53119), (12, 53071), (14, 53059),

Gene: StevieWelch_98 Start: 52696, Stop: 52574, Start Num: 4
Candidate Starts for StevieWelch_98:
(1, 52954), (2, 52912), (3, 52906), (Start: 4 @52696 has 30 MA's), (5, 52690), (8, 52642), (12, 52594), (14, 52582),

Gene: Tandem_95 Start: 54019, Stop: 53894, Start Num: 4
Candidate Starts for Tandem_95:
(Start: 4 @54019 has 30 MA's), (7, 53968), (12, 53914),

Gene: Uterion_96 Start: 52822, Stop: 52697, Start Num: 4
Candidate Starts for Uterion_96:
(Start: 4 @52822 has 30 MA's), (6, 52783), (12, 52717),

Gene: Welcome_100 Start: 53327, Stop: 53205, Start Num: 4
Candidate Starts for Welcome_100:
(Start: 4 @53327 has 30 MA's), (5, 53321), (8, 53273), (12, 53225), (14, 53213),

Gene: Wolfstar_98 Start: 54840, Stop: 54715, Start Num: 4
Candidate Starts for Wolfstar_98:
(3, 55050), (Start: 4 @54840 has 30 MA's), (12, 54735),

Gene: Yuma_97 Start: 52737, Stop: 52615, Start Num: 4
Candidate Starts for Yuma_97:
(Start: 4 @52737 has 30 MA's), (5, 52731), (8, 52683), (9, 52668), (12, 52635), (14, 52623),