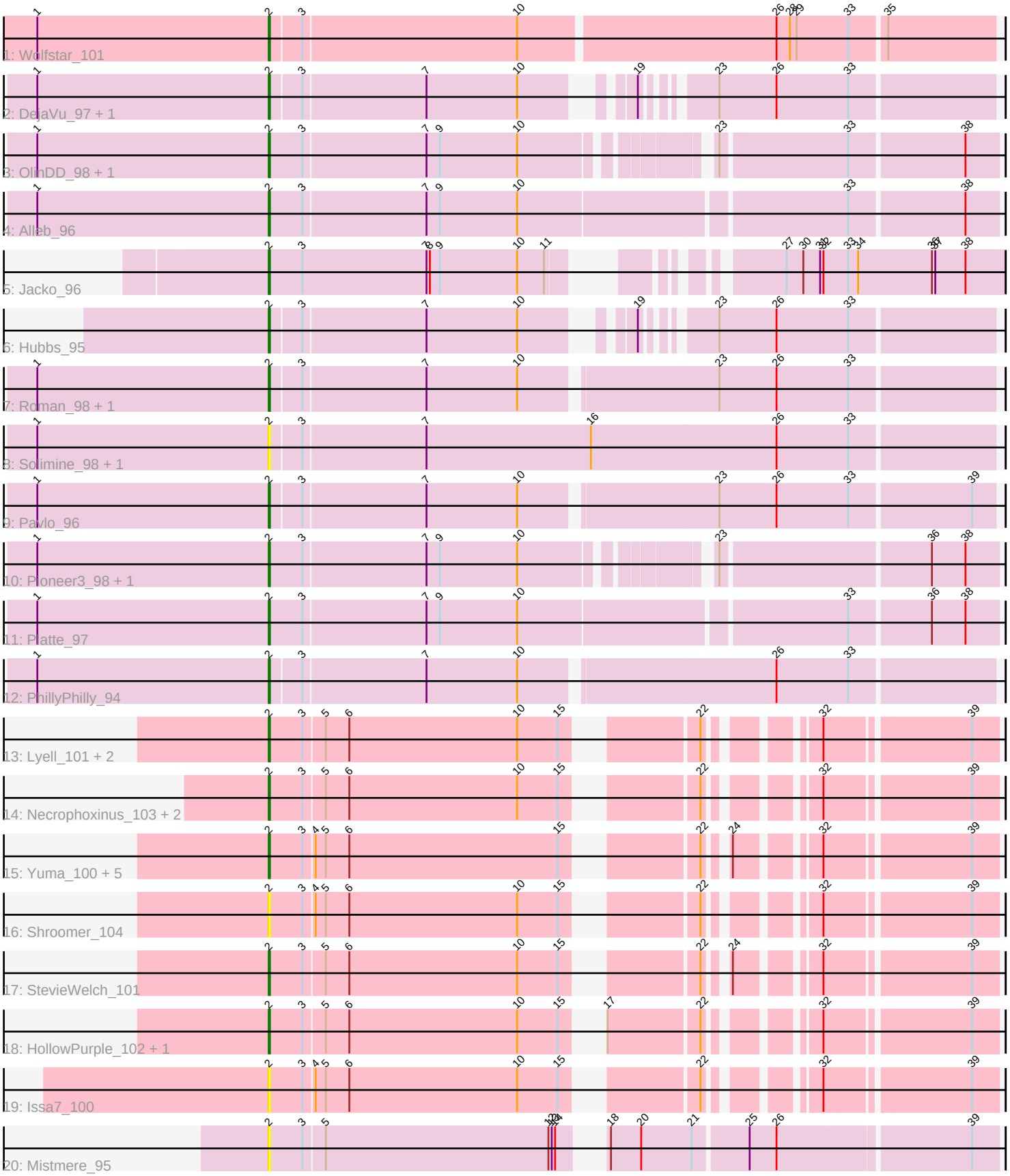
Pham 292987


1: Wolfstar_101
2: DejaVu_97 + 1
3: OlinDD_98 + 1
4: Alleb_96
5: Jacko_96
6: Hubbs_95
7: Roman_98 + 1
8: Solimine_98 + 1
9: Pavlo_96
10: Pioneer3_98 + 1
11: Platte_97
12: PhillyPhilly_94
13: Lyell_101 + 2
14: Necrophoxinus_103 + 2
15: Yuma_100 + 5
16: Shroomer_104
17: StevieWelch_101
18: HollowPurple_102 + 1
19: Issa7_100
20: Mistmere_95

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 292987 Report

This analysis was run 04/18/26 on database version 643.

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 292987 has 35 members, 9 are drafts.

Phages represented in each track:
• Track 1 : Wolfstar_101
• Track 2 : DejaVu_97, Lupine_96
• Track 3 : OlinDD_98, Hortus1_98
• Track 4 : Alleb_96
• Track 5 : Jacko_96
• Track 6 : Hubbs_95
• Track 7 : Roman_98, Saradis_98
• Track 8 : Solimine_98, Uterion_101
• Track 9 : Pavlo_96
• Track 10 : Pioneer3_98, Tandem_98
• Track 11 : Platte_97
• Track 12 : PhillyPhilly_94
• Track 13 : Lyell_101, ASegato_99, Fork_97
• Track 14 : Necrophoxinus_103, Erenyeager_101, Welcome_103
• Track 15 : Yuma_100, Musetta_100, RunningBrook_103, DustyDino_105, Casablancas_102, Deschain_102
• Track 16 : Shroomer_104
• Track 17 : StevieWelch_101
• Track 18 : HollowPurple_102, SteakFry_100
• Track 19 : Issa7_100
• Track 20 : Mistmere_95

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

The start number called the most often in the published annotations is 2, it was called in 26 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ASegato_99, Alleb_96, Casablancas_102, DejaVu_97, Deschain_102, DustyDino_105, Erenyeager_101, Fork_97, HollowPurple_102, Hortus1_98,

Hubbs_95, Issa7_100, Jacko_96, Lupine_96, Lyell_101, Mistmere_95, Musetta_100, Necrophoxinus_103, OlinDD_98, Pavlo_96, PhillyPhilly_94, Pioneer3_98, Platte_97, Roman_98, RunningBrook_103, Saradis_98, Shroomer_104, Solimine_98, SteakFry_100, StevieWelch_101, Tandem_98, Uterion_101, Welcome_103, Wolfstar_101, Yuma_100,

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 2:
• Found in 35 of 35 (100.0%) of genes in pham
• Manual Annotations of this start: 26 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ASegato_99 (ED2), Alleb_96 (ED1), Casablancas_102 (ED2), DejaVu_97 (ED1), Deschain_102 (ED2), DustyDino_105 (ED2), Erenyeager_101 (ED2), Fork_97 (ED2), HollowPurple_102 (ED2), Hortus1_98 (ED1), Hubbs_95 (ED1), Issa7_100 (ED2), Jacko_96 (ED1), Lupine_96 (ED1), Lyell_101 (ED2), Mistmere_95 (ED3), Musetta_100 (ED2), Necrophoxinus_103 (ED2), OlinDD_98 (ED1), Pavlo_96 (ED1), PhillyPhilly_94 (ED1), Pioneer3_98 (ED1), Platte_97 (ED1), Roman_98 (ED1), RunningBrook_103 (ED2), Saradis_98 (ED1), Shroomer_104 (ED2), Solimine_98 (ED1), SteakFry_100 (ED2), StevieWelch_101 (ED2), Tandem_98 (ED1), Uterion_101 (ED1), Welcome_103 (ED2), Wolfstar_101 (ED), Yuma_100 (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 2 was manually annotated 1 time for cluster ED.

Info for manual annotations of cluster ED1:
•Start number 2 was manually annotated 13 times for cluster ED1.

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

Gene Information:

Gene: ASegato_99 Start: 53663, Stop: 53103, Start Num: 2
Candidate Starts for ASegato_99:
(Start: 2 @53663 has 26 MA's), (3, 53633), (5, 53615), (6, 53594), (10, 53444), (15, 53408), (22, 53318), (32, 53246), (39, 53126),

Gene: Alleb_96 Start: 54715, Stop: 54089, Start Num: 2

Candidate Starts for Alleb_96:
(1, 54922), (Start: 2 @54715 has 26 MA's), (3, 54685), (7, 54577), (9, 54565), (10, 54496), (33, 54217), (38, 54118),

Gene: Casablancas_102 Start: 53582, Stop: 53022, Start Num: 2
Candidate Starts for Casablancas_102:
(Start: 2 @53582 has 26 MA's), (3, 53552), (4, 53543), (5, 53534), (6, 53513), (15, 53327), (22, 53237), (24, 53225), (32, 53165), (39, 53045),

Gene: DejaVu_97 Start: 53875, Stop: 53306, Start Num: 2
Candidate Starts for DejaVu_97:
(1, 54082), (Start: 2 @53875 has 26 MA's), (3, 53848), (7, 53740), (10, 53659), (19, 53590), (23, 53545), (26, 53494), (33, 53431),

Gene: Deschain_102 Start: 54246, Stop: 53686, Start Num: 2
Candidate Starts for Deschain_102:
(Start: 2 @54246 has 26 MA's), (3, 54216), (4, 54207), (5, 54198), (6, 54177), (15, 53991), (22, 53901), (24, 53889), (32, 53829), (39, 53709),

Gene: DustyDino_105 Start: 54805, Stop: 54245, Start Num: 2
Candidate Starts for DustyDino_105:
(Start: 2 @54805 has 26 MA's), (3, 54775), (4, 54766), (5, 54757), (6, 54736), (15, 54550), (22, 54460), (24, 54448), (32, 54388), (39, 54268),

Gene: Erenyeager_101 Start: 53588, Stop: 53028, Start Num: 2
Candidate Starts for Erenyeager_101:
(Start: 2 @53588 has 26 MA's), (3, 53558), (5, 53540), (6, 53519), (10, 53369), (15, 53333), (22, 53243), (32, 53171), (39, 53051),

Gene: Fork_97 Start: 53541, Stop: 52981, Start Num: 2
Candidate Starts for Fork_97:
(Start: 2 @53541 has 26 MA's), (3, 53511), (5, 53493), (6, 53472), (10, 53322), (15, 53286), (22, 53196), (32, 53124), (39, 53004),

Gene: HollowPurple_102 Start: 54202, Stop: 53642, Start Num: 2
Candidate Starts for HollowPurple_102:
(Start: 2 @54202 has 26 MA's), (3, 54172), (5, 54154), (6, 54133), (10, 53983), (15, 53947), (17, 53935), (22, 53857), (32, 53785), (39, 53665),

Gene: Hortus1_98 Start: 55260, Stop: 54664, Start Num: 2
Candidate Starts for Hortus1_98:
(1, 55467), (Start: 2 @55260 has 26 MA's), (3, 55230), (7, 55122), (9, 55110), (10, 55041), (23, 54900), (33, 54792), (38, 54693),

Gene: Hubbs_95 Start: 53921, Stop: 53352, Start Num: 2
Candidate Starts for Hubbs_95:
(Start: 2 @53921 has 26 MA's), (3, 53894), (7, 53786), (10, 53705), (19, 53636), (23, 53591), (26, 53540), (33, 53477),

Gene: Issa7_100 Start: 53556, Stop: 52996, Start Num: 2
Candidate Starts for Issa7_100:
(Start: 2 @53556 has 26 MA's), (3, 53526), (4, 53517), (5, 53508), (6, 53487), (10, 53337), (15, 53301), (22, 53211), (32, 53139), (39, 53019),

Gene: Jacko_96 Start: 53144, Stop: 52578, Start Num: 2
Candidate Starts for Jacko_96:
(Start: 2 @53144 has 26 MA's), (3, 53114), (7, 53003), (8, 53000), (9, 52991), (10, 52922), (11, 52898), (27, 52772), (30, 52757), (31, 52742), (32, 52739), (33, 52718), (34, 52709), (36, 52643), (37, 52640), (38, 52613),

Gene: Lupine_96 Start: 53934, Stop: 53365, Start Num: 2
Candidate Starts for Lupine_96:
(1, 54141), (Start: 2 @53934 has 26 MA's), (3, 53907), (7, 53799), (10, 53718), (19, 53649), (23, 53604), (26, 53553), (33, 53490),

Gene: Lyell_101 Start: 53752, Stop: 53192, Start Num: 2
Candidate Starts for Lyell_101:
(Start: 2 @53752 has 26 MA's), (3, 53722), (5, 53704), (6, 53683), (10, 53533), (15, 53497), (22, 53407), (32, 53335), (39, 53215),

Gene: Mistmere_95 Start: 52321, Stop: 51722, Start Num: 2
Candidate Starts for Mistmere_95:
(Start: 2 @52321 has 26 MA's), (3, 52291), (5, 52273), (12, 52075), (13, 52072), (14, 52069), (18, 52051), (20, 52024), (21, 51979), (25, 51934), (26, 51910), (39, 51745),

Gene: Musetta_100 Start: 54094, Stop: 53534, Start Num: 2
Candidate Starts for Musetta_100:
(Start: 2 @54094 has 26 MA's), (3, 54064), (4, 54055), (5, 54046), (6, 54025), (15, 53839), (22, 53749), (24, 53737), (32, 53677), (39, 53557),

Gene: Necrophoxinus_103 Start: 54441, Stop: 53881, Start Num: 2
Candidate Starts for Necrophoxinus_103:
(Start: 2 @54441 has 26 MA's), (3, 54411), (5, 54393), (6, 54372), (10, 54222), (15, 54186), (22, 54096), (32, 54024), (39, 53904),

Gene: OlinDD_98 Start: 55265, Stop: 54669, Start Num: 2
Candidate Starts for OlinDD_98:
(1, 55472), (Start: 2 @55265 has 26 MA's), (3, 55235), (7, 55127), (9, 55115), (10, 55046), (23, 54905), (33, 54797), (38, 54698),

Gene: Pavlo_96 Start: 54070, Stop: 53450, Start Num: 2
Candidate Starts for Pavlo_96:
(1, 54277), (Start: 2 @54070 has 26 MA's), (3, 54043), (7, 53935), (10, 53854), (23, 53689), (26, 53638), (33, 53575), (39, 53470),

Gene: PhillyPhilly_94 Start: 53535, Stop: 52915, Start Num: 2
Candidate Starts for PhillyPhilly_94:
(1, 53742), (Start: 2 @53535 has 26 MA's), (3, 53508), (7, 53400), (10, 53319), (26, 53103), (33, 53040),

Gene: Pioneer3_98 Start: 55063, Stop: 54467, Start Num: 2
Candidate Starts for Pioneer3_98:
(1, 55270), (Start: 2 @55063 has 26 MA's), (3, 55033), (7, 54925), (9, 54913), (10, 54844), (23, 54703), (36, 54526), (38, 54496),

Gene: Platte_97 Start: 54862, Stop: 54236, Start Num: 2

Candidate Starts for Platte_97:
(1, 55069), (Start: 2 @54862 has 26 MA's), (3, 54832), (7, 54724), (9, 54712), (10, 54643), (33, 54364), (36, 54295), (38, 54265),

Gene: Roman_98 Start: 54586, Stop: 53966, Start Num: 2
Candidate Starts for Roman_98:
(1, 54793), (Start: 2 @54586 has 26 MA's), (3, 54559), (7, 54451), (10, 54370), (23, 54205), (26, 54154), (33, 54091),

Gene: RunningBrook_103 Start: 54805, Stop: 54245, Start Num: 2
Candidate Starts for RunningBrook_103:
(Start: 2 @54805 has 26 MA's), (3, 54775), (4, 54766), (5, 54757), (6, 54736), (15, 54550), (22, 54460), (24, 54448), (32, 54388), (39, 54268),

Gene: Saradis_98 Start: 53547, Stop: 52927, Start Num: 2
Candidate Starts for Saradis_98:
(1, 53754), (Start: 2 @53547 has 26 MA's), (3, 53520), (7, 53412), (10, 53331), (23, 53166), (26, 53115), (33, 53052),

Gene: Shroomer_104 Start: 54042, Stop: 53482, Start Num: 2
Candidate Starts for Shroomer_104:
(Start: 2 @54042 has 26 MA's), (3, 54012), (4, 54003), (5, 53994), (6, 53973), (10, 53823), (15, 53787), (22, 53697), (32, 53625), (39, 53505),

Gene: Solimine_98 Start: 54458, Stop: 53823, Start Num: 2
Candidate Starts for Solimine_98:
(1, 54665), (Start: 2 @54458 has 26 MA's), (3, 54431), (7, 54323), (16, 54176), (26, 54011), (33, 53948),

Gene: SteakFry_100 Start: 54202, Stop: 53642, Start Num: 2
Candidate Starts for SteakFry_100:
(Start: 2 @54202 has 26 MA's), (3, 54172), (5, 54154), (6, 54133), (10, 53983), (15, 53947), (17, 53935), (22, 53857), (32, 53785), (39, 53665),

Gene: StevieWelch_101 Start: 53725, Stop: 53165, Start Num: 2
Candidate Starts for StevieWelch_101:
(Start: 2 @53725 has 26 MA's), (3, 53695), (5, 53677), (6, 53656), (10, 53506), (15, 53470), (22, 53380), (24, 53368), (32, 53308), (39, 53188),

Gene: Tandem_98 Start: 55143, Stop: 54547, Start Num: 2
Candidate Starts for Tandem_98:
(1, 55350), (Start: 2 @55143 has 26 MA's), (3, 55113), (7, 55005), (9, 54993), (10, 54924), (23, 54783), (36, 54606), (38, 54576),

Gene: Uterion_101 Start: 53974, Stop: 53339, Start Num: 2
Candidate Starts for Uterion_101:
(1, 54181), (Start: 2 @53974 has 26 MA's), (3, 53947), (7, 53839), (16, 53692), (26, 53527), (33, 53464),

Gene: Welcome_103 Start: 54356, Stop: 53796, Start Num: 2
Candidate Starts for Welcome_103:
(Start: 2 @54356 has 26 MA's), (3, 54326), (5, 54308), (6, 54287), (10, 54137), (15, 54101), (22, 54011), (32, 53939), (39, 53819),

Gene: Wolfstar_101 Start: 55980, Stop: 55354, Start Num: 2
Candidate Starts for Wolfstar_101:
(1, 56187), (Start: 2 @55980 has 26 MA's), (3, 55953), (10, 55764), (26, 55542), (28, 55530), (29, 55524), (33, 55479), (35, 55449),

Gene: Yuma_100 Start: 53766, Stop: 53206, Start Num: 2
Candidate Starts for Yuma_100:
(Start: 2 @53766 has 26 MA's), (3, 53736), (4, 53727), (5, 53718), (6, 53697), (15, 53511), (22, 53421), (24, 53409), (32, 53349), (39, 53229),