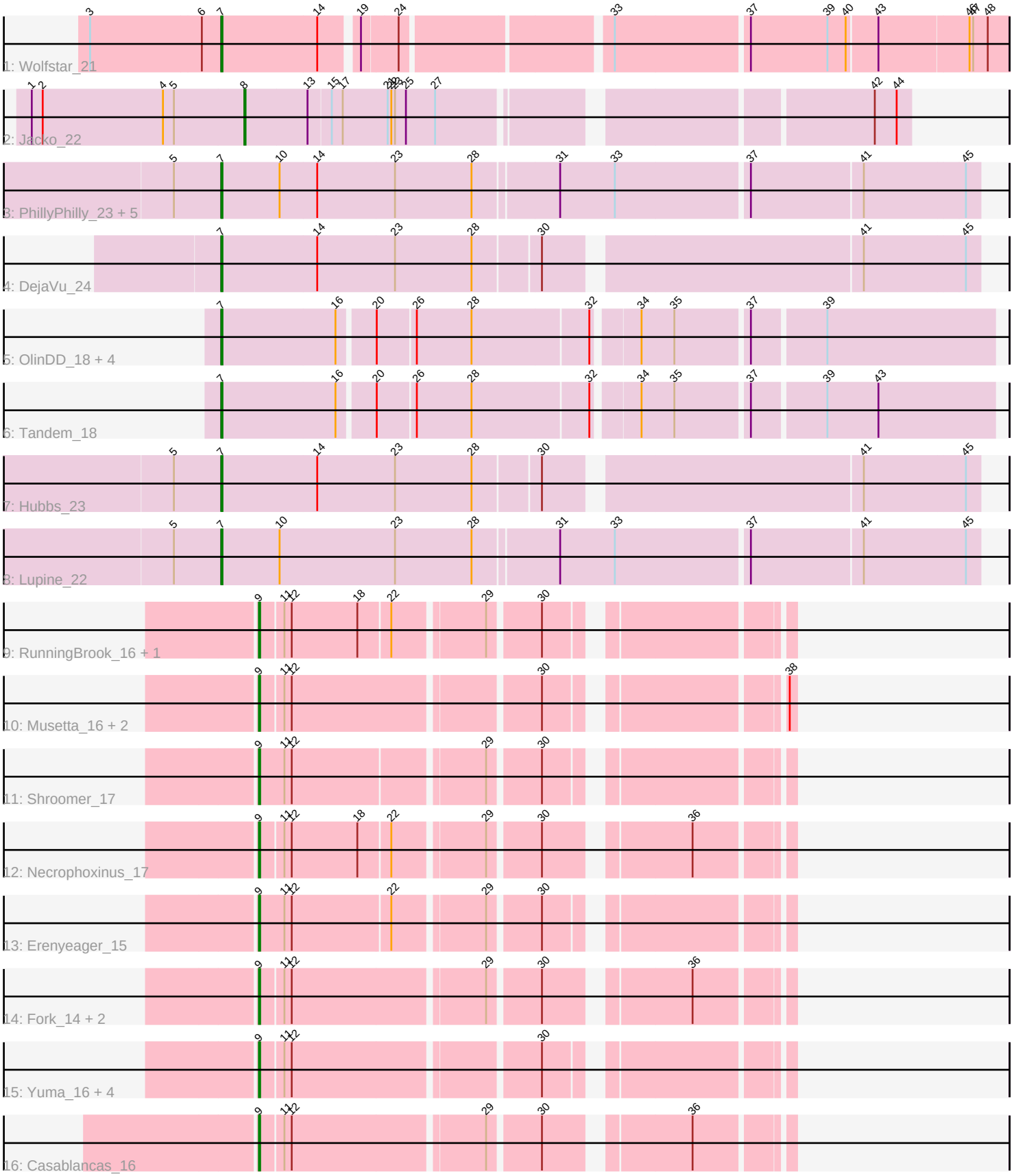
Pham 308941


1: Wolfstar_21
2: Jacko_22
3: PhillyPhilly_23 + 5
4: DejaVu_24
5: OlinDD_18 + 4
6: Tandem_18
7: Hubbs_23
8: Lupine_22
9: RunningBrook_16 + 1
10: Musetta_16 + 2
11: Shroomer_17
12: Necrophoxinus_17
13: Erenyeager_15
14: Fork_14 + 2
15: Yuma_16 + 4
16: Casablancas_16

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 308941 Report

This analysis was run 06/27/26 on database version 652.

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 308941 has 34 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Wolfstar_21
• Track 2 : Jacko_22
• Track 3 : PhillyPhilly_23, Pavlo_22, Roman_23, Solimine_24, Saradis_24, Uterion_25
• Track 4 : DejaVu_24
• Track 5 : OlinDD_18, Hortus1_18, Pioneer3_18, Platte_19, Alleb_19
• Track 6 : Tandem_18
• Track 7 : Hubbs_23
• Track 8 : Lupine_22
• Track 9 : RunningBrook_16, DustyDino_17
• Track 10 : Musetta_16, StevieWelch_17, ASegato_15
• Track 11 : Shroomer_17
• Track 12 : Necrophoxinus_17
• Track 13 : Erenyeager_15
• Track 14 : Fork_14, Deschain_16, Lyell_17
• Track 15 : Yuma_16, HollowPurple_17, SteakFry_18, Welcome_16, Issa7_15
• Track 16 : Casablancas_16

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

The start number called the most often in the published annotations is 9, it was called in 15 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ASegato_15, Casablancas_16, Deschain_16, DustyDino_17, Erenyeager_15, Fork_14, HollowPurple_17, Issa7_15, Lyell_17, Musetta_16, Necrophoxinus_17, RunningBrook_16, Shroomer_17, SteakFry_18, StevieWelch_17, Welcome_16, Yuma_16,

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

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Genes that do not have the "Most Annotated" start:
• Alleb_19, DejaVu_24, Hortus1_18, Hubbs_23, Jacko_22, Lupine_22, OlinDD_18, Pavlo_22, PhillyPhilly_23, Pioneer3_18, Platte_19, Roman_23, Saradis_24, Solimine_24, Tandem_18, Uterion_25, Wolfstar_21,

Summary by start number:

Start 7:
• Found in 16 of 34 (47.1%) of genes in pham
• Manual Annotations of this start: 13 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alleb_19 (ED1), DejaVu_24 (ED1), Hortus1_18 (ED1), Hubbs_23 (ED1), Lupine_22 (ED1), OlinDD_18 (ED1), Pavlo_22 (ED1), PhillyPhilly_23 (ED1), Pioneer3_18 (ED1), Platte_19 (ED1), Roman_23 (ED1), Saradis_24 (ED1), Solimine_24 (ED1), Tandem_18 (ED1), Uterion_25 (ED1), Wolfstar_21 (ED),

Start 8:
• Found in 1 of 34 (2.9%) of genes in pham
• Manual Annotations of this start: 1 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jacko_22 (ED1),

Start 9:
• Found in 17 of 34 (50.0%) of genes in pham
• Manual Annotations of this start: 15 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ASegato_15 (ED2), Casablancas_16 (ED2), Deschain_16 (ED2), DustyDino_17 (ED2), Erenyeager_15 (ED2), Fork_14 (ED2), HollowPurple_17 (ED2), Issa7_15 (ED2), Lyell_17 (ED2), Musetta_16 (ED2), Necrophoxinus_17 (ED2), RunningBrook_16 (ED2), Shroomer_17 (ED2), SteakFry_18 (ED2), StevieWelch_17 (ED2), Welcome_16 (ED2), Yuma_16 (ED2),

Summary by clusters:

There are 3 clusters represented in this pham: ED2, ED, ED1,

Info for manual annotations of cluster ED:
•Start number 7 was manually annotated 1 time for cluster ED.

Info for manual annotations of cluster ED1:
•Start number 7 was manually annotated 12 times for cluster ED1.
•Start number 8 was manually annotated 1 time for cluster ED1.

Info for manual annotations of cluster ED2:
•Start number 9 was manually annotated 15 times for cluster ED2.

Gene Information:

Gene: ASegato_15 Start: 5442, Stop: 5825, Start Num: 9
Candidate Starts for ASegato_15:
(Start: 9 @5442 has 15 MA's), (11, 5460), (12, 5466), (30, 5655), (38, 5820),

Gene: Alleb_19 Start: 6292, Stop: 6891, Start Num: 7
Candidate Starts for Alleb_19:
(Start: 7 @6292 has 13 MA's), (16, 6385), (20, 6412), (26, 6442), (28, 6487), (32, 6580), (34, 6613), (35, 6640), (37, 6697), (39, 6754),

Gene: Casablancas_16 Start: 5385, Stop: 5771, Start Num: 9
Candidate Starts for Casablancas_16:
(Start: 9 @5385 has 15 MA's), (11, 5403), (12, 5409), (29, 5559), (30, 5598), (36, 5700),

Gene: DejaVu_24 Start: 6825, Stop: 7415, Start Num: 7
Candidate Starts for DejaVu_24:
(Start: 7 @6825 has 13 MA's), (14, 6903), (23, 6966), (28, 7029), (30, 7080), (41, 7323), (45, 7404),

Gene: Deschain_16 Start: 5741, Stop: 6127, Start Num: 9
Candidate Starts for Deschain_16:
(Start: 9 @5741 has 15 MA's), (11, 5759), (12, 5765), (29, 5915), (30, 5954), (36, 6056),

Gene: DustyDino_17 Start: 5846, Stop: 6226, Start Num: 9
Candidate Starts for DustyDino_17:
(Start: 9 @5846 has 15 MA's), (11, 5864), (12, 5870), (18, 5924), (22, 5948), (29, 6017), (30, 6056),

Gene: Erenyeager_15 Start: 5360, Stop: 5743, Start Num: 9
Candidate Starts for Erenyeager_15:
(Start: 9 @5360 has 15 MA's), (11, 5381), (12, 5387), (22, 5465), (29, 5534), (30, 5573),

Gene: Fork_14 Start: 5099, Stop: 5485, Start Num: 9
Candidate Starts for Fork_14:
(Start: 9 @5099 has 15 MA's), (11, 5117), (12, 5123), (29, 5273), (30, 5312), (36, 5414),

Gene: HollowPurple_17 Start: 5603, Stop: 5989, Start Num: 9
Candidate Starts for HollowPurple_17:
(Start: 9 @5603 has 15 MA's), (11, 5624), (12, 5630), (30, 5819),

Gene: Hortus1_18 Start: 6291, Stop: 6890, Start Num: 7
Candidate Starts for Hortus1_18:
(Start: 7 @6291 has 13 MA's), (16, 6384), (20, 6411), (26, 6441), (28, 6486), (32, 6579), (34, 6612), (35, 6639), (37, 6696), (39, 6753),

Gene: Hubbs_23 Start: 7037, Stop: 7627, Start Num: 7
Candidate Starts for Hubbs_23:
(5, 6998), (Start: 7 @7037 has 13 MA's), (14, 7115), (23, 7178), (28, 7241), (30, 7292), (41, 7535), (45, 7616),

Gene: Issa7_15 Start: 5023, Stop: 5406, Start Num: 9
Candidate Starts for Issa7_15:
(Start: 9 @5023 has 15 MA's), (11, 5041), (12, 5047), (30, 5236),

Gene: Jacko_22 Start: 7018, Stop: 7521, Start Num: 8
Candidate Starts for Jacko_22:

(1, 6844), (2, 6853), (4, 6952), (5, 6961), (Start: 8 @7018 has 1 MA's), (13, 7069), (15, 7087), (17, 7096), (21, 7132), (22, 7135), (23, 7138), (25, 7147), (27, 7171), (42, 7492), (44, 7510),

Gene: Lupine_22 Start: 6703, Stop: 7305, Start Num: 7
Candidate Starts for Lupine_22:
(5, 6664), (Start: 7 @6703 has 13 MA's), (10, 6751), (23, 6844), (28, 6907), (31, 6973), (33, 7018), (37, 7123), (41, 7213), (45, 7294),

Gene: Lyell_17 Start: 5561, Stop: 5947, Start Num: 9
Candidate Starts for Lyell_17:
(Start: 9 @5561 has 15 MA's), (11, 5579), (12, 5585), (29, 5735), (30, 5774), (36, 5876),

Gene: Musetta_16 Start: 5576, Stop: 5959, Start Num: 9
Candidate Starts for Musetta_16:
(Start: 9 @5576 has 15 MA's), (11, 5594), (12, 5600), (30, 5789), (38, 5954),

Gene: Necrophoxinus_17 Start: 5925, Stop: 6308, Start Num: 9
Candidate Starts for Necrophoxinus_17:
(Start: 9 @5925 has 15 MA's), (11, 5943), (12, 5949), (18, 6003), (22, 6027), (29, 6096), (30, 6135), (36, 6237),

Gene: OlinDD_18 Start: 6290, Stop: 6889, Start Num: 7
Candidate Starts for OlinDD_18:
(Start: 7 @6290 has 13 MA's), (16, 6383), (20, 6410), (26, 6440), (28, 6485), (32, 6578), (34, 6611), (35, 6638), (37, 6695), (39, 6752),

Gene: Pavlo_22 Start: 6975, Stop: 7580, Start Num: 7
Candidate Starts for Pavlo_22:
(5, 6936), (Start: 7 @6975 has 13 MA's), (10, 7023), (14, 7053), (23, 7116), (28, 7179), (31, 7248), (33, 7293), (37, 7398), (41, 7488), (45, 7569),

Gene: PhillyPhilly_23 Start: 6883, Stop: 7485, Start Num: 7
Candidate Starts for PhillyPhilly_23:
(5, 6844), (Start: 7 @6883 has 13 MA's), (10, 6931), (14, 6961), (23, 7024), (28, 7087), (31, 7153), (33, 7198), (37, 7303), (41, 7393), (45, 7474),

Gene: Pioneer3_18 Start: 6191, Stop: 6790, Start Num: 7
Candidate Starts for Pioneer3_18:
(Start: 7 @6191 has 13 MA's), (16, 6284), (20, 6311), (26, 6341), (28, 6386), (32, 6479), (34, 6512), (35, 6539), (37, 6596), (39, 6653),

Gene: Platte_19 Start: 6324, Stop: 6923, Start Num: 7
Candidate Starts for Platte_19:
(Start: 7 @6324 has 13 MA's), (16, 6417), (20, 6444), (26, 6474), (28, 6519), (32, 6612), (34, 6645), (35, 6672), (37, 6729), (39, 6786),

Gene: Roman_23 Start: 6881, Stop: 7483, Start Num: 7
Candidate Starts for Roman_23:
(5, 6842), (Start: 7 @6881 has 13 MA's), (10, 6929), (14, 6959), (23, 7022), (28, 7085), (31, 7151), (33, 7196), (37, 7301), (41, 7391), (45, 7472),

Gene: RunningBrook_16 Start: 5846, Stop: 6226, Start Num: 9
Candidate Starts for RunningBrook_16:

(Start: 9 @5846 has 15 MA's), (11, 5864), (12, 5870), (18, 5924), (22, 5948), (29, 6017), (30, 6056),

Gene: Saradis_24 Start: 6941, Stop: 7543, Start Num: 7
Candidate Starts for Saradis_24:
(5, 6902), (Start: 7 @6941 has 13 MA's), (10, 6989), (14, 7019), (23, 7082), (28, 7145), (31, 7211), (33, 7256), (37, 7361), (41, 7451), (45, 7532),

Gene: Shroomer_17 Start: 5158, Stop: 5541, Start Num: 9
Candidate Starts for Shroomer_17:
(Start: 9 @5158 has 15 MA's), (11, 5179), (12, 5185), (29, 5332), (30, 5371),

Gene: Solimine_24 Start: 7356, Stop: 7958, Start Num: 7
Candidate Starts for Solimine_24:
(5, 7317), (Start: 7 @7356 has 13 MA's), (10, 7404), (14, 7434), (23, 7497), (28, 7560), (31, 7626), (33, 7671), (37, 7776), (41, 7866), (45, 7947),

Gene: SteakFry_18 Start: 5603, Stop: 5989, Start Num: 9
Candidate Starts for SteakFry_18:
(Start: 9 @5603 has 15 MA's), (11, 5624), (12, 5630), (30, 5819),

Gene: StevieWelch_17 Start: 5726, Stop: 6109, Start Num: 9
Candidate Starts for StevieWelch_17:
(Start: 9 @5726 has 15 MA's), (11, 5744), (12, 5750), (30, 5939), (38, 6104),

Gene: Tandem_18 Start: 6228, Stop: 6827, Start Num: 7
Candidate Starts for Tandem_18:
(Start: 7 @6228 has 13 MA's), (16, 6321), (20, 6348), (26, 6378), (28, 6423), (32, 6516), (34, 6549), (35, 6576), (37, 6633), (39, 6690), (43, 6732),

Gene: Uterion_25 Start: 7448, Stop: 8050, Start Num: 7
Candidate Starts for Uterion_25:
(5, 7409), (Start: 7 @7448 has 13 MA's), (10, 7496), (14, 7526), (23, 7589), (28, 7652), (31, 7718), (33, 7763), (37, 7868), (41, 7958), (45, 8039),

Gene: Welcome_16 Start: 5572, Stop: 5955, Start Num: 9
Candidate Starts for Welcome_16:
(Start: 9 @5572 has 15 MA's), (11, 5590), (12, 5596), (30, 5785),

Gene: Wolfstar_21 Start: 7000, Stop: 7599, Start Num: 7
Candidate Starts for Wolfstar_21:
(3, 6895), (6, 6985), (Start: 7 @7000 has 13 MA's), (14, 7078), (19, 7105), (24, 7132), (33, 7288), (37, 7393), (39, 7456), (40, 7471), (43, 7495), (46, 7567), (47, 7570), (48, 7582),

Gene: Yuma_16 Start: 5475, Stop: 5858, Start Num: 9
Candidate Starts for Yuma_16:
(Start: 9 @5475 has 15 MA's), (11, 5493), (12, 5499), (30, 5688),