Pham 3435

1: Wolfstar_63
2: Alleb_59 + 1
3: PhillyPhilly_61 + 3
4: Hortus1_58 + 2
5: Jacko_62
6: Tandem_58
7: Hubbs_62 + 1
8: ASegato_65
9: Necrophoxinus_68 + 1
10: Fork_62 + 1
11: DustyDino_69 + 2
12: Erenyeager_66
13: Lyell_66
14: StevieWelch_66

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 3435 Report

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

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 3435 has 25 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Wolfstar_63
• Track 2 : Alleb_59, Pioneer3_58
• Track 3 : PhillyPhilly_61, DejaVu_63, Lupine_60, Pavlo_61
• Track 4 : Hortus1_58, OlinDD_58, Platte_58
• Track 5 : Jacko_62
• Track 6 : Tandem_58
• Track 7 : Hubbs_62, Roman_62
• Track 8 : ASegato_65
• Track 9 : Necrophoxinus_68, Yuma_65
• Track 10 : Fork_62, Musetta_66
• Track 11 : DustyDino_69, Welcome_67, RunningBrook_69
• Track 12 : Erenyeager_66
• Track 13 : Lyell_66
• Track 14 : StevieWelch_66

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

The start number called the most often in the published annotations is 17, it was called in 9 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ASegato_65, DustyDino_69, Erenyeager_66, Fork_62, Lyell_66, Musetta_66, Necrophoxinus_68, RunningBrook_69, StevieWelch_66, Welcome_67, Yuma_65,

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_59, DejaVu_63, Hortus1_58, Hubbs_62, Jacko_62, Lupine_60, OlinDD_58, Pavlo_61, PhillyPhilly_61, Pioneer3_58, Platte_58, Roman_62, Tandem_58,

Wolfstar_63,

Summary by start number:

Start 3:
• Found in 1 of 25 (4.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Wolfstar_63 (ED),

Start 4:
• Found in 6 of 25 (24.0%) of genes in pham
• Manual Annotations of this start: 6 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DejaVu_63 (ED1), Hubbs_62 (ED1), Lupine_60 (ED1), Pavlo_61 (ED1), PhillyPhilly_61 (ED1), Roman_62 (ED1),

Start 5:
• Found in 4 of 25 (16.0%) of genes in pham
• Manual Annotations of this start: 4 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hortus1_58 (ED1), OlinDD_58 (ED1), Platte_58 (ED1), Tandem_58 (ED1),

Start 6:
• Found in 1 of 25 (4.0%) of genes in pham
• Manual Annotations of this start: 1 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jacko_62 (ED1),

Start 15:
• Found in 2 of 25 (8.0%) of genes in pham
• Manual Annotations of this start: 2 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alleb_59 (ED1), Pioneer3_58 (ED1),

Start 17:
• Found in 11 of 25 (44.0%) of genes in pham
• Manual Annotations of this start: 9 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ASegato_65 (ED2), DustyDino_69 (ED2), Erenyeager_66 (ED2), Fork_62 (ED2), Lyell_66 (ED2), Musetta_66 (ED2), Necrophoxinus_68 (ED2), RunningBrook_69 (ED2), StevieWelch_66 (ED2), Welcome_67 (ED2), Yuma_65 (ED2),

Summary by clusters:

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

Info for manual annotations of cluster ED1:
•Start number 4 was manually annotated 6 times for cluster ED1.
•Start number 5 was manually annotated 4 times for cluster ED1.

•Start number 6 was manually annotated 1 time for cluster ED1.
•Start number 15 was manually annotated 2 times for cluster ED1.

Info for manual annotations of cluster ED2:
•Start number 17 was manually annotated 9 times for cluster ED2.

Gene Information:

Gene: ASegato_65 Start: 37238, Stop: 36657, Start Num: 17
Candidate Starts for ASegato_65:
(1, 37544), (2, 37475), (9, 37367), (14, 37283), (Start: 17 @37238 has 9 MA's), (19, 37178), (21, 37160), (24, 37064), (28, 36950), (30, 36884), (33, 36821), (34, 36782), (35, 36773), (36, 36764), (39, 36701), (40, 36680), (41, 36677),

Gene: Alleb_59 Start: 37208, Stop: 36579, Start Num: 15
Candidate Starts for Alleb_59:
(Start: 15 @37208 has 2 MA's), (19, 37100), (20, 37091), (26, 36917), (29, 36842), (31, 36761), (39, 36620),

Gene: DejaVu_63 Start: 37366, Stop: 36566, Start Num: 4
Candidate Starts for DejaVu_63:
(Start: 4 @37366 has 6 MA's), (7, 37309), (12, 37210), (13, 37198), (16, 37171), (19, 37087), (20, 37078), (22, 37066), (23, 37060), (26, 36904), (31, 36748), (37, 36613), (38, 36610), (39, 36607), (41, 36583),

Gene: DustyDino_69 Start: 38201, Stop: 37620, Start Num: 17
Candidate Starts for DustyDino_69:
(9, 38330), (14, 38246), (Start: 17 @38201 has 9 MA's), (19, 38141), (24, 38027), (28, 37913), (30, 37847), (33, 37784), (34, 37745), (35, 37736), (36, 37727), (39, 37664), (40, 37643), (41, 37640),

Gene: Erenyeager_66 Start: 37233, Stop: 36652, Start Num: 17
Candidate Starts for Erenyeager_66:
(8, 37380), (9, 37362), (14, 37278), (Start: 17 @37233 has 9 MA's), (19, 37173), (24, 37059), (28, 36945), (30, 36879), (33, 36816), (34, 36777), (36, 36759), (39, 36696), (40, 36675), (41, 36672),

Gene: Fork_62 Start: 36888, Stop: 36307, Start Num: 17
Candidate Starts for Fork_62:
(2, 37125), (9, 37017), (14, 36933), (Start: 17 @36888 has 9 MA's), (19, 36828), (21, 36810), (24, 36714), (28, 36600), (30, 36534), (33, 36471), (34, 36432), (35, 36423), (36, 36414), (39, 36351), (40, 36330), (41, 36327),

Gene: Hortus1_58 Start: 37363, Stop: 36569, Start Num: 5
Candidate Starts for Hortus1_58:
(Start: 5 @37363 has 4 MA's), (7, 37315), (12, 37216), (19, 37090), (26, 36907), (27, 36892), (31, 36751), (33, 36730), (39, 36610), (41, 36586),

Gene: Hubbs_62 Start: 37574, Stop: 36774, Start Num: 4
Candidate Starts for Hubbs_62:
(Start: 4 @37574 has 6 MA's), (7, 37517), (12, 37418), (13, 37406), (16, 37379), (18, 37328), (19, 37295), (20, 37286), (22, 37274), (23, 37268), (26, 37112), (30, 36998), (31, 36956), (37, 36821), (38, 36818), (39, 36815), (41, 36791),

Gene: Jacko_62 Start: 36293, Stop: 35553, Start Num: 6
Candidate Starts for Jacko_62:
(Start: 6 @36293 has 1 MA's), (10, 36221), (23, 36047), (26, 35891), (31, 35735), (36, 35657), (39, 35594),

Gene: Lupine_60 Start: 36780, Stop: 35980, Start Num: 4
Candidate Starts for Lupine_60:
(Start: 4 @36780 has 6 MA's), (7, 36723), (12, 36624), (13, 36612), (16, 36585), (19, 36501), (20, 36492), (22, 36480), (23, 36474), (26, 36318), (31, 36162), (37, 36027), (38, 36024), (39, 36021), (41, 35997),

Gene: Lyell_66 Start: 37147, Stop: 36566, Start Num: 17
Candidate Starts for Lyell_66:
(2, 37384), (9, 37276), (14, 37192), (Start: 17 @37147 has 9 MA's), (19, 37087), (21, 37069), (24, 36973), (28, 36859), (33, 36730), (34, 36691), (35, 36682), (36, 36673), (39, 36610), (40, 36589), (41, 36586),

Gene: Musetta_66 Start: 37608, Stop: 37027, Start Num: 17
Candidate Starts for Musetta_66:
(2, 37845), (9, 37737), (14, 37653), (Start: 17 @37608 has 9 MA's), (19, 37548), (21, 37530), (24, 37434), (28, 37320), (30, 37254), (33, 37191), (34, 37152), (35, 37143), (36, 37134), (39, 37071), (40, 37050), (41, 37047),

Gene: Necrophoxinus_68 Start: 37842, Stop: 37261, Start Num: 17
Candidate Starts for Necrophoxinus_68:
(9, 37971), (14, 37887), (Start: 17 @37842 has 9 MA's), (19, 37782), (21, 37764), (24, 37668), (28, 37554), (30, 37488), (33, 37425), (34, 37386), (35, 37377), (36, 37368), (39, 37305), (40, 37284), (41, 37281),

Gene: OlinDD_58 Start: 37362, Stop: 36568, Start Num: 5
Candidate Starts for OlinDD_58:
(Start: 5 @37362 has 4 MA's), (7, 37314), (12, 37215), (19, 37089), (26, 36906), (27, 36891), (31, 36750), (33, 36729), (39, 36609), (41, 36585),

Gene: Pavlo_61 Start: 37425, Stop: 36625, Start Num: 4
Candidate Starts for Pavlo_61:
(Start: 4 @37425 has 6 MA's), (7, 37368), (12, 37269), (13, 37257), (16, 37230), (19, 37146), (20, 37137), (22, 37125), (23, 37119), (26, 36963), (31, 36807), (37, 36672), (38, 36669), (39, 36666), (41, 36642),

Gene: PhillyPhilly_61 Start: 36959, Stop: 36159, Start Num: 4
Candidate Starts for PhillyPhilly_61:
(Start: 4 @36959 has 6 MA's), (7, 36902), (12, 36803), (13, 36791), (16, 36764), (19, 36680), (20, 36671), (22, 36659), (23, 36653), (26, 36497), (31, 36341), (37, 36206), (38, 36203), (39, 36200), (41, 36176),

Gene: Pioneer3_58 Start: 37205, Stop: 36576, Start Num: 15
Candidate Starts for Pioneer3_58:
(Start: 15 @37205 has 2 MA's), (19, 37097), (20, 37088), (26, 36914), (29, 36839), (31, 36758), (39, 36617),

Gene: Platte_58 Start: 37155, Stop: 36361, Start Num: 5

Candidate Starts for Platte_58:
(Start: 5 @37155 has 4 MA's), (7, 37107), (12, 37008), (19, 36882), (26, 36699), (27, 36684), (31, 36543), (33, 36522), (39, 36402), (41, 36378),

Gene: Roman_62 Start: 37422, Stop: 36622, Start Num: 4
Candidate Starts for Roman_62:
(Start: 4 @37422 has 6 MA's), (7, 37365), (12, 37266), (13, 37254), (16, 37227), (18, 37176), (19, 37143), (20, 37134), (22, 37122), (23, 37116), (26, 36960), (30, 36846), (31, 36804), (37, 36669), (38, 36666), (39, 36663), (41, 36639),

Gene: RunningBrook_69 Start: 38201, Stop: 37620, Start Num: 17
Candidate Starts for RunningBrook_69:
(9, 38330), (14, 38246), (Start: 17 @38201 has 9 MA's), (19, 38141), (24, 38027), (28, 37913), (30, 37847), (33, 37784), (34, 37745), (35, 37736), (36, 37727), (39, 37664), (40, 37643), (41, 37640),

Gene: StevieWelch_66 Start: 37233, Stop: 36652, Start Num: 17
Candidate Starts for StevieWelch_66:
(9, 37362), (14, 37278), (Start: 17 @37233 has 9 MA's), (19, 37173), (24, 37059), (28, 36945), (30, 36879), (33, 36816), (34, 36777), (36, 36759), (39, 36696), (40, 36675), (41, 36672),

Gene: Tandem_58 Start: 37303, Stop: 36515, Start Num: 5
Candidate Starts for Tandem_58:
(Start: 5 @37303 has 4 MA's), (7, 37255), (12, 37156), (20, 37027), (26, 36853), (29, 36778), (31, 36697), (39, 36556),

Gene: Welcome_67 Start: 37593, Stop: 37012, Start Num: 17
Candidate Starts for Welcome_67:
(9, 37722), (14, 37638), (Start: 17 @37593 has 9 MA's), (19, 37533), (24, 37419), (28, 37305), (30, 37239), (33, 37176), (34, 37137), (35, 37128), (36, 37119), (39, 37056), (40, 37035), (41, 37032),

Gene: Wolfstar_63 Start: 38471, Stop: 37668, Start Num: 3
Candidate Starts for Wolfstar_63:
(3, 38471), (7, 38408), (11, 38318), (12, 38309), (23, 38162), (24, 38072), (25, 38051), (26, 38006), (31, 37850), (32, 37844), (39, 37709),

Gene: Yuma_65 Start: 37162, Stop: 36581, Start Num: 17
Candidate Starts for Yuma_65:
(9, 37291), (14, 37207), (Start: 17 @37162 has 9 MA's), (19, 37102), (21, 37084), (24, 36988), (28, 36874), (30, 36808), (33, 36745), (34, 36706), (35, 36697), (36, 36688), (39, 36625), (40, 36604), (41, 36601),