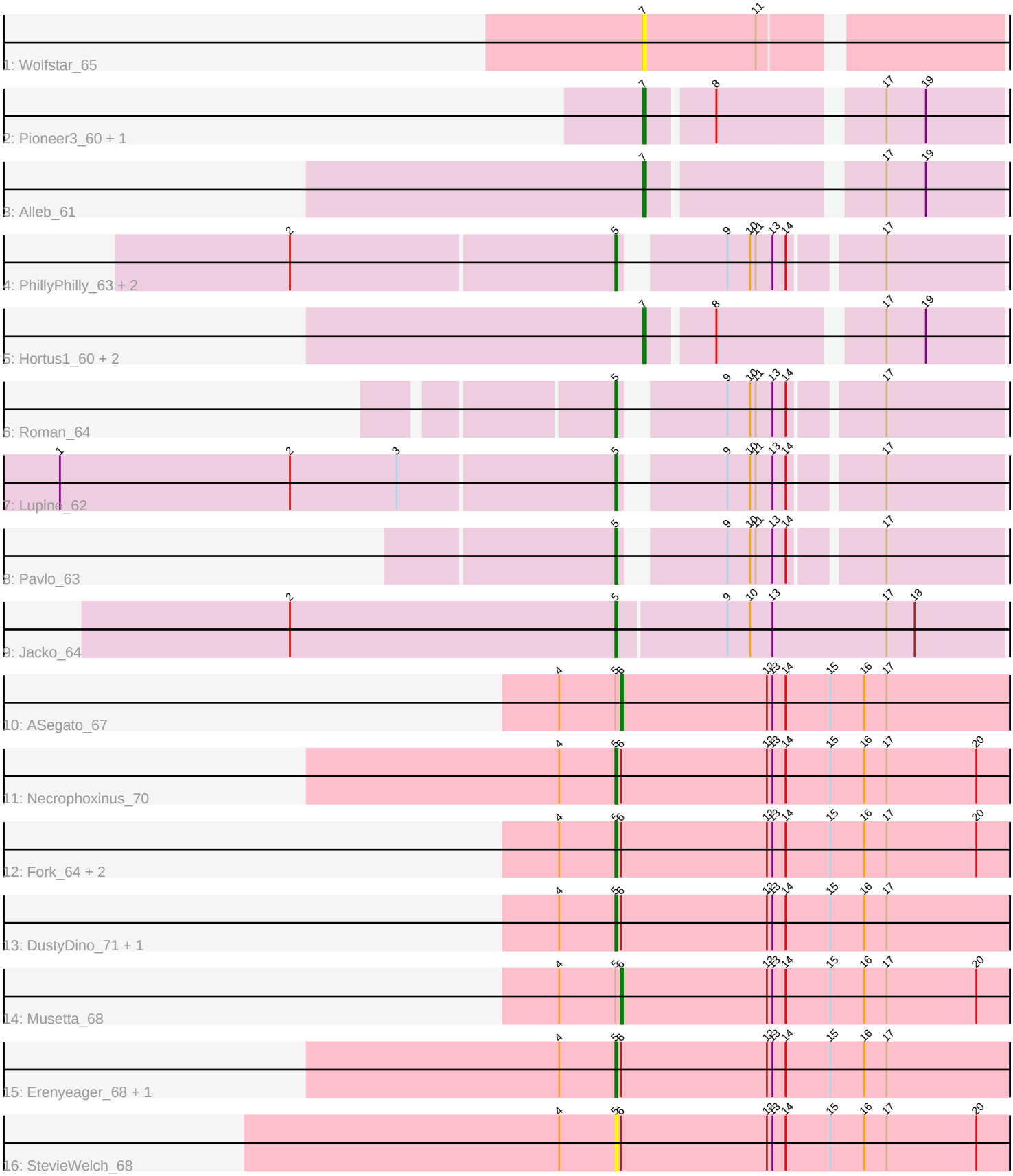
Pham 86420


1: Wolfstar_65
2: Pioneer3_60 + 1
3: Alleb_61
4: PhillyPhilly_63 + 2
5: Hortus1_60 + 2
6: Roman_64
7: Lupine_62
8: Pavlo_63
9: Jacko_64
10: ASegato_67
11: Necrophoxinus_70
12: Fork_64 + 2
13: DustyDino_71 + 1
14: Musetta_68
15: Erenyeager_68 + 1
16: StevieWelch_68

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 86420 Report

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

Pham number 86420 has 25 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Wolfstar_65
• Track 2 : Pioneer3_60, Tandem_60
• Track 3 : Alleb_61
• Track 4 : PhillyPhilly_63, DejaVu_65, Hubbs_64
• Track 5 : Hortus1_60, OlinDD_60, Platte_60
• Track 6 : Roman_64
• Track 7 : Lupine_62
• Track 8 : Pavlo_63
• Track 9 : Jacko_64
• Track 10 : ASegato_67
• Track 11 : Necrophoxinus_70
• Track 12 : Fork_64, Lyell_68, Welcome_69
• Track 13 : DustyDino_71, RunningBrook_71
• Track 14 : Musetta_68
• Track 15 : Erenyeager_68, Yuma_67
• Track 16 : StevieWelch_68

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

The start number called the most often in the published annotations is 5, it was called in 14 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• DejaVu_65, DustyDino_71, Erenyeager_68, Fork_64, Hubbs_64, Jacko_64, Lupine_62, Lyell_68, Necrophoxinus_70, Pavlo_63, PhillyPhilly_63, Roman_64, RunningBrook_71, StevieWelch_68, Welcome_69, Yuma_67,

Genes that have the "Most Annotated" start but do not call it:
• ASegato_67, Musetta_68,

Genes that do not have the "Most Annotated" start:
• Alleb_61, Hortus1_60, OlinDD_60, Pioneer3_60, Platte_60, Tandem_60, Wolfstar_65,

Summary by start number:

Start 5:
• Found in 18 of 25 (72.0%) of genes in pham
• Manual Annotations of this start: 14 of 22
• Called 88.9% of time when present
• Phage (with cluster) where this start called: DejaVu_65 (ED1), DustyDino_71 (ED2), Erenyeager_68 (ED2), Fork_64 (ED2), Hubbs_64 (ED1), Jacko_64 (ED1), Lupine_62 (ED1), Lyell_68 (ED2), Necrophoxinus_70 (ED2), Pavlo_63 (ED1), PhillyPhilly_63 (ED1), Roman_64 (ED1), RunningBrook_71 (ED2), StevieWelch_68 (ED2), Welcome_69 (ED2), Yuma_67 (ED2),

Start 6:
• Found in 11 of 25 (44.0%) of genes in pham
• Manual Annotations of this start: 2 of 22
• Called 18.2% of time when present
• Phage (with cluster) where this start called: ASegato_67 (ED2), Musetta_68 (ED2),

Start 7:
• Found in 7 of 25 (28.0%) 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: Alleb_61 (ED1), Hortus1_60 (ED1), OlinDD_60 (ED1), Pioneer3_60 (ED1), Platte_60 (ED1), Tandem_60 (ED1), Wolfstar_65 (ED),

Summary by clusters:

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

Info for manual annotations of cluster ED1:
•Start number 5 was manually annotated 7 times for cluster ED1.
•Start number 7 was manually annotated 6 times for cluster ED1.

Info for manual annotations of cluster ED2:
•Start number 5 was manually annotated 7 times for cluster ED2.
•Start number 6 was manually annotated 2 times for cluster ED2.

Gene Information:

Gene: ASegato_67 Start: 37834, Stop: 37628, Start Num: 6
Candidate Starts for ASegato_67:
(4, 37867), (Start: 5 @37837 has 14 MA's), (Start: 6 @37834 has 2 MA's), (12, 37756), (13, 37753), (14, 37747), (15, 37723), (16, 37705), (17, 37693),

Gene: Alleb_61 Start: 37726, Stop: 37553, Start Num: 7
Candidate Starts for Alleb_61:
(Start: 7 @37726 has 6 MA's), (17, 37615), (19, 37594),

Gene: DejaVu_65 Start: 37890, Stop: 37708, Start Num: 5

Candidate Starts for DejaVu_65:
(2, 38058), (Start: 5 @37890 has 14 MA's), (9, 37845), (10, 37833), (11, 37830), (13, 37821), (14, 37815), (17, 37770),

Gene: DustyDino_71 Start: 38800, Stop: 38591, Start Num: 5
Candidate Starts for DustyDino_71:
(4, 38830), (Start: 5 @38800 has 14 MA's), (Start: 6 @38797 has 2 MA's), (12, 38719), (13, 38716), (14, 38710), (15, 38686), (16, 38668), (17, 38656),

Gene: Erenyeager_68 Start: 37832, Stop: 37623, Start Num: 5
Candidate Starts for Erenyeager_68:
(4, 37862), (Start: 5 @37832 has 14 MA's), (Start: 6 @37829 has 2 MA's), (12, 37751), (13, 37748), (14, 37742), (15, 37718), (16, 37700), (17, 37688),

Gene: Fork_64 Start: 37487, Stop: 37278, Start Num: 5
Candidate Starts for Fork_64:
(4, 37517), (Start: 5 @37487 has 14 MA's), (Start: 6 @37484 has 2 MA's), (12, 37406), (13, 37403), (14, 37397), (15, 37373), (16, 37355), (17, 37343), (20, 37295),

Gene: Hortus1_60 Start: 37881, Stop: 37708, Start Num: 7
Candidate Starts for Hortus1_60:
(Start: 7 @37881 has 6 MA's), (8, 37848), (17, 37770), (19, 37749),

Gene: Hubbs_64 Start: 38098, Stop: 37916, Start Num: 5
Candidate Starts for Hubbs_64:
(2, 38266), (Start: 5 @38098 has 14 MA's), (9, 38053), (10, 38041), (11, 38038), (13, 38029), (14, 38023), (17, 37978),

Gene: Jacko_64 Start: 36844, Stop: 36641, Start Num: 5
Candidate Starts for Jacko_64:
(2, 37018), (Start: 5 @36844 has 14 MA's), (9, 36787), (10, 36775), (13, 36763), (17, 36703), (18, 36688),

Gene: Lupine_62 Start: 37304, Stop: 37122, Start Num: 5
Candidate Starts for Lupine_62:
(1, 37595), (2, 37472), (3, 37415), (Start: 5 @37304 has 14 MA's), (9, 37259), (10, 37247), (11, 37244), (13, 37235), (14, 37229), (17, 37184),

Gene: Lyell_68 Start: 37746, Stop: 37537, Start Num: 5
Candidate Starts for Lyell_68:
(4, 37776), (Start: 5 @37746 has 14 MA's), (Start: 6 @37743 has 2 MA's), (12, 37665), (13, 37662), (14, 37656), (15, 37632), (16, 37614), (17, 37602), (20, 37554),

Gene: Musetta_68 Start: 38204, Stop: 37998, Start Num: 6
Candidate Starts for Musetta_68:
(4, 38237), (Start: 5 @38207 has 14 MA's), (Start: 6 @38204 has 2 MA's), (12, 38126), (13, 38123), (14, 38117), (15, 38093), (16, 38075), (17, 38063), (20, 38015),

Gene: Necrophoxinus_70 Start: 38441, Stop: 38232, Start Num: 5
Candidate Starts for Necrophoxinus_70:
(4, 38471), (Start: 5 @38441 has 14 MA's), (Start: 6 @38438 has 2 MA's), (12, 38360), (13, 38357), (14, 38351), (15, 38327), (16, 38309), (17, 38297), (20, 38249),

Gene: OlinDD_60 Start: 37880, Stop: 37707, Start Num: 7
Candidate Starts for OlinDD_60:
(Start: 7 @37880 has 6 MA's), (8, 37847), (17, 37769), (19, 37748),

Gene: Pavlo_63 Start: 37949, Stop: 37767, Start Num: 5
Candidate Starts for Pavlo_63:
(Start: 5 @37949 has 14 MA's), (9, 37904), (10, 37892), (11, 37889), (13, 37880), (14, 37874), (17, 37829),

Gene: PhillyPhilly_63 Start: 37483, Stop: 37301, Start Num: 5
Candidate Starts for PhillyPhilly_63:
(2, 37651), (Start: 5 @37483 has 14 MA's), (9, 37438), (10, 37426), (11, 37423), (13, 37414), (14, 37408), (17, 37363),

Gene: Pioneer3_60 Start: 37723, Stop: 37550, Start Num: 7
Candidate Starts for Pioneer3_60:
(Start: 7 @37723 has 6 MA's), (8, 37690), (17, 37612), (19, 37591),

Gene: Platte_60 Start: 37673, Stop: 37500, Start Num: 7
Candidate Starts for Platte_60:
(Start: 7 @37673 has 6 MA's), (8, 37640), (17, 37562), (19, 37541),

Gene: Roman_64 Start: 37946, Stop: 37764, Start Num: 5
Candidate Starts for Roman_64:
(Start: 5 @37946 has 14 MA's), (9, 37901), (10, 37889), (11, 37886), (13, 37877), (14, 37871), (17, 37826),

Gene: RunningBrook_71 Start: 38800, Stop: 38591, Start Num: 5
Candidate Starts for RunningBrook_71:
(4, 38830), (Start: 5 @38800 has 14 MA's), (Start: 6 @38797 has 2 MA's), (12, 38719), (13, 38716), (14, 38710), (15, 38686), (16, 38668), (17, 38656),

Gene: StevieWelch_68 Start: 37832, Stop: 37623, Start Num: 5
Candidate Starts for StevieWelch_68:
(4, 37862), (Start: 5 @37832 has 14 MA's), (Start: 6 @37829 has 2 MA's), (12, 37751), (13, 37748), (14, 37742), (15, 37718), (16, 37700), (17, 37688), (20, 37640),

Gene: Tandem_60 Start: 37821, Stop: 37648, Start Num: 7
Candidate Starts for Tandem_60:
(Start: 7 @37821 has 6 MA's), (8, 37788), (17, 37710), (19, 37689),

Gene: Welcome_69 Start: 38192, Stop: 37983, Start Num: 5
Candidate Starts for Welcome_69:
(4, 38222), (Start: 5 @38192 has 14 MA's), (Start: 6 @38189 has 2 MA's), (12, 38111), (13, 38108), (14, 38102), (15, 38078), (16, 38060), (17, 38048), (20, 38000),

Gene: Wolfstar_65 Start: 38986, Stop: 38810, Start Num: 7
Candidate Starts for Wolfstar_65:
(Start: 7 @38986 has 6 MA's), (11, 38926),

Gene: Yuma_67 Start: 37761, Stop: 37552, Start Num: 5
Candidate Starts for Yuma_67:

(4, 37791), (Start: 5 @37761 has 14 MA's), (Start: 6 @37758 has 2 MA's), (12, 37680), (13, 37677), (14, 37671), (15, 37647), (16, 37629), (17, 37617),