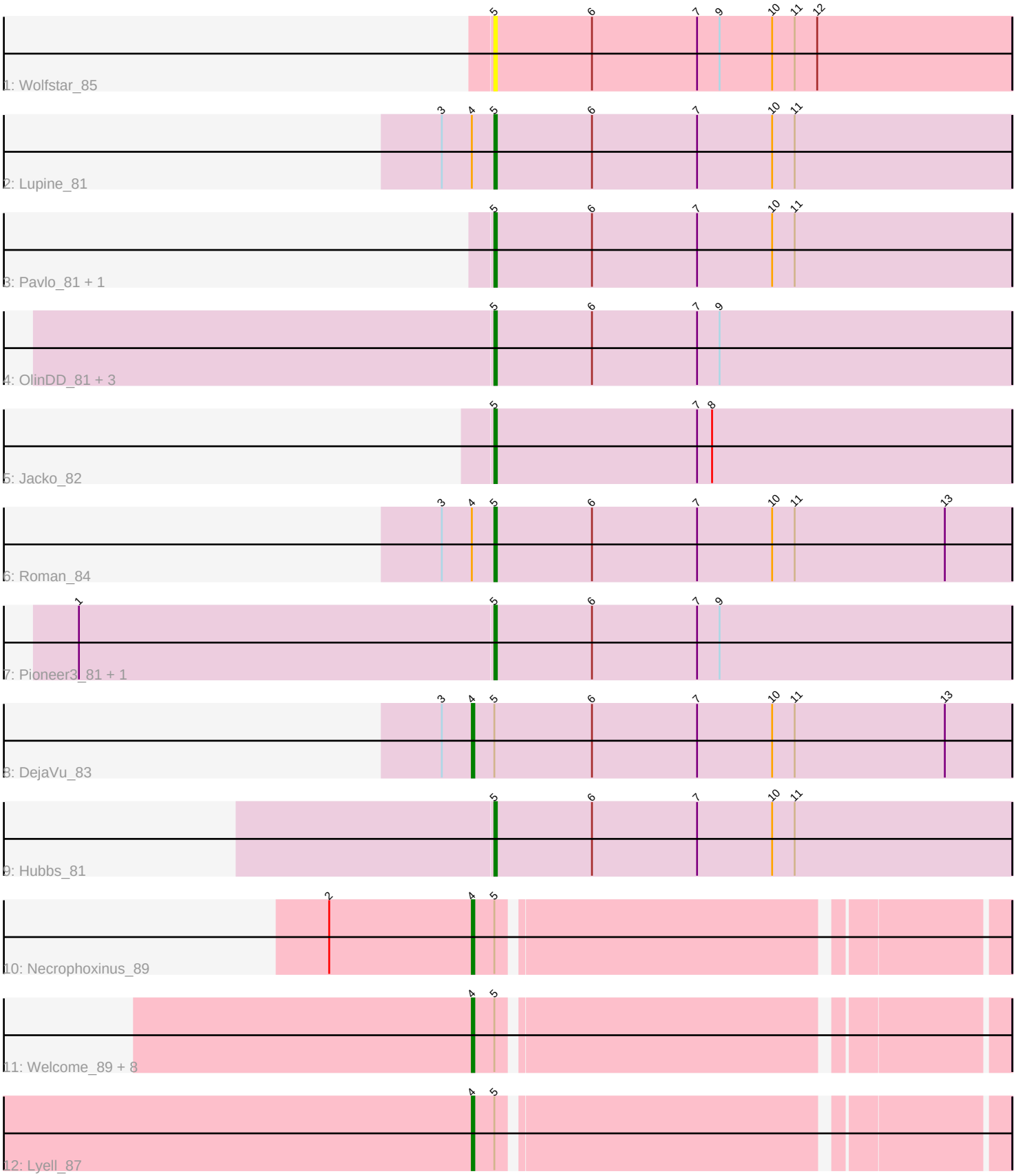
Pham 3420


1: Wolfstar_85
2: Lupine_81
3: Pavlo_81 + 1
4: OlinDD_81 + 3
5: Jacko_82
6: Roman_84
7: Pioneer3_81 + 1
8: DejaVu_83
9: Hubbs_81
10: Necrophoxinus_89
11: Welcome_89 + 8
12: Lyell_87

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 3420 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 3420 has 25 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Wolfstar_85
• Track 2 : Lupine_81
• Track 3 : Pavlo_81, PhillyPhilly_80
• Track 4 : OlinDD_81, Hortus1_81, Tandem_81, Alleb_79
• Track 5 : Jacko_82
• Track 6 : Roman_84
• Track 7 : Pioneer3_81, Platte_80
• Track 8 : DejaVu_83
• Track 9 : Hubbs_81
• Track 10 : Necrophoxinus_89
• Track 11 : Welcome_89, DustyDino_91, Yuma_86, Fork_83, ASegato_85, Musetta_86, RunningBrook_90, Erenyeager_87, StevieWelch_88
• Track 12 : Lyell_87

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 12 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alleb_79, Hortus1_81, Hubbs_81, Jacko_82, Lupine_81, OlinDD_81, Pavlo_81, PhillyPhilly_80, Pioneer3_81, Platte_80, Roman_84, Tandem_81, Wolfstar_85,

Genes that have the "Most Annotated" start but do not call it:
• ASegato_85, DejaVu_83, DustyDino_91, Erenyeager_87, Fork_83, Lyell_87, Musetta_86, Necrophoxinus_89, RunningBrook_90, StevieWelch_88, Welcome_89, Yuma_86,

Genes that do not have the "Most Annotated" start:
•

Summary by start number:

Start 4:
• Found in 14 of 25 (56.0%) of genes in pham
• Manual Annotations of this start: 10 of 22
• Called 85.7% of time when present
• Phage (with cluster) where this start called: ASegato_85 (ED2), DejaVu_83 (ED1), DustyDino_91 (ED2), Erenyeager_87 (ED2), Fork_83 (ED2), Lyell_87 (ED2), Musetta_86 (ED2), Necrophoxinus_89 (ED2), RunningBrook_90 (ED2), StevieWelch_88 (ED2), Welcome_89 (ED2), Yuma_86 (ED2),

Start 5:
• Found in 25 of 25 (100.0%) of genes in pham
• Manual Annotations of this start: 12 of 22
• Called 52.0% of time when present
• Phage (with cluster) where this start called: Alleb_79 (ED1), Hortus1_81 (ED1), Hubbs_81 (ED1), Jacko_82 (ED1), Lupine_81 (ED1), OlinDD_81 (ED1), Pavlo_81 (ED1), PhillyPhilly_80 (ED1), Pioneer3_81 (ED1), Platte_80 (ED1), Roman_84 (ED1), Tandem_81 (ED1), Wolfstar_85 (ED),

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 1 time for cluster ED1.
•Start number 5 was manually annotated 12 times for cluster ED1.

Info for manual annotations of cluster ED2:
•Start number 4 was manually annotated 9 times for cluster ED2.

Gene Information:

Gene: ASegato_85 Start: 50336, Stop: 50139, Start Num: 4
Candidate Starts for ASegato_85:
(Start: 4 @50336 has 10 MA's), (Start: 5 @50327 has 12 MA's),

Gene: Alleb_79 Start: 49811, Stop: 49605, Start Num: 5
Candidate Starts for Alleb_79:
(Start: 5 @49811 has 12 MA's), (6, 49772), (7, 49730), (9, 49721),

Gene: DejaVu_83 Start: 50048, Stop: 49833, Start Num: 4
Candidate Starts for DejaVu_83:
(3, 50060), (Start: 4 @50048 has 10 MA's), (Start: 5 @50039 has 12 MA's), (6, 50000), (7, 49958), (10, 49928), (11, 49919), (13, 49859),

Gene: DustyDino_91 Start: 51475, Stop: 51278, Start Num: 4
Candidate Starts for DustyDino_91:
(Start: 4 @51475 has 10 MA's), (Start: 5 @51466 has 12 MA's),

Gene: Erenyeager_87 Start: 50264, Stop: 50067, Start Num: 4
Candidate Starts for Erenyeager_87:
(Start: 4 @50264 has 10 MA's), (Start: 5 @50255 has 12 MA's),

Gene: Fork_83 Start: 50214, Stop: 50017, Start Num: 4
Candidate Starts for Fork_83:
(Start: 4 @50214 has 10 MA's), (Start: 5 @50205 has 12 MA's),

Gene: Hortus1_81 Start: 50385, Stop: 50179, Start Num: 5
Candidate Starts for Hortus1_81:
(Start: 5 @50385 has 12 MA's), (6, 50346), (7, 50304), (9, 50295),

Gene: Hubbs_81 Start: 50243, Stop: 50037, Start Num: 5
Candidate Starts for Hubbs_81:
(Start: 5 @50243 has 12 MA's), (6, 50204), (7, 50162), (10, 50132), (11, 50123),

Gene: Jacko_82 Start: 49205, Stop: 48999, Start Num: 5
Candidate Starts for Jacko_82:
(Start: 5 @49205 has 12 MA's), (7, 49124), (8, 49118),

Gene: Lupine_81 Start: 50152, Stop: 49946, Start Num: 5
Candidate Starts for Lupine_81:
(3, 50173), (Start: 4 @50161 has 10 MA's), (Start: 5 @50152 has 12 MA's), (6, 50113), (7, 50071), (10, 50041), (11, 50032),

Gene: Lyell_87 Start: 50425, Stop: 50228, Start Num: 4
Candidate Starts for Lyell_87:
(Start: 4 @50425 has 10 MA's), (Start: 5 @50416 has 12 MA's),

Gene: Musetta_86 Start: 50764, Stop: 50567, Start Num: 4
Candidate Starts for Musetta_86:
(Start: 4 @50764 has 10 MA's), (Start: 5 @50755 has 12 MA's),

Gene: Necrophoxinus_89 Start: 51111, Stop: 50914, Start Num: 4
Candidate Starts for Necrophoxinus_89:
(2, 51168), (Start: 4 @51111 has 10 MA's), (Start: 5 @51102 has 12 MA's),

Gene: OlinDD_81 Start: 50390, Stop: 50184, Start Num: 5
Candidate Starts for OlinDD_81:
(Start: 5 @50390 has 12 MA's), (6, 50351), (7, 50309), (9, 50300),

Gene: Pavlo_81 Start: 50122, Stop: 49916, Start Num: 5
Candidate Starts for Pavlo_81:
(Start: 5 @50122 has 12 MA's), (6, 50083), (7, 50041), (10, 50011), (11, 50002),

Gene: PhillyPhilly_80 Start: 49659, Stop: 49453, Start Num: 5
Candidate Starts for PhillyPhilly_80:
(Start: 5 @49659 has 12 MA's), (6, 49620), (7, 49578), (10, 49548), (11, 49539),

Gene: Pioneer3_81 Start: 50188, Stop: 49982, Start Num: 5
Candidate Starts for Pioneer3_81:
(1, 50353), (Start: 5 @50188 has 12 MA's), (6, 50149), (7, 50107), (9, 50098),

Gene: Platte_80 Start: 49956, Stop: 49750, Start Num: 5
Candidate Starts for Platte_80:
(1, 50121), (Start: 5 @49956 has 12 MA's), (6, 49917), (7, 49875), (9, 49866),

Gene: Roman_84 Start: 50753, Stop: 50547, Start Num: 5
Candidate Starts for Roman_84:
(3, 50774), (Start: 4 @50762 has 10 MA's), (Start: 5 @50753 has 12 MA's), (6, 50714), (7, 50672), (10, 50642), (11, 50633), (13, 50573),

Gene: RunningBrook_90 Start: 51475, Stop: 51278, Start Num: 4
Candidate Starts for RunningBrook_90:
(Start: 4 @51475 has 10 MA's), (Start: 5 @51466 has 12 MA's),

Gene: StevieWelch_88 Start: 50568, Stop: 50371, Start Num: 4
Candidate Starts for StevieWelch_88:
(Start: 4 @50568 has 10 MA's), (Start: 5 @50559 has 12 MA's),

Gene: Tandem_81 Start: 50268, Stop: 50062, Start Num: 5
Candidate Starts for Tandem_81:
(Start: 5 @50268 has 12 MA's), (6, 50229), (7, 50187), (9, 50178),

Gene: Welcome_89 Start: 50927, Stop: 50730, Start Num: 4
Candidate Starts for Welcome_89:
(Start: 4 @50927 has 10 MA's), (Start: 5 @50918 has 12 MA's),

Gene: Wolfstar_85 Start: 51601, Stop: 51395, Start Num: 5
Candidate Starts for Wolfstar_85:
(Start: 5 @51601 has 12 MA's), (6, 51562), (7, 51520), (9, 51511), (10, 51490), (11, 51481), (12, 51472),

Gene: Yuma_86 Start: 50436, Stop: 50239, Start Num: 4
Candidate Starts for Yuma_86:
(Start: 4 @50436 has 10 MA's), (Start: 5 @50427 has 12 MA's),