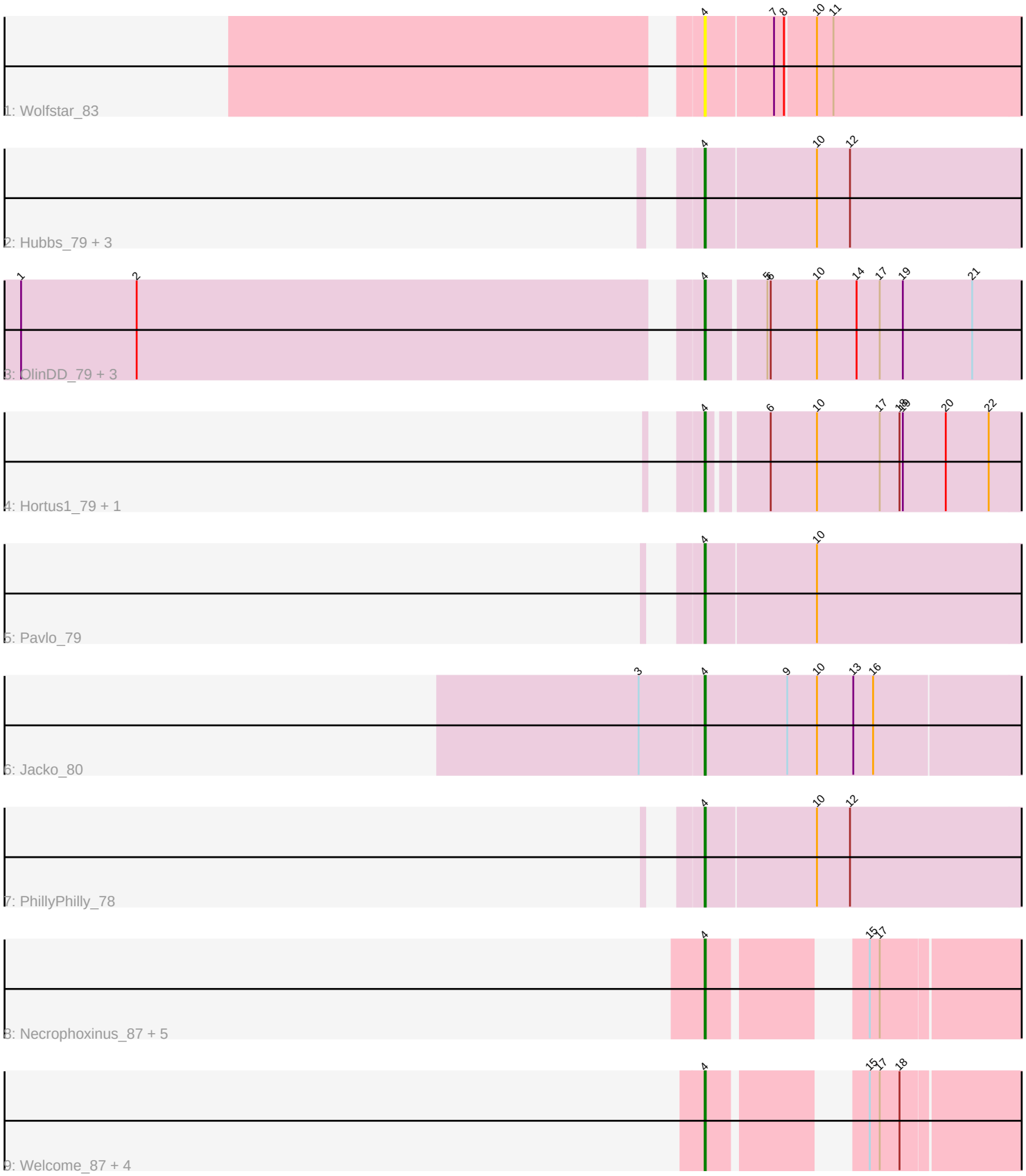
Pham 3455


1: Wolfstar_83
2: Hubbs_79 + 3
3: OlinDD_79 + 3
4: Hortus1_79 + 1
5: Pavlo_79
6: Jacko_80
7: PhillyPhilly_78
8: Necrophoxinus_87 + 5
9: Welcome_87 + 4

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 3455 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 3455 has 25 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Wolfstar_83
• Track 2 : Hubbs_79, Lupine_79, Roman_82, DejaVu_81
• Track 3 : OlinDD_79, Tandem_79, Pioneer3_79, Platte_78
• Track 4 : Hortus1_79, Alleb_77
• Track 5 : Pavlo_79
• Track 6 : Jacko_80
• Track 7 : PhillyPhilly_78
• Track 8 : Necrophoxinus_87, ASegato_83, Lyell_85, Erenyeager_85, Fork_81, StevieWelch_86
• Track 9 : Welcome_87, DustyDino_89, Yuma_84, Musetta_84, RunningBrook_88

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

The start number called the most often in the published annotations is 4, it was called in 22 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ASegato_83, Alleb_77, DejaVu_81, DustyDino_89, Erenyeager_85, Fork_81, Hortus1_79, Hubbs_79, Jacko_80, Lupine_79, Lyell_85, Musetta_84, Necrophoxinus_87, OlinDD_79, Pavlo_79, PhillyPhilly_78, Pioneer3_79, Platte_78, Roman_82, RunningBrook_88, StevieWelch_86, Tandem_79, Welcome_87, Wolfstar_83, Yuma_84,

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 4:
• Found in 25 of 25 (100.0%) of genes in pham
• Manual Annotations of this start: 22 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ASegato_83 (ED2), Alleb_77 (ED1), DejaVu_81 (ED1), DustyDino_89 (ED2), Erenyeager_85 (ED2), Fork_81 (ED2), Hortus1_79 (ED1), Hubbs_79 (ED1), Jacko_80 (ED1), Lupine_79 (ED1), Lyell_85 (ED2), Musetta_84 (ED2), Necrophoxinus_87 (ED2), OlinDD_79 (ED1), Pavlo_79 (ED1), PhillyPhilly_78 (ED1), Pioneer3_79 (ED1), Platte_78 (ED1), Roman_82 (ED1), RunningBrook_88 (ED2), StevieWelch_86 (ED2), Tandem_79 (ED1), Welcome_87 (ED2), Wolfstar_83 (ED), Yuma_84 (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 13 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_83 Start: 49898, Stop: 49647, Start Num: 4
Candidate Starts for ASegato_83:
(Start: 4 @49898 has 22 MA's), (15, 49793), (17, 49784),

Gene: Alleb_77 Start: 49359, Stop: 49066, Start Num: 4
Candidate Starts for Alleb_77:
(Start: 4 @49359 has 22 MA's), (6, 49311), (10, 49269), (17, 49212), (18, 49194), (19, 49191), (20, 49152), (22, 49113),

Gene: DejaVu_81 Start: 49600, Stop: 49298, Start Num: 4
Candidate Starts for DejaVu_81:
(Start: 4 @49600 has 22 MA's), (10, 49501), (12, 49471),

Gene: DustyDino_89 Start: 51038, Stop: 50787, Start Num: 4
Candidate Starts for DustyDino_89:
(Start: 4 @51038 has 22 MA's), (15, 50933), (17, 50924), (18, 50906),

Gene: Erenyeager_85 Start: 49826, Stop: 49575, Start Num: 4
Candidate Starts for Erenyeager_85:
(Start: 4 @49826 has 22 MA's), (15, 49721), (17, 49712),

Gene: Fork_81 Start: 49776, Stop: 49525, Start Num: 4
Candidate Starts for Fork_81:
(Start: 4 @49776 has 22 MA's), (15, 49671), (17, 49662),

Gene: Hortus1_79 Start: 49933, Stop: 49640, Start Num: 4
Candidate Starts for Hortus1_79:
(Start: 4 @49933 has 22 MA's), (6, 49885), (10, 49843), (17, 49786), (18, 49768), (19, 49765), (20, 49726), (22, 49687),

Gene: Hubbs_79 Start: 49804, Stop: 49502, Start Num: 4
Candidate Starts for Hubbs_79:
(Start: 4 @49804 has 22 MA's), (10, 49705), (12, 49675),

Gene: Jacko_80 Start: 48758, Stop: 48474, Start Num: 4
Candidate Starts for Jacko_80:
(3, 48815), (Start: 4 @48758 has 22 MA's), (9, 48683), (10, 48656), (13, 48623), (16, 48605),

Gene: Lupine_79 Start: 49713, Stop: 49411, Start Num: 4
Candidate Starts for Lupine_79:
(Start: 4 @49713 has 22 MA's), (10, 49614), (12, 49584),

Gene: Lyell_85 Start: 49987, Stop: 49736, Start Num: 4
Candidate Starts for Lyell_85:
(Start: 4 @49987 has 22 MA's), (15, 49882), (17, 49873),

Gene: Musetta_84 Start: 50327, Stop: 50076, Start Num: 4
Candidate Starts for Musetta_84:
(Start: 4 @50327 has 22 MA's), (15, 50222), (17, 50213), (18, 50195),

Gene: Necrophoxinus_87 Start: 50673, Stop: 50422, Start Num: 4
Candidate Starts for Necrophoxinus_87:
(Start: 4 @50673 has 22 MA's), (15, 50568), (17, 50559),

Gene: OlinDD_79 Start: 49938, Stop: 49639, Start Num: 4
Candidate Starts for OlinDD_79:
(1, 50529), (2, 50424), (Start: 4 @49938 has 22 MA's), (5, 49887), (6, 49884), (10, 49842), (14, 49806), (17, 49785), (19, 49764), (21, 49701),

Gene: Pavlo_79 Start: 49659, Stop: 49357, Start Num: 4
Candidate Starts for Pavlo_79:
(Start: 4 @49659 has 22 MA's), (10, 49560),

Gene: PhillyPhilly_78 Start: 49196, Stop: 48894, Start Num: 4
Candidate Starts for PhillyPhilly_78:
(Start: 4 @49196 has 22 MA's), (10, 49097), (12, 49067),

Gene: Pioneer3_79 Start: 49736, Stop: 49437, Start Num: 4
Candidate Starts for Pioneer3_79:
(1, 50327), (2, 50222), (Start: 4 @49736 has 22 MA's), (5, 49685), (6, 49682), (10, 49640), (14, 49604), (17, 49583), (19, 49562), (21, 49499),

Gene: Platte_78 Start: 49504, Stop: 49205, Start Num: 4
Candidate Starts for Platte_78:
(1, 50095), (2, 49990), (Start: 4 @49504 has 22 MA's), (5, 49453), (6, 49450), (10, 49408), (14, 49372), (17, 49351), (19, 49330), (21, 49267),

Gene: Roman_82 Start: 50314, Stop: 50012, Start Num: 4

Candidate Starts for Roman_82:
(Start: 4 @50314 has 22 MA's), (10, 50215), (12, 50185),

Gene: RunningBrook_88 Start: 51038, Stop: 50787, Start Num: 4
Candidate Starts for RunningBrook_88:
(Start: 4 @51038 has 22 MA's), (15, 50933), (17, 50924), (18, 50906),

Gene: StevieWelch_86 Start: 50130, Stop: 49879, Start Num: 4
Candidate Starts for StevieWelch_86:
(Start: 4 @50130 has 22 MA's), (15, 50025), (17, 50016),

Gene: Tandem_79 Start: 49816, Stop: 49517, Start Num: 4
Candidate Starts for Tandem_79:
(1, 50407), (2, 50302), (Start: 4 @49816 has 22 MA's), (5, 49765), (6, 49762), (10, 49720), (14, 49684), (17, 49663), (19, 49642), (21, 49579),

Gene: Welcome_87 Start: 50490, Stop: 50239, Start Num: 4
Candidate Starts for Welcome_87:
(Start: 4 @50490 has 22 MA's), (15, 50385), (17, 50376), (18, 50358),

Gene: Wolfstar_83 Start: 51149, Stop: 50850, Start Num: 4
Candidate Starts for Wolfstar_83:
(Start: 4 @51149 has 22 MA's), (7, 51089), (8, 51080), (10, 51053), (11, 51038),

Gene: Yuma_84 Start: 49999, Stop: 49748, Start Num: 4
Candidate Starts for Yuma_84:
(Start: 4 @49999 has 22 MA's), (15, 49894), (17, 49885), (18, 49867),