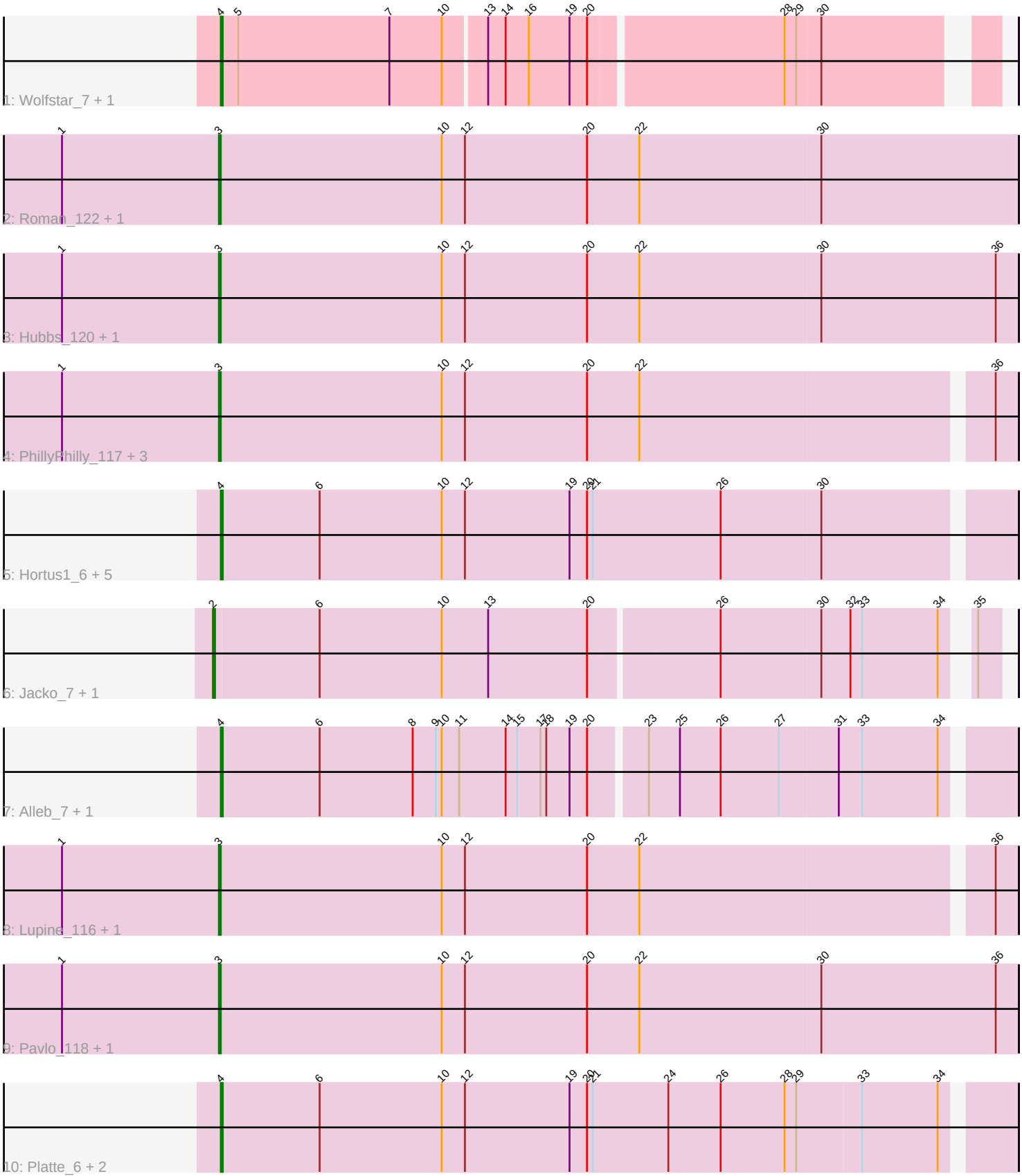
Pham 183911


1: Wolfstar_7 + 1
2: Roman_122 + 1
3: Hubbs_120 + 1
4: PhillyPhilly_117 + 3
5: Hortus1_6 + 5
6: Jacko_7 + 1
7: Alleb_7 + 1
8: Lupine_116 + 1
9: Pavlo_118 + 1
10: Platte_6 + 2

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 183911 Report

This analysis was run 11/02/24 on database version 579.

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 183911 has 27 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Wolfstar_7, Wolfstar_123
• Track 2 : Roman_122, Roman_6
• Track 3 : Hubbs_120, Hubbs_6
• Track 4 : PhillyPhilly_117, DejaVu_6, PhillyPhilly_7, DejaVu_122
• Track 5 : Hortus1_6, Pioneer3_6, OlinDD_117, Hortus1_117, Pioneer3_117, OlinDD_6
• Track 6 : Jacko_7, Jacko_116
• Track 7 : Alleb_7, Alleb_115
• Track 8 : Lupine_116, Lupine_6
• Track 9 : Pavlo_118, Pavlo_6
• Track 10 : Platte_6, Tandem_6, Tandem_117

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 13 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alleb_115, Alleb_7, Hortus1_117, Hortus1_6, OlinDD_117, OlinDD_6, Pioneer3_117, Pioneer3_6, Platte_6, Tandem_117, Tandem_6, Wolfstar_123, Wolfstar_7,

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

Genes that do not have the "Most Annotated" start:
• DejaVu_122, DejaVu_6, Hubbs_120, Hubbs_6, Jacko_116, Jacko_7, Lupine_116, Lupine_6, Pavlo_118, Pavlo_6, PhillyPhilly_117, PhillyPhilly_7, Roman_122, Roman_6,

Summary by start number:

Start 2:
• Found in 2 of 27 (7.4%) of genes in pham
• Manual Annotations of this start: 2 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jacko_116 (ED1), Jacko_7 (ED1),

Start 3:
• Found in 12 of 27 (44.4%) of genes in pham
• Manual Annotations of this start: 12 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DejaVu_122 (ED1), DejaVu_6 (ED1), Hubbs_120 (ED1), Hubbs_6 (ED1), Lupine_116 (ED1), Lupine_6 (ED1), Pavlo_118 (ED1), Pavlo_6 (ED1), PhillyPhilly_117 (ED1), PhillyPhilly_7 (ED1), Roman_122 (ED1), Roman_6 (ED1),

Start 4:
• Found in 13 of 27 (48.1%) of genes in pham
• Manual Annotations of this start: 13 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alleb_115 (ED1), Alleb_7 (ED1), Hortus1_117 (ED1), Hortus1_6 (ED1), OlinDD_117 (ED1), OlinDD_6 (ED1), Pioneer3_117 (ED1), Pioneer3_6 (ED1), Platte_6 (ED1), Tandem_117 (ED1), Tandem_6 (ED1), Wolfstar_123 (ED), Wolfstar_7 (ED),

Summary by clusters:

There are 2 clusters represented in this pham: ED, ED1,

Info for manual annotations of cluster ED:
•Start number 4 was manually annotated 2 times for cluster ED.

Info for manual annotations of cluster ED1:
•Start number 2 was manually annotated 2 times for cluster ED1.
•Start number 3 was manually annotated 12 times for cluster ED1.
•Start number 4 was manually annotated 11 times for cluster ED1.

Gene Information:

Gene: Alleb_7 Start: 2777, Stop: 2382, Start Num: 4
Candidate Starts for Alleb_7:
(Start: 4 @2777 has 13 MA's), (6, 2726), (8, 2678), (9, 2666), (10, 2663), (11, 2654), (14, 2630), (15, 2624), (17, 2612), (18, 2609), (19, 2597), (20, 2588), (23, 2561), (25, 2546), (26, 2525), (27, 2495), (31, 2465), (33, 2453), (34, 2414),

Gene: Alleb_115 Start: 62256, Stop: 61861, Start Num: 4
Candidate Starts for Alleb_115:
(Start: 4 @62256 has 13 MA's), (6, 62205), (8, 62157), (9, 62145), (10, 62142), (11, 62133), (14, 62109), (15, 62103), (17, 62091), (18, 62088), (19, 62076), (20, 62067), (23, 62040), (25, 62025), (26, 62004), (27, 61974), (31, 61944), (33, 61932), (34, 61893),

Gene: DejaVu_6 Start: 2530, Stop: 2129, Start Num: 3
Candidate Starts for DejaVu_6:
(1, 2611), (Start: 3 @2530 has 12 MA's), (10, 2416), (12, 2404), (20, 2341), (22, 2314), (36, 2140),

Gene: DejaVu_122 Start: 62910, Stop: 62509, Start Num: 3
Candidate Starts for DejaVu_122:
(1, 62991), (Start: 3 @62910 has 12 MA's), (10, 62796), (12, 62784), (20, 62721), (22, 62694), (36, 62520),

Gene: Hortus1_6 Start: 2730, Stop: 2329, Start Num: 4
Candidate Starts for Hortus1_6:
(Start: 4 @2730 has 13 MA's), (6, 2679), (10, 2616), (12, 2604), (19, 2550), (20, 2541), (21, 2538), (26, 2472), (30, 2421),

Gene: Hortus1_117 Start: 62690, Stop: 62289, Start Num: 4
Candidate Starts for Hortus1_117:
(Start: 4 @62690 has 13 MA's), (6, 62639), (10, 62576), (12, 62564), (19, 62510), (20, 62501), (21, 62498), (26, 62432), (30, 62381),

Gene: Hubbs_120 Start: 63433, Stop: 63023, Start Num: 3
Candidate Starts for Hubbs_120:
(1, 63514), (Start: 3 @63433 has 12 MA's), (10, 63319), (12, 63307), (20, 63244), (22, 63217), (30, 63124), (36, 63034),

Gene: Hubbs_6 Start: 3034, Stop: 2624, Start Num: 3
Candidate Starts for Hubbs_6:
(1, 3115), (Start: 3 @3034 has 12 MA's), (10, 2920), (12, 2908), (20, 2845), (22, 2818), (30, 2725), (36, 2635),

Gene: Jacko_7 Start: 2600, Stop: 2214, Start Num: 2
Candidate Starts for Jacko_7:
(Start: 2 @2600 has 2 MA's), (6, 2546), (10, 2483), (13, 2459), (20, 2408), (26, 2345), (30, 2294), (32, 2279), (33, 2273), (34, 2234), (35, 2225),

Gene: Jacko_116 Start: 60993, Stop: 60607, Start Num: 2
Candidate Starts for Jacko_116:
(Start: 2 @60993 has 2 MA's), (6, 60939), (10, 60876), (13, 60852), (20, 60801), (26, 60738), (30, 60687), (32, 60672), (33, 60666), (34, 60627), (35, 60618),

Gene: Lupine_116 Start: 62104, Stop: 61703, Start Num: 3
Candidate Starts for Lupine_116:
(1, 62185), (Start: 3 @62104 has 12 MA's), (10, 61990), (12, 61978), (20, 61915), (22, 61888), (36, 61714),

Gene: Lupine_6 Start: 2831, Stop: 2430, Start Num: 3
Candidate Starts for Lupine_6:
(1, 2912), (Start: 3 @2831 has 12 MA's), (10, 2717), (12, 2705), (20, 2642), (22, 2615), (36, 2441),

Gene: OlinDD_117 Start: 62695, Stop: 62294, Start Num: 4
Candidate Starts for OlinDD_117:
(Start: 4 @62695 has 13 MA's), (6, 62644), (10, 62581), (12, 62569), (19, 62515), (20, 62506), (21, 62503), (26, 62437), (30, 62386),

Gene: OlinDD_6 Start: 2730, Stop: 2329, Start Num: 4
Candidate Starts for OlinDD_6:
(Start: 4 @2730 has 13 MA's), (6, 2679), (10, 2616), (12, 2604), (19, 2550), (20, 2541), (21, 2538), (26, 2472), (30, 2421),

Gene: Pavlo_118 Start: 63181, Stop: 62771, Start Num: 3
Candidate Starts for Pavlo_118:
(1, 63262), (Start: 3 @63181 has 12 MA's), (10, 63067), (12, 63055), (20, 62992), (22, 62965), (30, 62872), (36, 62782),

Gene: Pavlo_6 Start: 2925, Stop: 2515, Start Num: 3
Candidate Starts for Pavlo_6:
(1, 3006), (Start: 3 @2925 has 12 MA's), (10, 2811), (12, 2799), (20, 2736), (22, 2709), (30, 2616), (36, 2526),

Gene: PhillyPhilly_117 Start: 62440, Stop: 62039, Start Num: 3
Candidate Starts for PhillyPhilly_117:
(1, 62521), (Start: 3 @62440 has 12 MA's), (10, 62326), (12, 62314), (20, 62251), (22, 62224), (36, 62050),

Gene: PhillyPhilly_7 Start: 2951, Stop: 2550, Start Num: 3
Candidate Starts for PhillyPhilly_7:
(1, 3032), (Start: 3 @2951 has 12 MA's), (10, 2837), (12, 2825), (20, 2762), (22, 2735), (36, 2561),

Gene: Pioneer3_6 Start: 2763, Stop: 2362, Start Num: 4
Candidate Starts for Pioneer3_6:
(Start: 4 @2763 has 13 MA's), (6, 2712), (10, 2649), (12, 2637), (19, 2583), (20, 2574), (21, 2571), (26, 2505), (30, 2454),

Gene: Pioneer3_117 Start: 62526, Stop: 62125, Start Num: 4
Candidate Starts for Pioneer3_117:
(Start: 4 @62526 has 13 MA's), (6, 62475), (10, 62412), (12, 62400), (19, 62346), (20, 62337), (21, 62334), (26, 62268), (30, 62217),

Gene: Platte_6 Start: 2752, Stop: 2351, Start Num: 4
Candidate Starts for Platte_6:
(Start: 4 @2752 has 13 MA's), (6, 2701), (10, 2638), (12, 2626), (19, 2572), (20, 2563), (21, 2560), (24, 2521), (26, 2494), (28, 2461), (29, 2455), (33, 2422), (34, 2383),

Gene: Roman_122 Start: 63830, Stop: 63420, Start Num: 3
Candidate Starts for Roman_122:
(1, 63911), (Start: 3 @63830 has 12 MA's), (10, 63716), (12, 63704), (20, 63641), (22, 63614), (30, 63521),

Gene: Roman_6 Start: 2743, Stop: 2333, Start Num: 3
Candidate Starts for Roman_6:
(1, 2824), (Start: 3 @2743 has 12 MA's), (10, 2629), (12, 2617), (20, 2554), (22, 2527), (30, 2434),

Gene: Tandem_6 Start: 2857, Stop: 2456, Start Num: 4
Candidate Starts for Tandem_6:
(Start: 4 @2857 has 13 MA's), (6, 2806), (10, 2743), (12, 2731), (19, 2677), (20, 2668), (21, 2665), (24, 2626), (26, 2599), (28, 2566), (29, 2560), (33, 2527), (34, 2488),

Gene: Tandem_117 Start: 62700, Stop: 62299, Start Num: 4
Candidate Starts for Tandem_117:
(Start: 4 @62700 has 13 MA's), (6, 62649), (10, 62586), (12, 62574), (19, 62520), (20, 62511), (21, 62508), (24, 62469), (26, 62442), (28, 62409), (29, 62403), (33, 62370), (34, 62331),

Gene: Wolfstar_7 Start: 3322, Stop: 2945, Start Num: 4
Candidate Starts for Wolfstar_7:
(Start: 4 @3322 has 13 MA's), (5, 3313), (7, 3235), (10, 3208), (13, 3187), (14, 3178), (16, 3166), (19, 3145), (20, 3136), (28, 3040), (29, 3034), (30, 3022),

Gene: Wolfstar_123 Start: 64463, Stop: 64086, Start Num: 4
Candidate Starts for Wolfstar_123:
(Start: 4 @64463 has 13 MA's), (5, 64454), (7, 64376), (10, 64349), (13, 64328), (14, 64319), (16, 64307), (19, 64286), (20, 64277), (28, 64181), (29, 64175), (30, 64163),