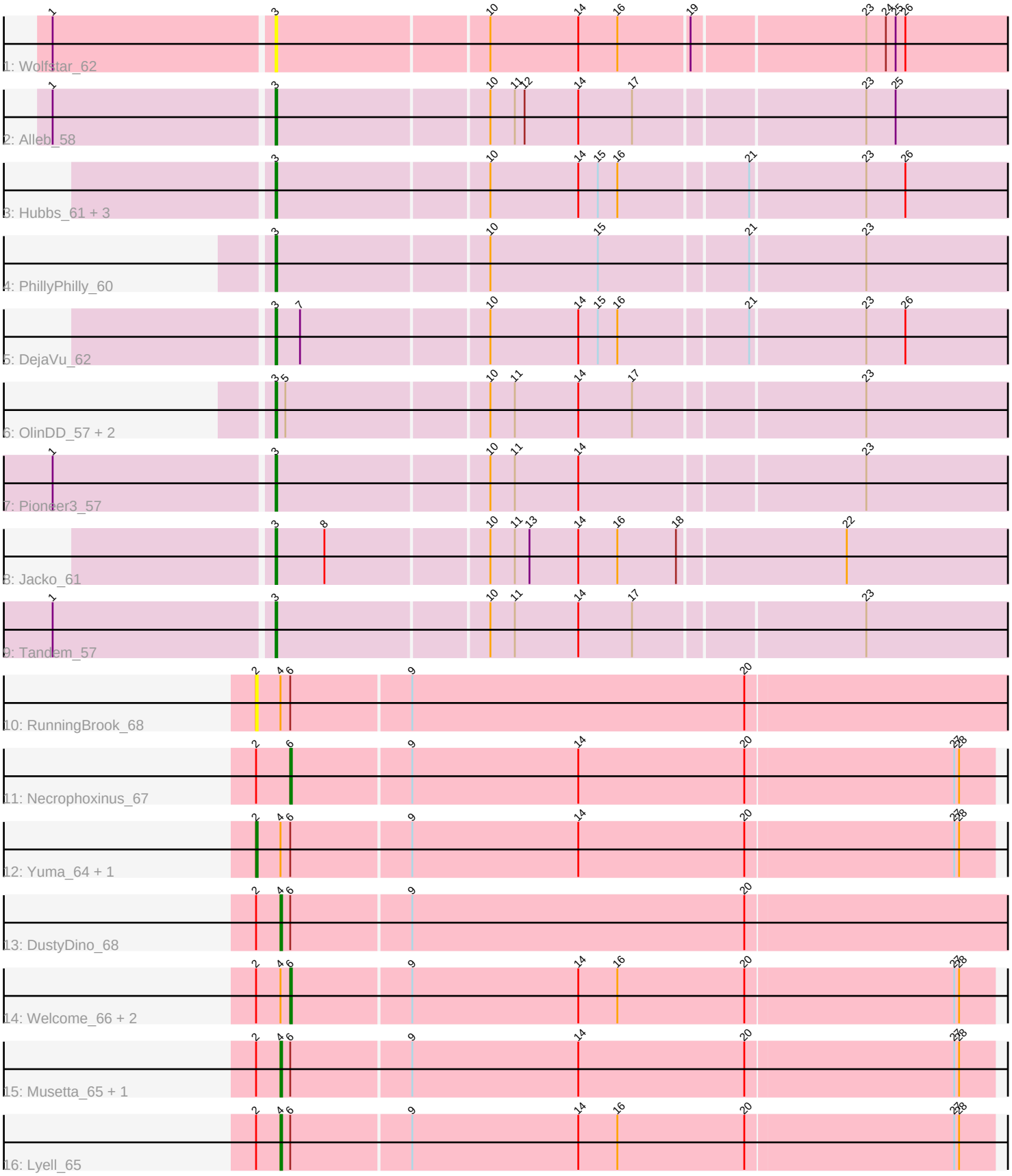
Pham 3547


1: Wolfstar_62
2: Alleb_58
3: Hubbs_61 + 3
4: PhillyPhilly_60
5: DejaVu_62
6: OlinDD_57 + 2
7: Pioneer3_57
8: Jacko_61
9: Tandem_57
10: RunningBrook_68
11: Necrophoxinus_67
12: Yuma_64 + 1
13: DustyDino_68
14: Welcome_66 + 2
15: Musetta_65 + 1
16: Lyell_65

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 3547 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 3547 has 25 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Wolfstar_62
• Track 2 : Alleb_58
• Track 3 : Hubbs_61, Lupine_59, Roman_61, Pavlo_60
• Track 4 : PhillyPhilly_60
• Track 5 : DejaVu_62
• Track 6 : OlinDD_57, Hortus1_57, Platte_57
• Track 7 : Pioneer3_57
• Track 8 : Jacko_61
• Track 9 : Tandem_57
• Track 10 : RunningBrook_68
• Track 11 : Necrophoxinus_67
• Track 12 : Yuma_64, ASegato_64
• Track 13 : DustyDino_68
• Track 14 : Welcome_66, Erenyeager_65, StevieWelch_65
• Track 15 : Musetta_65, Fork_61
• Track 16 : Lyell_65

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

The start number called the most often in the published annotations is 3, it was called in 13 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alleb_58, DejaVu_62, Hortus1_57, Hubbs_61, Jacko_61, Lupine_59, OlinDD_57, Pavlo_60, PhillyPhilly_60, Pioneer3_57, Platte_57, Roman_61, Tandem_57, Wolfstar_62,

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

Genes that do not have the "Most Annotated" start:
• ASegato_64, DustyDino_68, Erenyeager_65, Fork_61, Lyell_65, Musetta_65, Necrophoxinus_67, RunningBrook_68, StevieWelch_65, Welcome_66, Yuma_64,

Summary by start number:

Start 2:
• Found in 11 of 25 (44.0%) of genes in pham
• Manual Annotations of this start: 2 of 22
• Called 27.3% of time when present
• Phage (with cluster) where this start called: ASegato_64 (ED2), RunningBrook_68 (ED2), Yuma_64 (ED2),

Start 3:
• Found in 14 of 25 (56.0%) of genes in pham
• Manual Annotations of this start: 13 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alleb_58 (ED1), DejaVu_62 (ED1), Hortus1_57 (ED1), Hubbs_61 (ED1), Jacko_61 (ED1), Lupine_59 (ED1), OlinDD_57 (ED1), Pavlo_60 (ED1), PhillyPhilly_60 (ED1), Pioneer3_57 (ED1), Platte_57 (ED1), Roman_61 (ED1), Tandem_57 (ED1), Wolfstar_62 (ED),

Start 4:
• Found in 10 of 25 (40.0%) of genes in pham
• Manual Annotations of this start: 4 of 22
• Called 40.0% of time when present
• Phage (with cluster) where this start called: DustyDino_68 (ED2), Fork_61 (ED2), Lyell_65 (ED2), Musetta_65 (ED2),

Start 6:
• Found in 11 of 25 (44.0%) of genes in pham
• Manual Annotations of this start: 3 of 22
• Called 36.4% of time when present
• Phage (with cluster) where this start called: Erenyeager_65 (ED2), Necrophoxinus_67 (ED2), StevieWelch_65 (ED2), Welcome_66 (ED2),

Summary by clusters:

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

Info for manual annotations of cluster ED1:
•Start number 3 was manually annotated 13 times for cluster ED1.

Info for manual annotations of cluster ED2:
•Start number 2 was manually annotated 2 times for cluster ED2.
•Start number 4 was manually annotated 4 times for cluster ED2.
•Start number 6 was manually annotated 3 times for cluster ED2.

Gene Information:

Gene: ASegato_64 Start: 36670, Stop: 36224, Start Num: 2
Candidate Starts for ASegato_64:
(Start: 2 @36670 has 2 MA's), (Start: 4 @36655 has 4 MA's), (Start: 6 @36649 has 3 MA's), (9, 36577), (14, 36475), (20, 36373), (27, 36247), (28, 36244),

Gene: Alleb_58 Start: 36582, Stop: 36139, Start Num: 3
Candidate Starts for Alleb_58:
(1, 36714), (Start: 3 @36582 has 13 MA's), (10, 36456), (11, 36441), (12, 36435), (14, 36402), (17, 36369), (23, 36234), (25, 36216),

Gene: DejaVu_62 Start: 36569, Stop: 36126, Start Num: 3
Candidate Starts for DejaVu_62:
(Start: 3 @36569 has 13 MA's), (7, 36554), (10, 36443), (14, 36389), (15, 36377), (16, 36365), (21, 36290), (23, 36221), (26, 36197),

Gene: DustyDino_68 Start: 37618, Stop: 37178, Start Num: 4
Candidate Starts for DustyDino_68:
(Start: 2 @37633 has 2 MA's), (Start: 4 @37618 has 4 MA's), (Start: 6 @37612 has 3 MA's), (9, 37540), (20, 37336),

Gene: Erenyeager_65 Start: 36644, Stop: 36219, Start Num: 6
Candidate Starts for Erenyeager_65:
(Start: 2 @36665 has 2 MA's), (Start: 4 @36650 has 4 MA's), (Start: 6 @36644 has 3 MA's), (9, 36572), (14, 36470), (16, 36446), (20, 36368), (27, 36242), (28, 36239),

Gene: Fork_61 Start: 36305, Stop: 35874, Start Num: 4
Candidate Starts for Fork_61:
(Start: 2 @36320 has 2 MA's), (Start: 4 @36305 has 4 MA's), (Start: 6 @36299 has 3 MA's), (9, 36227), (14, 36125), (20, 36023), (27, 35897), (28, 35894),

Gene: Hortus1_57 Start: 36572, Stop: 36129, Start Num: 3
Candidate Starts for Hortus1_57:
(Start: 3 @36572 has 13 MA's), (5, 36566), (10, 36446), (11, 36431), (14, 36392), (17, 36359), (23, 36224),

Gene: Hubbs_61 Start: 36777, Stop: 36334, Start Num: 3
Candidate Starts for Hubbs_61:
(Start: 3 @36777 has 13 MA's), (10, 36651), (14, 36597), (15, 36585), (16, 36573), (21, 36498), (23, 36429), (26, 36405),

Gene: Jacko_61 Start: 35556, Stop: 35110, Start Num: 3
Candidate Starts for Jacko_61:
(Start: 3 @35556 has 13 MA's), (8, 35526), (10, 35430), (11, 35415), (13, 35406), (14, 35376), (16, 35352), (18, 35316), (22, 35217),

Gene: Lupine_59 Start: 35983, Stop: 35540, Start Num: 3
Candidate Starts for Lupine_59:
(Start: 3 @35983 has 13 MA's), (10, 35857), (14, 35803), (15, 35791), (16, 35779), (21, 35704), (23, 35635), (26, 35611),

Gene: Lyell_65 Start: 36564, Stop: 36133, Start Num: 4
Candidate Starts for Lyell_65:

(Start: 2 @36579 has 2 MA's), (Start: 4 @36564 has 4 MA's), (Start: 6 @36558 has 3 MA's), (9, 36486), (14, 36384), (16, 36360), (20, 36282), (27, 36156), (28, 36153),

Gene: Musetta_65 Start: 37025, Stop: 36594, Start Num: 4
Candidate Starts for Musetta_65:
(Start: 2 @37040 has 2 MA's), (Start: 4 @37025 has 4 MA's), (Start: 6 @37019 has 3 MA's), (9, 36947), (14, 36845), (20, 36743), (27, 36617), (28, 36614),

Gene: Necrophoxinus_67 Start: 37253, Stop: 36828, Start Num: 6
Candidate Starts for Necrophoxinus_67:
(Start: 2 @37274 has 2 MA's), (Start: 6 @37253 has 3 MA's), (9, 37181), (14, 37079), (20, 36977), (27, 36851), (28, 36848),

Gene: OlinDD_57 Start: 36571, Stop: 36128, Start Num: 3
Candidate Starts for OlinDD_57:
(Start: 3 @36571 has 13 MA's), (5, 36565), (10, 36445), (11, 36430), (14, 36391), (17, 36358), (23, 36223),

Gene: Pavlo_60 Start: 36628, Stop: 36185, Start Num: 3
Candidate Starts for Pavlo_60:
(Start: 3 @36628 has 13 MA's), (10, 36502), (14, 36448), (15, 36436), (16, 36424), (21, 36349), (23, 36280), (26, 36256),

Gene: PhillyPhilly_60 Start: 36162, Stop: 35719, Start Num: 3
Candidate Starts for PhillyPhilly_60:
(Start: 3 @36162 has 13 MA's), (10, 36036), (15, 35970), (21, 35883), (23, 35814),

Gene: Pioneer3_57 Start: 36579, Stop: 36136, Start Num: 3
Candidate Starts for Pioneer3_57:
(1, 36711), (Start: 3 @36579 has 13 MA's), (10, 36453), (11, 36438), (14, 36399), (23, 36231),

Gene: Platte_57 Start: 36364, Stop: 35921, Start Num: 3
Candidate Starts for Platte_57:
(Start: 3 @36364 has 13 MA's), (5, 36358), (10, 36238), (11, 36223), (14, 36184), (17, 36151), (23, 36016),

Gene: Roman_61 Start: 36625, Stop: 36182, Start Num: 3
Candidate Starts for Roman_61:
(Start: 3 @36625 has 13 MA's), (10, 36499), (14, 36445), (15, 36433), (16, 36421), (21, 36346), (23, 36277), (26, 36253),

Gene: RunningBrook_68 Start: 37633, Stop: 37178, Start Num: 2
Candidate Starts for RunningBrook_68:
(Start: 2 @37633 has 2 MA's), (Start: 4 @37618 has 4 MA's), (Start: 6 @37612 has 3 MA's), (9, 37540), (20, 37336),

Gene: StevieWelch_65 Start: 36644, Stop: 36219, Start Num: 6
Candidate Starts for StevieWelch_65:
(Start: 2 @36665 has 2 MA's), (Start: 4 @36650 has 4 MA's), (Start: 6 @36644 has 3 MA's), (9, 36572), (14, 36470), (16, 36446), (20, 36368), (27, 36242), (28, 36239),

Gene: Tandem_57 Start: 36518, Stop: 36075, Start Num: 3
Candidate Starts for Tandem_57:

(1, 36650), (Start: 3 @36518 has 13 MA's), (10, 36392), (11, 36377), (14, 36338), (17, 36305), (23, 36170),

Gene: Welcome_66 Start: 37004, Stop: 36579, Start Num: 6
Candidate Starts for Welcome_66:
(Start: 2 @37025 has 2 MA's), (Start: 4 @37010 has 4 MA's), (Start: 6 @37004 has 3 MA's), (9, 36932), (14, 36830), (16, 36806), (20, 36728), (27, 36602), (28, 36599),

Gene: Wolfstar_62 Start: 37671, Stop: 37219, Start Num: 3
Candidate Starts for Wolfstar_62:
(1, 37803), (Start: 3 @37671 has 13 MA's), (10, 37545), (14, 37491), (16, 37467), (19, 37425), (23, 37323), (24, 37311), (25, 37305), (26, 37299),

Gene: Yuma_64 Start: 36594, Stop: 36148, Start Num: 2
Candidate Starts for Yuma_64:
(Start: 2 @36594 has 2 MA's), (Start: 4 @36579 has 4 MA's), (Start: 6 @36573 has 3 MA's), (9, 36501), (14, 36399), (20, 36297), (27, 36171), (28, 36168),