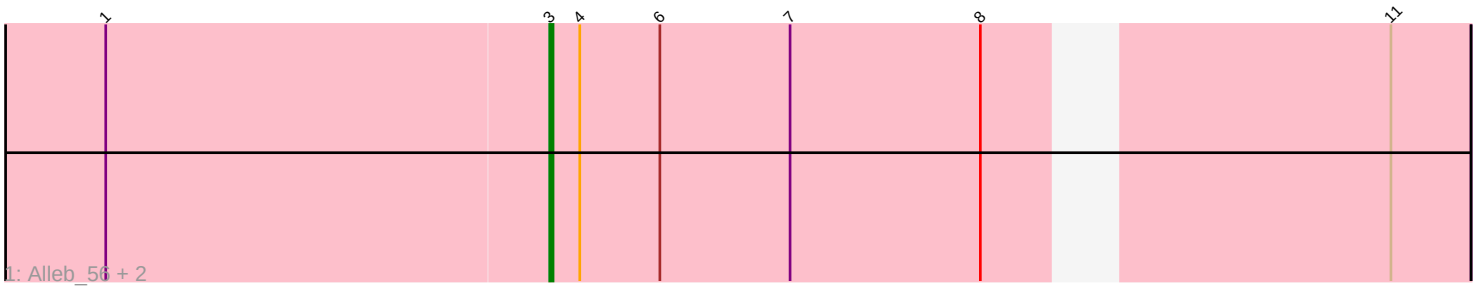
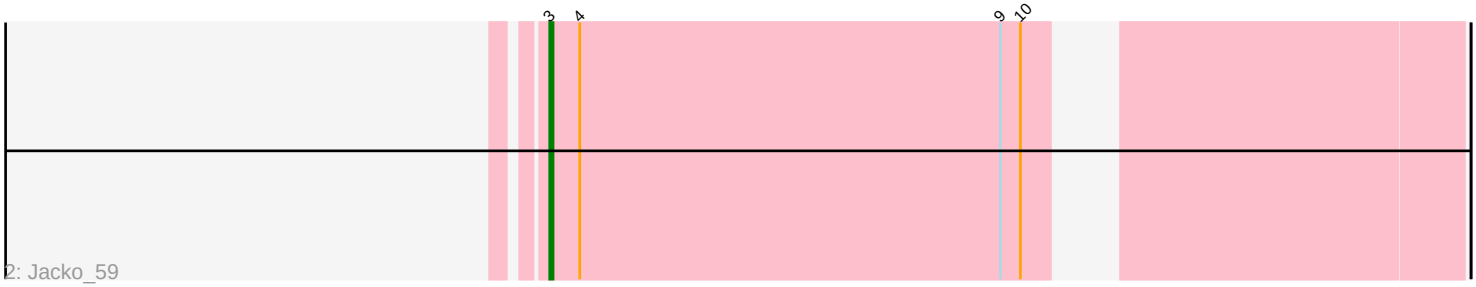
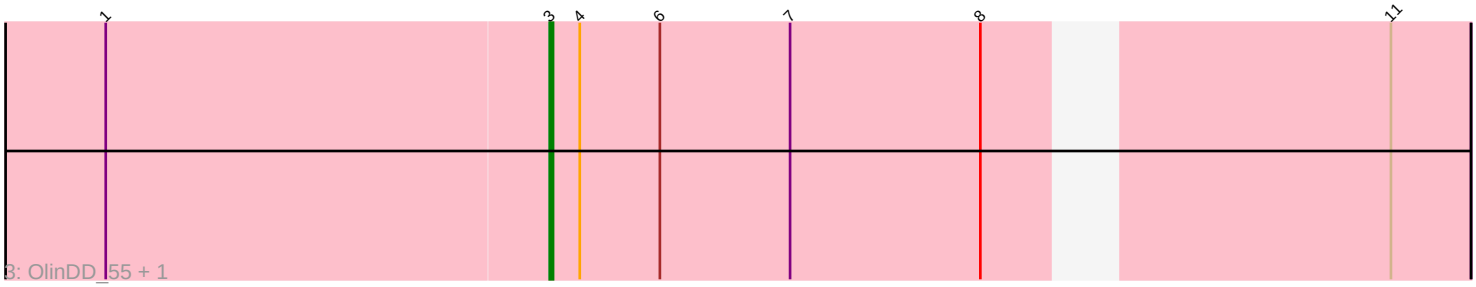
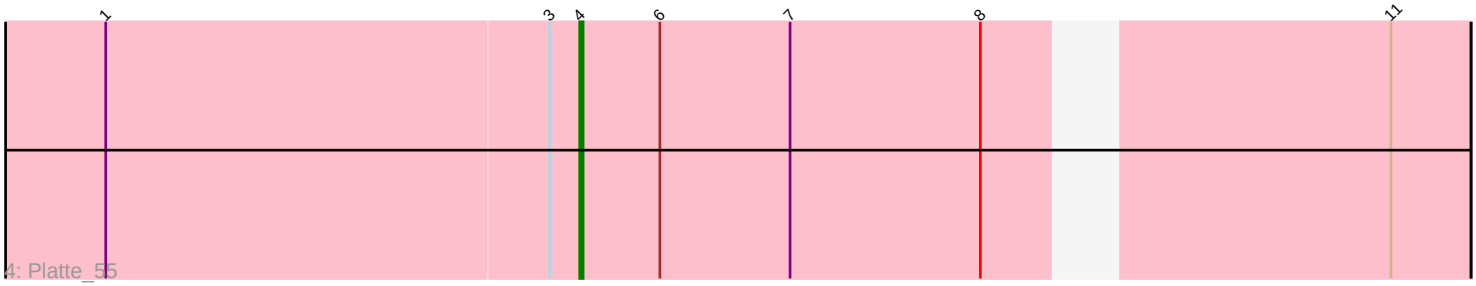
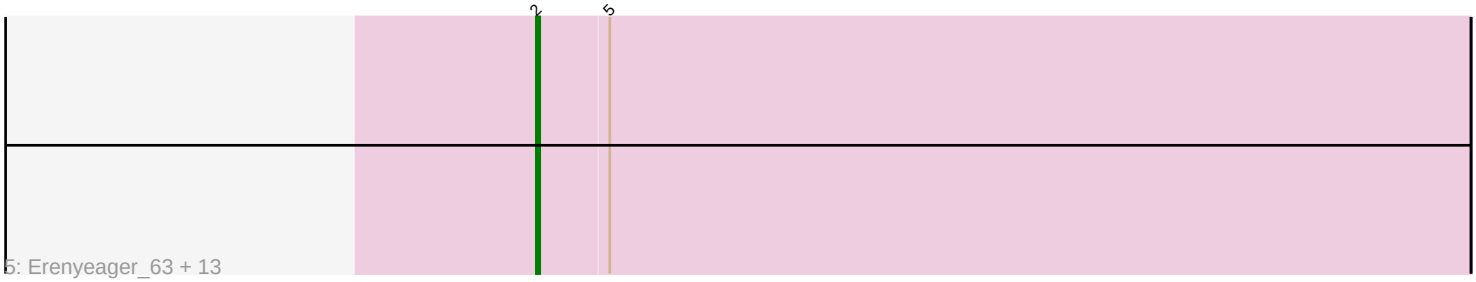
Pham 224901


1
3
4
6
7
8
11
1: Alleb_56 + 2


3
4
9
10
2: Jacko_59


1
3
4
6
7
8
11
3: OlinDD_55 + 1


1
3
4
6
7
8
11
4: Platte_55


2
5
5: Erenyeager_63 + 13

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 224901 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224901 has 21 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Alleb_56, Pioneer3_55, Tandem_55
• Track 2 : Jacko_59
• Track 3 : OlinDD_55, Hortus1_55
• Track 4 : Platte_55
• Track 5 : Erenyeager_63, Fork_59, Issa7_62, Welcome_64, Casablancas_64, DustyDino_66, HollowPurple_63, StevieWelch_63, ASegato_62, Lyell_63, Musetta_63, Necrophoxinus_65, RunningBrook_64, Yuma_62

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

The start number called the most often in the published annotations is 2, it was called in 11 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ASegato_62, Casablancas_64, DustyDino_66, Erenyeager_63, Fork_59, HollowPurple_63, Issa7_62, Lyell_63, Musetta_63, Necrophoxinus_65, RunningBrook_64, StevieWelch_63, Welcome_64, Yuma_62,

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

Genes that do not have the "Most Annotated" start:
• Alleb_56, Hortus1_55, Jacko_59, OlinDD_55, Pioneer3_55, Platte_55, Tandem_55,

Summary by start number:

Start 2:
• Found in 14 of 21 (66.7%) of genes in pham
• Manual Annotations of this start: 11 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ASegato_62 (ED2), Casablancas_64 (ED2), DustyDino_66 (ED2), Erenyeager_63 (ED2), Fork_59 (ED2), HollowPurple_63 (ED2), Issa7_62 (ED2), Lyell_63 (ED2), Musetta_63 (ED2), Necrophoxinus_65 (ED2), RunningBrook_64 (ED2), StevieWelch_63 (ED2), Welcome_64 (ED2), Yuma_62

(ED2),

Start 3:
• Found in 7 of 21 (33.3%) of genes in pham
• Manual Annotations of this start: 6 of 18
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Alleb_56 (ED1), Hortus1_55 (ED1), Jacko_59 (ED1), OlinDD_55 (ED1), Pioneer3_55 (ED1), Tandem_55 (ED1),

Start 4:
• Found in 7 of 21 (33.3%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Platte_55 (ED1),

Summary by clusters:

There are 2 clusters represented in this pham: ED2, ED1,

Info for manual annotations of cluster ED1:
•Start number 3 was manually annotated 6 times for cluster ED1.
•Start number 4 was manually annotated 1 time for cluster ED1.

Info for manual annotations of cluster ED2:
•Start number 2 was manually annotated 11 times for cluster ED2.

Gene Information:

Gene: ASegato_62 Start: 35643, Stop: 35921, Start Num: 2
Candidate Starts for ASegato_62:
(Start: 2 @35643 has 11 MA's), (5, 35664),

Gene: Alleb_56 Start: 35613, Stop: 35867, Start Num: 3
Candidate Starts for Alleb_56:
(1, 35481), (Start: 3 @35613 has 6 MA's), (Start: 4 @35622 has 1 MA's), (6, 35646), (7, 35685), (8, 35742), (11, 35844),

Gene: Casablancas_64 Start: 35383, Stop: 35661, Start Num: 2
Candidate Starts for Casablancas_64:
(Start: 2 @35383 has 11 MA's), (5, 35404),

Gene: DustyDino_66 Start: 36241, Stop: 36519, Start Num: 2
Candidate Starts for DustyDino_66:
(Start: 2 @36241 has 11 MA's), (5, 36262),

Gene: Erenyeager_63 Start: 35633, Stop: 35911, Start Num: 2
Candidate Starts for Erenyeager_63:
(Start: 2 @35633 has 11 MA's), (5, 35654),

Gene: Fork_59 Start: 35293, Stop: 35571, Start Num: 2
Candidate Starts for Fork_59:

(Start: 2 @35293 has 11 MA's), (5, 35314),

Gene: HollowPurple_63 Start: 35849, Stop: 36127, Start Num: 2
Candidate Starts for HollowPurple_63:
(Start: 2 @35849 has 11 MA's), (5, 35870),

Gene: Hortus1_55 Start: 35603, Stop: 35857, Start Num: 3
Candidate Starts for Hortus1_55:
(1, 35471), (Start: 3 @35603 has 6 MA's), (Start: 4 @35612 has 1 MA's), (6, 35636), (7, 35675), (8, 35732), (11, 35834),

Gene: Issa7_62 Start: 35297, Stop: 35575, Start Num: 2
Candidate Starts for Issa7_62:
(Start: 2 @35297 has 11 MA's), (5, 35318),

Gene: Jacko_59 Start: 34558, Stop: 34809, Start Num: 3
Candidate Starts for Jacko_59:
(Start: 3 @34558 has 6 MA's), (Start: 4 @34567 has 1 MA's), (9, 34693), (10, 34699),

Gene: Lyell_63 Start: 35552, Stop: 35830, Start Num: 2
Candidate Starts for Lyell_63:
(Start: 2 @35552 has 11 MA's), (5, 35573),

Gene: Musetta_63 Start: 36013, Stop: 36291, Start Num: 2
Candidate Starts for Musetta_63:
(Start: 2 @36013 has 11 MA's), (5, 36034),

Gene: Necrophoxinus_65 Start: 36247, Stop: 36525, Start Num: 2
Candidate Starts for Necrophoxinus_65:
(Start: 2 @36247 has 11 MA's), (5, 36268),

Gene: OlinDD_55 Start: 35602, Stop: 35856, Start Num: 3
Candidate Starts for OlinDD_55:
(1, 35470), (Start: 3 @35602 has 6 MA's), (Start: 4 @35611 has 1 MA's), (6, 35635), (7, 35674), (8, 35731), (11, 35833),

Gene: Pioneer3_55 Start: 35610, Stop: 35864, Start Num: 3
Candidate Starts for Pioneer3_55:
(1, 35478), (Start: 3 @35610 has 6 MA's), (Start: 4 @35619 has 1 MA's), (6, 35643), (7, 35682), (8, 35739), (11, 35841),

Gene: Platte_55 Start: 35404, Stop: 35649, Start Num: 4
Candidate Starts for Platte_55:
(1, 35263), (Start: 3 @35395 has 6 MA's), (Start: 4 @35404 has 1 MA's), (6, 35428), (7, 35467), (8, 35524), (11, 35626),

Gene: RunningBrook_64 Start: 36241, Stop: 36519, Start Num: 2
Candidate Starts for RunningBrook_64:
(Start: 2 @36241 has 11 MA's), (5, 36262),

Gene: StevieWelch_63 Start: 35633, Stop: 35911, Start Num: 2
Candidate Starts for StevieWelch_63:
(Start: 2 @35633 has 11 MA's), (5, 35654),

Gene: Tandem_55 Start: 35549, Stop: 35803, Start Num: 3
Candidate Starts for Tandem_55:
(1, 35417), (Start: 3 @35549 has 6 MA's), (Start: 4 @35558 has 1 MA's), (6, 35582), (7, 35621), (8, 35678), (11, 35780),

Gene: Welcome_64 Start: 35998, Stop: 36276, Start Num: 2
Candidate Starts for Welcome_64:
(Start: 2 @35998 has 11 MA's), (5, 36019),

Gene: Yuma_62 Start: 35567, Stop: 35845, Start Num: 2
Candidate Starts for Yuma_62:
(Start: 2 @35567 has 11 MA's), (5, 35588),