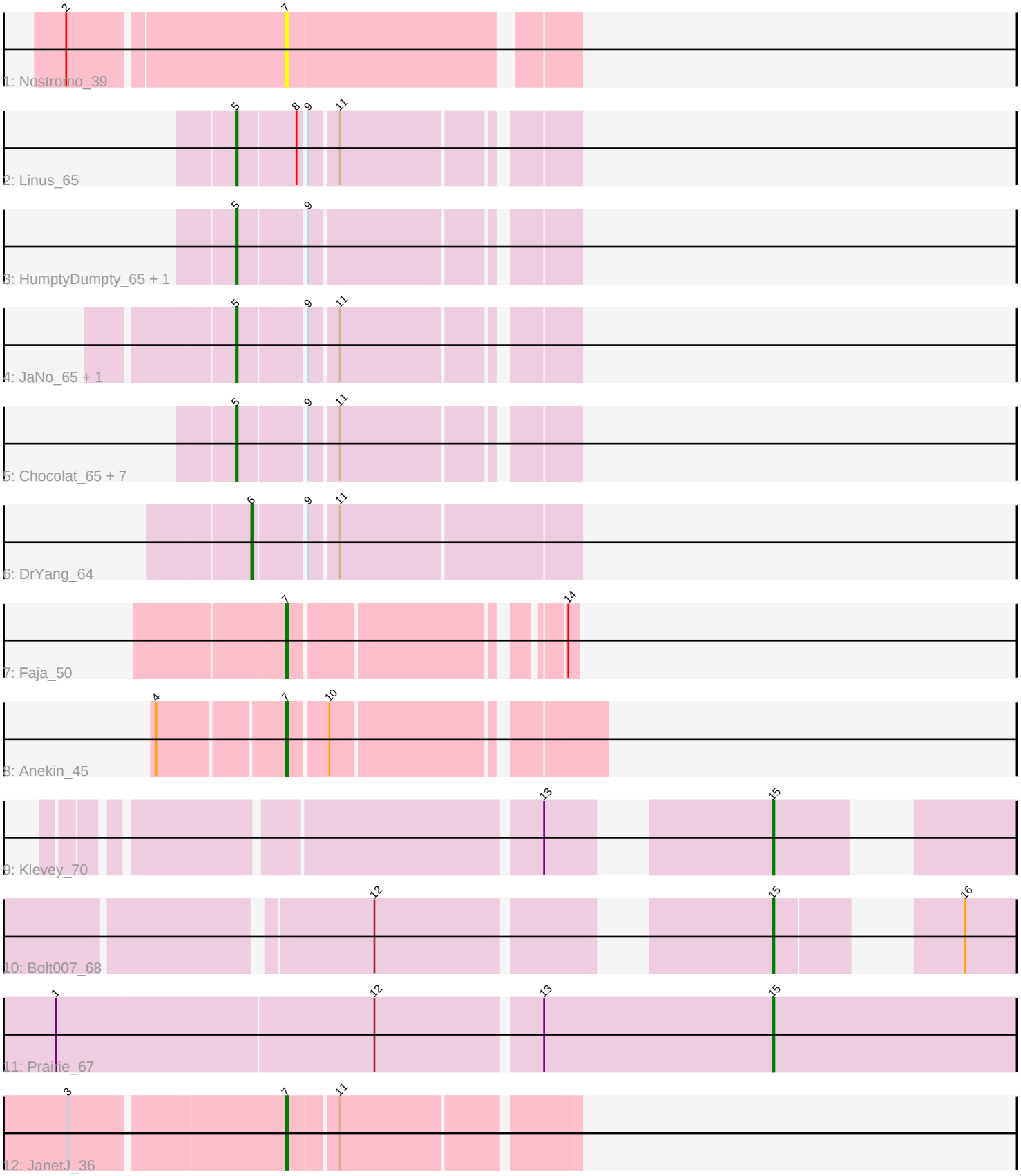
Pham 216556


2
7
1: Nostromo_39
5
8
9
11
2: Linus_65
5
9
3: HumptyDumpty_65 + 1
5
9
11
4: JaNo_65 + 1
5
9
11
5: Chocolat_65 + 7
6
9
11
6: DrYang_64
7
14
7: Faja_50
4
7
10
8: Anekin_45
13
15
9: Klevey_70
12
15
16
10: Bolt007_68
1
12
13
15
11: Prairie_67
3
7
11
12: JanetJ_36

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 216556 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216556 has 21 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Nostromo_39
• Track 2 : Linus_65
• Track 3 : HumptyDumpty_65, Kabreeze_65
• Track 4 : JaNo_65, Mordred_65
• Track 5 : Chocolat_65, Chipper1996_650, Chubster_66, Conboy_64, MoyaNatalis_65, PrincessTrina_65, EdgarPoe_64, Tophat_65
• Track 6 : DrYang_64
• Track 7 : Faja_50
• Track 8 : Anekin_45
• Track 9 : Klevey_70
• Track 10 : Bolt007_68
• Track 11 : Prairie_67
• Track 12 : JanetJ_36

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 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Chipper1996_650, Chocolat_65, Chubster_66, Conboy_64, EdgarPoe_64, HumptyDumpty_65, JaNo_65, Kabreeze_65, Linus_65, Mordred_65, MoyaNatalis_65, PrincessTrina_65, Tophat_65,

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

Genes that do not have the "Most Annotated" start:
• Anekin_45, Bolt007_68, DrYang_64, Faja_50, JanetJ_36, Klevey_70, Nostromo_39, Prairie_67,

Summary by start number:

Start 5:

• Found in 13 of 21 (61.9%) of genes in pham
• Manual Annotations of this start: 12 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chipper1996_650 (AR), Chocolat_65 (AR), Chubster_66 (AR), Conboy_64 (AR), EdgarPoe_64 (AR), HumptyDumpty_65 (AR), JaNo_65 (AR), Kabreeze_65 (AR), Linus_65 (AR), Mordred_65 (AR), MoyaNatalis_65 (AR), PrincessTrina_65 (AR), Tophat_65 (AR),

Start 6:
• Found in 1 of 21 (4.8%) of genes in pham
• Manual Annotations of this start: 1 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DrYang_64 (AR),

Start 7:
• Found in 4 of 21 (19.0%) of genes in pham
• Manual Annotations of this start: 3 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anekin_45 (AY), Faja_50 (AY), JanetJ_36 (FO), Nostromo_39 (AO3),

Start 15:
• Found in 3 of 21 (14.3%) of genes in pham
• Manual Annotations of this start: 3 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bolt007_68 (FH), Klevey_70 (FH), Prairie_67 (FH),

Summary by clusters:

There are 5 clusters represented in this pham: AY, FH, AR, AO3, FO,

Info for manual annotations of cluster AR:
•Start number 5 was manually annotated 12 times for cluster AR.
•Start number 6 was manually annotated 1 time for cluster AR.

Info for manual annotations of cluster AY:
•Start number 7 was manually annotated 2 times for cluster AY.

Info for manual annotations of cluster FH:
•Start number 15 was manually annotated 3 times for cluster FH.

Info for manual annotations of cluster FO:
•Start number 7 was manually annotated 1 time for cluster FO.

Gene Information:

Gene: Anekin_45 Start: 30188, Stop: 30352, Start Num: 7
Candidate Starts for Anekin_45:
(4, 30122), (Start: 7 @30188 has 3 MA's), (10, 30209),

Gene: Bolt007_68 Start: 44487, Stop: 44305, Start Num: 15
Candidate Starts for Bolt007_68:
(12, 44622), (Start: 15 @44487 has 3 MA's), (16, 44415),

Gene: Chipper1996_650 Start: 45331, Stop: 45504, Start Num: 5
Candidate Starts for Chipper1996_650:
(Start: 5 @45331 has 12 MA's), (9, 45367), (11, 45382),

Gene: Chocolat_65 Start: 45356, Stop: 45529, Start Num: 5
Candidate Starts for Chocolat_65:
(Start: 5 @45356 has 12 MA's), (9, 45392), (11, 45407),

Gene: Chubster_66 Start: 45508, Stop: 45681, Start Num: 5
Candidate Starts for Chubster_66:
(Start: 5 @45508 has 12 MA's), (9, 45544), (11, 45559),

Gene: Conboy_64 Start: 45195, Stop: 45368, Start Num: 5
Candidate Starts for Conboy_64:
(Start: 5 @45195 has 12 MA's), (9, 45231), (11, 45246),

Gene: DrYang_64 Start: 46974, Stop: 47150, Start Num: 6
Candidate Starts for DrYang_64:
(Start: 6 @46974 has 1 MA's), (9, 47001), (11, 47016),

Gene: EdgarPoe_64 Start: 45195, Stop: 45368, Start Num: 5
Candidate Starts for EdgarPoe_64:
(Start: 5 @45195 has 12 MA's), (9, 45231), (11, 45246),

Gene: Faja_50 Start: 32068, Stop: 32208, Start Num: 7
Candidate Starts for Faja_50:
(Start: 7 @32068 has 3 MA's), (14, 32203),

Gene: HumptyDumpty_65 Start: 45295, Stop: 45468, Start Num: 5
Candidate Starts for HumptyDumpty_65:
(Start: 5 @45295 has 12 MA's), (9, 45331),

Gene: JaNo_65 Start: 45418, Stop: 45591, Start Num: 5
Candidate Starts for JaNo_65:
(Start: 5 @45418 has 12 MA's), (9, 45454), (11, 45469),

Gene: JanetJ_36 Start: 30129, Stop: 30284, Start Num: 7
Candidate Starts for JanetJ_36:
(3, 30009), (Start: 7 @30129 has 3 MA's), (11, 30156),

Gene: Kabreeze_65 Start: 45374, Stop: 45547, Start Num: 5
Candidate Starts for Kabreeze_65:
(Start: 5 @45374 has 12 MA's), (9, 45410),

Gene: Klevey_70 Start: 44391, Stop: 44209, Start Num: 15
Candidate Starts for Klevey_70:
(13, 44424), (Start: 15 @44391 has 3 MA's),

Gene: Linus_65 Start: 45497, Stop: 45670, Start Num: 5
Candidate Starts for Linus_65:
(Start: 5 @45497 has 12 MA's), (8, 45530), (9, 45533), (11, 45548),

Gene: Mordred_65 Start: 45412, Stop: 45585, Start Num: 5
Candidate Starts for Mordred_65:
(Start: 5 @45412 has 12 MA's), (9, 45448), (11, 45463),

Gene: MoyaNatalis_65 Start: 45343, Stop: 45516, Start Num: 5
Candidate Starts for MoyaNatalis_65:
(Start: 5 @45343 has 12 MA's), (9, 45379), (11, 45394),

Gene: Nostromo_39 Start: 31200, Stop: 31355, Start Num: 7
Candidate Starts for Nostromo_39:
(2, 31080), (Start: 7 @31200 has 3 MA's),

Gene: Prairie_67 Start: 43945, Stop: 43724, Start Num: 15
Candidate Starts for Prairie_67:
(1, 44347), (12, 44167), (13, 44077), (Start: 15 @43945 has 3 MA's),

Gene: PrincessTrina_65 Start: 45399, Stop: 45572, Start Num: 5
Candidate Starts for PrincessTrina_65:
(Start: 5 @45399 has 12 MA's), (9, 45435), (11, 45450),

Gene: Tophat_65 Start: 45332, Stop: 45505, Start Num: 5
Candidate Starts for Tophat_65:
(Start: 5 @45332 has 12 MA's), (9, 45368), (11, 45383),