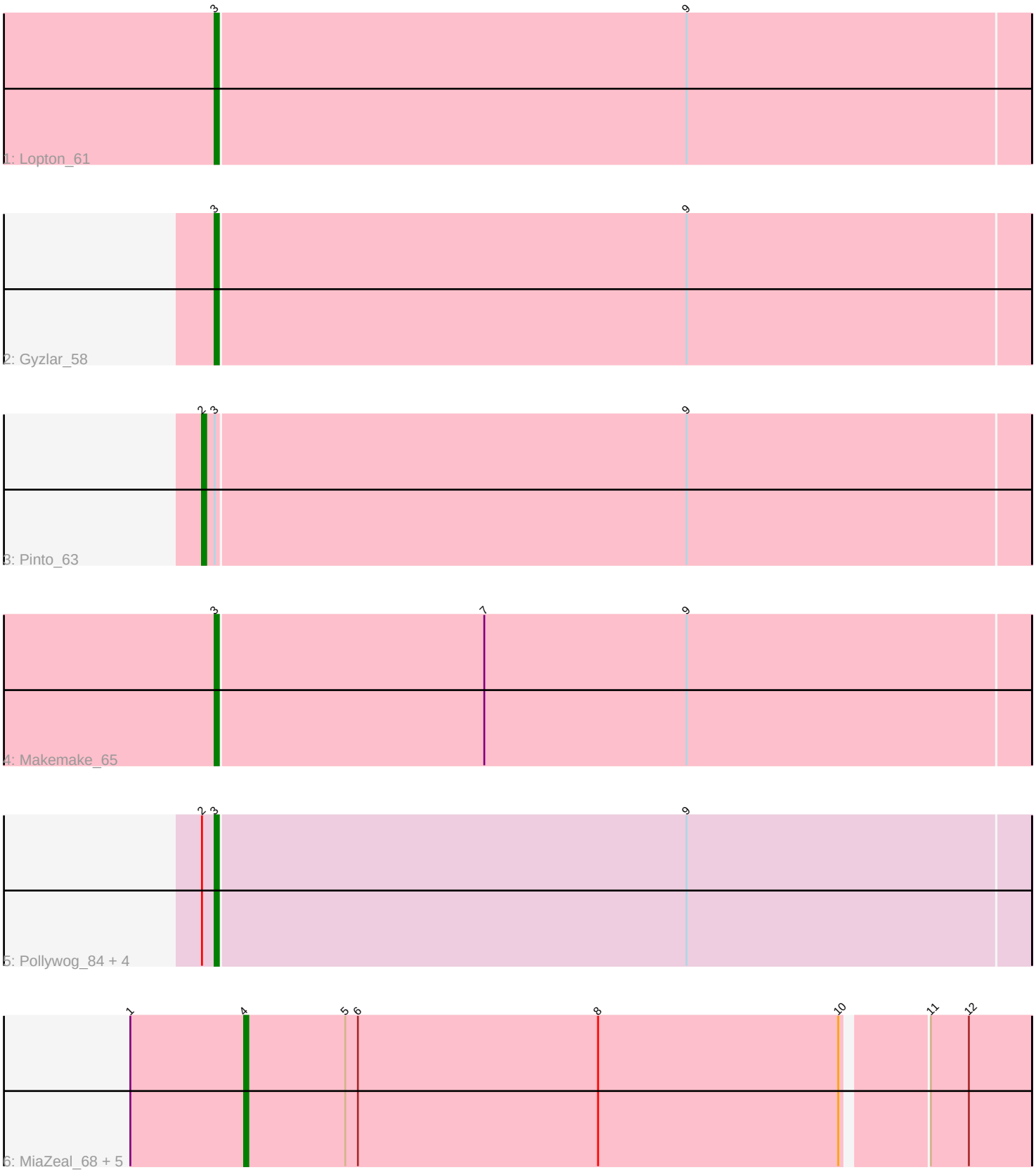
Pham 87004


3
9
1: Lopton_61
3
9
2: Gyzlar_58
2
3
9
3: Pinto_63
3
7
9
4: Makemake_65
2
3
9
5: Pollywog_84 + 4
1
4
5
6
8
10
11
12
6: MiaZeal_68 + 5

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 87004 Report

This analysis was run 04/05/24 on database version 557.

Pham number 87004 has 15 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Lopton_61
• Track 2 : Gyzlar_58
• Track 3 : Pinto_63
• Track 4 : Makemake_65
• Track 5 : Pollywog_84, Rufus_64, RidgeCB_62, Rubeus_61, Atkinbua_65
• Track 6 : MiaZeal_68, Courthouse_68, Squint_68, Porcelain_67, Phoebus_70, Ariel_67

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 8 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Atkinbua_65, Gyzlar_58, Lopton_61, Makemake_65, Pollywog_84, RidgeCB_62, Rubeus_61, Rufus_64,

Genes that have the "Most Annotated" start but do not call it:
• Pinto_63,

Genes that do not have the "Most Annotated" start:
• Ariel_67, Courthouse_68, MiaZeal_68, Phoebus_70, Porcelain_67, Squint_68,

Summary by start number:

Start 2:
• Found in 6 of 15 (40.0%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Pinto_63 (A1),

Start 3:
• Found in 9 of 15 (60.0%) of genes in pham
• Manual Annotations of this start: 8 of 15

• Called 88.9% of time when present
• Phage (with cluster) where this start called: Atkinbua_65 (A1), Gyzlar_58 (A1), Lopton_61 (A1), Makemake_65 (A1), Pollywog_84 (F1), RidgeCB_62 (A1), Rubeus_61 (A1), Rufus_64 (A1),

Start 4:
• Found in 6 of 15 (40.0%) of genes in pham
• Manual Annotations of this start: 6 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ariel_67 (J), Courthouse_68 (J), MiaZeal_68 (J), Phoebus_70 (J), Porcelain_67 (J), Squint_68 (J),

Summary by clusters:

There are 3 clusters represented in this pham: A1, F1, J,

Info for manual annotations of cluster A1:
•Start number 2 was manually annotated 1 time for cluster A1.
•Start number 3 was manually annotated 7 times for cluster A1.

Info for manual annotations of cluster F1:
•Start number 3 was manually annotated 1 time for cluster F1.

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

Gene Information:

Gene: Ariel_67 Start: 44916, Stop: 44734, Start Num: 4
Candidate Starts for Ariel_67:
(1, 44943), (Start: 4 @44916 has 6 MA's), (5, 44892), (6, 44889), (8, 44832), (10, 44775), (11, 44757), (12, 44748),

Gene: Atkinbua_65 Start: 41265, Stop: 41074, Start Num: 3
Candidate Starts for Atkinbua_65:
(Start: 2 @41268 has 1 MA's), (Start: 3 @41265 has 8 MA's), (9, 41154),

Gene: Courthouse_68 Start: 45777, Stop: 45595, Start Num: 4
Candidate Starts for Courthouse_68:
(1, 45804), (Start: 4 @45777 has 6 MA's), (5, 45753), (6, 45750), (8, 45693), (10, 45636), (11, 45618), (12, 45609),

Gene: Gyzlar_58 Start: 39152, Stop: 38961, Start Num: 3
Candidate Starts for Gyzlar_58:
(Start: 3 @39152 has 8 MA's), (9, 39041),

Gene: Lopton_61 Start: 42812, Stop: 42621, Start Num: 3
Candidate Starts for Lopton_61:
(Start: 3 @42812 has 8 MA's), (9, 42701),

Gene: Makemake_65 Start: 42778, Stop: 42587, Start Num: 3

Candidate Starts for Makemake_65:
(Start: 3 @42778 has 8 MA's), (7, 42715), (9, 42667),

Gene: MiaZeal_68 Start: 45588, Stop: 45406, Start Num: 4
Candidate Starts for MiaZeal_68:
(1, 45615), (Start: 4 @45588 has 6 MA's), (5, 45564), (6, 45561), (8, 45504), (10, 45447), (11, 45429), (12, 45420),

Gene: Phoebus_70 Start: 50462, Stop: 50280, Start Num: 4
Candidate Starts for Phoebus_70:
(1, 50489), (Start: 4 @50462 has 6 MA's), (5, 50438), (6, 50435), (8, 50378), (10, 50321), (11, 50303), (12, 50294),

Gene: Pinto_63 Start: 41150, Stop: 40956, Start Num: 2
Candidate Starts for Pinto_63:
(Start: 2 @41150 has 1 MA's), (Start: 3 @41147 has 8 MA's), (9, 41036),

Gene: Pollywog_84 Start: 50635, Stop: 50826, Start Num: 3
Candidate Starts for Pollywog_84:
(Start: 2 @50632 has 1 MA's), (Start: 3 @50635 has 8 MA's), (9, 50746),

Gene: Porcelain_67 Start: 45588, Stop: 45406, Start Num: 4
Candidate Starts for Porcelain_67:
(1, 45615), (Start: 4 @45588 has 6 MA's), (5, 45564), (6, 45561), (8, 45504), (10, 45447), (11, 45429), (12, 45420),

Gene: RidgeCB_62 Start: 41123, Stop: 40932, Start Num: 3
Candidate Starts for RidgeCB_62:
(Start: 2 @41126 has 1 MA's), (Start: 3 @41123 has 8 MA's), (9, 41012),

Gene: Rubeus_61 Start: 38940, Stop: 38749, Start Num: 3
Candidate Starts for Rubeus_61:
(Start: 2 @38943 has 1 MA's), (Start: 3 @38940 has 8 MA's), (9, 38829),

Gene: Rufus_64 Start: 41624, Stop: 41433, Start Num: 3
Candidate Starts for Rufus_64:
(Start: 2 @41627 has 1 MA's), (Start: 3 @41624 has 8 MA's), (9, 41513),

Gene: Squint_68 Start: 45707, Stop: 45525, Start Num: 4
Candidate Starts for Squint_68:
(1, 45734), (Start: 4 @45707 has 6 MA's), (5, 45683), (6, 45680), (8, 45623), (10, 45566), (11, 45548), (12, 45539),