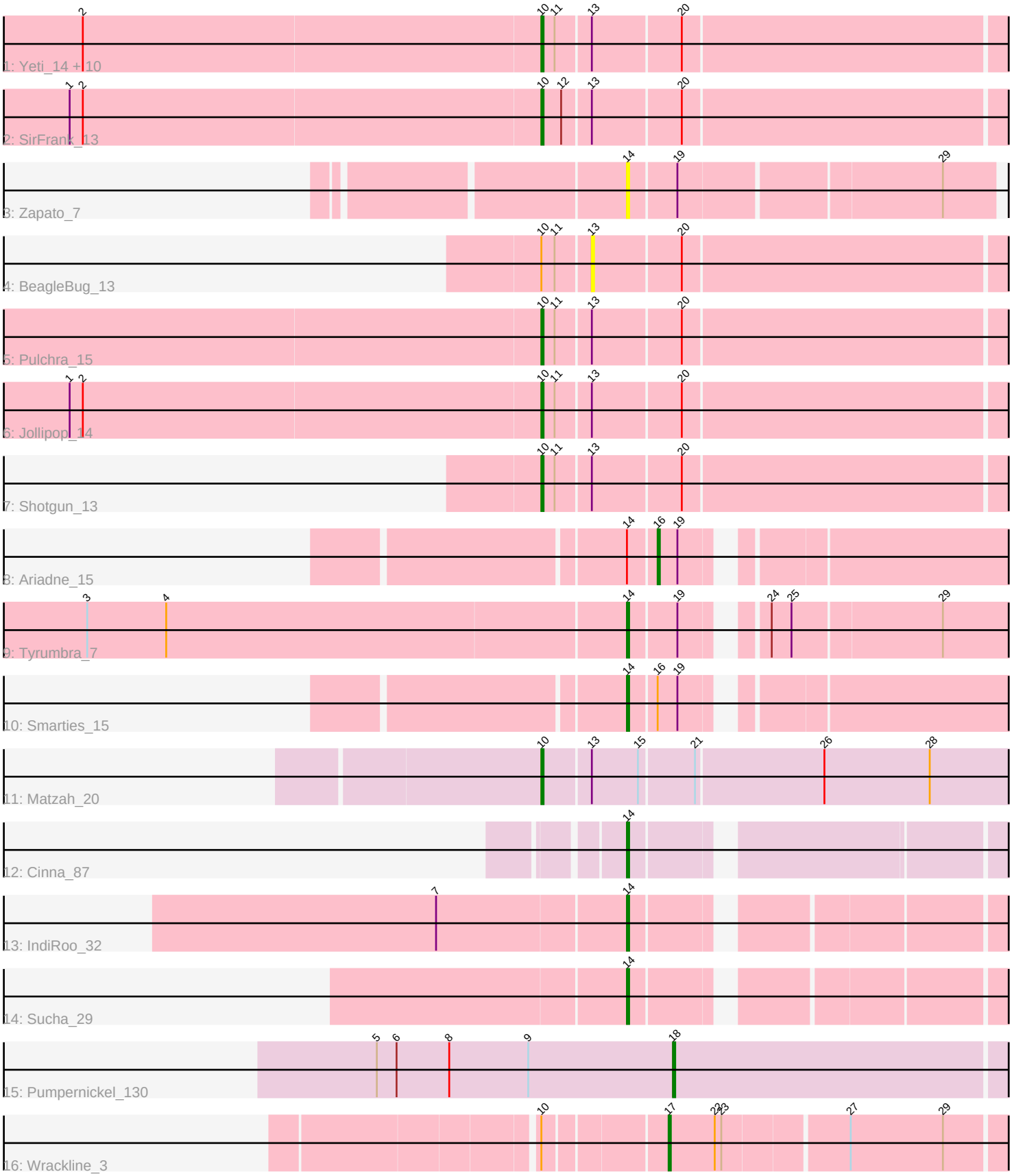
Pham 309119


1: Yeti_14 + 10
2: SirFrank_13
3: Zapato_7
4: BeagleBug_13
5: Pulchra_15
6: Jollipop_14
7: Shotgun_13
8: Ariadne_15
9: Tyrumbra_7
10: Smarties_15
11: Matzah_20
12: Cinna_87
13: IndiRoo_32
14: Sucha_29
15: Pumpernickel_130
16: Wrackline_3

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 309119 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309119 has 26 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Yeti_14, Piperis_14, Selwyn23_15, Glorp_14, Cranjis_14, Scumberland_15, Honeyfin_15, Hermeonysus_13, LittleFortune_14, Jefe_14, Phorgeous_13
• Track 2 : SirFrank_13
• Track 3 : Zapato_7
• Track 4 : BeagleBug_13
• Track 5 : Pulchra_15
• Track 6 : Jollipop_14
• Track 7 : Shotgun_13
• Track 8 : Ariadne_15
• Track 9 : Tyrumbra_7
• Track 10 : Smarties_15
• Track 11 : Matzah_20
• Track 12 : Cinna_87
• Track 13 : IndiRoo_32
• Track 14 : Sucha_29
• Track 15 : Pumpernickel_130
• Track 16 : Wrackline_3

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

The start number called the most often in the published annotations is 10, it was called in 16 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Cranjis_14, Glorp_14, Hermeonysus_13, Honeyfin_15, Jefe_14, Jollipop_14, LittleFortune_14, Matzah_20, Phorgeous_13, Piperis_14, Pulchra_15, Scumberland_15, Selwyn23_15, Shotgun_13, SirFrank_13, Yeti_14,

Genes that have the "Most Annotated" start but do not call it:
• BeagleBug_13, Wrackline_3,

Genes that do not have the "Most Annotated" start:

• Ariadne_15, Cinna_87, IndiRoo_32, Pumpernickel_130, Smarties_15, Sucha_29, Tyrumbra_7, Zapato_7,

Summary by start number:

Start 10:
• Found in 18 of 26 (69.2%) of genes in pham
• Manual Annotations of this start: 16 of 24
• Called 88.9% of time when present
• Phage (with cluster) where this start called: Cranjis_14 (EC), Glorp_14 (EC), Hermeonysus_13 (EC), Honeyfin_15 (EC), Jefe_14 (EC), Jollipop_14 (EC), LittleFortune_14 (EC), Matzah_20 (EI), Phorgeous_13 (EC), Piperis_14 (EC), Pulchra_15 (EC), Scumberland_15 (EC), Selwyn23_15 (EC), Shotgun_13 (EC), SirFrank_13 (EC), Yeti_14 (EC),

Start 13:
• Found in 17 of 26 (65.4%) of genes in pham
• No Manual Annotations of this start.
• Called 5.9% of time when present
• Phage (with cluster) where this start called: BeagleBug_13 (EC),

Start 14:
• Found in 7 of 26 (26.9%) of genes in pham
• Manual Annotations of this start: 5 of 24
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Cinna_87 (EI), IndiRoo_32 (EJ), Smarties_15 (EC), Sucha_29 (EJ), Tyrumbra_7 (EC), Zapato_7 (EC),

Start 16:
• Found in 2 of 26 (7.7%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Ariadne_15 (EC),

Start 17:
• Found in 1 of 26 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Wrackline_3 (GF),

Start 18:
• Found in 1 of 26 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Pumpernickel_130 (GD4),

Summary by clusters:

There are 5 clusters represented in this pham: GD4, GF, EI, EC, EJ,

Info for manual annotations of cluster EC:
•Start number 10 was manually annotated 15 times for cluster EC.
•Start number 14 was manually annotated 2 times for cluster EC.

•Start number 16 was manually annotated 1 time for cluster EC.

Info for manual annotations of cluster EI:
•Start number 10 was manually annotated 1 time for cluster EI.
•Start number 14 was manually annotated 1 time for cluster EI.

Info for manual annotations of cluster EJ:
•Start number 14 was manually annotated 2 times for cluster EJ.

Info for manual annotations of cluster GD4:
•Start number 18 was manually annotated 1 time for cluster GD4.

Info for manual annotations of cluster GF:
•Start number 17 was manually annotated 1 time for cluster GF.

Gene Information:

Gene: Ariadne_15 Start: 5952, Stop: 6119, Start Num: 16
Candidate Starts for Ariadne_15:
(Start: 14 @5940 has 5 MA's), (Start: 16 @5952 has 1 MA's), (19, 5961),

Gene: BeagleBug_13 Start: 5979, Stop: 6188, Start Num: 13
Candidate Starts for BeagleBug_13:
(Start: 10 @5958 has 16 MA's), (11, 5964), (13, 5979), (20, 6018),

Gene: Cinna_87 Start: 51741, Stop: 51929, Start Num: 14
Candidate Starts for Cinna_87:
(Start: 14 @51741 has 5 MA's),

Gene: Cranjis_14 Start: 6128, Stop: 6358, Start Num: 10
Candidate Starts for Cranjis_14:
(2, 5921), (Start: 10 @6128 has 16 MA's), (11, 6134), (13, 6149), (20, 6188),

Gene: Glorp_14 Start: 6128, Stop: 6358, Start Num: 10
Candidate Starts for Glorp_14:
(2, 5921), (Start: 10 @6128 has 16 MA's), (11, 6134), (13, 6149), (20, 6188),

Gene: Hermeonysus_13 Start: 5964, Stop: 6194, Start Num: 10
Candidate Starts for Hermeonysus_13:
(2, 5757), (Start: 10 @5964 has 16 MA's), (11, 5970), (13, 5985), (20, 6024),

Gene: Honeyfin_15 Start: 6337, Stop: 6567, Start Num: 10
Candidate Starts for Honeyfin_15:
(2, 6130), (Start: 10 @6337 has 16 MA's), (11, 6343), (13, 6358), (20, 6397),

Gene: IndiRoo_32 Start: 21530, Stop: 21706, Start Num: 14
Candidate Starts for IndiRoo_32:
(7, 21446), (Start: 14 @21530 has 5 MA's),

Gene: Jefe_14 Start: 6176, Stop: 6406, Start Num: 10
Candidate Starts for Jefe_14:

(2, 5969), (Start: 10 @6176 has 16 MA's), (11, 6182), (13, 6197), (20, 6236),

Gene: Jollipop_14 Start: 6395, Stop: 6625, Start Num: 10
Candidate Starts for Jollipop_14:
(1, 6182), (2, 6188), (Start: 10 @6395 has 16 MA's), (11, 6401), (13, 6416), (20, 6455),

Gene: LittleFortune_14 Start: 6263, Stop: 6493, Start Num: 10
Candidate Starts for LittleFortune_14:
(2, 6056), (Start: 10 @6263 has 16 MA's), (11, 6269), (13, 6284), (20, 6323),

Gene: Matzah_20 Start: 11051, Stop: 11287, Start Num: 10
Candidate Starts for Matzah_20:
(Start: 10 @11051 has 16 MA's), (13, 11072), (15, 11093), (21, 11117), (26, 11174), (28, 11222),

Gene: Phorgeous_13 Start: 5973, Stop: 6203, Start Num: 10
Candidate Starts for Phorgeous_13:
(2, 5766), (Start: 10 @5973 has 16 MA's), (11, 5979), (13, 5994), (20, 6033),

Gene: Piperis_14 Start: 6128, Stop: 6358, Start Num: 10
Candidate Starts for Piperis_14:
(2, 5921), (Start: 10 @6128 has 16 MA's), (11, 6134), (13, 6149), (20, 6188),

Gene: Pulchra_15 Start: 6358, Stop: 6588, Start Num: 10
Candidate Starts for Pulchra_15:
(Start: 10 @6358 has 16 MA's), (11, 6364), (13, 6379), (20, 6418),

Gene: Pumpernickel_130 Start: 86177, Stop: 86359, Start Num: 18
Candidate Starts for Pumpernickel_130:
(5, 86042), (6, 86051), (8, 86075), (9, 86111), (Start: 18 @86177 has 1 MA's),

Gene: Scumberland_15 Start: 6346, Stop: 6576, Start Num: 10
Candidate Starts for Scumberland_15:
(2, 6139), (Start: 10 @6346 has 16 MA's), (11, 6352), (13, 6367), (20, 6406),

Gene: Selwyn23_15 Start: 6358, Stop: 6588, Start Num: 10
Candidate Starts for Selwyn23_15:
(2, 6151), (Start: 10 @6358 has 16 MA's), (11, 6364), (13, 6379), (20, 6418),

Gene: Shotgun_13 Start: 5964, Stop: 6194, Start Num: 10
Candidate Starts for Shotgun_13:
(Start: 10 @5964 has 16 MA's), (11, 5970), (13, 5985), (20, 6024),

Gene: SirFrank_13 Start: 6000, Stop: 6230, Start Num: 10
Candidate Starts for SirFrank_13:
(1, 5787), (2, 5793), (Start: 10 @6000 has 16 MA's), (12, 6009), (13, 6021), (20, 6060),

Gene: Smarties_15 Start: 5940, Stop: 6119, Start Num: 14
Candidate Starts for Smarties_15:
(Start: 14 @5940 has 5 MA's), (Start: 16 @5952 has 1 MA's), (19, 5961),

Gene: Sucha_29 Start: 20492, Stop: 20668, Start Num: 14
Candidate Starts for Sucha_29:
(Start: 14 @20492 has 5 MA's),

Gene: Tyrumbra_7 Start: 3833, Stop: 4012, Start Num: 14
Candidate Starts for Tyrumbra_7:
(3, 3590), (4, 3626), (Start: 14 @3833 has 5 MA's), (19, 3854), (24, 3881), (25, 3890), (29, 3956),

Gene: Wrackline_3 Start: 455, Stop: 625, Start Num: 17
Candidate Starts for Wrackline_3:
(Start: 10 @404 has 16 MA's), (Start: 17 @455 has 1 MA's), (22, 476), (23, 479), (27, 533), (29, 575),

Gene: Yeti_14 Start: 6128, Stop: 6358, Start Num: 10
Candidate Starts for Yeti_14:
(2, 5921), (Start: 10 @6128 has 16 MA's), (11, 6134), (13, 6149), (20, 6188),

Gene: Zapato_7 Start: 3908, Stop: 4093, Start Num: 14
Candidate Starts for Zapato_7:
(Start: 14 @3908 has 5 MA's), (19, 3929), (29, 4043),