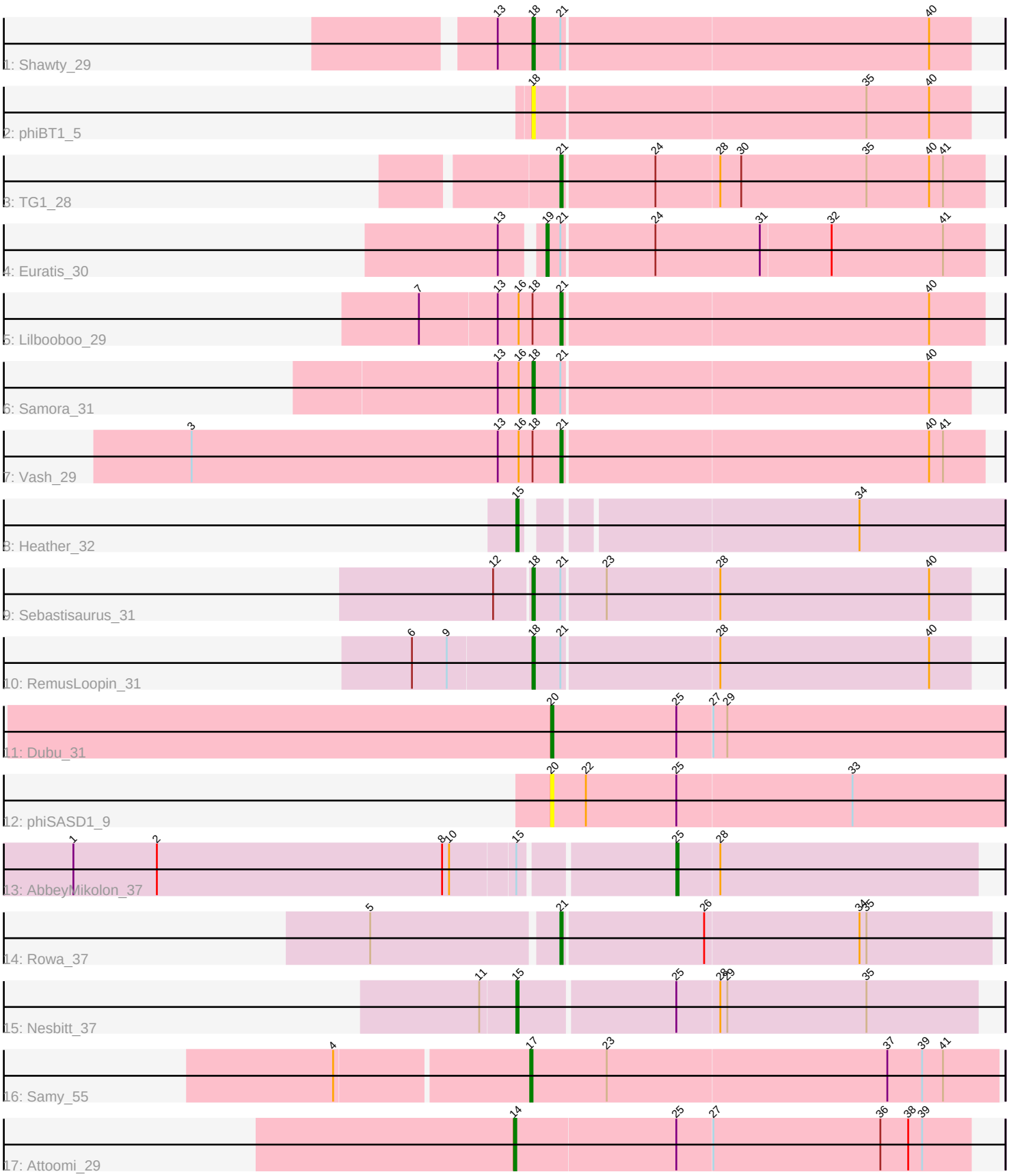
Pham 346221


1: Shawty_29
2: phiBT1_5
3: TG1_28
4: Euratis_30
5: Lilbooboo_29
6: Samora_31
7: Vash_29
8: Heather_32
9: Sebastisaurus_31
10: RemusLoopin_31
11: Dubu_31
12: phiSASD1_9
13: AbbeyMikolon_37
14: Rowa_37
15: Nesbitt_37
16: Samy_55
17: Attoomi_29

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 346221 Report

This analysis was run 11/14/26 on database version 672.

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 346221 has 17 members, 2 are drafts.

Phages represented in each track:
- Track 1 : Shawty_29
- Track 2 : phiBT1_5
- Track 3 : TG1_28
- Track 4 : Euratis_30
- Track 5 : Lilbooboo_29
- Track 6 : Samora_31
- Track 7 : Vash_29
- Track 8 : Heather_32
- Track 9 : Sebastisaurus_31
- Track 10 : RemusLoopin_31
- Track 11 : Dubu_31
- Track 12 : phiSASD1_9
- Track 13 : AbbeyMikolon_37
- Track 14 : Rowa_37
- Track 15 : Nesbitt_37
- Track 16 : Samy_55
- Track 17 : Attoomi_29

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

The start number called the most often in the published annotations is 18, it was called in 4 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- RemusLoopin_31, Samora_31, Sebastisaurus_31, Shawty_29, phiBT1_5,

Genes that have the "Most Annotated" start but do not call it:
- Lilbooboo_29, Vash_29,

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

• AbbeyMikolon_37, Attoomi_29, Dubu_31, Euratis_30, Heather_32, Nesbitt_37, Rowa_37, Samy_55, TG1_28, phiSASD1_9,

Summary by start number:

Start 14:
• Found in 1 of 17 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Attoomi_29 (singleton),

Start 15:
• Found in 3 of 17 (17.6%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Heather_32 (BB2), Nesbitt_37 (BL),

Start 17:
• Found in 1 of 17 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Samy_55 (singleton),

Start 18:
• Found in 7 of 17 (41.2%) of genes in pham
• Manual Annotations of this start: 4 of 15
• Called 71.4% of time when present
• Phage (with cluster) where this start called: RemusLoopin_31 (BB2), Samora_31 (BB1), Sebastisaurus_31 (BB2), Shawty_29 (BB1), phiBT1_5 (BB1),

Start 19:
• Found in 1 of 17 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Euratis_30 (BB1),

Start 20:
• Found in 2 of 17 (11.8%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dubu_31 (BJ), phiSASD1_9 (BJ),

Start 21:
• Found in 9 of 17 (52.9%) of genes in pham
• Manual Annotations of this start: 4 of 15
• Called 44.4% of time when present
• Phage (with cluster) where this start called: Lilbooboo_29 (BB1), Rowa_37 (BL), TG1_28 (BB1), Vash_29 (BB1),

Start 25:
• Found in 5 of 17 (29.4%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 20.0% of time when present

• Phage (with cluster) where this start called: AbbeyMikolon_37 (BL),

Summary by clusters:

There are 5 clusters represented in this pham: BL, singleton, BB2, BB1, BJ,

Info for manual annotations of cluster BB1:
•Start number 18 was manually annotated 2 times for cluster BB1.
•Start number 19 was manually annotated 1 time for cluster BB1.
•Start number 21 was manually annotated 3 times for cluster BB1.

Info for manual annotations of cluster BB2:
•Start number 15 was manually annotated 1 time for cluster BB2.
•Start number 18 was manually annotated 2 times for cluster BB2.

Info for manual annotations of cluster BJ:
•Start number 20 was manually annotated 1 time for cluster BJ.

Info for manual annotations of cluster BL:
•Start number 15 was manually annotated 1 time for cluster BL.
•Start number 21 was manually annotated 1 time for cluster BL.
•Start number 25 was manually annotated 1 time for cluster BL.

Gene Information:

Gene: AbbeyMikolon_37 Start: 25869, Stop: 25997, Start Num: 25
Candidate Starts for AbbeyMikolon_37:
(1, 25617), (2, 25653), (8, 25776), (10, 25779), (Start: 15 @25806 has 2 MA's), (Start: 25 @25869 has 1 MA's), (28, 25887),

Gene: Attoomi_29 Start: 23338, Stop: 23532, Start Num: 14
Candidate Starts for Attoomi_29:
(Start: 14 @23338 has 1 MA's), (Start: 25 @23407 has 1 MA's), (27, 23422), (36, 23494), (38, 23506), (39, 23512),

Gene: Dubu_31 Start: 23798, Stop: 23992, Start Num: 20
Candidate Starts for Dubu_31:
(Start: 20 @23798 has 1 MA's), (Start: 25 @23852 has 1 MA's), (27, 23867), (29, 23873),

Gene: Euratis_30 Start: 22648, Stop: 22833, Start Num: 19
Candidate Starts for Euratis_30:
(13, 22633), (Start: 19 @22648 has 1 MA's), (Start: 21 @22654 has 4 MA's), (24, 22693), (31, 22738), (32, 22768), (41, 22816),

Gene: Heather_32 Start: 23415, Stop: 23612, Start Num: 15
Candidate Starts for Heather_32:
(Start: 15 @23415 has 2 MA's), (34, 23550),

Gene: Lilbooboo_29 Start: 22695, Stop: 22874, Start Num: 21
Candidate Starts for Lilbooboo_29:

(7, 22635), (13, 22668), (16, 22677), (Start: 18 @22683 has 4 MA's), (Start: 21 @22695 has 4 MA's), (40, 22851),

Gene: Nesbitt_37 Start: 25829, Stop: 26023, Start Num: 15
Candidate Starts for Nesbitt_37:
(11, 25814), (Start: 15 @25829 has 2 MA's), (Start: 25 @25895 has 1 MA's), (28, 25913), (29, 25916), (35, 25976),

Gene: RemusLoopin_31 Start: 23724, Stop: 23909, Start Num: 18
Candidate Starts for RemusLoopin_31:
(6, 23673), (9, 23688), (Start: 18 @23724 has 4 MA's), (Start: 21 @23736 has 4 MA's), (28, 23802), (40, 23892),

Gene: Rowa_37 Start: 26380, Stop: 26562, Start Num: 21
Candidate Starts for Rowa_37:
(5, 26302), (Start: 21 @26380 has 4 MA's), (26, 26440), (34, 26506), (35, 26509),

Gene: Samora_31 Start: 23287, Stop: 23472, Start Num: 18
Candidate Starts for Samora_31:
(13, 23272), (16, 23281), (Start: 18 @23287 has 4 MA's), (Start: 21 @23299 has 4 MA's), (40, 23455),

Gene: Samy_55 Start: 36233, Stop: 36433, Start Num: 17
Candidate Starts for Samy_55:
(4, 36152), (Start: 17 @36233 has 1 MA's), (23, 36266), (37, 36386), (39, 36401), (41, 36410),

Gene: Sebastisaurus_31 Start: 23518, Stop: 23703, Start Num: 18
Candidate Starts for Sebastisaurus_31:
(12, 23503), (Start: 18 @23518 has 4 MA's), (Start: 21 @23530 has 4 MA's), (23, 23548), (28, 23596), (40, 23686),

Gene: Shawty_29 Start: 23158, Stop: 23343, Start Num: 18
Candidate Starts for Shawty_29:
(13, 23143), (Start: 18 @23158 has 4 MA's), (Start: 21 @23170 has 4 MA's), (40, 23326),

Gene: TG1_28 Start: 22747, Stop: 22926, Start Num: 21
Candidate Starts for TG1_28:
(Start: 21 @22747 has 4 MA's), (24, 22786), (28, 22813), (30, 22822), (35, 22876), (40, 22903), (41, 22909),

Gene: Vash_29 Start: 22552, Stop: 22731, Start Num: 21
Candidate Starts for Vash_29:
(3, 22393), (13, 22525), (16, 22534), (Start: 18 @22540 has 4 MA's), (Start: 21 @22552 has 4 MA's), (40, 22708), (41, 22714),

Gene: phiBT1_5 Start: 23996, Stop: 24181, Start Num: 18
Candidate Starts for phiBT1_5:
(Start: 18 @23996 has 4 MA's), (35, 24137), (40, 24164),

Gene: phiSASD1_9 Start: 24653, Stop: 24847, Start Num: 20
Candidate Starts for phiSASD1_9:
(Start: 20 @24653 has 1 MA's), (22, 24668), (Start: 25 @24707 has 1 MA's), (33, 24782),