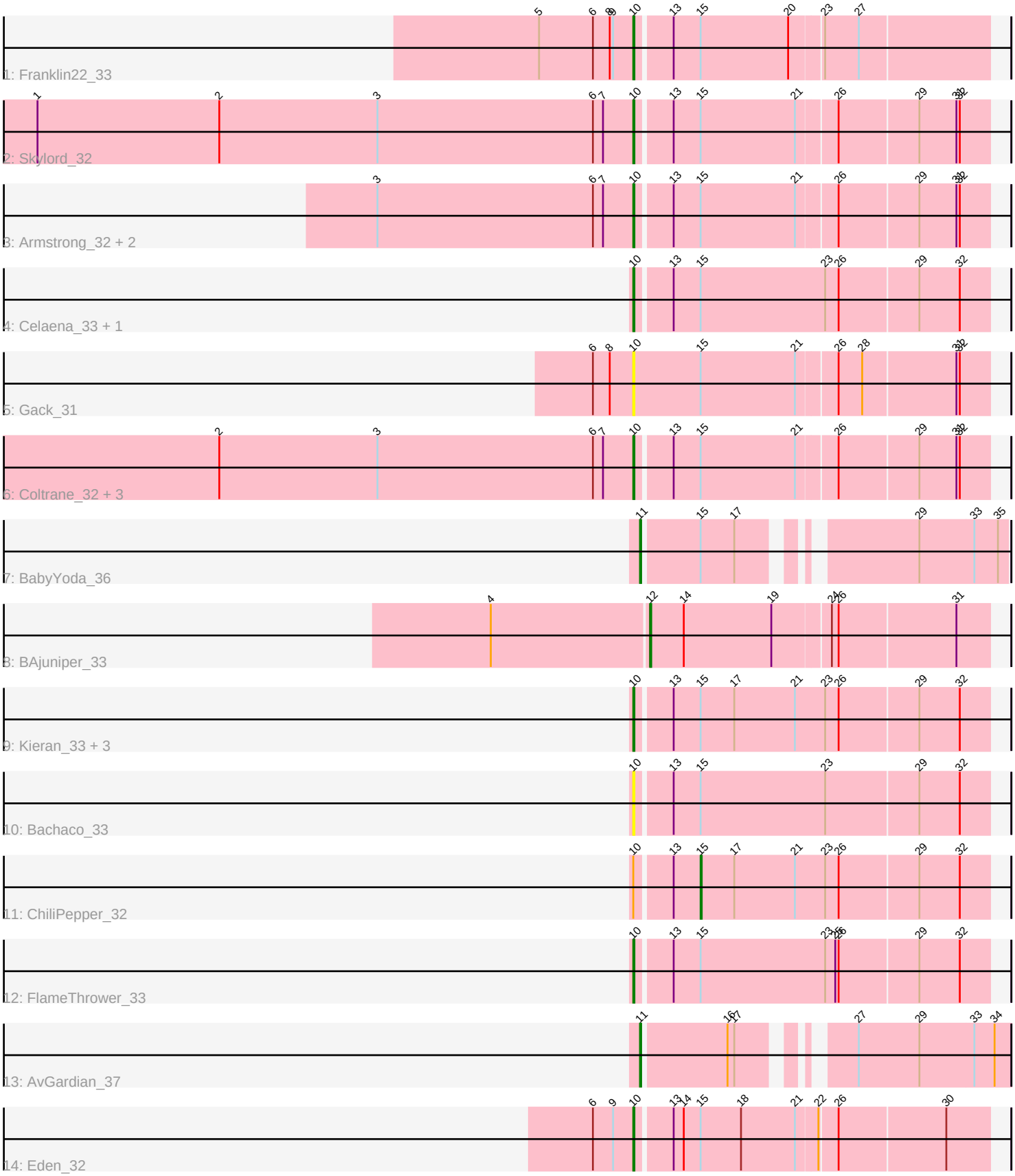
Pham 3868


1: Franklin22_33
2: Skylord_32
3: Armstrong_32 + 2
4: Celaena_33 + 1
5: Gack_31
6: Coltrane_32 + 3
7: BabyYoda_36
8: BAjuniper_33
9: Kieran_33 + 3
10: Bachaco_33
11: ChiliPepper_32
12: FlameThrower_33
13: AvGardian_37
14: Eden_32

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 3868 Report

This analysis was run 04/28/24 on database version 559.

Pham number 3868 has 23 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Franklin22_33
• Track 2 : Skylord_32
• Track 3 : Armstrong_32, Vitas_32, Clayda5_33
• Track 4 : Celaena_33, Katzastrophic_34
• Track 5 : Gack_31
• Track 6 : Coltrane_32, Brahms_32, Bernstein_32, Rollins_32
• Track 7 : BabyYoda_36
• Track 8 : BAjuniper_33
• Track 9 : Kieran_33, Rona_33, Sharkboy_34, Dismas_33
• Track 10 : Bachaco_33
• Track 11 : ChiliPepper_32
• Track 12 : FlameThrower_33
• Track 13 : AvGardian_37
• Track 14 : Eden_32

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 17 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Armstrong_32, Bachaco_33, Bernstein_32, Brahms_32, Celaena_33, Clayda5_33, Coltrane_32, Dismas_33, Eden_32, FlameThrower_33, Franklin22_33, Gack_31, Katzastrophic_34, Kieran_33, Rollins_32, Rona_33, Sharkboy_34, Skylord_32, Vitas_32,

Genes that have the "Most Annotated" start but do not call it:
• ChiliPepper_32,

Genes that do not have the "Most Annotated" start:
• AvGardian_37, BAjuniper_33, BabyYoda_36,

Summary by start number:

Start 10:
• Found in 20 of 23 (87.0%) of genes in pham
• Manual Annotations of this start: 17 of 21
• Called 95.0% of time when present
• Phage (with cluster) where this start called: Armstrong_32 (EB), Bachaco_33 (EB), Bernstein_32 (EB), Brahms_32 (EB), Celaena_33 (EB), Clayda5_33 (EB), Coltrane_32 (EB), Dismas_33 (EB), Eden_32 (EB), FlameThrower_33 (EB), Franklin22_33 (EB), Gack_31 (EB), Katzastrophic_34 (EB), Kieran_33 (EB), Rollins_32 (EB), Rona_33 (EB), Sharkboy_34 (EB), Skylord_32 (EB), Vitas_32 (EB),

Start 11:
• Found in 2 of 23 (8.7%) of genes in pham
• Manual Annotations of this start: 2 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AvGardian_37 (EB), BabyYoda_36 (EB),

Start 12:
• Found in 1 of 23 (4.3%) of genes in pham
• Manual Annotations of this start: 1 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BAjuniper_33 (EB),

Start 15:
• Found in 21 of 23 (91.3%) of genes in pham
• Manual Annotations of this start: 1 of 21
• Called 4.8% of time when present
• Phage (with cluster) where this start called: ChiliPepper_32 (EB),

Summary by clusters:

There is one cluster represented in this pham: EB

Info for manual annotations of cluster EB:
•Start number 10 was manually annotated 17 times for cluster EB.
•Start number 11 was manually annotated 2 times for cluster EB.
•Start number 12 was manually annotated 1 time for cluster EB.
•Start number 15 was manually annotated 1 time for cluster EB.

Gene Information:

Gene: Armstrong_32 Start: 23344, Stop: 23042, Start Num: 10
Candidate Starts for Armstrong_32:
(3, 23572), (6, 23380), (7, 23371), (Start: 10 @23344 has 17 MA's), (13, 23314), (Start: 15 @23290 has 1 MA's), (21, 23206), (26, 23173), (29, 23104), (31, 23071), (32, 23068),

Gene: AvGardian_37 Start: 25902, Stop: 25618, Start Num: 11
Candidate Starts for AvGardian_37:
(Start: 11 @25902 has 2 MA's), (16, 25830), (17, 25824), (27, 25752), (29, 25698), (33, 25650), (34, 25632),

Gene: BAjuniper_33 Start: 26085, Stop: 25792, Start Num: 12
Candidate Starts for BAjuniper_33:
(4, 26223), (Start: 12 @26085 has 1 MA's), (14, 26055), (19, 25977), (24, 25929), (26, 25923), (31, 25821),

Gene: BabyYoda_36 Start: 26522, Stop: 26241, Start Num: 11
Candidate Starts for BabyYoda_36:
(Start: 11 @26522 has 2 MA's), (Start: 15 @26474 has 1 MA's), (17, 26444), (29, 26318), (33, 26270), (35, 26249),

Gene: Bachaco_33 Start: 26540, Stop: 26232, Start Num: 10
Candidate Starts for Bachaco_33:
(Start: 10 @26540 has 17 MA's), (13, 26510), (Start: 15 @26486 has 1 MA's), (23, 26375), (29, 26294), (32, 26258),

Gene: Bernstein_32 Start: 23399, Stop: 23097, Start Num: 10
Candidate Starts for Bernstein_32:
(2, 23768), (3, 23627), (6, 23435), (7, 23426), (Start: 10 @23399 has 17 MA's), (13, 23369), (Start: 15 @23345 has 1 MA's), (21, 23261), (26, 23228), (29, 23159), (31, 23126), (32, 23123),

Gene: Brahms_32 Start: 23346, Stop: 23044, Start Num: 10
Candidate Starts for Brahms_32:
(2, 23715), (3, 23574), (6, 23382), (7, 23373), (Start: 10 @23346 has 17 MA's), (13, 23316), (Start: 15 @23292 has 1 MA's), (21, 23208), (26, 23175), (29, 23106), (31, 23073), (32, 23070),

Gene: Celaena_33 Start: 26290, Stop: 25982, Start Num: 10
Candidate Starts for Celaena_33:
(Start: 10 @26290 has 17 MA's), (13, 26260), (Start: 15 @26236 has 1 MA's), (23, 26125), (26, 26113), (29, 26044), (32, 26008),

Gene: ChiliPepper_32 Start: 25690, Stop: 25436, Start Num: 15
Candidate Starts for ChiliPepper_32:
(Start: 10 @25744 has 17 MA's), (13, 25714), (Start: 15 @25690 has 1 MA's), (17, 25660), (21, 25606), (23, 25579), (26, 25567), (29, 25498), (32, 25462),

Gene: Clayda5_33 Start: 23333, Stop: 23031, Start Num: 10
Candidate Starts for Clayda5_33:
(3, 23561), (6, 23369), (7, 23360), (Start: 10 @23333 has 17 MA's), (13, 23303), (Start: 15 @23279 has 1 MA's), (21, 23195), (26, 23162), (29, 23093), (31, 23060), (32, 23057),

Gene: Coltrane_32 Start: 23346, Stop: 23044, Start Num: 10
Candidate Starts for Coltrane_32:
(2, 23715), (3, 23574), (6, 23382), (7, 23373), (Start: 10 @23346 has 17 MA's), (13, 23316), (Start: 15 @23292 has 1 MA's), (21, 23208), (26, 23175), (29, 23106), (31, 23073), (32, 23070),

Gene: Dismas_33 Start: 25915, Stop: 25607, Start Num: 10
Candidate Starts for Dismas_33:
(Start: 10 @25915 has 17 MA's), (13, 25885), (Start: 15 @25861 has 1 MA's), (17, 25831), (21, 25777), (23, 25750), (26, 25738), (29, 25669), (32, 25633),

Gene: Eden_32 Start: 23634, Stop: 23332, Start Num: 10
Candidate Starts for Eden_32:

(6, 23670), (9, 23652), (Start: 10 @23634 has 17 MA's), (13, 23604), (14, 23595), (Start: 15 @23580 has 1 MA's), (18, 23544), (21, 23496), (22, 23478), (26, 23463), (30, 23370),

Gene: FlameThrower_33 Start: 25740, Stop: 25432, Start Num: 10
Candidate Starts for FlameThrower_33:
(Start: 10 @25740 has 17 MA's), (13, 25710), (Start: 15 @25686 has 1 MA's), (23, 25575), (25, 25566), (26, 25563), (29, 25494), (32, 25458),

Gene: Franklin22_33 Start: 23652, Stop: 23350, Start Num: 10
Candidate Starts for Franklin22_33:
(5, 23736), (6, 23688), (8, 23673), (9, 23670), (Start: 10 @23652 has 17 MA's), (13, 23622), (Start: 15 @23598 has 1 MA's), (20, 23520), (23, 23493), (27, 23463),

Gene: Gack_31 Start: 23404, Stop: 23096, Start Num: 10
Candidate Starts for Gack_31:
(6, 23440), (8, 23425), (Start: 10 @23404 has 17 MA's), (Start: 15 @23344 has 1 MA's), (21, 23260), (26, 23227), (28, 23206), (31, 23125), (32, 23122),

Gene: Katzastrophic_34 Start: 25869, Stop: 25561, Start Num: 10
Candidate Starts for Katzastrophic_34:
(Start: 10 @25869 has 17 MA's), (13, 25839), (Start: 15 @25815 has 1 MA's), (23, 25704), (26, 25692), (29, 25623), (32, 25587),

Gene: Kieran_33 Start: 25924, Stop: 25616, Start Num: 10
Candidate Starts for Kieran_33:
(Start: 10 @25924 has 17 MA's), (13, 25894), (Start: 15 @25870 has 1 MA's), (17, 25840), (21, 25786), (23, 25759), (26, 25747), (29, 25678), (32, 25642),

Gene: Rollins_32 Start: 23399, Stop: 23097, Start Num: 10
Candidate Starts for Rollins_32:
(2, 23768), (3, 23627), (6, 23435), (7, 23426), (Start: 10 @23399 has 17 MA's), (13, 23369), (Start: 15 @23345 has 1 MA's), (21, 23261), (26, 23228), (29, 23159), (31, 23126), (32, 23123),

Gene: Rona_33 Start: 25906, Stop: 25598, Start Num: 10
Candidate Starts for Rona_33:
(Start: 10 @25906 has 17 MA's), (13, 25876), (Start: 15 @25852 has 1 MA's), (17, 25822), (21, 25768), (23, 25741), (26, 25729), (29, 25660), (32, 25624),

Gene: Sharkboy_34 Start: 26005, Stop: 25697, Start Num: 10
Candidate Starts for Sharkboy_34:
(Start: 10 @26005 has 17 MA's), (13, 25975), (Start: 15 @25951 has 1 MA's), (17, 25921), (21, 25867), (23, 25840), (26, 25828), (29, 25759), (32, 25723),

Gene: Skylord_32 Start: 23330, Stop: 23028, Start Num: 10
Candidate Starts for Skylord_32:
(1, 23861), (2, 23699), (3, 23558), (6, 23366), (7, 23357), (Start: 10 @23330 has 17 MA's), (13, 23300), (Start: 15 @23276 has 1 MA's), (21, 23192), (26, 23159), (29, 23090), (31, 23057), (32, 23054),

Gene: Vitas_32 Start: 23339, Stop: 23037, Start Num: 10
Candidate Starts for Vitas_32:
(3, 23567), (6, 23375), (7, 23366), (Start: 10 @23339 has 17 MA's), (13, 23309), (Start: 15 @23285 has 1 MA's), (21, 23201), (26, 23168), (29, 23099), (31, 23066), (32, 23063),