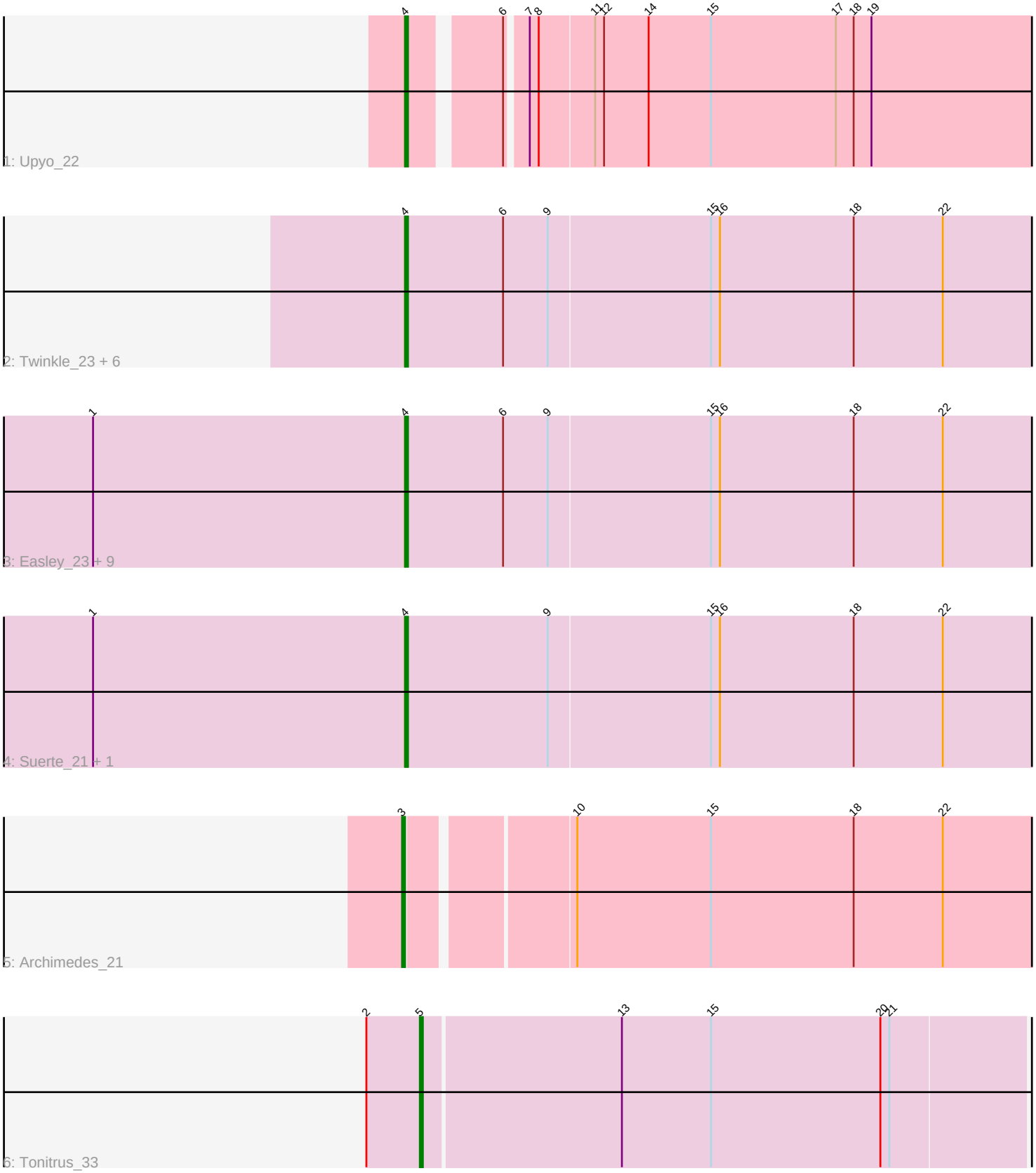
Pham 190076


4
6
7
8
11
12
14
15
17
18
19
1: Upyo_22
4
6
9
15
16
18
22
2: Twinkle_23 + 6
1
4
6
9
15
16
18
22
3: Easley_23 + 9
1
4
9
15
16
18
22
4: Suerte_21 + 1
3
10
15
18
22
5: Archimedes_21
2
5
13
15
20
21
6: Tonitrus_33

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 190076 Report

This analysis was run 11/02/24 on database version 579.

Pham number 190076 has 22 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Upyo_22
• Track 2 : Twinkle_23, Shlim410_23, Howe_23, Beenie_23, Mcklovin_23, Hortense_23, Adora_23
• Track 3 : Easley_23, Dolores_23, MichaelScott_23, Sekhmet_23, Samman98_23, DobbysSock_22, WinkNick_23, Clark_23, Oregano_23, Annalisa_23
• Track 4 : Suerte_21, Thimann_23
• Track 5 : Archimedes_21
• Track 6 : Tonitrus_33

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

The start number called the most often in the published annotations is 4, it was called in 19 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Adora_23, Annalisa_23, Beenie_23, Clark_23, DobbysSock_22, Dolores_23, Easley_23, Hortense_23, Howe_23, Mcklovin_23, MichaelScott_23, Oregano_23, Samman98_23, Sekhmet_23, Shlim410_23, Suerte_21, Thimann_23, Twinkle_23, Upyo_22, WinkNick_23,

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

Genes that do not have the "Most Annotated" start:
• Archimedes_21, Tonitrus_33,

Summary by start number:

Start 3:
• Found in 1 of 22 (4.5%) 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: Archimedes_21 (DA),

Start 4:
• Found in 20 of 22 (90.9%) of genes in pham
• Manual Annotations of this start: 19 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adora_23 (CZ4), Annalisa_23 (CZ4), Beenie_23 (CZ4), Clark_23 (CZ4), DobbysSock_22 (CZ4), Dolores_23 (CZ4), Easley_23 (CZ4), Hortense_23 (CZ4), Howe_23 (CZ4), Mcklovin_23 (CZ4), MichaelScott_23 (CZ4), Oregano_23 (CZ4), Samman98_23 (CZ4), Sekhmet_23 (CZ4), Shlim410_23 (CZ4), Suerte_21 (CZ4), Thimann_23 (CZ4), Twinkle_23 (CZ4), Upyo_22 (CD), WinkNick_23 (CZ4),

Start 5:
• Found in 1 of 22 (4.5%) 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: Tonitrus_33 (singleton),

Summary by clusters:

There are 4 clusters represented in this pham: singleton, DA, CZ4, CD,

Info for manual annotations of cluster CD:
•Start number 4 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster CZ4:
•Start number 4 was manually annotated 18 times for cluster CZ4.

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

Gene Information:

Gene: Adora_23 Start: 21051, Stop: 21284, Start Num: 4
Candidate Starts for Adora_23:
(Start: 4 @21051 has 19 MA's), (6, 21084), (9, 21099), (15, 21153), (16, 21156), (18, 21201), (22, 21231),

Gene: Annalisa_23 Start: 20513, Stop: 20746, Start Num: 4
Candidate Starts for Annalisa_23:
(1, 20408), (Start: 4 @20513 has 19 MA's), (6, 20546), (9, 20561), (15, 20615), (16, 20618), (18, 20663), (22, 20693),

Gene: Archimedes_21 Start: 19115, Stop: 19348, Start Num: 3
Candidate Starts for Archimedes_21:
(Start: 3 @19115 has 1 MA's), (10, 19166), (15, 19211), (18, 19259), (22, 19289),

Gene: Beenie_23 Start: 20870, Stop: 21103, Start Num: 4
Candidate Starts for Beenie_23:
(Start: 4 @20870 has 19 MA's), (6, 20903), (9, 20918), (15, 20972), (16, 20975), (18, 21020), (22, 21050),

Gene: Clark_23 Start: 20513, Stop: 20746, Start Num: 4
Candidate Starts for Clark_23:
(1, 20408), (Start: 4 @20513 has 19 MA's), (6, 20546), (9, 20561), (15, 20615), (16, 20618), (18, 20663), (22, 20693),

Gene: DobbysSock_22 Start: 19987, Stop: 20220, Start Num: 4
Candidate Starts for DobbysSock_22:
(1, 19882), (Start: 4 @19987 has 19 MA's), (6, 20020), (9, 20035), (15, 20089), (16, 20092), (18, 20137), (22, 20167),

Gene: Dolores_23 Start: 20489, Stop: 20722, Start Num: 4
Candidate Starts for Dolores_23:
(1, 20384), (Start: 4 @20489 has 19 MA's), (6, 20522), (9, 20537), (15, 20591), (16, 20594), (18, 20639), (22, 20669),

Gene: Easley_23 Start: 20499, Stop: 20732, Start Num: 4
Candidate Starts for Easley_23:
(1, 20394), (Start: 4 @20499 has 19 MA's), (6, 20532), (9, 20547), (15, 20601), (16, 20604), (18, 20649), (22, 20679),

Gene: Hortense_23 Start: 21098, Stop: 21331, Start Num: 4
Candidate Starts for Hortense_23:
(Start: 4 @21098 has 19 MA's), (6, 21131), (9, 21146), (15, 21200), (16, 21203), (18, 21248), (22, 21278),

Gene: Howe_23 Start: 21098, Stop: 21331, Start Num: 4
Candidate Starts for Howe_23:
(Start: 4 @21098 has 19 MA's), (6, 21131), (9, 21146), (15, 21200), (16, 21203), (18, 21248), (22, 21278),

Gene: Mcklovin_23 Start: 23267, Stop: 23500, Start Num: 4
Candidate Starts for Mcklovin_23:
(Start: 4 @23267 has 19 MA's), (6, 23300), (9, 23315), (15, 23369), (16, 23372), (18, 23417), (22, 23447),

Gene: MichaelScott_23 Start: 20870, Stop: 21103, Start Num: 4
Candidate Starts for MichaelScott_23:
(1, 20765), (Start: 4 @20870 has 19 MA's), (6, 20903), (9, 20918), (15, 20972), (16, 20975), (18, 21020), (22, 21050),

Gene: Oregano_23 Start: 20535, Stop: 20768, Start Num: 4
Candidate Starts for Oregano_23:
(1, 20430), (Start: 4 @20535 has 19 MA's), (6, 20568), (9, 20583), (15, 20637), (16, 20640), (18, 20685), (22, 20715),

Gene: Samman98_23 Start: 20504, Stop: 20737, Start Num: 4
Candidate Starts for Samman98_23:
(1, 20399), (Start: 4 @20504 has 19 MA's), (6, 20537), (9, 20552), (15, 20606), (16, 20609), (18, 20654), (22, 20684),

Gene: Sekhmet_23 Start: 20864, Stop: 21097, Start Num: 4
Candidate Starts for Sekhmet_23:

(1, 20759), (Start: 4 @20864 has 19 MA's), (6, 20897), (9, 20912), (15, 20966), (16, 20969), (18, 21014), (22, 21044),

Gene: Shlim410_23 Start: 21098, Stop: 21331, Start Num: 4
Candidate Starts for Shlim410_23:
(Start: 4 @21098 has 19 MA's), (6, 21131), (9, 21146), (15, 21200), (16, 21203), (18, 21248), (22, 21278),

Gene: Suerte_21 Start: 19988, Stop: 20221, Start Num: 4
Candidate Starts for Suerte_21:
(1, 19883), (Start: 4 @19988 has 19 MA's), (9, 20036), (15, 20090), (16, 20093), (18, 20138), (22, 20168),

Gene: Thimann_23 Start: 20456, Stop: 20689, Start Num: 4
Candidate Starts for Thimann_23:
(1, 20351), (Start: 4 @20456 has 19 MA's), (9, 20504), (15, 20558), (16, 20561), (18, 20606), (22, 20636),

Gene: Tonitrus_33 Start: 22454, Stop: 22666, Start Num: 5
Candidate Starts for Tonitrus_33:
(2, 22436), (Start: 5 @22454 has 1 MA's), (13, 22520), (15, 22550), (20, 22607), (21, 22610),

Gene: Twinkle_23 Start: 22157, Stop: 22390, Start Num: 4
Candidate Starts for Twinkle_23:
(Start: 4 @22157 has 19 MA's), (6, 22190), (9, 22205), (15, 22259), (16, 22262), (18, 22307), (22, 22337),

Gene: Upyo_22 Start: 18567, Stop: 18791, Start Num: 4
Candidate Starts for Upyo_22:
(Start: 4 @18567 has 19 MA's), (6, 18594), (7, 18600), (8, 18603), (11, 18621), (12, 18624), (14, 18639), (15, 18660), (17, 18702), (18, 18708), (19, 18714),

Gene: WinkNick_23 Start: 20489, Stop: 20722, Start Num: 4
Candidate Starts for WinkNick_23:
(1, 20384), (Start: 4 @20489 has 19 MA's), (6, 20522), (9, 20537), (15, 20591), (16, 20594), (18, 20639), (22, 20669),