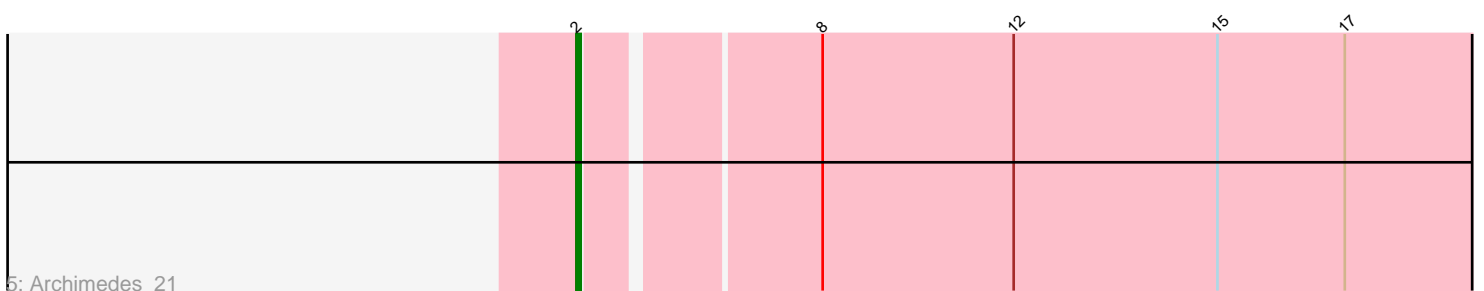
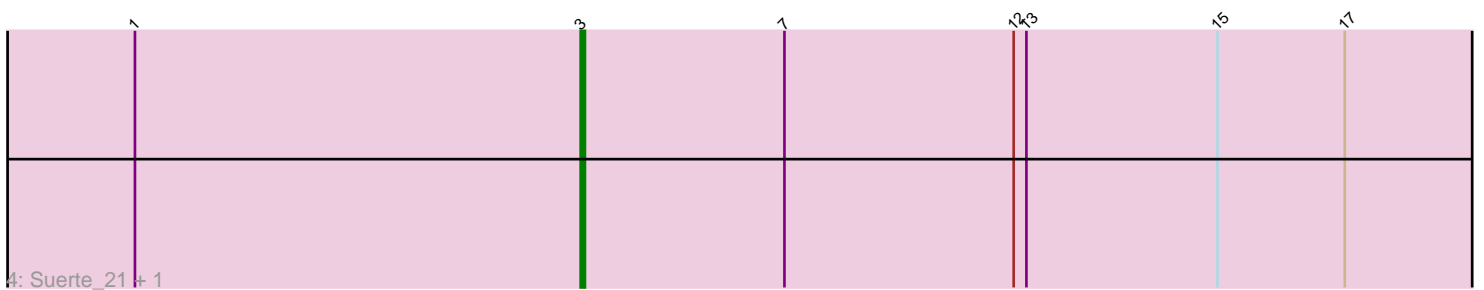
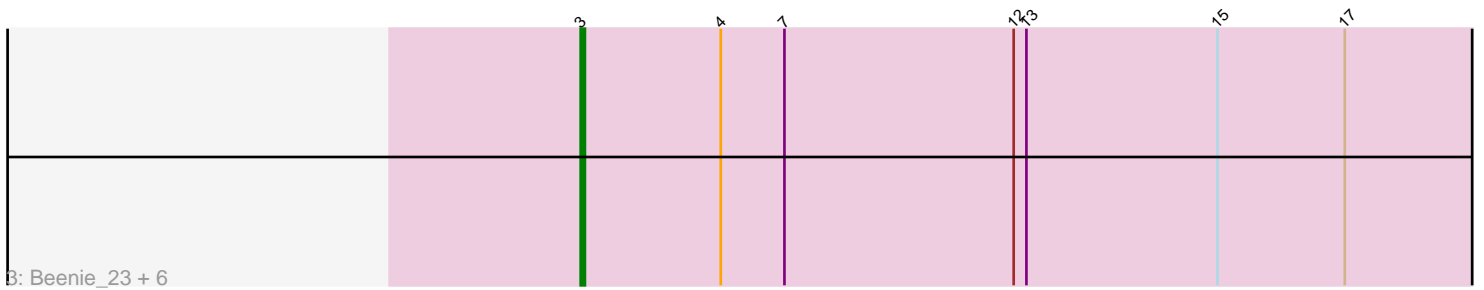
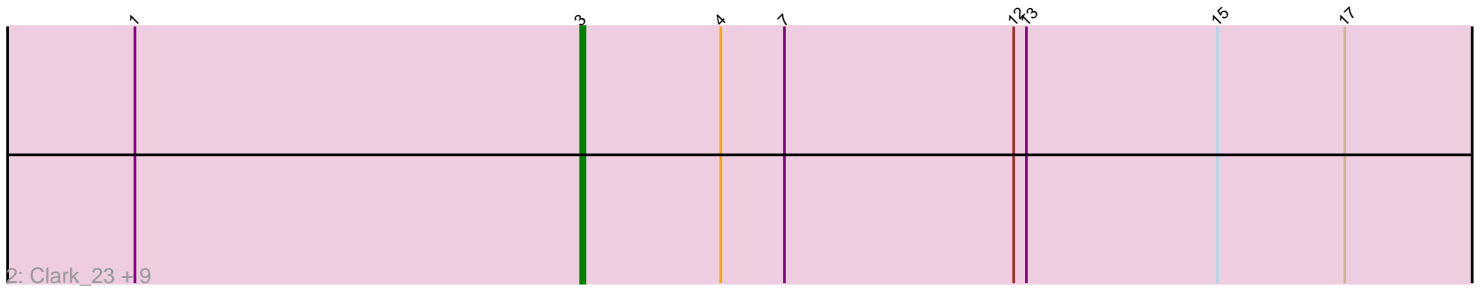
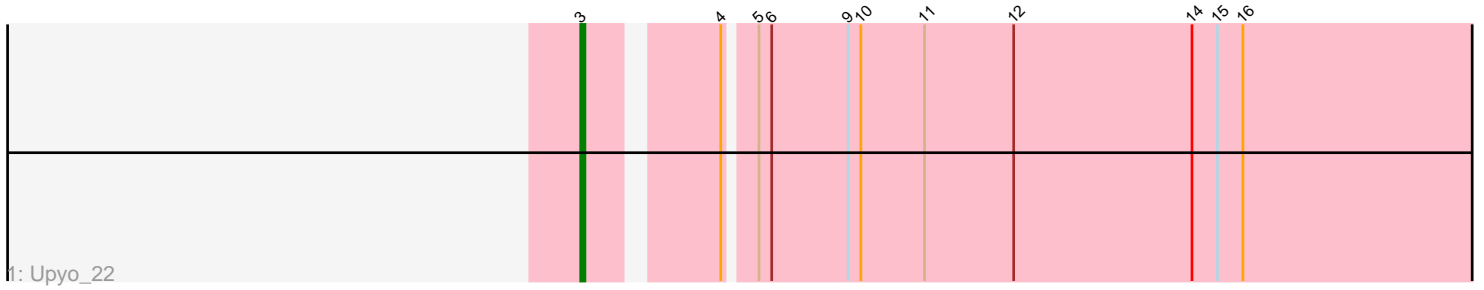


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 196838 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196838 has 21 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Upyo\_22
- Track 2 : Clark\_23, Dolores\_23, MichaelScott\_23, Annalisa\_23, Samman98\_23, Easley\_23, Oregano\_23, DobbysSock\_22, Sekhmet\_23, WinkNick\_23
- Track 3 : Beenie\_23, Hortense\_23, Twinkle\_23, Shlim410\_23, Adora\_23, Howe\_23, Mcklovin\_23
- Track 4 : Suerte\_21, Thimann\_23
- Track 5 : Archimedes\_21

### ***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 19 of the 20 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,

### **Summary by start number:**

Start 2:

- Found in 1 of 21 ( 4.8% ) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Archimedes\_21 (DA),

Start 3:

- Found in 20 of 21 ( 95.2% ) of genes in pham
- Manual Annotations of this start: 19 of 20
- 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),

### **Summary by clusters:**

There are 3 clusters represented in this pham: DA, CZ4, CD,

Info for manual annotations of cluster CD:

- Start number 3 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster CZ4:

- Start number 3 was manually annotated 18 times for cluster CZ4.

Info for manual annotations of cluster DA:

- Start number 2 was manually annotated 1 time for cluster DA.

### **Gene Information:**

Gene: Adora\_23 Start: 21051, Stop: 21284, Start Num: 3

Candidate Starts for Adora\_23:

(Start: 3 @21051 has 19 MA's), (4, 21084), (7, 21099), (12, 21153), (13, 21156), (15, 21201), (17, 21231),

Gene: Annalisa\_23 Start: 20513, Stop: 20746, Start Num: 3

Candidate Starts for Annalisa\_23:

(1, 20408), (Start: 3 @20513 has 19 MA's), (4, 20546), (7, 20561), (12, 20615), (13, 20618), (15, 20663), (17, 20693),

Gene: Archimedes\_21 Start: 19115, Stop: 19348, Start Num: 2

Candidate Starts for Archimedes\_21:

(Start: 2 @19115 has 1 MA's), (8, 19166), (12, 19211), (15, 19259), (17, 19289),

Gene: Beenie\_23 Start: 20870, Stop: 21103, Start Num: 3

Candidate Starts for Beenie\_23:

(Start: 3 @20870 has 19 MA's), (4, 20903), (7, 20918), (12, 20972), (13, 20975), (15, 21020), (17, 21050),

Gene: Clark\_23 Start: 20513, Stop: 20746, Start Num: 3

Candidate Starts for Clark\_23:

(1, 20408), (Start: 3 @20513 has 19 MA's), (4, 20546), (7, 20561), (12, 20615), (13, 20618), (15, 20663), (17, 20693),

Gene: DobbysSock\_22 Start: 19987, Stop: 20220, Start Num: 3

Candidate Starts for DobbysSock\_22:

(1, 19882), (Start: 3 @19987 has 19 MA's), (4, 20020), (7, 20035), (12, 20089), (13, 20092), (15, 20137), (17, 20167),

Gene: Dolores\_23 Start: 20489, Stop: 20722, Start Num: 3

Candidate Starts for Dolores\_23:

(1, 20384), (Start: 3 @20489 has 19 MA's), (4, 20522), (7, 20537), (12, 20591), (13, 20594), (15, 20639), (17, 20669),

Gene: Easley\_23 Start: 20499, Stop: 20732, Start Num: 3

Candidate Starts for Easley\_23:

(1, 20394), (Start: 3 @20499 has 19 MA's), (4, 20532), (7, 20547), (12, 20601), (13, 20604), (15, 20649), (17, 20679),

Gene: Hortense\_23 Start: 21098, Stop: 21331, Start Num: 3

Candidate Starts for Hortense\_23:

(Start: 3 @21098 has 19 MA's), (4, 21131), (7, 21146), (12, 21200), (13, 21203), (15, 21248), (17, 21278),

Gene: Howe\_23 Start: 21098, Stop: 21331, Start Num: 3

Candidate Starts for Howe\_23:

(Start: 3 @21098 has 19 MA's), (4, 21131), (7, 21146), (12, 21200), (13, 21203), (15, 21248), (17, 21278),

Gene: Mcklovin\_23 Start: 23267, Stop: 23500, Start Num: 3

Candidate Starts for Mcklovin\_23:

(Start: 3 @23267 has 19 MA's), (4, 23300), (7, 23315), (12, 23369), (13, 23372), (15, 23417), (17, 23447),

Gene: MichaelScott\_23 Start: 20870, Stop: 21103, Start Num: 3

Candidate Starts for MichaelScott\_23:

(1, 20765), (Start: 3 @20870 has 19 MA's), (4, 20903), (7, 20918), (12, 20972), (13, 20975), (15, 21020), (17, 21050),

Gene: Oregano\_23 Start: 20535, Stop: 20768, Start Num: 3

Candidate Starts for Oregano\_23:

(1, 20430), (Start: 3 @20535 has 19 MA's), (4, 20568), (7, 20583), (12, 20637), (13, 20640), (15, 20685), (17, 20715),

Gene: Samman98\_23 Start: 20504, Stop: 20737, Start Num: 3

Candidate Starts for Samman98\_23:

(1, 20399), (Start: 3 @20504 has 19 MA's), (4, 20537), (7, 20552), (12, 20606), (13, 20609), (15, 20654), (17, 20684),

Gene: Sekhmet\_23 Start: 20864, Stop: 21097, Start Num: 3

Candidate Starts for Sekhmet\_23:

(1, 20759), (Start: 3 @20864 has 19 MA's), (4, 20897), (7, 20912), (12, 20966), (13, 20969), (15, 21014), (17, 21044),

Gene: Shlim410\_23 Start: 21098, Stop: 21331, Start Num: 3

Candidate Starts for Shlim410\_23:

(Start: 3 @21098 has 19 MA's), (4, 21131), (7, 21146), (12, 21200), (13, 21203), (15, 21248), (17, 21278),

Gene: Suerte\_21 Start: 19988, Stop: 20221, Start Num: 3

Candidate Starts for Suerte\_21:

(1, 19883), (Start: 3 @19988 has 19 MA's), (7, 20036), (12, 20090), (13, 20093), (15, 20138), (17, 20168),

Gene: Thimann\_23 Start: 20456, Stop: 20689, Start Num: 3

Candidate Starts for Thimann\_23:

(1, 20351), (Start: 3 @20456 has 19 MA's), (7, 20504), (12, 20558), (13, 20561), (15, 20606), (17, 20636),

Gene: Twinkle\_23 Start: 22157, Stop: 22390, Start Num: 3

Candidate Starts for Twinkle\_23:

(Start: 3 @22157 has 19 MA's), (4, 22190), (7, 22205), (12, 22259), (13, 22262), (15, 22307), (17, 22337),

Gene: Upyo\_22 Start: 18567, Stop: 18791, Start Num: 3

Candidate Starts for Upyo\_22:

(Start: 3 @18567 has 19 MA's), (4, 18594), (5, 18600), (6, 18603), (9, 18621), (10, 18624), (11, 18639), (12, 18660), (14, 18702), (15, 18708), (16, 18714),

Gene: WinkNick\_23 Start: 20489, Stop: 20722, Start Num: 3

Candidate Starts for WinkNick\_23:

(1, 20384), (Start: 3 @20489 has 19 MA's), (4, 20522), (7, 20537), (12, 20591), (13, 20594), (15, 20639), (17, 20669),