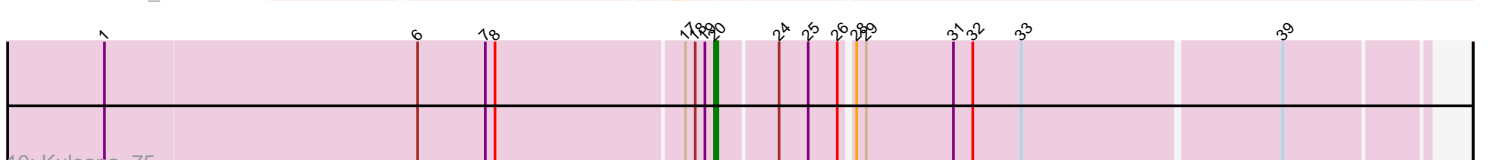
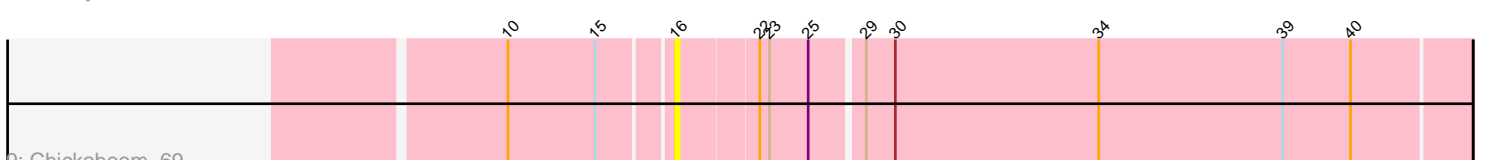
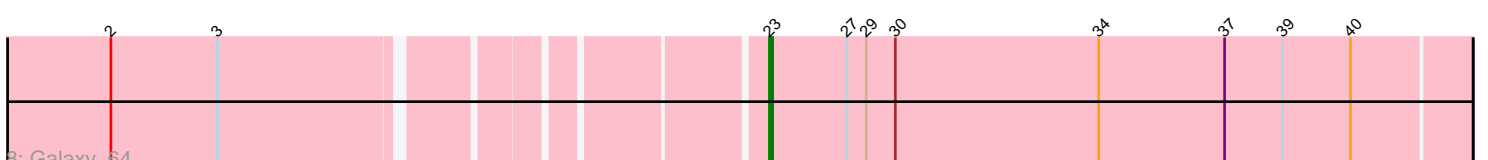
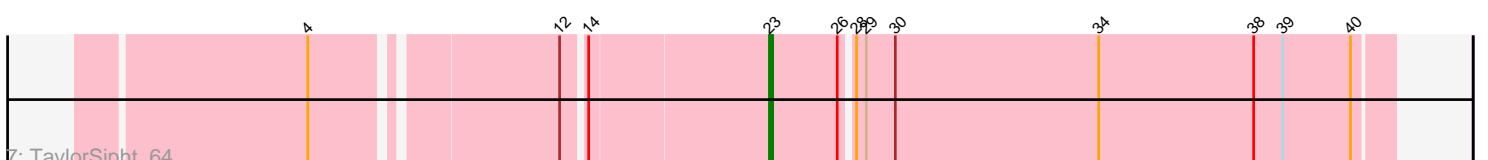
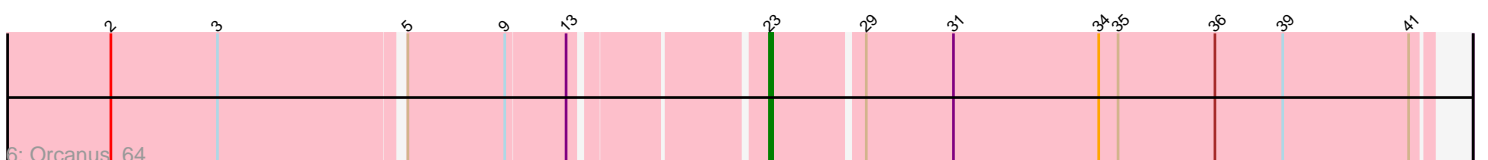
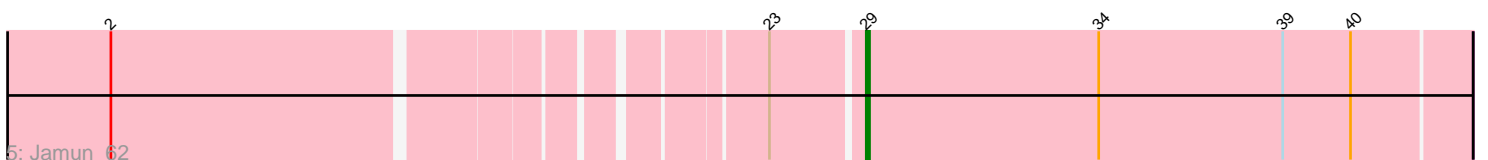
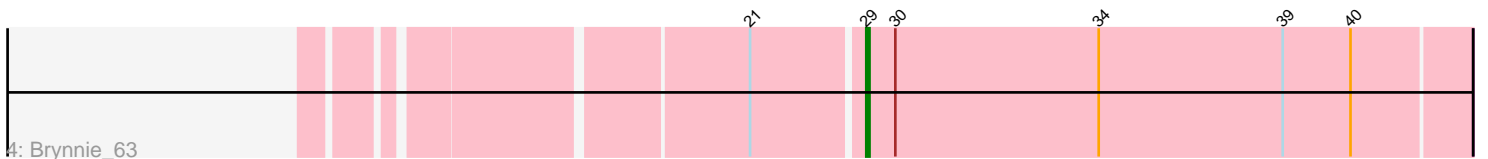
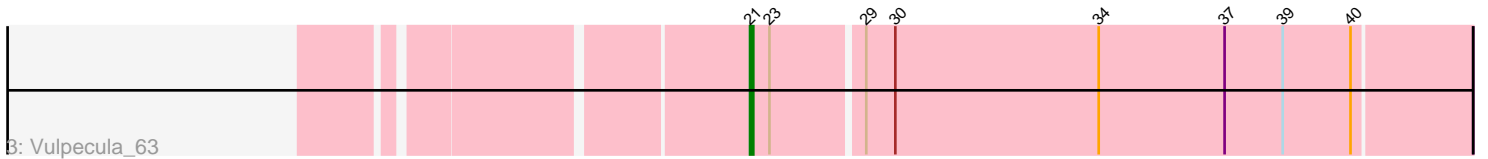
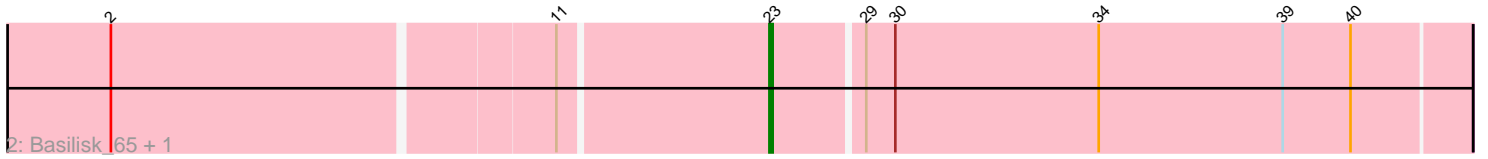
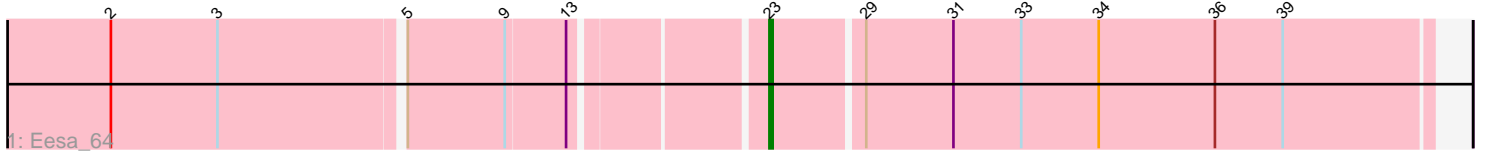


Pham 171946



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 171946 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171946 has 11 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Eesa_64
- Track 2 : Basilisk_65, Ruchi_63
- Track 3 : Vulpecula_63
- Track 4 : Brynnie_63
- Track 5 : Jamun_62
- Track 6 : Orcanus_64
- Track 7 : TaylorSipht_64
- Track 8 : Galaxy_64
- Track 9 : Chickaboom_69
- Track 10 : Kuleana_75

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

The start number called the most often in the published annotations is 23, it was called in 6 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Basilisk_65, Eesa_64, Galaxy_64, Orcanus_64, Ruchi_63, TaylorSipht_64,

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

- Chickaboom_69, Jamun_62, Vulpecula_63,

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

- Brynnie_63, Kuleana_75,

Summary by start number:

Start 16:

- Found in 1 of 11 (9.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chickaboom_69 (AS1),

Start 20:

- Found in 1 of 11 (9.1%) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kuleana_75 (AS2),

Start 21:

- Found in 2 of 11 (18.2%) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Vulpecula_63 (AS1),

Start 23:

- Found in 9 of 11 (81.8%) of genes in pham
- Manual Annotations of this start: 6 of 10
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Basilisk_65 (AS1), Eesa_64 (AS1), Galaxy_64 (AS1), Orcanus_64 (AS1), Ruchi_63 (AS1), TaylorSipht_64 (AS1),

Start 29:

- Found in 11 of 11 (100.0%) of genes in pham
- Manual Annotations of this start: 2 of 10
- Called 18.2% of time when present
- Phage (with cluster) where this start called: Brynnie_63 (AS1), Jamun_62 (AS1),

Summary by clusters:

There are 2 clusters represented in this pham: AS2, AS1,

Info for manual annotations of cluster AS1:

- Start number 21 was manually annotated 1 time for cluster AS1.
- Start number 23 was manually annotated 6 times for cluster AS1.
- Start number 29 was manually annotated 2 times for cluster AS1.

Info for manual annotations of cluster AS2:

- Start number 20 was manually annotated 1 time for cluster AS2.

Gene Information:

Gene: Basilisk_65 Start: 37815, Stop: 38027, Start Num: 23

Candidate Starts for Basilisk_65:

(2, 37620), (11, 37752), (Start: 23 @37815 has 6 MA's), (Start: 29 @37842 has 2 MA's), (30, 37851), (34, 37914), (39, 37971), (40, 37992),

Gene: Brynnie_63 Start: 37788, Stop: 37973, Start Num: 29

Candidate Starts for Brynnie_63:

(Start: 21 @37755 has 1 MA's), (Start: 29 @37788 has 2 MA's), (30, 37797), (34, 37860), (39, 37917), (40, 37938),

Gene: Chickaboom_69 Start: 37896, Stop: 38135, Start Num: 16

Candidate Starts for Chickaboom_69:

(10, 37848), (15, 37875), (16, 37896), (22, 37920), (Start: 23 @37923 has 6 MA's), (25, 37935), (Start: 29 @37950 has 2 MA's), (30, 37959), (34, 38022), (39, 38079), (40, 38100),

Gene: Eesa_64 Start: 39050, Stop: 39250, Start Num: 23

Candidate Starts for Eesa_64:

(2, 38861), (3, 38894), (5, 38948), (9, 38978), (13, 38996), (Start: 23 @39050 has 6 MA's), (Start: 29 @39077 has 2 MA's), (31, 39104), (33, 39125), (34, 39149), (36, 39185), (39, 39206),

Gene: Galaxy_64 Start: 36960, Stop: 37175, Start Num: 23

Candidate Starts for Galaxy_64:

(2, 36777), (3, 36810), (Start: 23 @36960 has 6 MA's), (27, 36984), (Start: 29 @36990 has 2 MA's), (30, 36999), (34, 37062), (37, 37101), (39, 37119), (40, 37140),

Gene: Jamun_62 Start: 38028, Stop: 38213, Start Num: 29

Candidate Starts for Jamun_62:

(2, 37818), (Start: 23 @38001 has 6 MA's), (Start: 29 @38028 has 2 MA's), (34, 38100), (39, 38157), (40, 38178),

Gene: Kuleana_75 Start: 38064, Stop: 38273, Start Num: 20

Candidate Starts for Kuleana_75:

(1, 37878), (6, 37974), (7, 37995), (8, 37998), (17, 38055), (18, 38058), (19, 38061), (Start: 20 @38064 has 1 MA's), (24, 38082), (25, 38091), (26, 38100), (28, 38103), (Start: 29 @38106 has 2 MA's), (31, 38133), (32, 38139), (33, 38154), (39, 38232),

Gene: Orcanus_64 Start: 38537, Stop: 38737, Start Num: 23

Candidate Starts for Orcanus_64:

(2, 38348), (3, 38381), (5, 38435), (9, 38465), (13, 38483), (Start: 23 @38537 has 6 MA's), (Start: 29 @38564 has 2 MA's), (31, 38591), (34, 38636), (35, 38642), (36, 38672), (39, 38693), (41, 38732),

Gene: Ruchi_63 Start: 37737, Stop: 37949, Start Num: 23

Candidate Starts for Ruchi_63:

(2, 37542), (11, 37674), (Start: 23 @37737 has 6 MA's), (Start: 29 @37764 has 2 MA's), (30, 37773), (34, 37836), (39, 37893), (40, 37914),

Gene: TaylorSipht_64 Start: 38271, Stop: 38459, Start Num: 23

Candidate Starts for TaylorSipht_64:

(4, 38142), (12, 38211), (14, 38217), (Start: 23 @38271 has 6 MA's), (26, 38292), (28, 38295), (Start: 29 @38298 has 2 MA's), (30, 38307), (34, 38370), (38, 38418), (39, 38427), (40, 38448),

Gene: Vulpecula_63 Start: 36929, Stop: 37147, Start Num: 21

Candidate Starts for Vulpecula_63:

(Start: 21 @36929 has 1 MA's), (Start: 23 @36935 has 6 MA's), (Start: 29 @36962 has 2 MA's), (30, 36971), (34, 37034), (37, 37073), (39, 37091), (40, 37112),