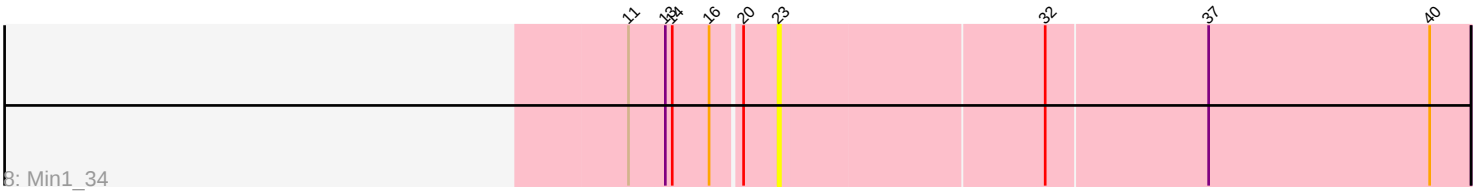
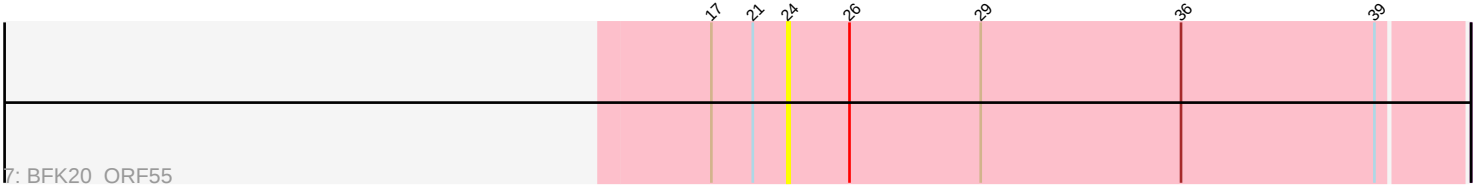
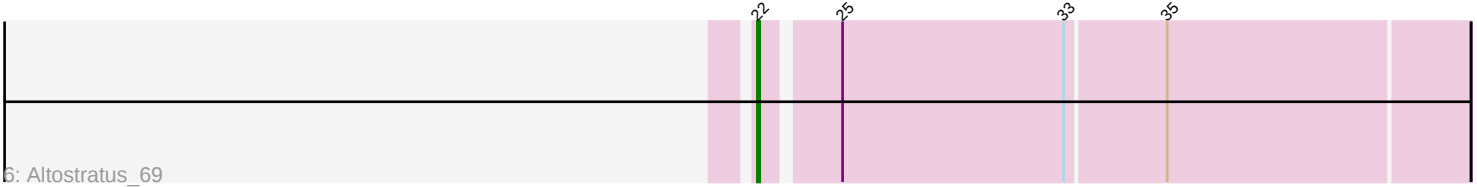
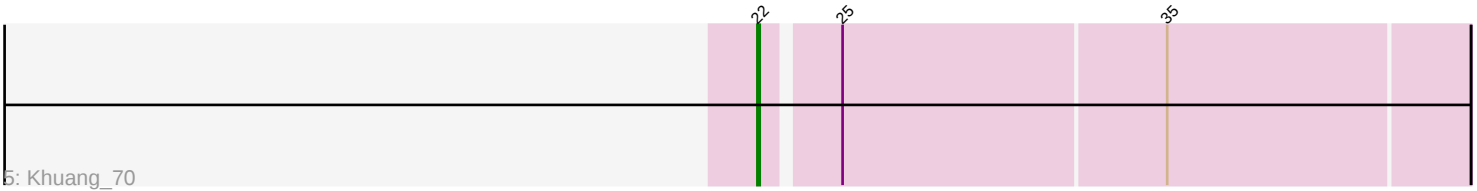
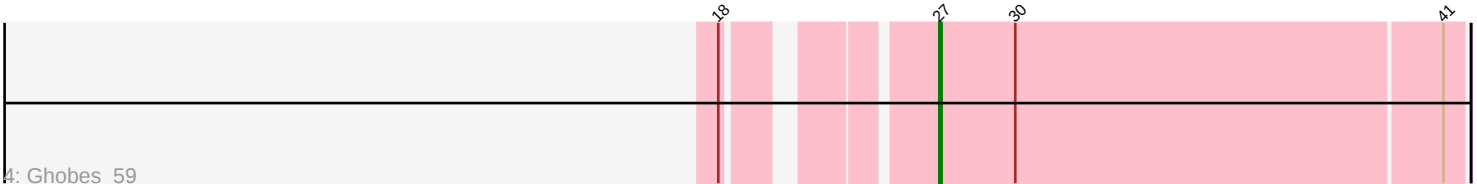
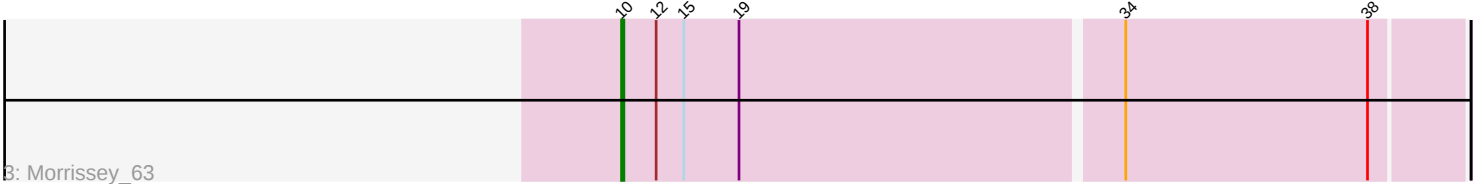
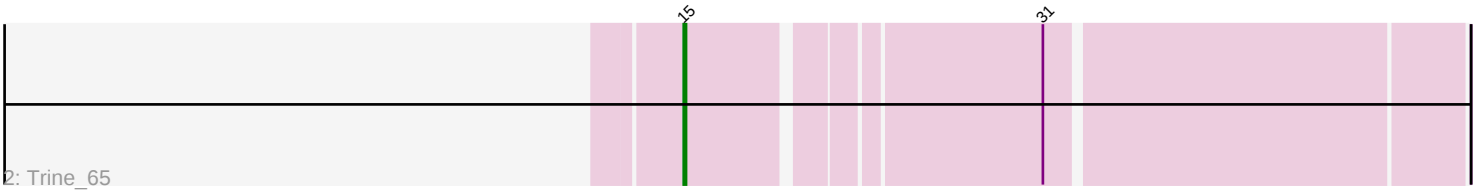
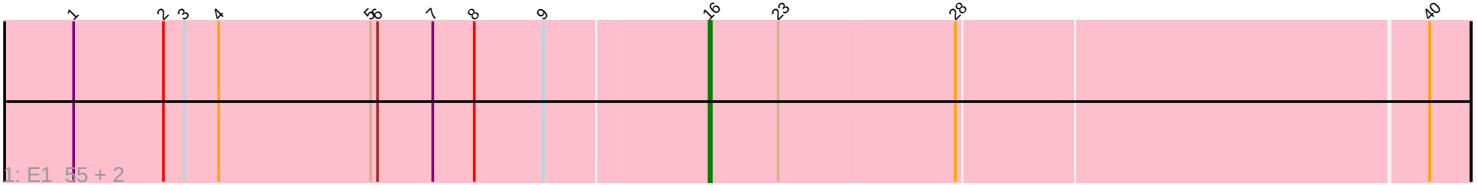


Pham 331484



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 331484 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331484 has 10 members, 2 are drafts.

Phages represented in each track:

- Track 1 : E1_55, B3_57, Anatole_55
- Track 2 : Trine_65
- Track 3 : Morrissey_63
- Track 4 : Ghobes_59
- Track 5 : Khuang_70
- Track 6 : Altostratus_69
- Track 7 : BFK20_ORF55
- Track 8 : Min1_34

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

The start number called the most often in the published annotations is 16, it was called in 3 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anatole_55, B3_57, E1_55,

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

- Min1_34,

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

- Altostratus_69, BFK20_ORF55, Ghobes_59, Khuang_70, Morrissey_63, Trine_65,

Summary by start number:

Start 10:

- Found in 1 of 10 (10.0%) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Morrissey_63 (CD),

Start 15:

- Found in 2 of 10 (20.0%) of genes in pham
- Manual Annotations of this start: 1 of 8

- Called 50.0% of time when present
- Phage (with cluster) where this start called: Trine_65 (CD),

Start 16:

- Found in 4 of 10 (40.0%) of genes in pham
- Manual Annotations of this start: 3 of 8
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Anatole_55 (BV), B3_57 (BV), E1_55 (BV),

Start 22:

- Found in 2 of 10 (20.0%) of genes in pham
- Manual Annotations of this start: 2 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altostratus_69 (FS), Khuang_70 (FS),

Start 23:

- Found in 4 of 10 (40.0%) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Min1_34 (singleton),

Start 24:

- Found in 1 of 10 (10.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BFK20_ORF55 (singleton),

Start 27:

- Found in 1 of 10 (10.0%) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ghobes_59 (DA),

Summary by clusters:

There are 5 clusters represented in this pham: BV, FS, DA, singleton, CD,

Info for manual annotations of cluster BV:

- Start number 16 was manually annotated 3 times for cluster BV.

Info for manual annotations of cluster CD:

- Start number 10 was manually annotated 1 time for cluster CD.
- Start number 15 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster DA:

- Start number 27 was manually annotated 1 time for cluster DA.

Info for manual annotations of cluster FS:

- Start number 22 was manually annotated 2 times for cluster FS.

Gene Information:

Gene: Altostratus_69 Start: 38971, Stop: 39267, Start Num: 22

Candidate Starts for Altostratus_69:

(Start: 22 @38971 has 2 MA's), (25, 39001), (33, 39097), (35, 39139),

Gene: Anatole_55 Start: 34869, Stop: 35189, Start Num: 16

Candidate Starts for Anatole_55:

(1, 34596), (2, 34635), (3, 34644), (4, 34659), (5, 34725), (6, 34728), (7, 34752), (8, 34770), (9, 34800),
(Start: 16 @34869 has 3 MA's), (23, 34899), (28, 34974), (40, 35172),

Gene: B3_57 Start: 35532, Stop: 35852, Start Num: 16

Candidate Starts for B3_57:

(1, 35259), (2, 35298), (3, 35307), (4, 35322), (5, 35388), (6, 35391), (7, 35415), (8, 35433), (9, 35463),
(Start: 16 @35532 has 3 MA's), (23, 35562), (28, 35637), (40, 35835),

Gene: BFK20_ORF55 Start: 42590, Stop: 42880, Start Num: 24

Candidate Starts for BFK20_ORF55:

(17, 42557), (21, 42575), (24, 42590), (26, 42617), (29, 42674), (36, 42761), (39, 42845),

Gene: E1_55 Start: 34794, Stop: 35114, Start Num: 16

Candidate Starts for E1_55:

(1, 34521), (2, 34560), (3, 34569), (4, 34584), (5, 34650), (6, 34653), (7, 34677), (8, 34695), (9, 34725),
(Start: 16 @34794 has 3 MA's), (23, 34824), (28, 34899), (40, 35097),

Gene: Ghobes_59 Start: 45003, Stop: 45227, Start Num: 27

Candidate Starts for Ghobes_59:

(18, 44931), (Start: 27 @45003 has 1 MA's), (30, 45036), (41, 45219),

Gene: Khuang_70 Start: 39192, Stop: 39488, Start Num: 22

Candidate Starts for Khuang_70:

(Start: 22 @39192 has 2 MA's), (25, 39222), (35, 39360),

Gene: Min1_34 Start: 16506, Stop: 16799, Start Num: 23

Candidate Starts for Min1_34:

(11, 16446), (13, 16461), (14, 16464), (Start: 16 @16479 has 3 MA's), (20, 16491), (23, 16506), (32, 16617), (37, 16686), (40, 16782),

Gene: Morrissey_63 Start: 43651, Stop: 44007, Start Num: 10

Candidate Starts for Morrissey_63:

(Start: 10 @43651 has 1 MA's), (12, 43666), (Start: 15 @43678 has 1 MA's), (19, 43702), (34, 43864),
(38, 43969),

Gene: Trine_65 Start: 43058, Stop: 43372, Start Num: 15

Candidate Starts for Trine_65:

(Start: 15 @43058 has 1 MA's), (31, 43199),