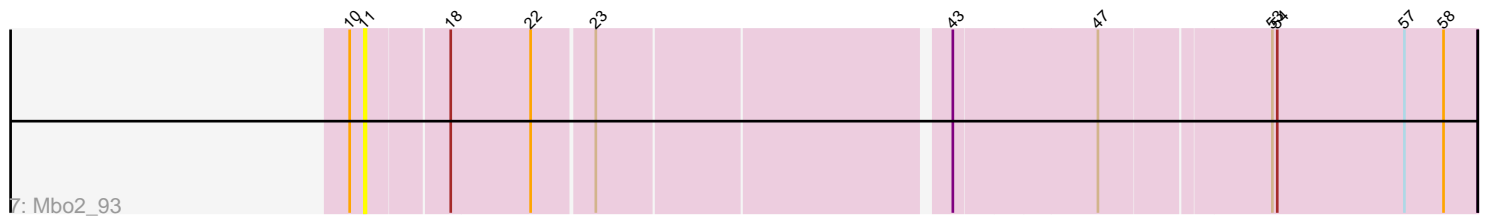
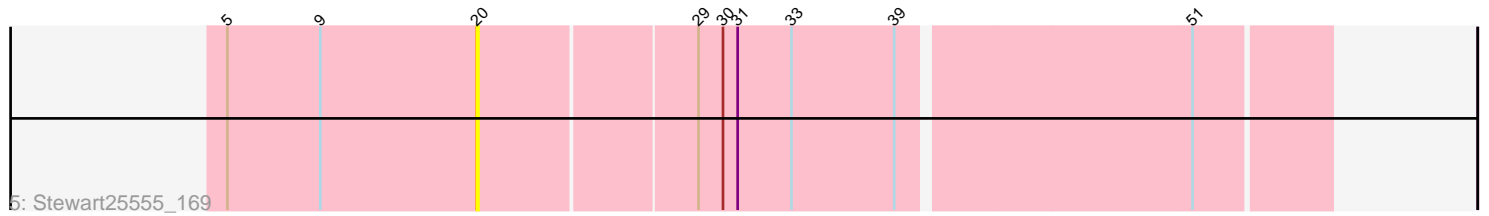
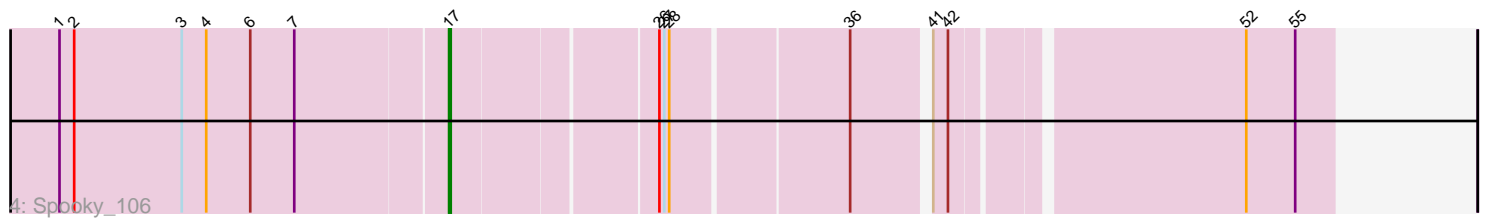
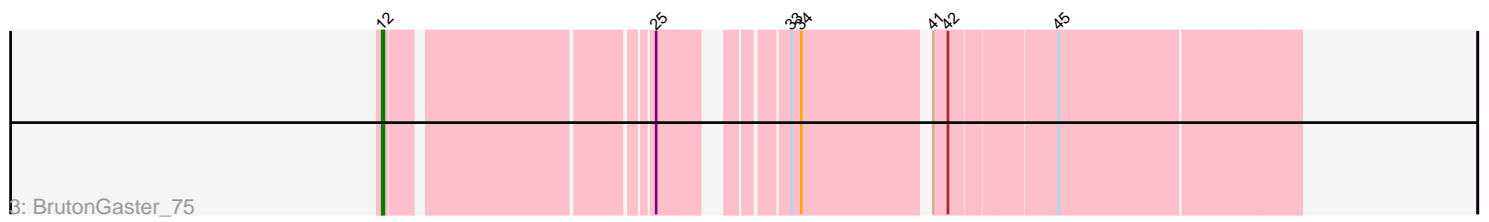
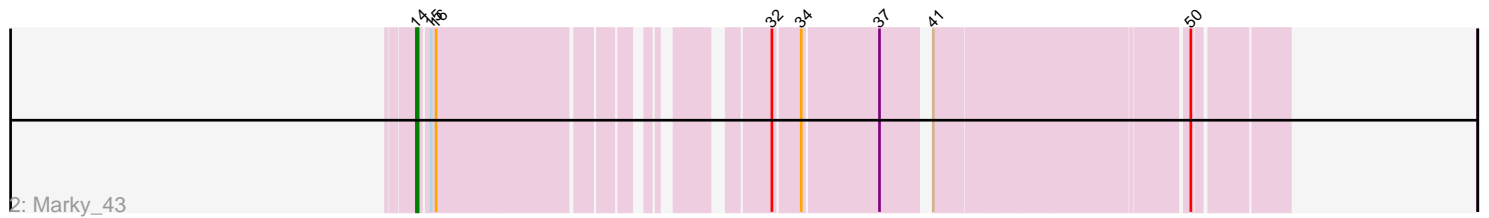
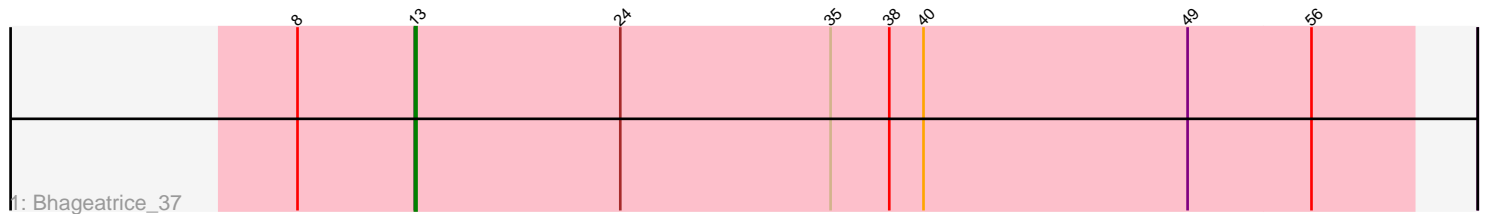


# Pham 281231



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 281231 Report

This analysis was run 02/07/26 on database version 634.

Pham number 281231 has 7 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Bhageatrice\_37
- Track 2 : Marky\_43
- Track 3 : BrutonGaster\_75
- Track 4 : Spooky\_106
- Track 5 : Stewart25555\_169
- Track 6 : Sunfish\_75
- Track 7 : Mbo2\_93

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

The start number called the most often in the published annotations is 14, it was called in 1 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Marky\_43,

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

•

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

- Bhageatrice\_37, BrutonGaster\_75, Mbo2\_93, Spooky\_106, Stewart25555\_169, Sunfish\_75,

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

Start 11:

- Found in 1 of 7 ( 14.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mbo2\_93 (singleton),

Start 12:

- Found in 1 of 7 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 1 of 5

- Called 100.0% of time when present
- Phage (with cluster) where this start called: BrutonGaster\_75 (CQ2),

Start 13:

- Found in 1 of 7 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bhageatrice\_37 (AY),

Start 14:

- Found in 1 of 7 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Marky\_43 (BH),

Start 17:

- Found in 1 of 7 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Spooky\_106 (DN2),

Start 19:

- Found in 1 of 7 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sunfish\_75 (singleton),

Start 20:

- Found in 1 of 7 ( 14.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Stewart25555\_169 (FC),

### **Summary by clusters:**

There are 6 clusters represented in this pham: singleton, BH, FC, DN2, AY, CQ2,

Info for manual annotations of cluster AY:

- Start number 13 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster BH:

- Start number 14 was manually annotated 1 time for cluster BH.

Info for manual annotations of cluster CQ2:

- Start number 12 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster DN2:

- Start number 17 was manually annotated 1 time for cluster DN2.

### **Gene Information:**

Gene: Bhageatrice\_37 Start: 26729, Stop: 27340, Start Num: 13

Candidate Starts for Bhageatrice\_37:

(8, 26657), (Start: 13 @26729 has 1 MA's), (24, 26855), (35, 26984), (38, 27020), (40, 27041), (49, 27203), (56, 27278),

Gene: BrutonGaster\_75 Start: 52573, Stop: 53064, Start Num: 12

Candidate Starts for BrutonGaster\_75:

(Start: 12 @52573 has 1 MA's), (25, 52717), (33, 52774), (34, 52780), (41, 52852), (42, 52861), (45, 52921),

Gene: Marky\_43 Start: 31173, Stop: 31622, Start Num: 14

Candidate Starts for Marky\_43:

(Start: 14 @31173 has 1 MA's), (15, 31179), (16, 31182), (32, 31344), (34, 31359), (37, 31404), (41, 31428), (50, 31572),

Gene: Mbo2\_93 Start: 66190, Stop: 65546, Start Num: 11

Candidate Starts for Mbo2\_93:

(10, 66199), (11, 66190), (18, 66142), (22, 66094), (23, 66058), (43, 65854), (47, 65770), (53, 65671), (54, 65668), (57, 65590), (58, 65566),

Gene: Spooky\_106 Start: 55742, Stop: 56233, Start Num: 17

Candidate Starts for Spooky\_106:

(1, 55508), (2, 55517), (3, 55583), (4, 55598), (6, 55625), (7, 55652), (Start: 17 @55742 has 1 MA's), (26, 55859), (27, 55862), (28, 55865), (36, 55967), (41, 56009), (42, 56018), (52, 56180), (55, 56210),

Gene: Stewart25555\_169 Start: 117773, Stop: 118273, Start Num: 20

Candidate Starts for Stewart25555\_169:

(5, 117620), (9, 117677), (20, 117773), (29, 117902), (30, 117917), (31, 117926), (33, 117959), (39, 118022), (51, 118193),

Gene: Sunfish\_75 Start: 46858, Stop: 46316, Start Num: 19

Candidate Starts for Sunfish\_75:

(Start: 19 @46858 has 1 MA's), (21, 46828), (44, 46537), (46, 46489), (48, 46465),