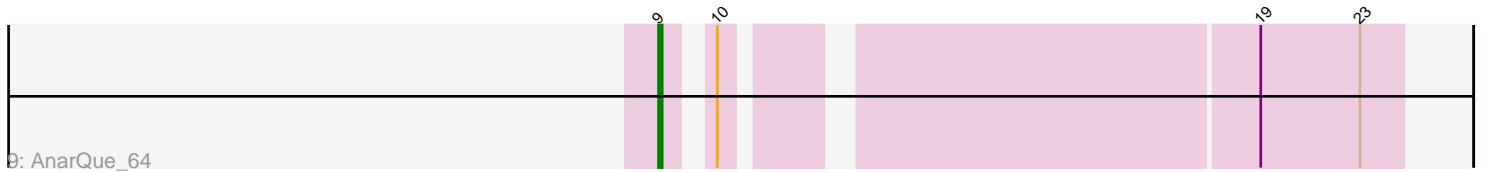
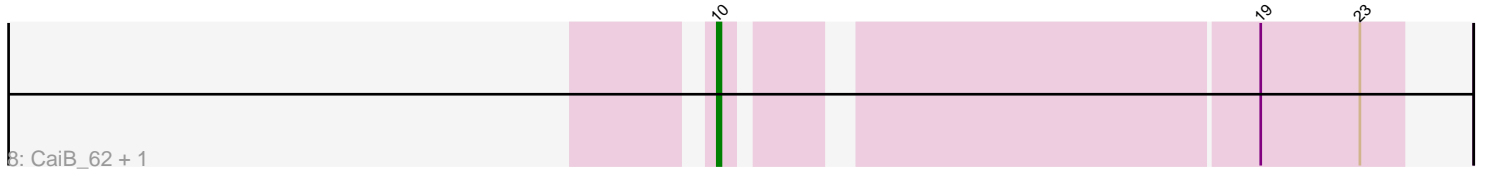
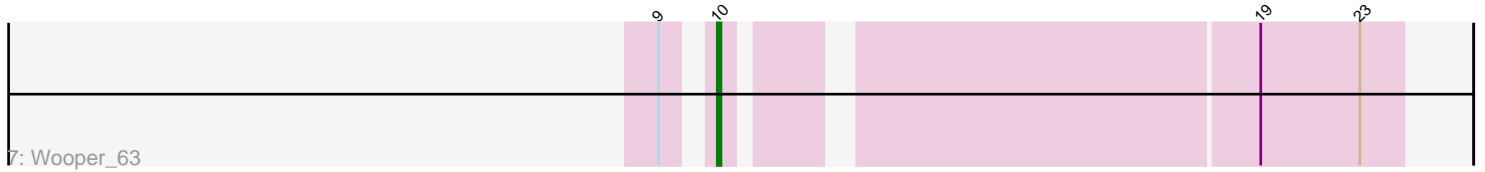
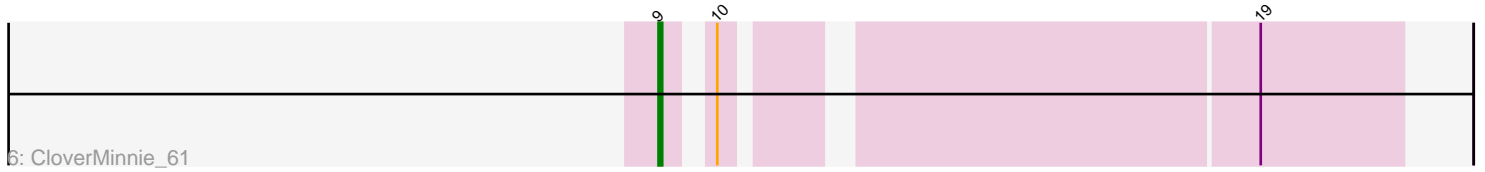
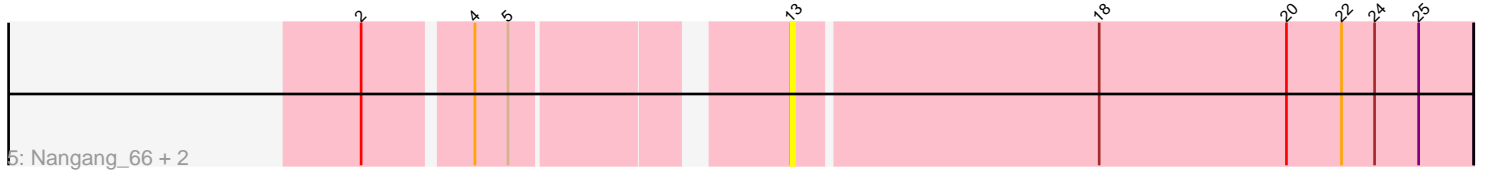
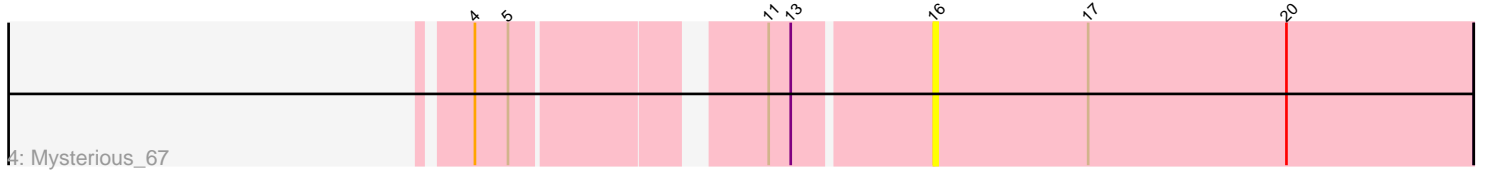
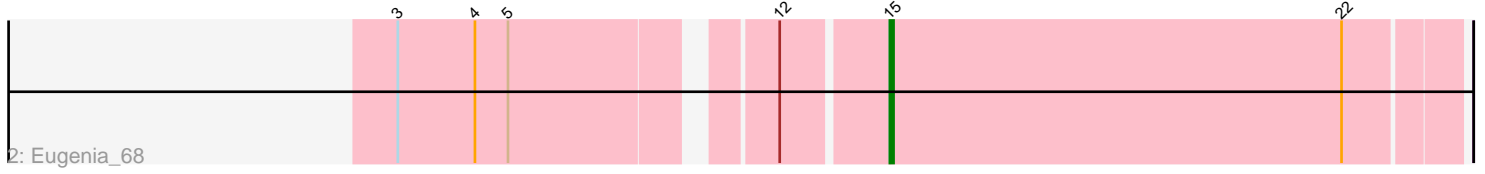
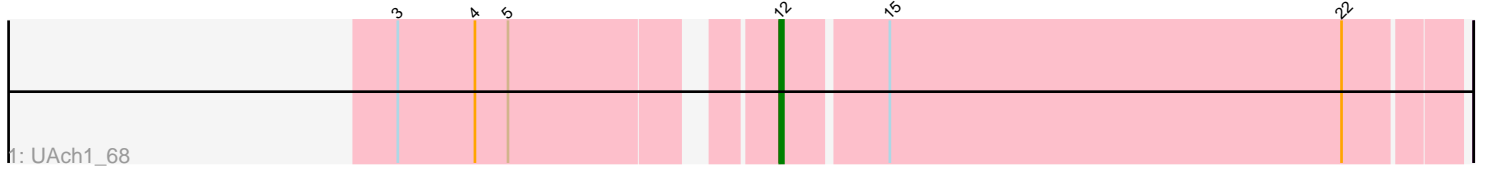


# Pham 171904



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 171904 Report

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

Pham number 171904 has 12 members, 5 are drafts.

Phages represented in each track:

- Track 1 : UAch1\_68
- Track 2 : Eugenia\_68
- Track 3 : Morty007\_67
- Track 4 : Mysterious\_67
- Track 5 : Nangang\_66, StinkyVeggy\_66, DigitDog\_67
- Track 6 : CloverMinnie\_61
- Track 7 : Wooper\_63
- Track 8 : CaiB\_62, MakoManhole\_60
- Track 9 : AnarQue\_64

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

The start number called the most often in the published annotations is 10, it was called in 2 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- CaiB\_62, MakoManhole\_60, Wooper\_63,

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

- AnarQue\_64, CloverMinnie\_61,

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

- DigitDog\_67, Eugenia\_68, Morty007\_67, Mysterious\_67, Nangang\_66, StinkyVeggy\_66, UAch1\_68,

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

Start 9:

- Found in 3 of 12 ( 25.0% ) of genes in pham
- Manual Annotations of this start: 2 of 7
- Called 66.7% of time when present
- Phage (with cluster) where this start called: AnarQue\_64 (DR), CloverMinnie\_61 (DR),

Start 10:

- Found in 5 of 12 ( 41.7% ) of genes in pham
- Manual Annotations of this start: 2 of 7
- Called 60.0% of time when present
- Phage (with cluster) where this start called: CaiB\_62 (DR), MakoManhole\_60 (DR), Wooper\_63 (DR),

Start 12:

- Found in 2 of 12 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 50.0% of time when present
- Phage (with cluster) where this start called: UAch1\_68 (B1),

Start 13:

- Found in 4 of 12 ( 33.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 75.0% of time when present
- Phage (with cluster) where this start called: DigitDog\_67 (B5), Nangang\_66 (B5), StinkyVeggy\_66 (B5),

Start 14:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Morty007\_67 (B3),

Start 15:

- Found in 2 of 12 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Eugenia\_68 (B1),

Start 16:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mysterious\_67 (B5),

**Summary by clusters:**

There are 4 clusters represented in this pham: B5, DR, B1, B3,

Info for manual annotations of cluster B1:

- Start number 12 was manually annotated 1 time for cluster B1.
- Start number 15 was manually annotated 1 time for cluster B1.

Info for manual annotations of cluster B3:

- Start number 14 was manually annotated 1 time for cluster B3.

Info for manual annotations of cluster DR:

- Start number 9 was manually annotated 2 times for cluster DR.
- Start number 10 was manually annotated 2 times for cluster DR.

**Gene Information:**

Gene: AnarQue\_64 Start: 52219, Stop: 52398, Start Num: 9

Candidate Starts for AnarQue\_64:

(Start: 9 @52219 has 2 MA's), (Start: 10 @52228 has 2 MA's), (19, 52360), (23, 52387),

Gene: CaiB\_62 Start: 52012, Stop: 52182, Start Num: 10

Candidate Starts for CaiB\_62:

(Start: 10 @52012 has 2 MA's), (19, 52144), (23, 52171),

Gene: CloverMinnie\_61 Start: 51166, Stop: 51345, Start Num: 9

Candidate Starts for CloverMinnie\_61:

(Start: 9 @51166 has 2 MA's), (Start: 10 @51175 has 2 MA's), (19, 51307),

Gene: DigitDog\_67 Start: 58467, Stop: 58649, Start Num: 13

Candidate Starts for DigitDog\_67:

(2, 58365), (4, 58392), (5, 58401), (13, 58467), (18, 58548), (20, 58599), (22, 58614), (24, 58623), (25, 58635),

Gene: Eugenia\_68 Start: 57577, Stop: 57729, Start Num: 15

Candidate Starts for Eugenia\_68:

(3, 57457), (4, 57478), (5, 57487), (Start: 12 @57550 has 1 MA's), (Start: 15 @57577 has 1 MA's), (22, 57700),

Gene: MakoManhole\_60 Start: 50530, Stop: 50700, Start Num: 10

Candidate Starts for MakoManhole\_60:

(Start: 10 @50530 has 2 MA's), (19, 50662), (23, 50689),

Gene: Morty007\_67 Start: 58277, Stop: 58441, Start Num: 14

Candidate Starts for Morty007\_67:

(1, 58082), (6, 58208), (7, 58217), (8, 58226), (Start: 14 @58277 has 1 MA's), (21, 58403),

Gene: Mysterious\_67 Start: 58447, Stop: 58593, Start Num: 16

Candidate Starts for Mysterious\_67:

(4, 58336), (5, 58345), (11, 58405), (13, 58411), (16, 58447), (17, 58489), (20, 58543),

Gene: Nangang\_66 Start: 58493, Stop: 58675, Start Num: 13

Candidate Starts for Nangang\_66:

(2, 58391), (4, 58418), (5, 58427), (13, 58493), (18, 58574), (20, 58625), (22, 58640), (24, 58649), (25, 58661),

Gene: StinkyVeggy\_66 Start: 58294, Stop: 58476, Start Num: 13

Candidate Starts for StinkyVeggy\_66:

(2, 58192), (4, 58219), (5, 58228), (13, 58294), (18, 58375), (20, 58426), (22, 58441), (24, 58450), (25, 58462),

Gene: UAch1\_68 Start: 57127, Stop: 57306, Start Num: 12

Candidate Starts for UAch1\_68:

(3, 57034), (4, 57055), (5, 57064), (Start: 12 @57127 has 1 MA's), (Start: 15 @57154 has 1 MA's), (22, 57277),

Gene: Wooper\_63 Start: 51561, Stop: 51731, Start Num: 10

Candidate Starts for Wooper\_63:

(Start: 9 @51552 has 2 MA's), (Start: 10 @51561 has 2 MA's), (19, 51693), (23, 51720),