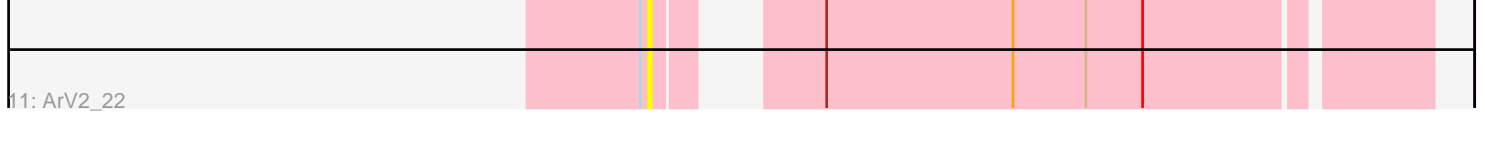
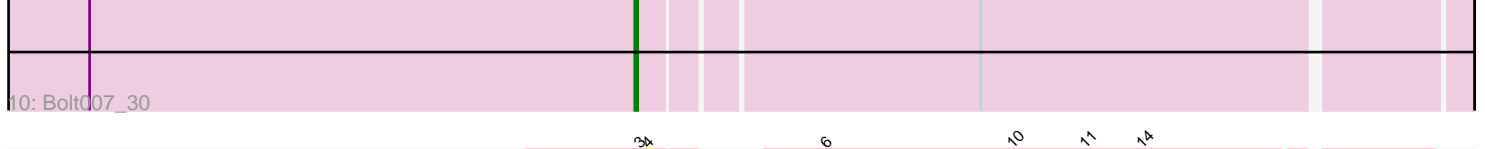
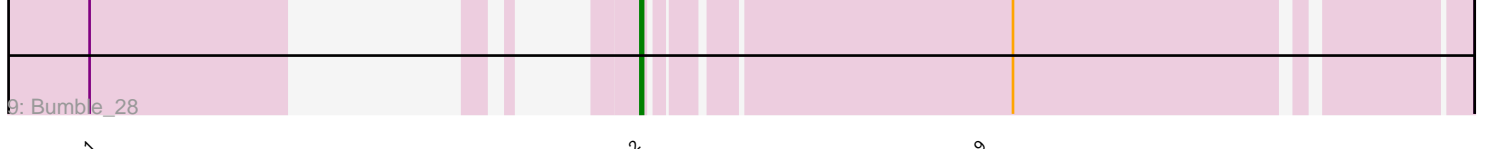
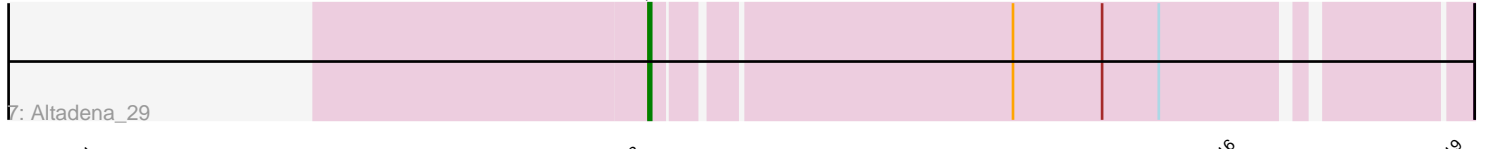
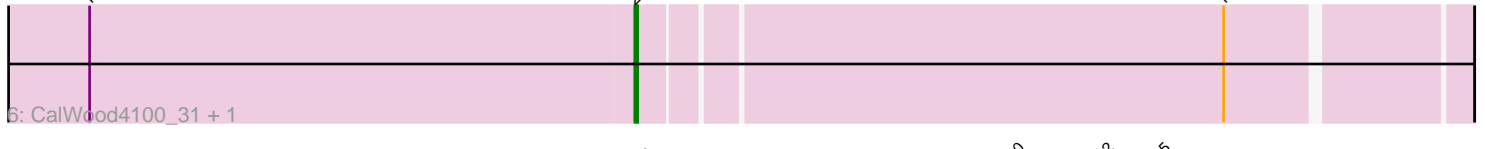
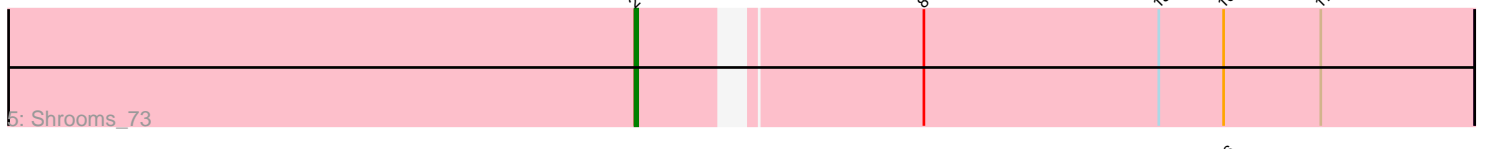
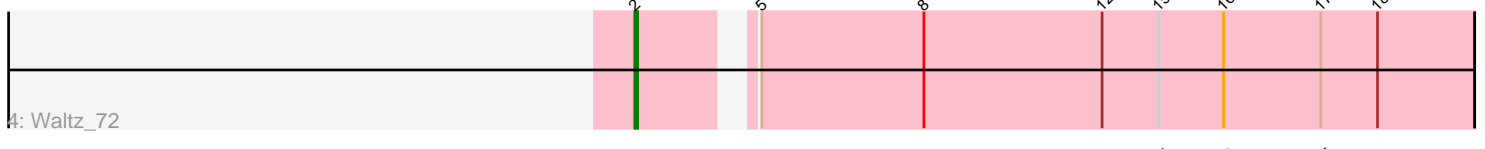
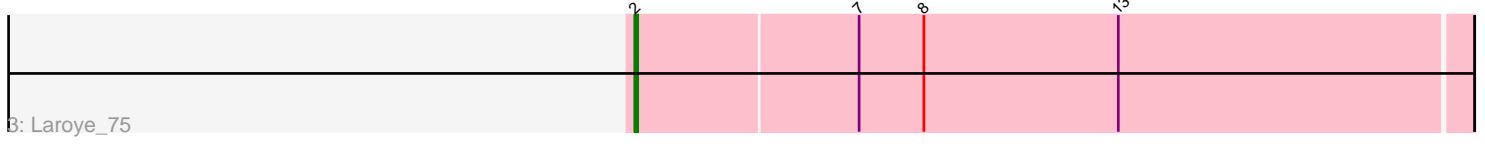
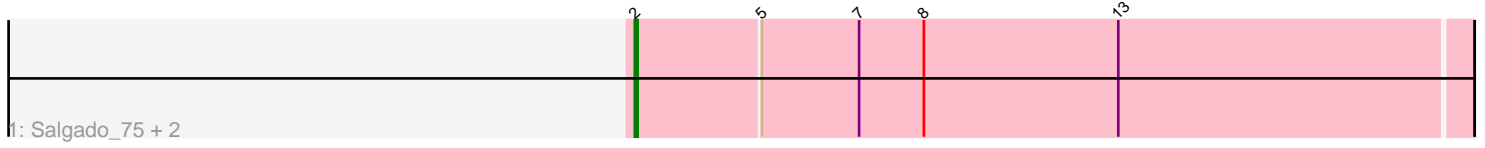


Pham 167106



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 167106 Report

This analysis was run 07/09/24 on database version 566.

Pham number 167106 has 15 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Salgado\_75, LiSara\_72, Wheelbite\_71
- Track 2 : Edmundo\_75
- Track 3 : Laroye\_75
- Track 4 : Waltz\_72
- Track 5 : Shrooms\_73
- Track 6 : CalWood4100\_31, Lilmac1015\_31
- Track 7 : Altadena\_29
- Track 8 : Klevey\_30, Prairie\_28
- Track 9 : Bumble\_28
- Track 10 : Bolt007\_30
- Track 11 : ArV2\_22

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

The start number called the most often in the published annotations is 2, it was called in 11 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bolt007\_30, CalWood4100\_31, Edmundo\_75, Klevey\_30, Laroye\_75, LiSara\_72, Lilmac1015\_31, Prairie\_28, Salgado\_75, Shrooms\_73, Waltz\_72, Wheelbite\_71,

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

- 

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

- Altadena\_29, ArV2\_22, Bumble\_28,

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

Start 2:

- Found in 12 of 15 ( 80.0% ) of genes in pham
- Manual Annotations of this start: 11 of 13
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Bolt007\_30 (FH), CalWood4100\_31 (FH), Edmundo\_75 (AL), Klevey\_30 (FH), Laroye\_75 (AL), LiSara\_72 (AL), Lilmac1015\_31 (FH), Prairie\_28 (FH), Salgado\_75 (AL), Shrooms\_73 (AL), Waltz\_72 (AL), Wheelbite\_71 (AL),

#### Start 3:

- Found in 2 of 15 ( 13.3% ) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Bumble\_28 (FH),

#### Start 4:

- Found in 2 of 15 ( 13.3% ) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altadena\_29 (FH), ArV2\_22 (singleton),

### Summary by clusters:

There are 3 clusters represented in this pham: FH, singleton, AL,

Info for manual annotations of cluster AL:

- Start number 2 was manually annotated 7 times for cluster AL.

Info for manual annotations of cluster FH:

- Start number 2 was manually annotated 4 times for cluster FH.
- Start number 3 was manually annotated 1 time for cluster FH.
- Start number 4 was manually annotated 1 time for cluster FH.

### Gene Information:

Gene: Altadena\_29 Start: 23573, Stop: 23854, Start Num: 4

Candidate Starts for Altadena\_29:

(Start: 4 @23573 has 1 MA's), (10, 23699), (12, 23732), (15, 23753),

Gene: ArV2\_22 Start: 17796, Stop: 18050, Start Num: 4

Candidate Starts for ArV2\_22:

(Start: 3 @17793 has 1 MA's), (Start: 4 @17796 has 1 MA's), (6, 17835), (10, 17904), (11, 17931), (14, 17952),

Gene: Bolt007\_30 Start: 22624, Stop: 22917, Start Num: 2

Candidate Starts for Bolt007\_30:

(1, 22423), (Start: 2 @22624 has 11 MA's), (9, 22744),

Gene: Bumble\_28 Start: 23367, Stop: 23648, Start Num: 3

Candidate Starts for Bumble\_28:

(1, 23265), (Start: 3 @23367 has 1 MA's), (10, 23493),

Gene: CalWood4100\_31 Start: 22617, Stop: 22910, Start Num: 2

Candidate Starts for CalWood4100\_31:

(1, 22416), (Start: 2 @22617 has 11 MA's), (16, 22827),

Gene: Edmundo\_75 Start: 46375, Stop: 46680, Start Num: 2  
Candidate Starts for Edmundo\_75:  
(Start: 2 @46375 has 11 MA's), (7, 46456), (8, 46480), (13, 46552),

Gene: Klevey\_30 Start: 22624, Stop: 22920, Start Num: 2  
Candidate Starts for Klevey\_30:  
(1, 22423), (Start: 2 @22624 has 11 MA's), (16, 22837), (19, 22912),

Gene: Laroye\_75 Start: 45753, Stop: 46058, Start Num: 2  
Candidate Starts for Laroye\_75:  
(Start: 2 @45753 has 11 MA's), (7, 45834), (8, 45858), (13, 45930),

Gene: LiSara\_72 Start: 45918, Stop: 46223, Start Num: 2  
Candidate Starts for LiSara\_72:  
(Start: 2 @45918 has 11 MA's), (5, 45963), (7, 45999), (8, 46023), (13, 46095),

Gene: Lilmac1015\_31 Start: 22617, Stop: 22910, Start Num: 2  
Candidate Starts for Lilmac1015\_31:  
(1, 22416), (Start: 2 @22617 has 11 MA's), (16, 22827),

Gene: Prairie\_28 Start: 22645, Stop: 22941, Start Num: 2  
Candidate Starts for Prairie\_28:  
(1, 22444), (Start: 2 @22645 has 11 MA's), (16, 22858), (19, 22933),

Gene: Salgado\_75 Start: 45569, Stop: 45874, Start Num: 2  
Candidate Starts for Salgado\_75:  
(Start: 2 @45569 has 11 MA's), (5, 45614), (7, 45650), (8, 45674), (13, 45746),

Gene: Shrooms\_73 Start: 44046, Stop: 44342, Start Num: 2  
Candidate Starts for Shrooms\_73:  
(Start: 2 @44046 has 11 MA's), (8, 44139), (15, 44226), (16, 44250), (17, 44286),

Gene: Waltz\_72 Start: 44062, Stop: 44358, Start Num: 2  
Candidate Starts for Waltz\_72:  
(Start: 2 @44062 has 11 MA's), (5, 44095), (8, 44155), (12, 44221), (15, 44242), (16, 44266), (17, 44302), (18, 44323),

Gene: Wheelbite\_71 Start: 45721, Stop: 46026, Start Num: 2  
Candidate Starts for Wheelbite\_71:  
(Start: 2 @45721 has 11 MA's), (5, 45766), (7, 45802), (8, 45826), (13, 45898),