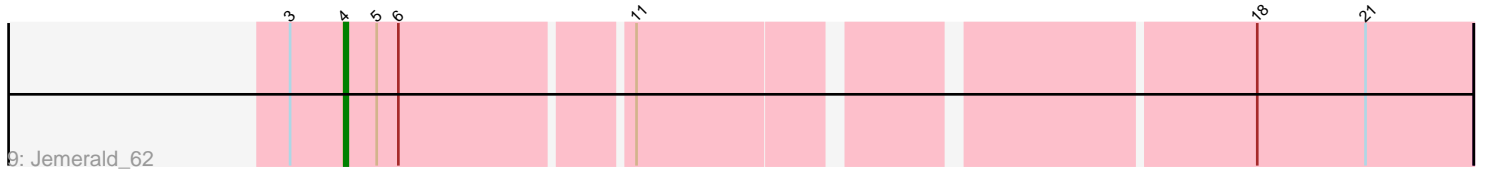
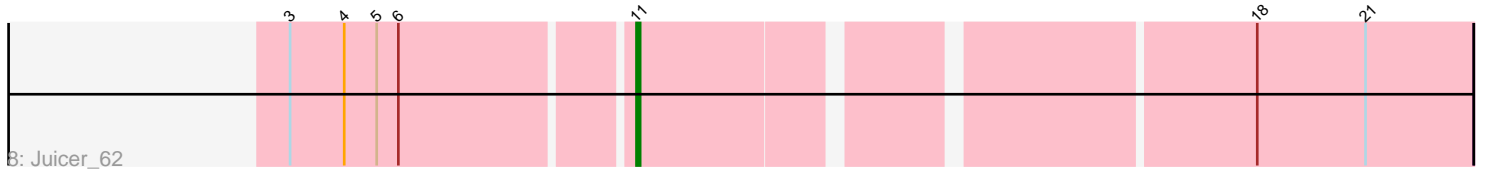
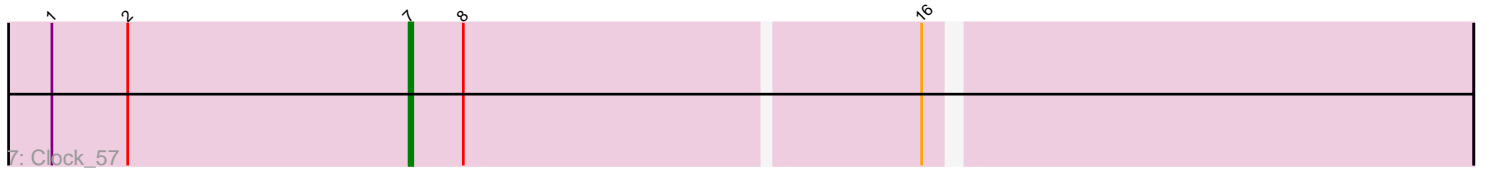
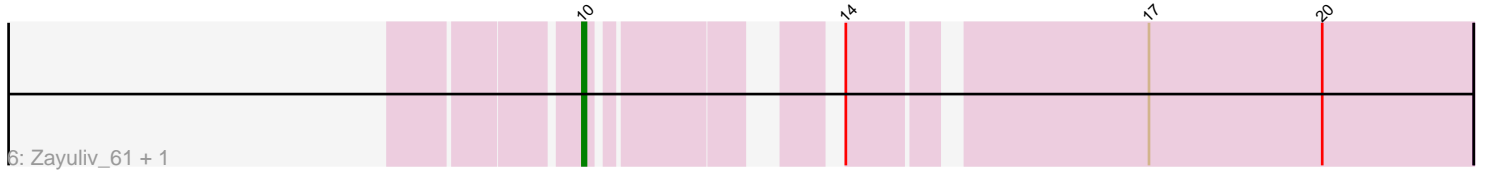
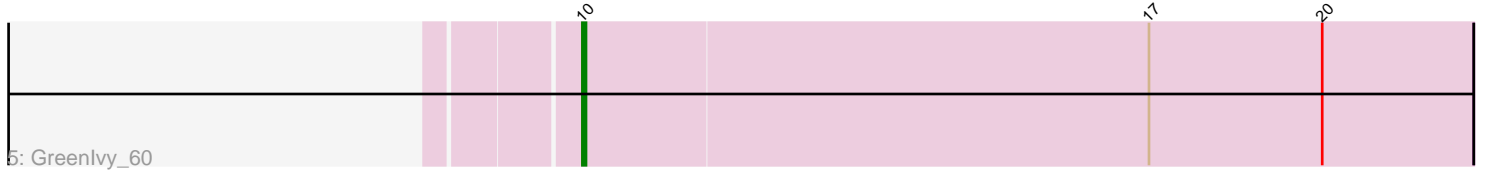
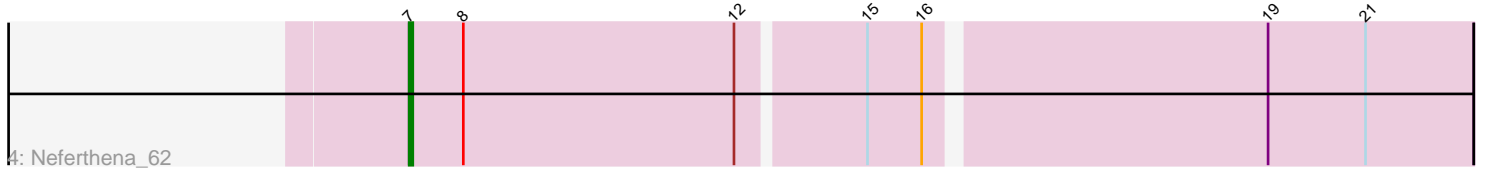
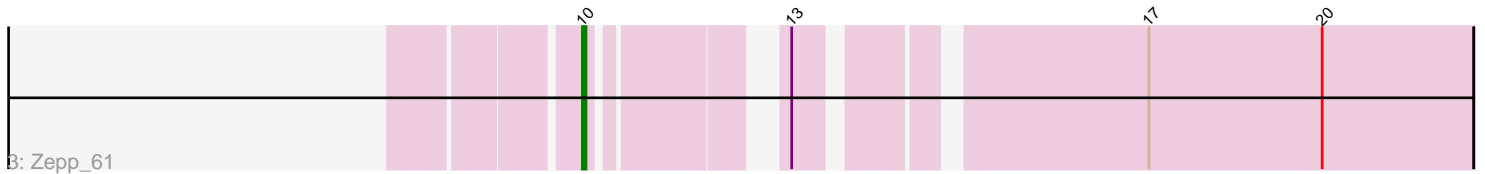
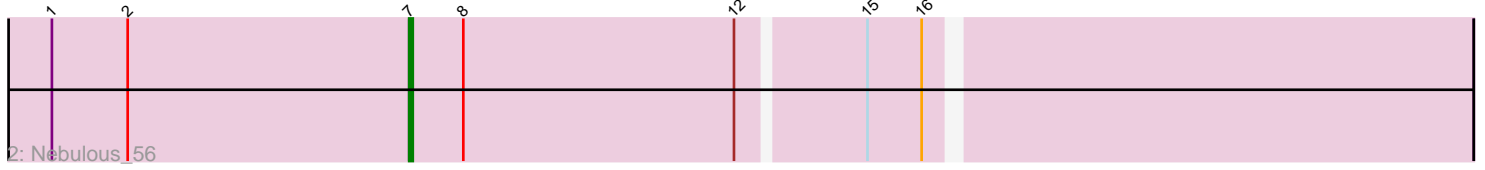
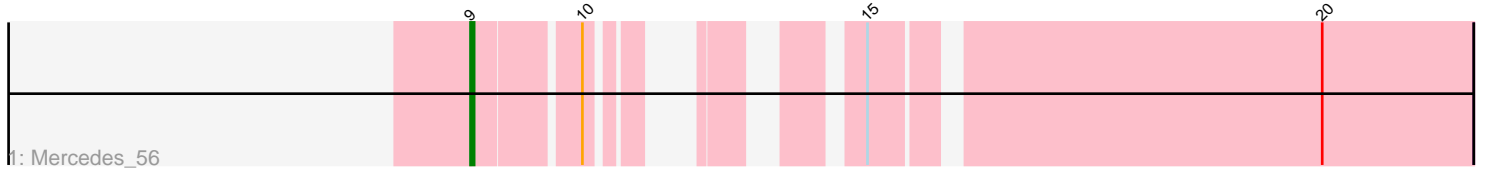


Pham 303862



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 303862 Report

This analysis was run 06/08/26 on database version 649.

Pham number 303862 has 10 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Mercedes\_56
- Track 2 : Nebulous\_56
- Track 3 : Zepp\_61
- Track 4 : Neferthena\_62
- Track 5 : Greenlvy\_60
- Track 6 : Zayuliv\_61, QuadZero\_61
- Track 7 : Clock\_57
- Track 8 : Juicer\_62
- Track 9 : Jemerald\_62

### ***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 4 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Greenlvy\_60, QuadZero\_61, Zayuliv\_61, Zepp\_61,

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

- Mercedes\_56,

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

- Clock\_57, Jemerald\_62, Juicer\_62, Nebulous\_56, Neferthena\_62,

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

Start 4:

- Found in 2 of 10 ( 20.0% ) 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: Jemerald\_62 (EA6),

Start 7:

- Found in 3 of 10 ( 30.0% ) of genes in pham

- Manual Annotations of this start: 3 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Clock\_57 (EA5), Nebulous\_56 (EA5), Neferthema\_62 (EA5),

Start 9:

- Found in 1 of 10 ( 10.0% ) 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: Mercedes\_56 (EA),

Start 10:

- Found in 5 of 10 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 4 of 10
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Greenlvy\_60 (EA5), QuadZero\_61 (EA5), Zayuliv\_61 (EA5), Zepp\_61 (EA5),

Start 11:

- Found in 2 of 10 ( 20.0% ) 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: Juicer\_62 (EA6),

### **Summary by clusters:**

There are 3 clusters represented in this pham: EA5, EA, EA6,

Info for manual annotations of cluster EA:

- Start number 9 was manually annotated 1 time for cluster EA.

Info for manual annotations of cluster EA5:

- Start number 7 was manually annotated 3 times for cluster EA5.
- Start number 10 was manually annotated 4 times for cluster EA5.

Info for manual annotations of cluster EA6:

- Start number 4 was manually annotated 1 time for cluster EA6.
- Start number 11 was manually annotated 1 time for cluster EA6.

### **Gene Information:**

Gene: Clock\_57 Start: 40673, Stop: 40957, Start Num: 7

Candidate Starts for Clock\_57:

(1, 40574), (2, 40595), (Start: 7 @40673 has 3 MA's), (8, 40688), (16, 40811),

Gene: Greenlvy\_60 Start: 39358, Stop: 39603, Start Num: 10

Candidate Starts for Greenlvy\_60:

(Start: 10 @39358 has 4 MA's), (17, 39514), (20, 39562),

Gene: Jemerald\_62 Start: 40216, Stop: 40506, Start Num: 4

Candidate Starts for Jemerald\_62:

(3, 40201), (Start: 4 @40216 has 1 MA's), (5, 40225), (6, 40231), (Start: 11 @40291 has 1 MA's), (18, 40447), (21, 40477),

Gene: Juicer\_62 Start: 40291, Stop: 40506, Start Num: 11

Candidate Starts for Juicer\_62:

(3, 40201), (Start: 4 @40216 has 1 MA's), (5, 40225), (6, 40231), (Start: 11 @40291 has 1 MA's), (18, 40447), (21, 40477),

Gene: Mercedes\_56 Start: 39258, Stop: 39485, Start Num: 9

Candidate Starts for Mercedes\_56:

(Start: 9 @39258 has 1 MA's), (Start: 10 @39285 has 4 MA's), (15, 39327), (20, 39444),

Gene: Nebulous\_56 Start: 40430, Stop: 40714, Start Num: 7

Candidate Starts for Nebulous\_56:

(1, 40331), (2, 40352), (Start: 7 @40430 has 3 MA's), (8, 40445), (12, 40520), (15, 40553), (16, 40568),

Gene: Neferthena\_62 Start: 40624, Stop: 40908, Start Num: 7

Candidate Starts for Neferthena\_62:

(Start: 7 @40624 has 3 MA's), (8, 40639), (12, 40714), (15, 40747), (16, 40762), (19, 40852), (21, 40879),

Gene: QuadZero\_61 Start: 39116, Stop: 39331, Start Num: 10

Candidate Starts for QuadZero\_61:

(Start: 10 @39116 has 4 MA's), (14, 39167), (17, 39242), (20, 39290),

Gene: Zayuliv\_61 Start: 39687, Stop: 39902, Start Num: 10

Candidate Starts for Zayuliv\_61:

(Start: 10 @39687 has 4 MA's), (14, 39738), (17, 39813), (20, 39861),

Gene: Zepp\_61 Start: 39245, Stop: 39460, Start Num: 10

Candidate Starts for Zepp\_61:

(Start: 10 @39245 has 4 MA's), (13, 39287), (17, 39371), (20, 39419),