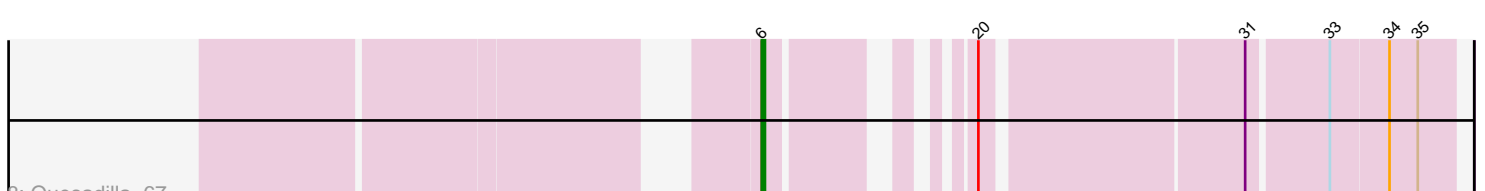
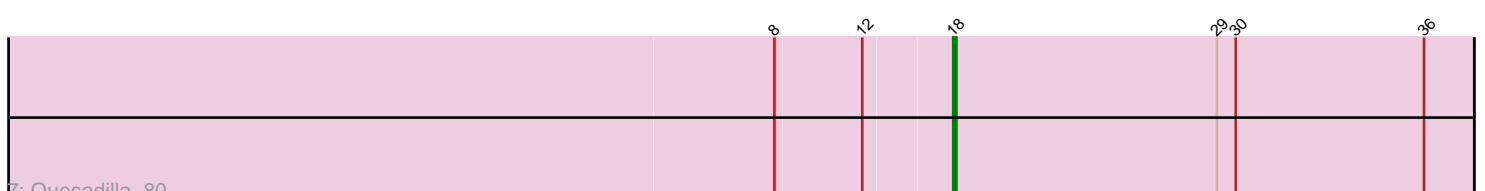
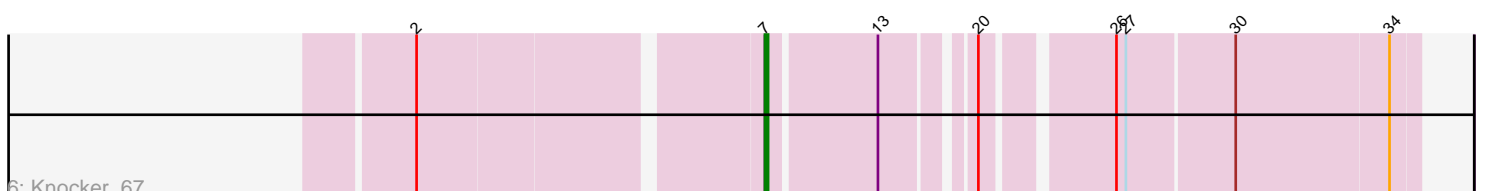
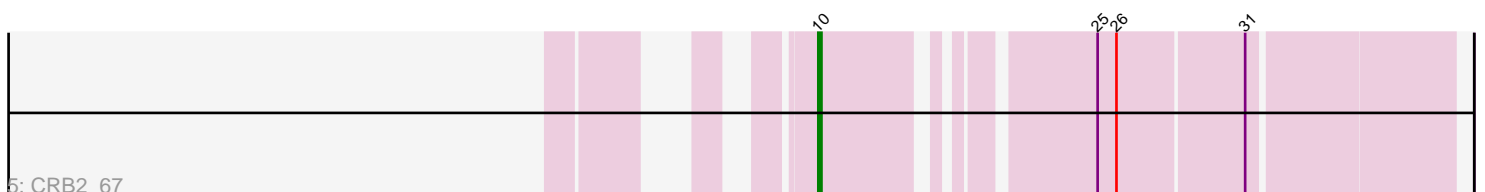
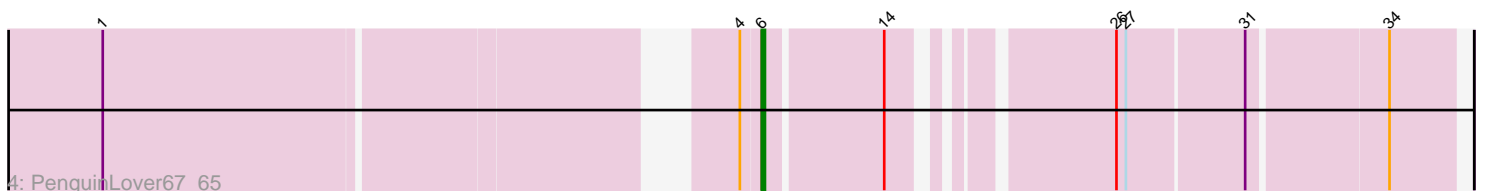
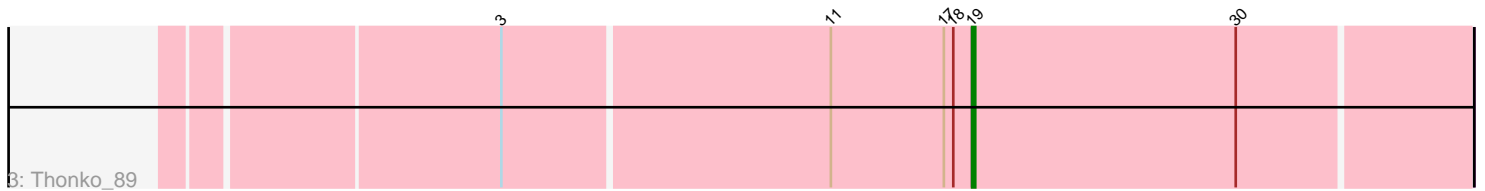
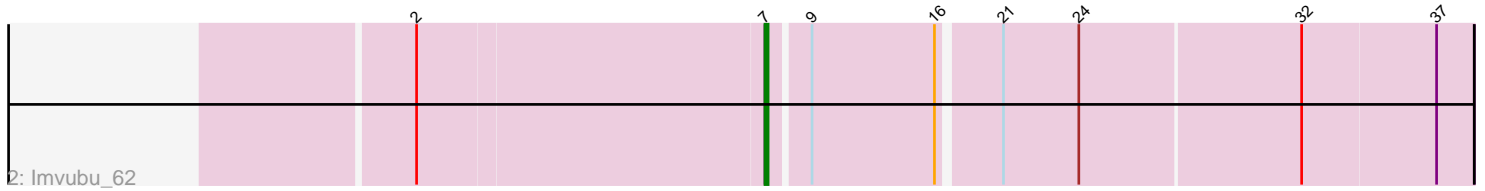
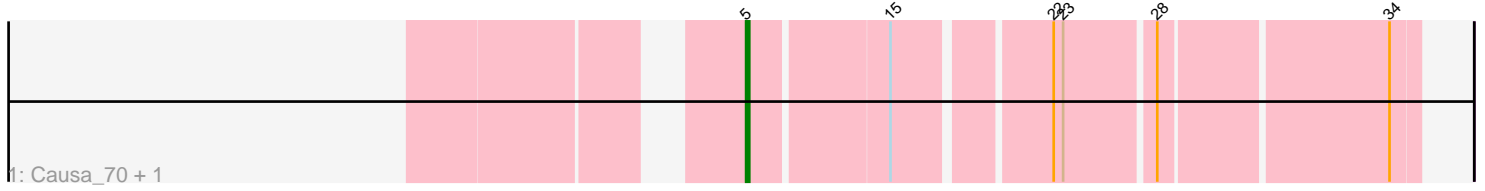


Pham 302018



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 302018 Report

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

Pham number 302018 has 9 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Causa\_70, StAugustine\_70
- Track 2 : Imvubu\_62
- Track 3 : Thonko\_89
- Track 4 : PenguinLover67\_65
- Track 5 : CRB2\_67
- Track 6 : Knocker\_67
- Track 7 : Quesadilla\_80
- Track 8 : Quesadilla\_67

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

The start number called the most often in the published annotations is 6, it was called in 2 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- PenguinLover67\_65, Quesadilla\_67,

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

- 

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

- CRB2\_67, Causa\_70, Imvubu\_62, Knocker\_67, Quesadilla\_80, StAugustine\_70, Thonko\_89,

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

Start 5:

- Found in 2 of 9 ( 22.2% ) of genes in pham
- Manual Annotations of this start: 2 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Causa\_70 (AI), StAugustine\_70 (AI),

Start 6:

- Found in 2 of 9 ( 22.2% ) of genes in pham

- Manual Annotations of this start: 2 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PenguinLover67\_65 (B9), Quesadilla\_67 (B9),

Start 7:

- Found in 2 of 9 ( 22.2% ) of genes in pham
- Manual Annotations of this start: 2 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Imvubu\_62 (B10), Knocker\_67 (B9),

Start 10:

- Found in 1 of 9 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CRB2\_67 (B9),

Start 18:

- Found in 2 of 9 ( 22.2% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Quesadilla\_80 (B9),

Start 19:

- Found in 1 of 9 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Thonko\_89 (B8),

### **Summary by clusters:**

There are 4 clusters represented in this pham: A1, B8, B9, B10,

Info for manual annotations of cluster A1:

- Start number 5 was manually annotated 2 times for cluster A1.

Info for manual annotations of cluster B10:

- Start number 7 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B8:

- Start number 19 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:

- Start number 6 was manually annotated 2 times for cluster B9.
- Start number 7 was manually annotated 1 time for cluster B9.
- Start number 10 was manually annotated 1 time for cluster B9.
- Start number 18 was manually annotated 1 time for cluster B9.

### **Gene Information:**

Gene: CRB2\_67 Start: 60419, Stop: 60598, Start Num: 10

Candidate Starts for CRB2\_67:

(Start: 10 @60419 has 1 MA's), (25, 60491), (26, 60497), (31, 60536),

Gene: Causa\_70 Start: 55449, Stop: 55255, Start Num: 5

Candidate Starts for Causa\_70:

(Start: 5 @55449 has 2 MA's), (15, 55407), (22, 55362), (23, 55359), (28, 55332), (34, 55263),

Gene: Imvubu\_62 Start: 56620, Stop: 56835, Start Num: 7

Candidate Starts for Imvubu\_62:

(2, 56512), (Start: 7 @56620 has 2 MA's), (9, 56632), (16, 56671), (21, 56689), (24, 56713), (32, 56782), (37, 56824),

Gene: Knocker\_67 Start: 59524, Stop: 59709, Start Num: 7

Candidate Starts for Knocker\_67:

(2, 59422), (Start: 7 @59524 has 2 MA's), (13, 59557), (20, 59581), (26, 59617), (27, 59620), (30, 59653), (34, 59701),

Gene: PenguinLover67\_65 Start: 58177, Stop: 58371, Start Num: 6

Candidate Starts for PenguinLover67\_65:

(1, 57991), (4, 58171), (Start: 6 @58177 has 2 MA's), (14, 58213), (26, 58270), (27, 58273), (31, 58309), (34, 58351),

Gene: Quesadilla\_80 Start: 63582, Stop: 63418, Start Num: 18

Candidate Starts for Quesadilla\_80:

(8, 63636), (12, 63609), (Start: 18 @63582 has 1 MA's), (29, 63498), (30, 63492), (36, 63432),

Gene: Quesadilla\_67 Start: 58467, Stop: 58652, Start Num: 6

Candidate Starts for Quesadilla\_67:

(Start: 6 @58467 has 2 MA's), (20, 58512), (31, 58590), (33, 58614), (34, 58632), (35, 58641),

Gene: StAugustine\_70 Start: 57163, Stop: 56969, Start Num: 5

Candidate Starts for StAugustine\_70:

(Start: 5 @57163 has 2 MA's), (15, 57121), (22, 57076), (23, 57073), (28, 57046), (34, 56977),

Gene: Thonko\_89 Start: 64058, Stop: 63903, Start Num: 19

Candidate Starts for Thonko\_89:

(3, 64205), (11, 64103), (17, 64067), (Start: 18 @64064 has 1 MA's), (Start: 19 @64058 has 1 MA's), (30, 63974),