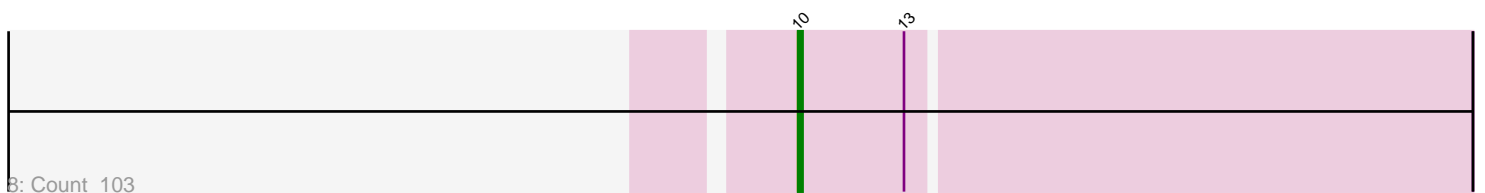
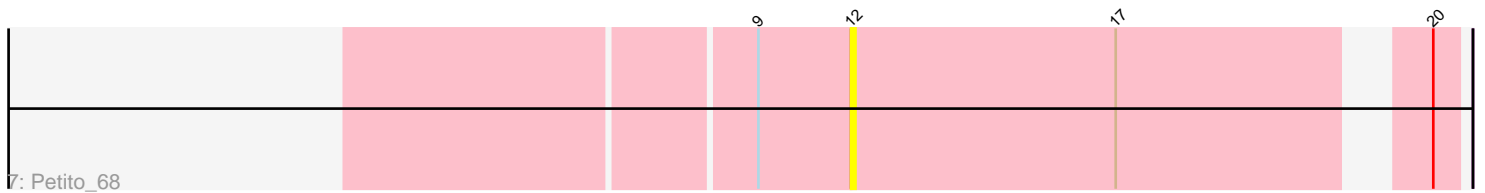
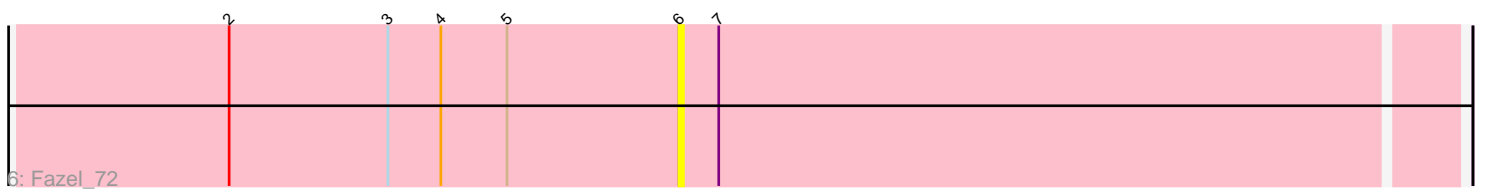
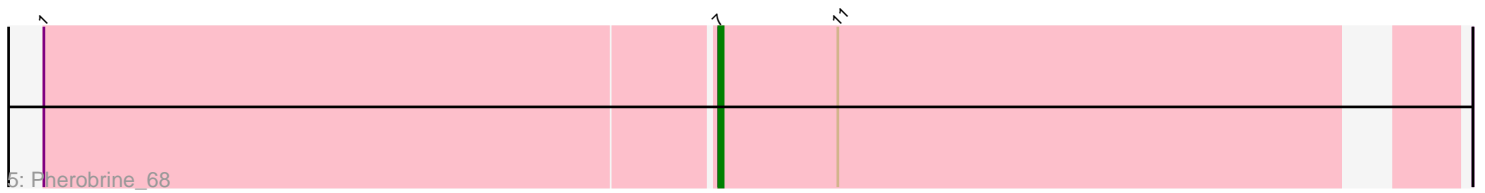
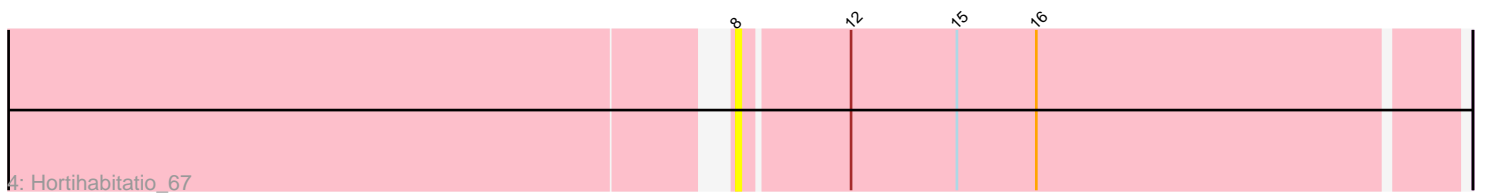
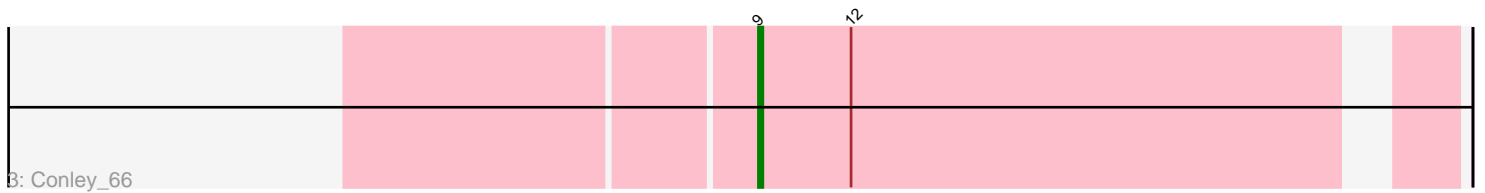
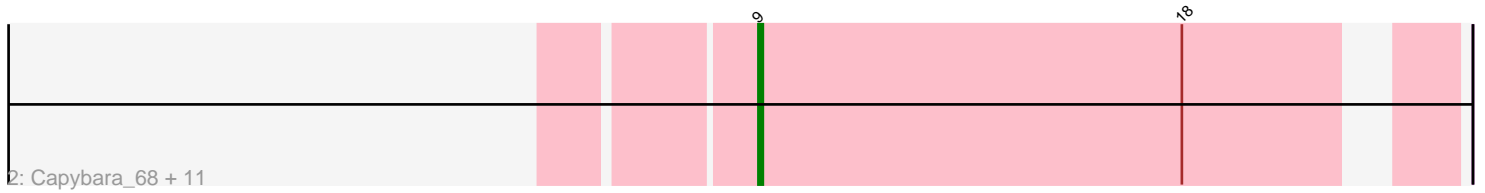
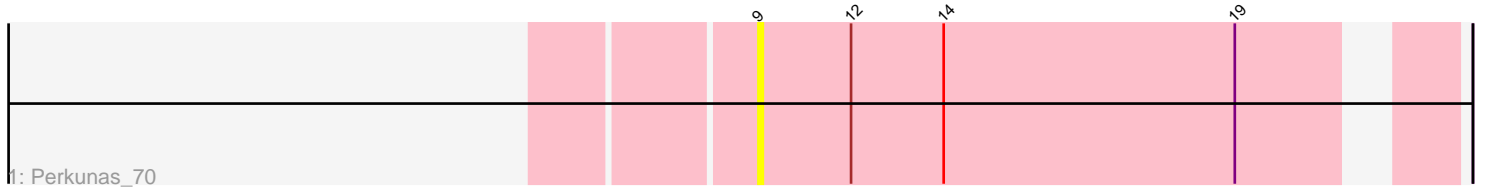


Pham 158203



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 158203 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158203 has 19 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Perkunas\_70
- Track 2 : Capybara\_68, Artorias\_67, Gravy\_66, Gill\_67, Tanis\_67, Kerry\_66, Magel\_68, Avazak\_68, Captrips\_68, FortCran\_71, Roney\_67, Odesza\_66
- Track 3 : Conley\_66
- Track 4 : Hortihabitatio\_67
- Track 5 : Pherobrine\_68
- Track 6 : Fazel\_72
- Track 7 : Petite\_68
- Track 8 : Count\_103

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

The start number called the most often in the published annotations is 9, it was called in 10 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Artorias\_67, Avazak\_68, Captrips\_68, Capybara\_68, Conley\_66, FortCran\_71, Gill\_67, Gravy\_66, Kerry\_66, Magel\_68, Odesza\_66, Perkunas\_70, Roney\_67, Tanis\_67,

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

- Petite\_68,

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

- Count\_103, Fazel\_72, Hortihabitatio\_67, Pherobrine\_68,

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

Start 6:

- Found in 1 of 19 ( 5.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fazel\_72 (DJ),

Start 7:

- Found in 2 of 19 ( 10.5% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Pherobrine\_68 (DJ),

Start 8:

- Found in 1 of 19 ( 5.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hortihabitatio\_67 (DJ),

Start 9:

- Found in 15 of 19 ( 78.9% ) of genes in pham
- Manual Annotations of this start: 10 of 12
- Called 93.3% of time when present
- Phage (with cluster) where this start called: Artorias\_67 (DJ), Avazak\_68 (DJ), Captrips\_68 (DJ), Capybara\_68 (DJ), Conley\_66 (DJ), FortCran\_71 (DJ), Gill\_67 (DJ), Gravy\_66 (DJ), Kerry\_66 (DJ), Magel\_68 (DJ), Odesza\_66 (DJ), Perkunas\_70 (DJ), Roney\_67 (DJ), Tanis\_67 (DJ),

Start 10:

- Found in 1 of 19 ( 5.3% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Count\_103 (EL),

Start 12:

- Found in 4 of 19 ( 21.1% ) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Petite\_68 (DJ),

**Summary by clusters:**

There are 2 clusters represented in this pham: EL, DJ,

Info for manual annotations of cluster DJ:

- Start number 7 was manually annotated 1 time for cluster DJ.
- Start number 9 was manually annotated 10 times for cluster DJ.

Info for manual annotations of cluster EL:

- Start number 10 was manually annotated 1 time for cluster EL.

**Gene Information:**

Gene: Artorias\_67 Start: 47313, Stop: 47459, Start Num: 9

Candidate Starts for Artorias\_67:

(Start: 9 @47313 has 10 MA's), (18, 47409),

Gene: Avazak\_68 Start: 47640, Stop: 47786, Start Num: 9

Candidate Starts for Avazak\_68:  
(Start: 9 @47640 has 10 MA's), (18, 47736),

Gene: Captrips\_68 Start: 46788, Stop: 46934, Start Num: 9  
Candidate Starts for Captrips\_68:  
(Start: 9 @46788 has 10 MA's), (18, 46884),

Gene: Capybara\_68 Start: 47119, Stop: 47265, Start Num: 9  
Candidate Starts for Capybara\_68:  
(Start: 9 @47119 has 10 MA's), (18, 47215),

Gene: Conley\_66 Start: 47893, Stop: 48039, Start Num: 9  
Candidate Starts for Conley\_66:  
(Start: 9 @47893 has 10 MA's), (12, 47914),

Gene: Count\_103 Start: 64900, Stop: 65049, Start Num: 10  
Candidate Starts for Count\_103:  
(Start: 10 @64900 has 1 MA's), (13, 64924),

Gene: Fazel\_72 Start: 47378, Stop: 47551, Start Num: 6  
Candidate Starts for Fazel\_72:  
(2, 47276), (3, 47312), (4, 47324), (5, 47339), (6, 47378), (Start: 7 @47387 has 1 MA's),

Gene: FortCran\_71 Start: 47313, Stop: 47459, Start Num: 9  
Candidate Starts for FortCran\_71:  
(Start: 9 @47313 has 10 MA's), (18, 47409),

Gene: Gill\_67 Start: 47131, Stop: 47277, Start Num: 9  
Candidate Starts for Gill\_67:  
(Start: 9 @47131 has 10 MA's), (18, 47227),

Gene: Gravy\_66 Start: 46809, Stop: 46955, Start Num: 9  
Candidate Starts for Gravy\_66:  
(Start: 9 @46809 has 10 MA's), (18, 46905),

Gene: Hortihabitatio\_67 Start: 47777, Stop: 47935, Start Num: 8  
Candidate Starts for Hortihabitatio\_67:  
(8, 47777), (12, 47801), (15, 47825), (16, 47843),

Gene: Kerry\_66 Start: 46809, Stop: 46955, Start Num: 9  
Candidate Starts for Kerry\_66:  
(Start: 9 @46809 has 10 MA's), (18, 46905),

Gene: Magel\_68 Start: 47046, Stop: 47192, Start Num: 9  
Candidate Starts for Magel\_68:  
(Start: 9 @47046 has 10 MA's), (18, 47142),

Gene: Odesza\_66 Start: 46990, Stop: 47136, Start Num: 9  
Candidate Starts for Odesza\_66:  
(Start: 9 @46990 has 10 MA's), (18, 47086),

Gene: Perkunas\_70 Start: 47394, Stop: 47540, Start Num: 9  
Candidate Starts for Perkunas\_70:

(Start: 9 @47394 has 10 MA's), (12, 47415), (14, 47436), (19, 47502),

Gene: Petito\_68 Start: 48585, Stop: 48710, Start Num: 12

Candidate Starts for Petito\_68:

(Start: 9 @48564 has 10 MA's), (12, 48585), (17, 48645), (20, 48705),

Gene: Pherobrine\_68 Start: 48600, Stop: 48755, Start Num: 7

Candidate Starts for Pherobrine\_68:

(1, 48450), (Start: 7 @48600 has 1 MA's), (11, 48627),

Gene: Roney\_67 Start: 47156, Stop: 47302, Start Num: 9

Candidate Starts for Roney\_67:

(Start: 9 @47156 has 10 MA's), (18, 47252),

Gene: Tanis\_67 Start: 46976, Stop: 47122, Start Num: 9

Candidate Starts for Tanis\_67:

(Start: 9 @46976 has 10 MA's), (18, 47072),