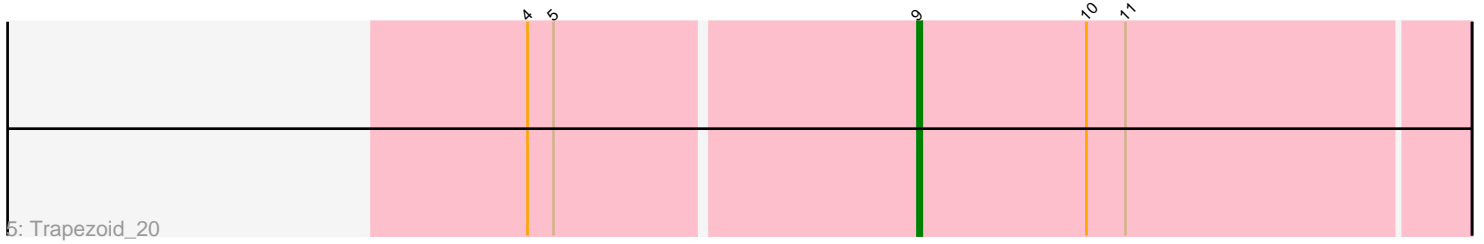
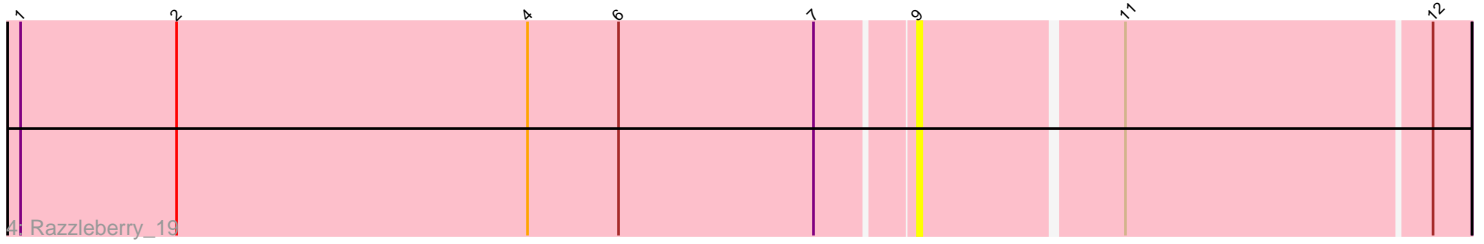
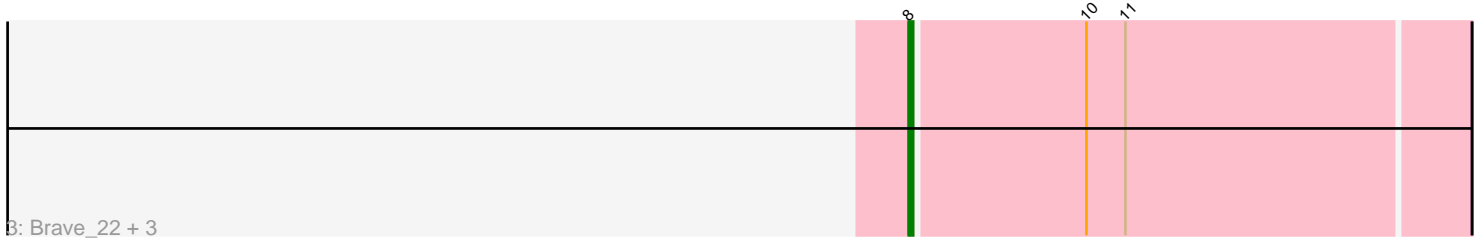
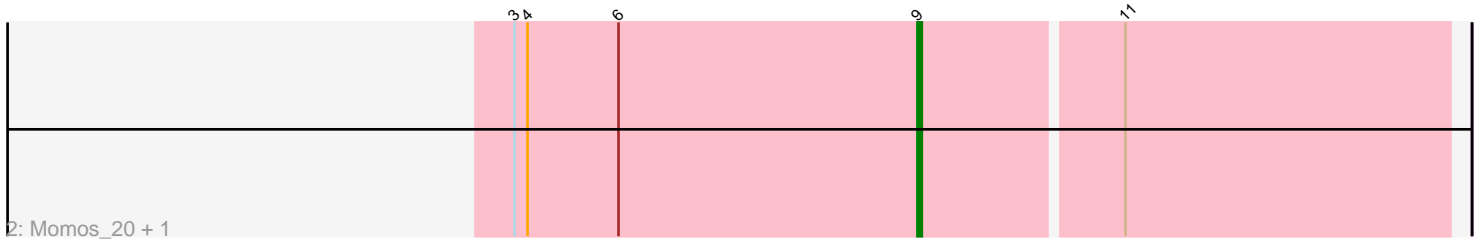
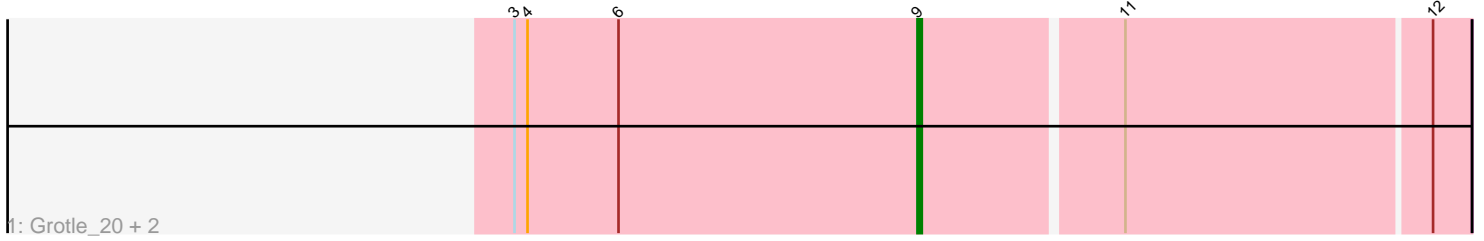


Pham 216742



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 216742 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216742 has 12 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Grotle\_20, Prophecy\_20, Mimi16\_20
- Track 2 : Momos\_20, Ellison17\_20
- Track 3 : Brave\_22, Penne\_22, Squall\_22, Fairywren\_22
- Track 4 : Razzleberry\_19
- Track 5 : Trapezoid\_20
- Track 6 : Ayka\_19

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

Genes that call this "Most Annotated" start:

- Ayka\_19, Ellison17\_20, Grotle\_20, Mimi16\_20, Momos\_20, Prophecy\_20, Razzleberry\_19, Trapezoid\_20,

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

- 

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

- Brave\_22, Fairywren\_22, Penne\_22, Squall\_22,

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

Start 8:

- Found in 4 of 12 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 4 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Brave\_22 (JB), Fairywren\_22 (JB), Penne\_22 (JB), Squall\_22 (JB),

Start 9:

- Found in 8 of 12 ( 66.7% ) of genes in pham
- Manual Annotations of this start: 6 of 10

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ayka\_19 (UNK), Ellison17\_20 (JB), Grotle\_20 (JB), Mimi16\_20 (JB), Momos\_20 (JB), Prophecy\_20 (JB), Razzleberry\_19 (JB), Trapezoid\_20 (JB),

### **Summary by clusters:**

There are 2 clusters represented in this pham: UNK, JB,

Info for manual annotations of cluster JB:

- Start number 8 was manually annotated 4 times for cluster JB.
- Start number 9 was manually annotated 6 times for cluster JB.

### **Gene Information:**

Gene: Ayka\_19 Start: 17334, Stop: 17456, Start Num: 9

Candidate Starts for Ayka\_19:

(Start: 9 @17334 has 6 MA's), (11, 17379),

Gene: Brave\_22 Start: 17155, Stop: 17280, Start Num: 8

Candidate Starts for Brave\_22:

(Start: 8 @17155 has 4 MA's), (10, 17194), (11, 17203),

Gene: Ellison17\_20 Start: 17159, Stop: 17278, Start Num: 9

Candidate Starts for Ellison17\_20:

(3, 17066), (4, 17069), (6, 17090), (Start: 9 @17159 has 6 MA's), (11, 17204),

Gene: Fairywren\_22 Start: 17103, Stop: 17228, Start Num: 8

Candidate Starts for Fairywren\_22:

(Start: 8 @17103 has 4 MA's), (10, 17142), (11, 17151),

Gene: Grotle\_20 Start: 17115, Stop: 17237, Start Num: 9

Candidate Starts for Grotle\_20:

(3, 17022), (4, 17025), (6, 17046), (Start: 9 @17115 has 6 MA's), (11, 17160), (12, 17229),

Gene: Mimi16\_20 Start: 17166, Stop: 17288, Start Num: 9

Candidate Starts for Mimi16\_20:

(3, 17073), (4, 17076), (6, 17097), (Start: 9 @17166 has 6 MA's), (11, 17211), (12, 17280),

Gene: Momos\_20 Start: 17159, Stop: 17278, Start Num: 9

Candidate Starts for Momos\_20:

(3, 17066), (4, 17069), (6, 17090), (Start: 9 @17159 has 6 MA's), (11, 17204),

Gene: Penne\_22 Start: 17155, Stop: 17280, Start Num: 8

Candidate Starts for Penne\_22:

(Start: 8 @17155 has 4 MA's), (10, 17194), (11, 17203),

Gene: Prophecy\_20 Start: 17166, Stop: 17288, Start Num: 9

Candidate Starts for Prophecy\_20:

(3, 17073), (4, 17076), (6, 17097), (Start: 9 @17166 has 6 MA's), (11, 17211), (12, 17280),

Gene: Razzleberry\_19 Start: 17247, Stop: 17369, Start Num: 9

Candidate Starts for Razzleberry\_19:

(1, 17043), (2, 17079), (4, 17160), (6, 17181), (7, 17226), (Start: 9 @17247 has 6 MA's), (11, 17292), (12, 17361),

Gene: Squall\_22 Start: 17125, Stop: 17250, Start Num: 8

Candidate Starts for Squall\_22:

(Start: 8 @17125 has 4 MA's), (10, 17164), (11, 17173),

Gene: Trapezoid\_20 Start: 16679, Stop: 16804, Start Num: 9

Candidate Starts for Trapezoid\_20:

(4, 16592), (5, 16598), (Start: 9 @16679 has 6 MA's), (10, 16718), (11, 16727),