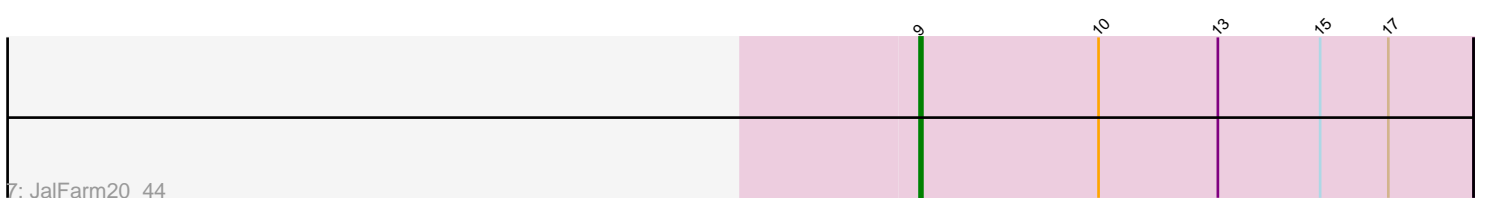
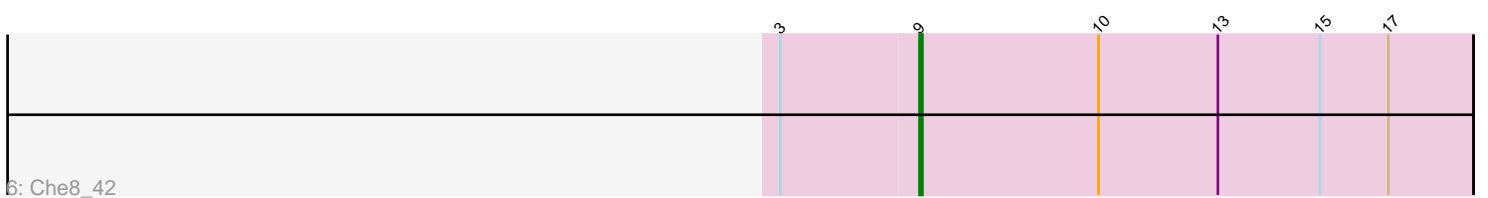
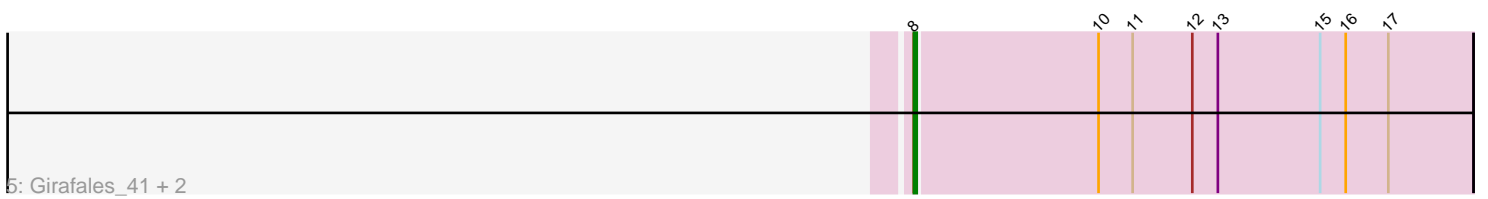
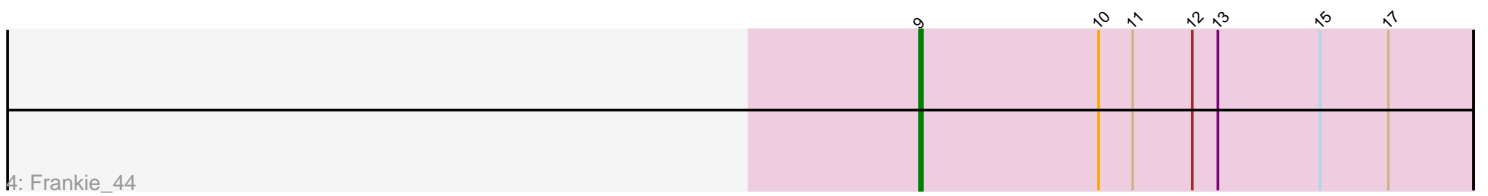
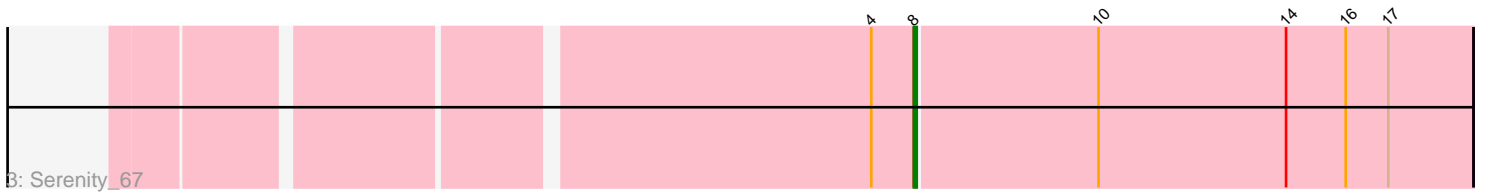
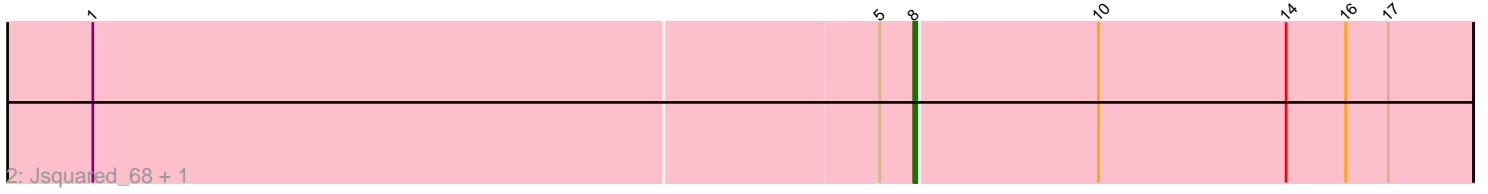
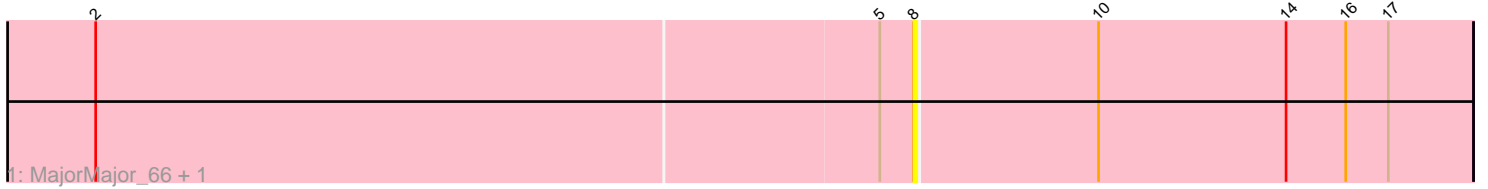


Pham 194489



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 194489 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194489 has 12 members, 2 are drafts.

Phages represented in each track:

- Track 1 : MajorMajor\_66, Quokka\_66
- Track 2 : Jsquared\_68, TipsytheTRex\_64
- Track 3 : Serenity\_67
- Track 4 : Frankie\_44
- Track 5 : Girafales\_41, Florinda\_42, Quico\_41
- Track 6 : Che8\_42
- Track 7 : JalFarm20\_44
- Track 8 : Che9d\_43

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

The start number called the most often in the published annotations is 8, it was called in 6 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Florinda\_42, Girafales\_41, Jsquared\_68, MajorMajor\_66, Quico\_41, Quokka\_66, Serenity\_67, TipsytheTRex\_64,

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

- 

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

- Che8\_42, Che9d\_43, Frankie\_44, JalFarm20\_44,

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

Start 8:

- 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: Florinda\_42 (F1), Girafales\_41 (F1), Jsquared\_68 (A2), MajorMajor\_66 (A2), Quico\_41 (F1), Quokka\_66 (A2), Serenity\_67 (A2), TipsytheTRex\_64 (A2),

Start 9:

- 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: Che8\_42 (F1), Che9d\_43 (F2), Frankie\_44 (F1), JalFarm20\_44 (F1),

### **Summary by clusters:**

There are 3 clusters represented in this pham: F1, F2, A2,

Info for manual annotations of cluster A2:

- Start number 8 was manually annotated 3 times for cluster A2.

Info for manual annotations of cluster F1:

- Start number 8 was manually annotated 3 times for cluster F1.
- Start number 9 was manually annotated 3 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 9 was manually annotated 1 time for cluster F2.

### **Gene Information:**

Gene: Che8\_42 Start: 31949, Stop: 31755, Start Num: 9

Candidate Starts for Che8\_42:

(3, 31997), (Start: 9 @31949 has 4 MA's), (10, 31886), (13, 31844), (15, 31808), (17, 31784),

Gene: Che9d\_43 Start: 30062, Stop: 29868, Start Num: 9

Candidate Starts for Che9d\_43:

(4, 30077), (5, 30074), (6, 30071), (7, 30065), (Start: 9 @30062 has 4 MA's), (10, 29999), (13, 29957), (15, 29921), (17, 29897),

Gene: Florinda\_42 Start: 31393, Stop: 31199, Start Num: 8

Candidate Starts for Florinda\_42:

(Start: 8 @31393 has 6 MA's), (10, 31330), (11, 31318), (12, 31297), (13, 31288), (15, 31252), (16, 31243), (17, 31228),

Gene: Frankie\_44 Start: 32444, Stop: 32250, Start Num: 9

Candidate Starts for Frankie\_44:

(Start: 9 @32444 has 4 MA's), (10, 32381), (11, 32369), (12, 32348), (13, 32339), (15, 32303), (17, 32279),

Gene: Girafales\_41 Start: 31201, Stop: 31007, Start Num: 8

Candidate Starts for Girafales\_41:

(Start: 8 @31201 has 6 MA's), (10, 31138), (11, 31126), (12, 31105), (13, 31096), (15, 31060), (16, 31051), (17, 31036),

Gene: JalFarm20\_44 Start: 32757, Stop: 32563, Start Num: 9

Candidate Starts for JalFarm20\_44:

(Start: 9 @32757 has 4 MA's), (10, 32694), (13, 32652), (15, 32616), (17, 32592),

Gene: Jsquared\_68 Start: 40310, Stop: 40116, Start Num: 8

Candidate Starts for Jsquared\_68:

(1, 40595), (5, 40322), (Start: 8 @40310 has 6 MA's), (10, 40247), (14, 40181), (16, 40160), (17, 40145),

Gene: MajorMajor\_66 Start: 40152, Stop: 39958, Start Num: 8

Candidate Starts for MajorMajor\_66:

(2, 40437), (5, 40164), (Start: 8 @40152 has 6 MA's), (10, 40089), (14, 40023), (16, 40002), (17, 39987),

Gene: Quico\_41 Start: 31201, Stop: 31007, Start Num: 8

Candidate Starts for Quico\_41:

(Start: 8 @31201 has 6 MA's), (10, 31138), (11, 31126), (12, 31105), (13, 31096), (15, 31060), (16, 31051), (17, 31036),

Gene: Quokka\_66 Start: 40152, Stop: 39958, Start Num: 8

Candidate Starts for Quokka\_66:

(2, 40437), (5, 40164), (Start: 8 @40152 has 6 MA's), (10, 40089), (14, 40023), (16, 40002), (17, 39987),

Gene: Serenity\_67 Start: 40282, Stop: 40088, Start Num: 8

Candidate Starts for Serenity\_67:

(4, 40297), (Start: 8 @40282 has 6 MA's), (10, 40219), (14, 40153), (16, 40132), (17, 40117),

Gene: TipsytheTRex\_64 Start: 40352, Stop: 40158, Start Num: 8

Candidate Starts for TipsytheTRex\_64:

(1, 40637), (5, 40364), (Start: 8 @40352 has 6 MA's), (10, 40289), (14, 40223), (16, 40202), (17, 40187),