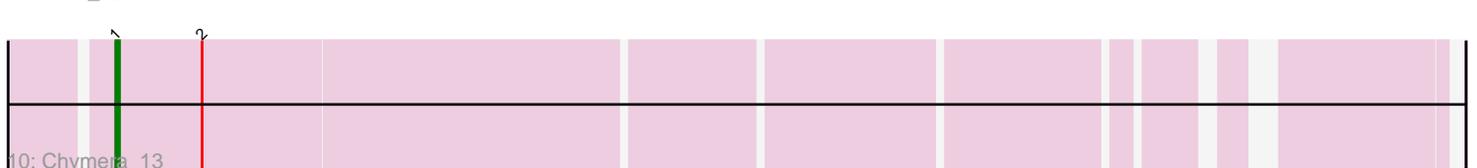
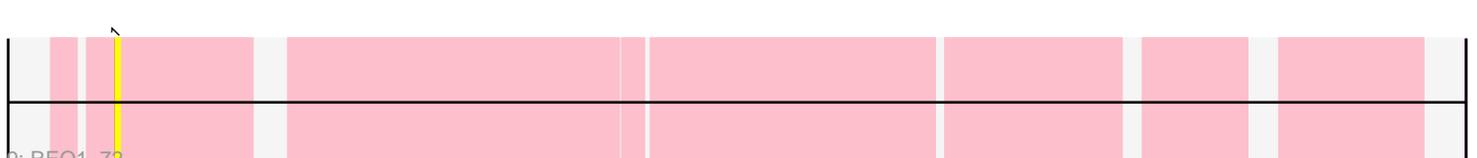
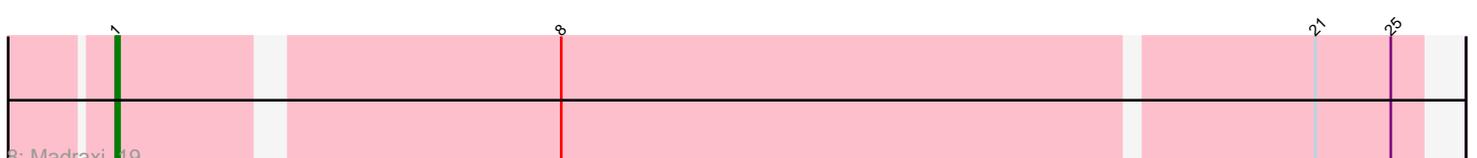
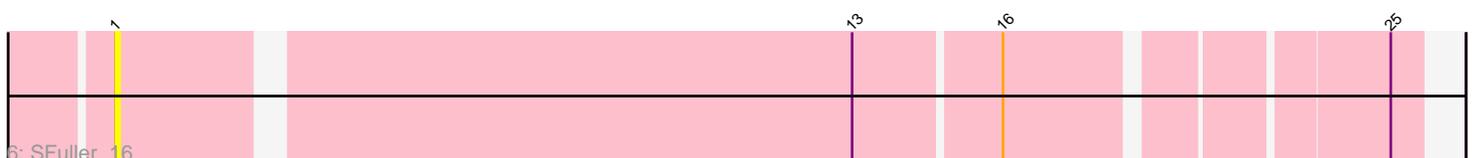
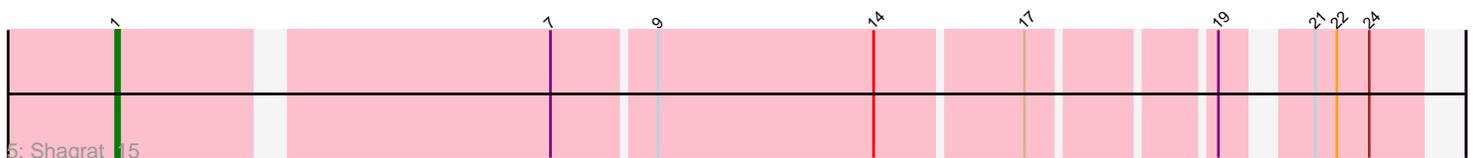
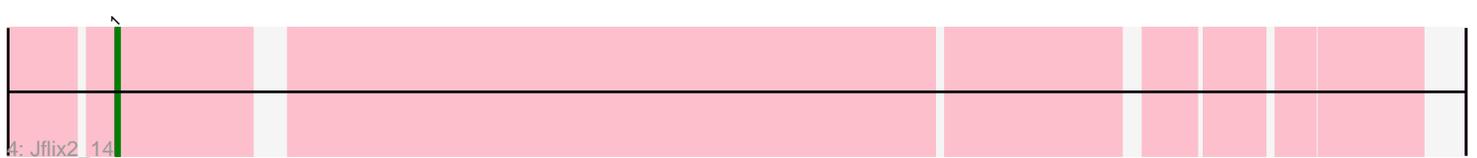
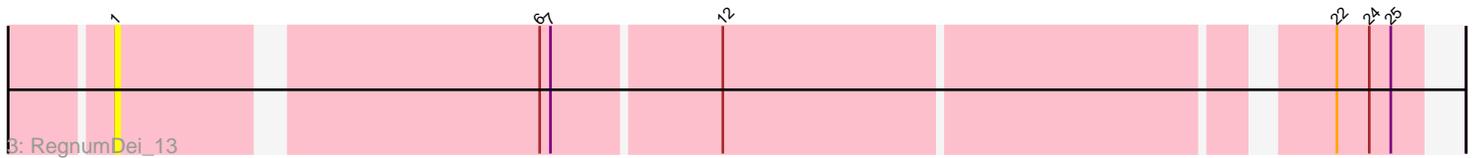
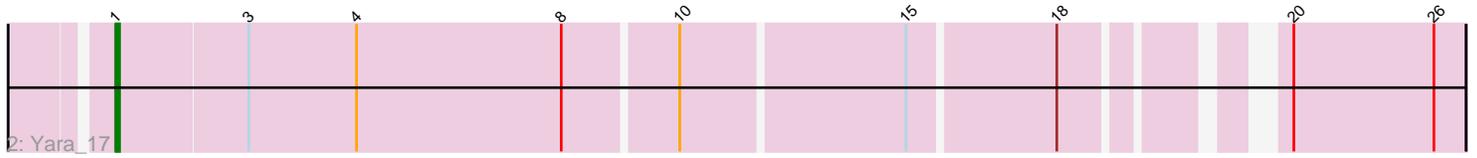
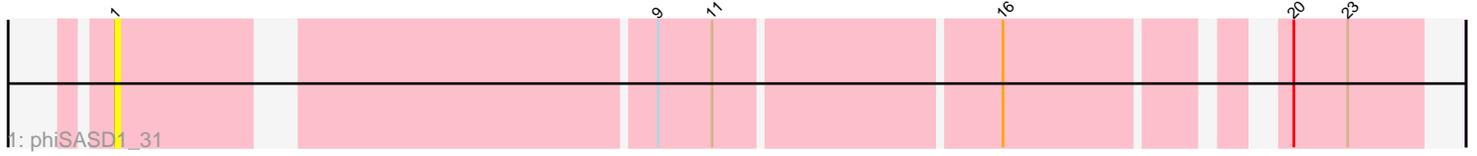


Pham 282619



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 282619 Report

This analysis was run 02/23/26 on database version 636.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 282619 has 10 members, 5 are drafts.

Phages represented in each track:

- Track 1 : phiSASD1\_31
- Track 2 : Yara\_17
- Track 3 : RegnumDei\_13
- Track 4 : Jflix2\_14
- Track 5 : Shagrat\_15
- Track 6 : SFuller\_16
- Track 7 : CurlyFries\_16
- Track 8 : Madraxi\_19
- Track 9 : REQ1\_72
- Track 10 : Chymera\_13

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

The start number called the most often in the published annotations is 1, it was called in 5 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Chymera\_13, CurlyFries\_16, Jflix2\_14, Madraxi\_19, REQ1\_72, RegnumDei\_13, SFuller\_16, Shagrat\_15, Yara\_17, phiSASD1\_31,

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

- 

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

- 

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

Start 1:

- Found in 10 of 10 ( 100.0% ) of genes in pham

- Manual Annotations of this start: 5 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chymera\_13 (singleton), CurlyFries\_16 (CF), Jflix2\_14 (CF), Madraxi\_19 (CF), REQ1\_72 (CF), RegnumDei\_13 (CF), SFuller\_16 (CF), Shagrat\_15 (CF), Yara\_17 (BN), phiSASD1\_31 (BJ),

### **Summary by clusters:**

There are 4 clusters represented in this pham: BN, CF, BJ, singleton,

Info for manual annotations of cluster BN:

- Start number 1 was manually annotated 1 time for cluster BN.

Info for manual annotations of cluster CF:

- Start number 1 was manually annotated 3 times for cluster CF.

### **Gene Information:**

Gene: Chymera\_13 Start: 9430, Stop: 9768, Start Num: 1

Candidate Starts for Chymera\_13:

(Start: 1 @9430 has 5 MA's), (2, 9454),

Gene: CurlyFries\_16 Start: 10187, Stop: 10519, Start Num: 1

Candidate Starts for CurlyFries\_16:

(Start: 1 @10187 has 5 MA's), (5, 10271), (17, 10427), (19, 10472), (21, 10490), (25, 10511),

Gene: Jflix2\_14 Start: 12261, Stop: 12599, Start Num: 1

Candidate Starts for Jflix2\_14:

(Start: 1 @12261 has 5 MA's),

Gene: Madraxi\_19 Start: 14693, Stop: 15040, Start Num: 1

Candidate Starts for Madraxi\_19:

(Start: 1 @14693 has 5 MA's), (8, 14807), (21, 15011), (25, 15032),

Gene: REQ1\_72 Start: 36167, Stop: 36499, Start Num: 1

Candidate Starts for REQ1\_72:

(Start: 1 @36167 has 5 MA's),

Gene: RegnumDei\_13 Start: 10611, Stop: 10946, Start Num: 1

Candidate Starts for RegnumDei\_13:

(Start: 1 @10611 has 5 MA's), (6, 10719), (7, 10722), (12, 10767), (22, 10923), (24, 10932), (25, 10938),

Gene: SFuller\_16 Start: 12876, Stop: 13214, Start Num: 1

Candidate Starts for SFuller\_16:

(Start: 1 @12876 has 5 MA's), (13, 13071), (16, 13110), (25, 13206),

Gene: Shagrat\_15 Start: 11959, Stop: 12288, Start Num: 1

Candidate Starts for Shagrat\_15:

(Start: 1 @11959 has 5 MA's), (7, 12070), (9, 12097), (14, 12157), (17, 12196), (19, 12241), (21, 12259), (22, 12265), (24, 12274),

Gene: Yara\_17 Start: 10665, Stop: 11009, Start Num: 1

Candidate Starts for Yara\_17:

(Start: 1 @10665 has 5 MA's), (3, 10701), (4, 10731), (8, 10788), (10, 10818), (15, 10878), (18, 10917), (20, 10962), (26, 11001),

Gene: phiSASD1\_31 Start: 7450, Stop: 7773, Start Num: 1

Candidate Starts for phiSASD1\_31:

(Start: 1 @7450 has 5 MA's), (9, 7585), (11, 7600), (16, 7675), (20, 7738), (23, 7753),