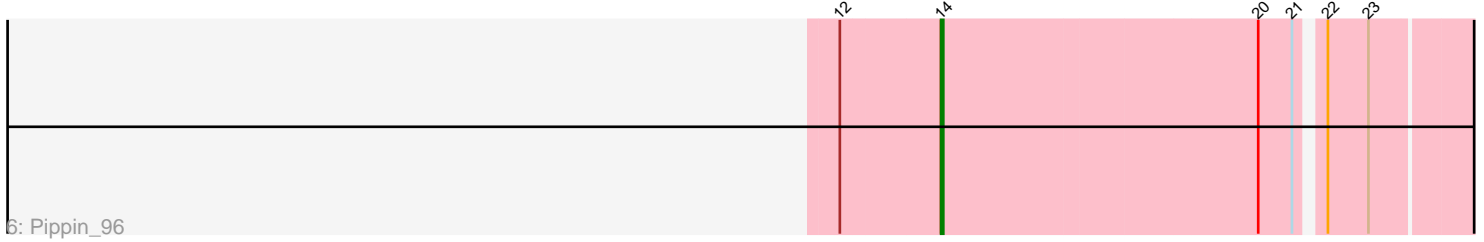
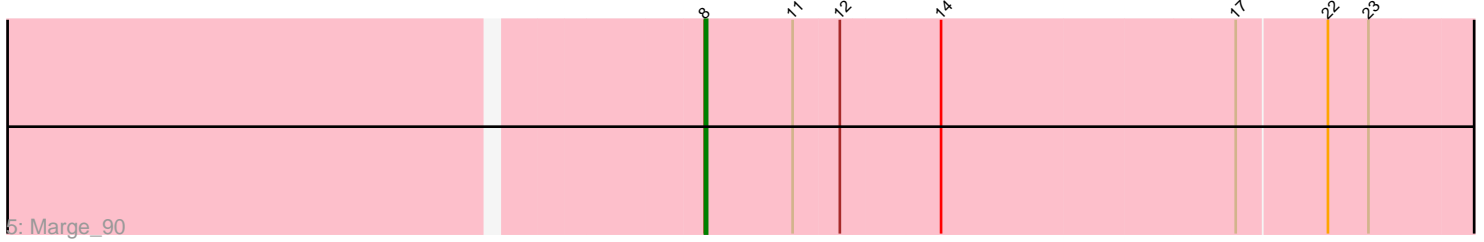
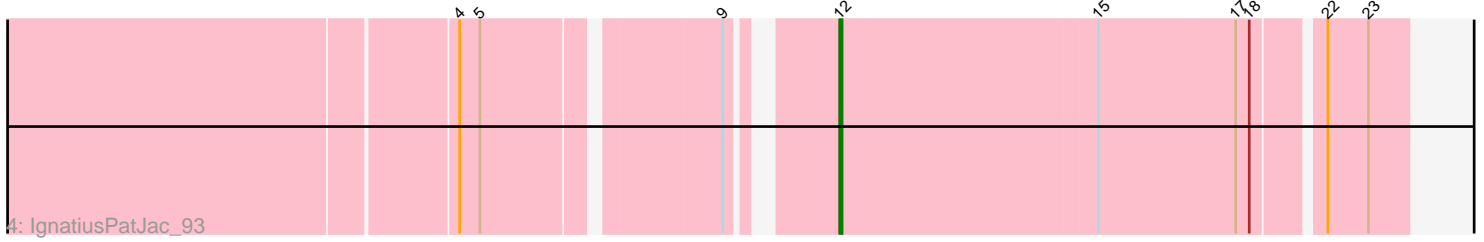
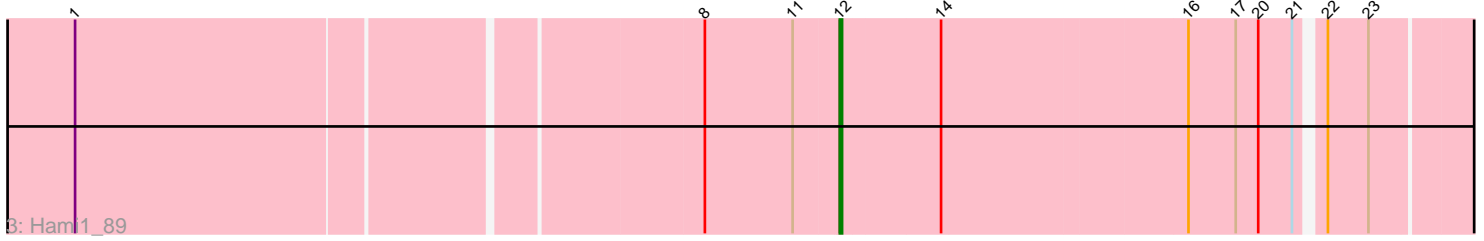
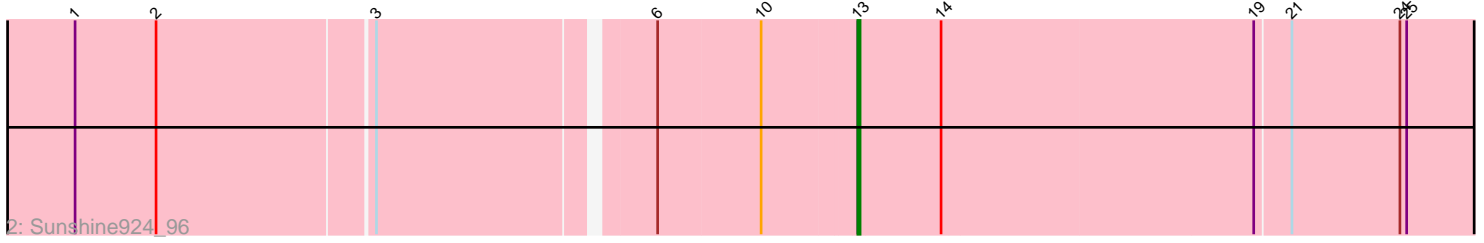
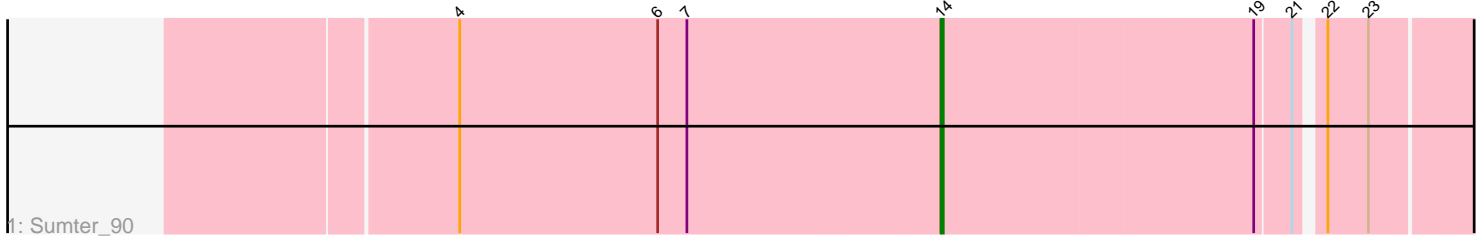


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 184378 Report

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

Pham number 184378 has 6 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Sumter\_90
- Track 2 : Sunshine924\_96
- Track 3 : Hami1\_89
- Track 4 : IgnatiusPatJac\_93
- Track 5 : Marge\_90
- Track 6 : Pippin\_96

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

The start number called the most often in the published annotations is 14, it was called in 2 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Pippin\_96, Sumter\_90,

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

- Hami1\_89, Marge\_90, Sunshine924\_96,

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

- IgnatiusPatJac\_93,

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

Start 8:

- Found in 2 of 6 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Marge\_90 (A1),

Start 12:

- Found in 4 of 6 ( 66.7% ) of genes in pham
- Manual Annotations of this start: 2 of 6
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Hami1\_89 (A1), IgnatiusPatJac\_93 (A1),

Start 13:

- Found in 1 of 6 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sunshine924\_96 (A1),

Start 14:

- Found in 5 of 6 ( 83.3% ) of genes in pham
- Manual Annotations of this start: 2 of 6
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Pippin\_96 (A1), Sumter\_90 (A1),

**Summary by clusters:**

There is one cluster represented in this pham: A1

Info for manual annotations of cluster A1:

- Start number 8 was manually annotated 1 time for cluster A1.
- Start number 12 was manually annotated 2 times for cluster A1.
- Start number 13 was manually annotated 1 time for cluster A1.
- Start number 14 was manually annotated 2 times for cluster A1.

**Gene Information:**

Gene: Hami1\_89 Start: 47344, Stop: 47051, Start Num: 12

Candidate Starts for Hami1\_89:

(1, 47665), (Start: 8 @47401 has 1 MA's), (11, 47362), (Start: 12 @47344 has 2 MA's), (Start: 14 @47302 has 2 MA's), (16, 47197), (17, 47176), (20, 47167), (21, 47152), (22, 47143), (23, 47125),

Gene: IgnatiusPatJac\_93 Start: 50828, Stop: 50589, Start Num: 12

Candidate Starts for IgnatiusPatJac\_93:

(4, 50969), (5, 50960), (9, 50864), (Start: 12 @50828 has 2 MA's), (15, 50717), (17, 50657), (18, 50651), (22, 50624), (23, 50606),

Gene: Marge\_90 Start: 50971, Stop: 50612, Start Num: 8

Candidate Starts for Marge\_90:

(Start: 8 @50971 has 1 MA's), (11, 50932), (Start: 12 @50914 has 2 MA's), (Start: 14 @50872 has 2 MA's), (17, 50746), (22, 50707), (23, 50689),

Gene: Pippin\_96 Start: 51631, Stop: 51380, Start Num: 14

Candidate Starts for Pippin\_96:

(Start: 12 @51673 has 2 MA's), (Start: 14 @51631 has 2 MA's), (20, 51496), (21, 51481), (22, 51472), (23, 51454),

Gene: Sumter\_90 Start: 52252, Stop: 52001, Start Num: 14

Candidate Starts for Sumter\_90:

(4, 52459), (6, 52372), (7, 52360), (Start: 14 @52252 has 2 MA's), (19, 52117), (21, 52102), (22, 52093), (23, 52075),

Gene: Sunshine924\_96 Start: 50991, Stop: 50692, Start Num: 13

Candidate Starts for Sunshine924\_96:

(1, 51318), (2, 51282), (3, 51189), (6, 51075), (10, 51030), (Start: 13 @50991 has 1 MA's), (Start: 14 @50955 has 2 MA's), (19, 50820), (21, 50805), (24, 50757), (25, 50754),