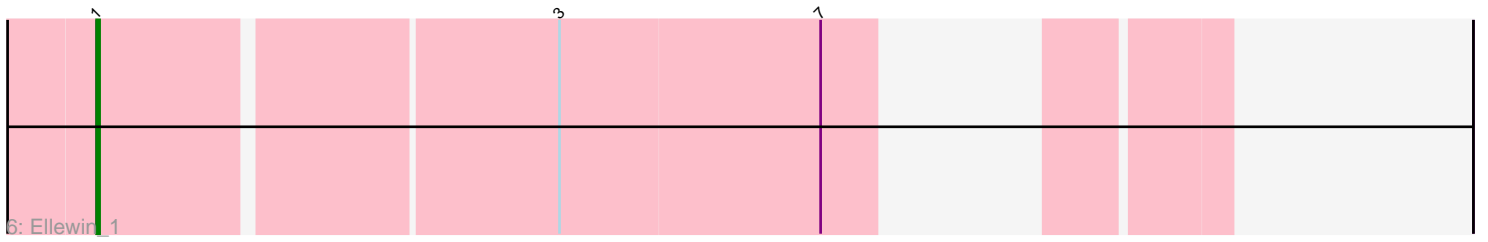
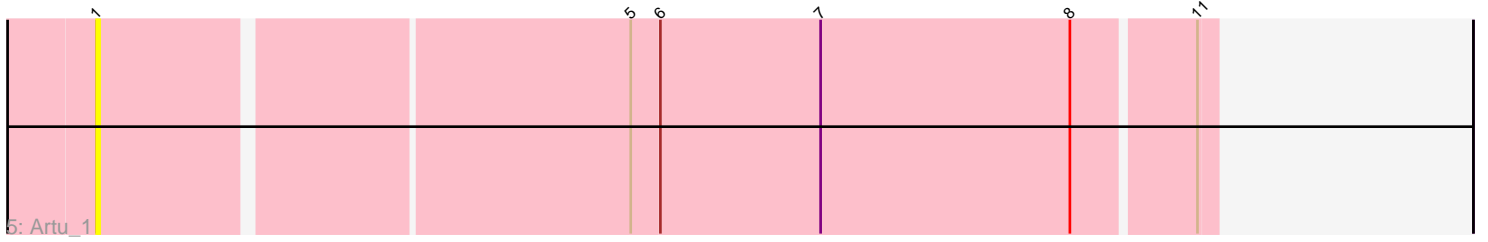
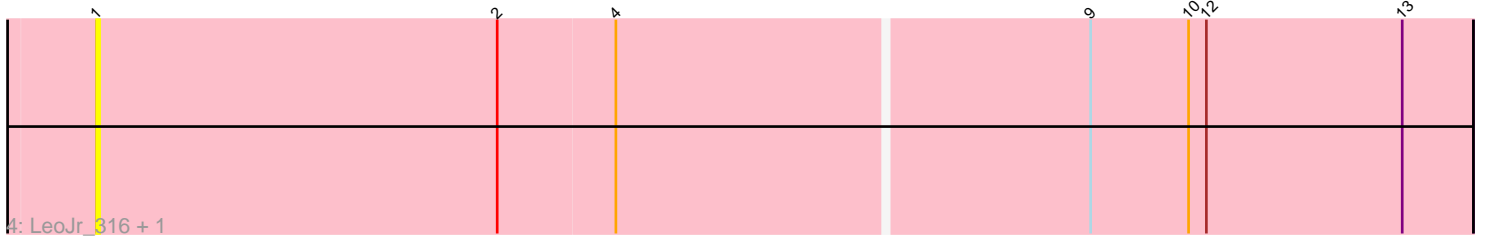
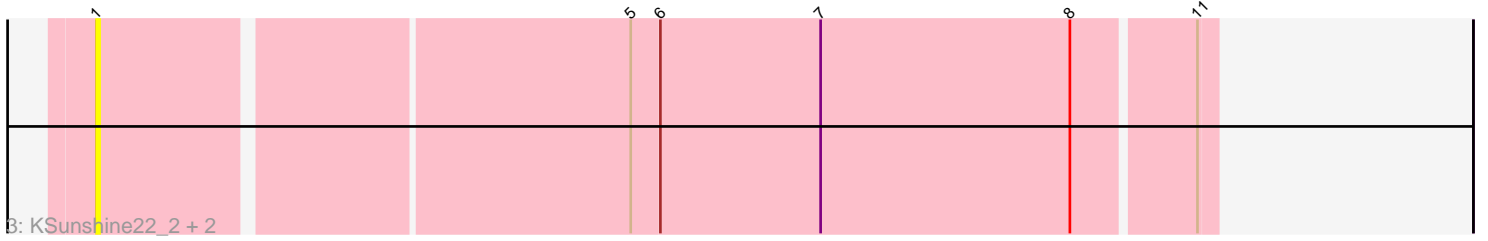
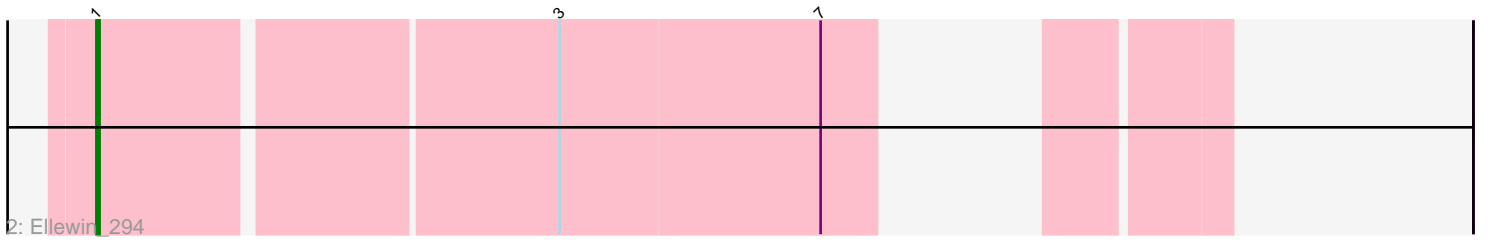
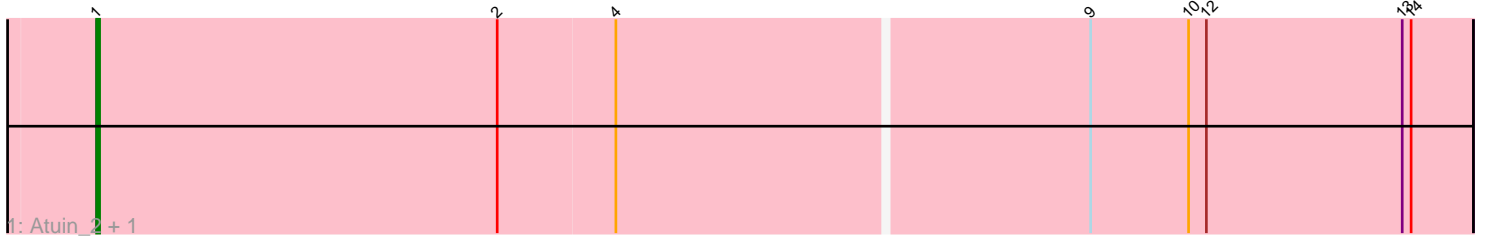


Pham 295329



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 295329 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295329 has 10 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Atuin\_2, Atuin\_302
- Track 2 : Ellewin\_294
- Track 3 : KSunshine22\_2, Artu\_288, KSunshine22\_294
- Track 4 : LeoJr\_316, LeoJr\_3
- Track 5 : Artu\_1
- Track 6 : Ellewin\_1

### ***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 4 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Artu\_1, Artu\_288, Atuin\_2, Atuin\_302, Ellewin\_1, Ellewin\_294, KSunshine22\_2, KSunshine22\_294, LeoJr\_3, LeoJr\_316,

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: 4 of 4
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Artu\_1 (FC), Artu\_288 (FC), Atuin\_2 (FC), Atuin\_302 (FC), Ellewin\_1 (FC), Ellewin\_294 (FC), KSunshine22\_2 (FC), KSunshine22\_294 (FC), LeoJr\_3 (FC), LeoJr\_316 (FC),

### **Summary by clusters:**

There is one cluster represented in this pham: FC

Info for manual annotations of cluster FC:

•Start number 1 was manually annotated 4 times for cluster FC.

**Gene Information:**

Gene: Artu\_1 Start: 65, Stop: 427, Start Num: 1

Candidate Starts for Artu\_1:

(Start: 1 @65 has 4 MA's), (5, 236), (6, 245), (7, 299), (8, 383), (11, 422),

Gene: Artu\_288 Start: 179219, Stop: 179581, Start Num: 1

Candidate Starts for Artu\_288:

(Start: 1 @179219 has 4 MA's), (5, 179390), (6, 179399), (7, 179453), (8, 179537), (11, 179576),

Gene: Atuin\_2 Start: 659, Stop: 1117, Start Num: 1

Candidate Starts for Atuin\_2:

(Start: 1 @659 has 4 MA's), (2, 794), (4, 833), (9, 989), (10, 1022), (12, 1028), (13, 1094), (14, 1097),

Gene: Atuin\_302 Start: 177547, Stop: 178005, Start Num: 1

Candidate Starts for Atuin\_302:

(Start: 1 @177547 has 4 MA's), (2, 177682), (4, 177721), (9, 177877), (10, 177910), (12, 177916), (13, 177982), (14, 177985),

Gene: Ellewin\_294 Start: 179180, Stop: 179491, Start Num: 1

Candidate Starts for Ellewin\_294:

(Start: 1 @179180 has 4 MA's), (3, 179327), (7, 179414),

Gene: Ellewin\_1 Start: 66, Stop: 377, Start Num: 1

Candidate Starts for Ellewin\_1:

(Start: 1 @66 has 4 MA's), (3, 213), (7, 300),

Gene: KSunshine22\_2 Start: 681, Stop: 1043, Start Num: 1

Candidate Starts for KSunshine22\_2:

(Start: 1 @681 has 4 MA's), (5, 852), (6, 861), (7, 915), (8, 999), (11, 1038),

Gene: KSunshine22\_294 Start: 177582, Stop: 177944, Start Num: 1

Candidate Starts for KSunshine22\_294:

(Start: 1 @177582 has 4 MA's), (5, 177753), (6, 177762), (7, 177816), (8, 177900), (11, 177939),

Gene: LeoJr\_316 Start: 178116, Stop: 178574, Start Num: 1

Candidate Starts for LeoJr\_316:

(Start: 1 @178116 has 4 MA's), (2, 178251), (4, 178290), (9, 178446), (10, 178479), (12, 178485), (13, 178551),

Gene: LeoJr\_3 Start: 813, Stop: 1271, Start Num: 1

Candidate Starts for LeoJr\_3:

(Start: 1 @813 has 4 MA's), (2, 948), (4, 987), (9, 1143), (10, 1176), (12, 1182), (13, 1248),