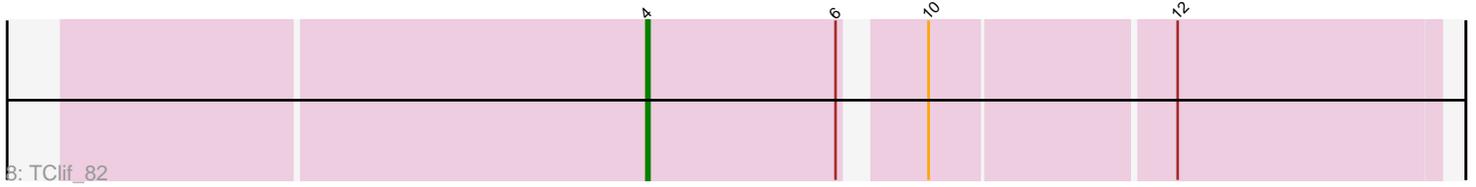
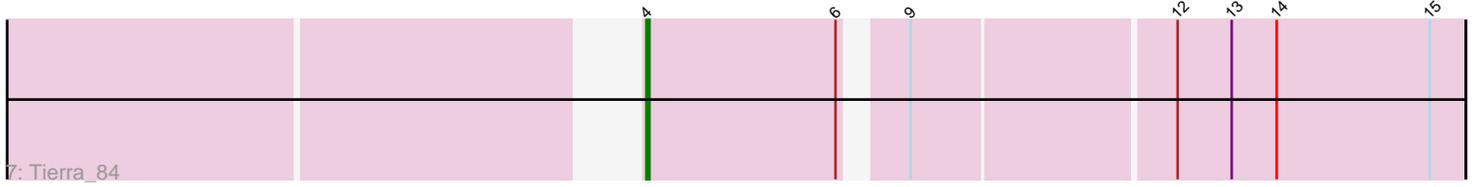
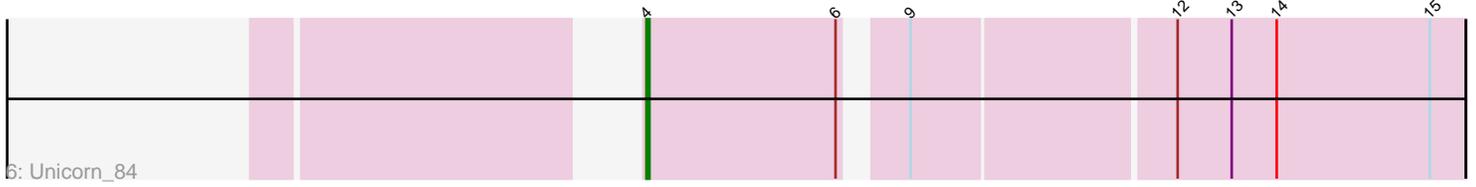
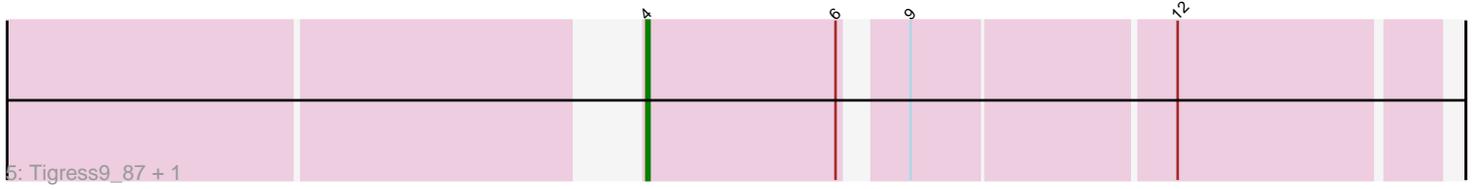
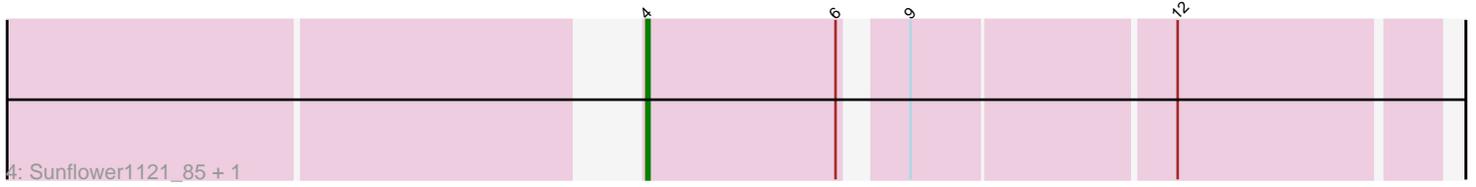
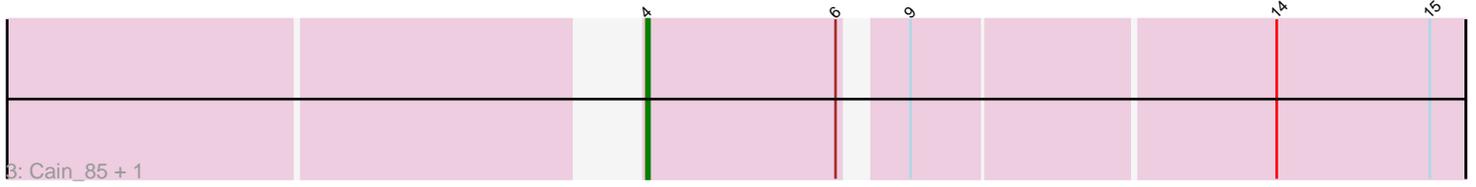
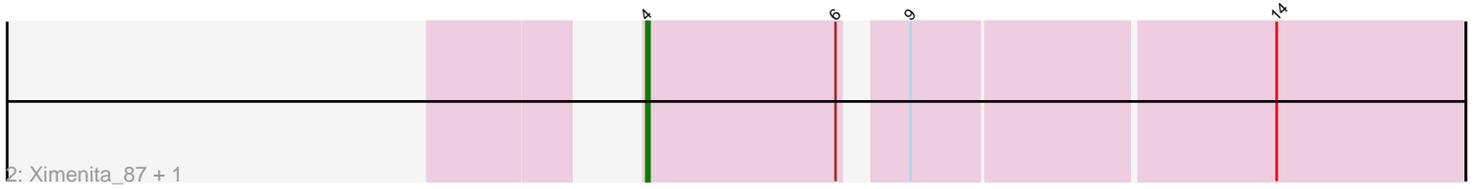
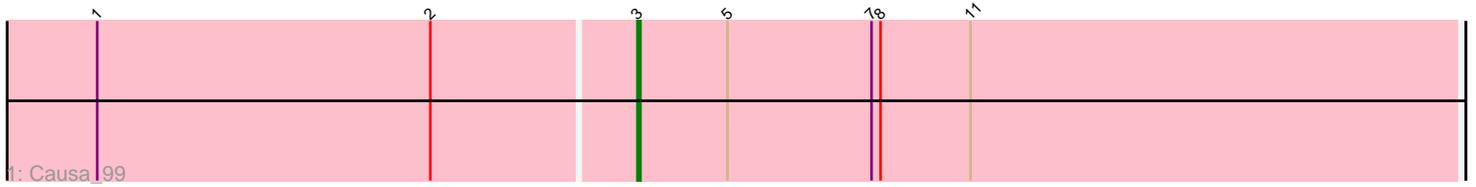


Pham 291687



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 291687 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291687 has 12 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Causa\_99
- Track 2 : Ximenita\_87, Syra333\_85
- Track 3 : Cain\_85, Phrank\_85
- Track 4 : Sunflower1121\_85, Shadow1\_86
- Track 5 : Tigress9\_87, Krueger\_86
- Track 6 : Unicorn\_84
- Track 7 : Tierra\_84
- Track 8 : TClif\_82

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

The start number called the most often in the published annotations is 4, it was called in 10 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Cain\_85, Krueger\_86, Phrank\_85, Shadow1\_86, Sunflower1121\_85, Syra333\_85, TClif\_82, Tierra\_84, Tigress9\_87, Unicorn\_84, Ximenita\_87,

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

- 

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

- Causa\_99,

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

Start 3:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Causa\_99 (AI),

Start 4:

- Found in 11 of 12 ( 91.7% ) of genes in pham

- Manual Annotations of this start: 10 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cain\_85 (K6), Krueger\_86 (K6), Phrank\_85 (K6), Shadow1\_86 (K6), Sunflower1121\_85 (K6), Syra333\_85 (K6), TClif\_82 (K6), Tierra\_84 (K6), Tigress9\_87 (K6), Unicorn\_84 (K6), Ximenita\_87 (K6),

### **Summary by clusters:**

There are 2 clusters represented in this pham: AI, K6,

Info for manual annotations of cluster AI:

- Start number 3 was manually annotated 1 time for cluster AI.

Info for manual annotations of cluster K6:

- Start number 4 was manually annotated 10 times for cluster K6.

### **Gene Information:**

Gene: Cain\_85 Start: 52802, Stop: 53059, Start Num: 4

Candidate Starts for Cain\_85:

(Start: 4 @52802 has 10 MA's), (6, 52865), (9, 52880), (14, 52997), (15, 53048),

Gene: Causa\_99 Start: 70808, Stop: 70536, Start Num: 3

Candidate Starts for Causa\_99:

(1, 70985), (2, 70874), (Start: 3 @70808 has 1 MA's), (5, 70778), (7, 70730), (8, 70727), (11, 70697),

Gene: Krueger\_86 Start: 53323, Stop: 53568, Start Num: 4

Candidate Starts for Krueger\_86:

(Start: 4 @53323 has 10 MA's), (6, 53386), (9, 53401), (12, 53485),

Gene: Phrank\_85 Start: 52789, Stop: 53046, Start Num: 4

Candidate Starts for Phrank\_85:

(Start: 4 @52789 has 10 MA's), (6, 52852), (9, 52867), (14, 52984), (15, 53035),

Gene: Shadow1\_86 Start: 53463, Stop: 53708, Start Num: 4

Candidate Starts for Shadow1\_86:

(Start: 4 @53463 has 10 MA's), (6, 53526), (9, 53541), (12, 53625),

Gene: Sunflower1121\_85 Start: 53007, Stop: 53252, Start Num: 4

Candidate Starts for Sunflower1121\_85:

(Start: 4 @53007 has 10 MA's), (6, 53070), (9, 53085), (12, 53169),

Gene: Syra333\_85 Start: 53352, Stop: 53609, Start Num: 4

Candidate Starts for Syra333\_85:

(Start: 4 @53352 has 10 MA's), (6, 53415), (9, 53430), (14, 53547),

Gene: TClif\_82 Start: 52586, Stop: 52834, Start Num: 4

Candidate Starts for TClif\_82:

(Start: 4 @52586 has 10 MA's), (6, 52649), (10, 52670), (12, 52748),

Gene: Tierra\_84 Start: 53203, Stop: 53460, Start Num: 4

Candidate Starts for Tierra\_84:

(Start: 4 @53203 has 10 MA's), (6, 53266), (9, 53281), (12, 53365), (13, 53383), (14, 53398), (15, 53449),

Gene: Tigress9\_87 Start: 53651, Stop: 53896, Start Num: 4

Candidate Starts for Tigress9\_87:

(Start: 4 @53651 has 10 MA's), (6, 53714), (9, 53729), (12, 53813),

Gene: Unicorn\_84 Start: 52929, Stop: 53186, Start Num: 4

Candidate Starts for Unicorn\_84:

(Start: 4 @52929 has 10 MA's), (6, 52992), (9, 53007), (12, 53091), (13, 53109), (14, 53124), (15, 53175),

Gene: Ximenita\_87 Start: 53676, Stop: 53933, Start Num: 4

Candidate Starts for Ximenita\_87:

(Start: 4 @53676 has 10 MA's), (6, 53739), (9, 53754), (14, 53871),