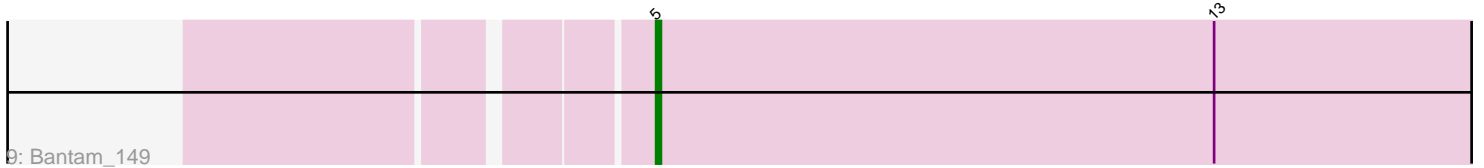
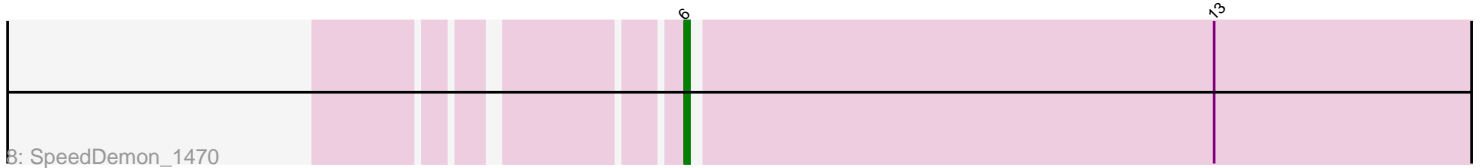
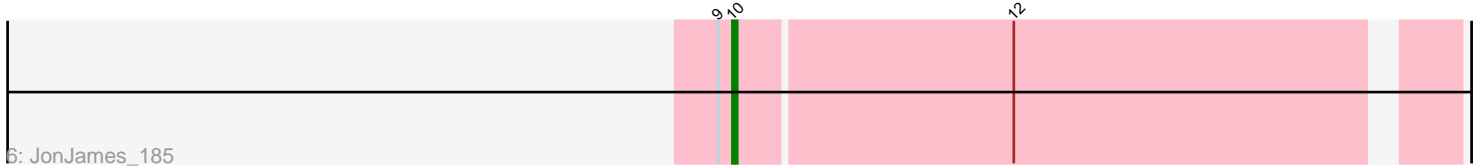
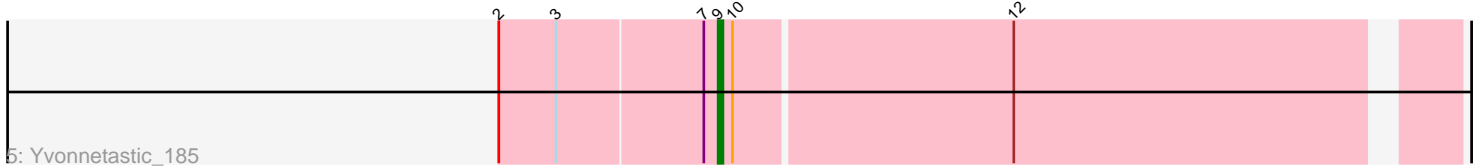
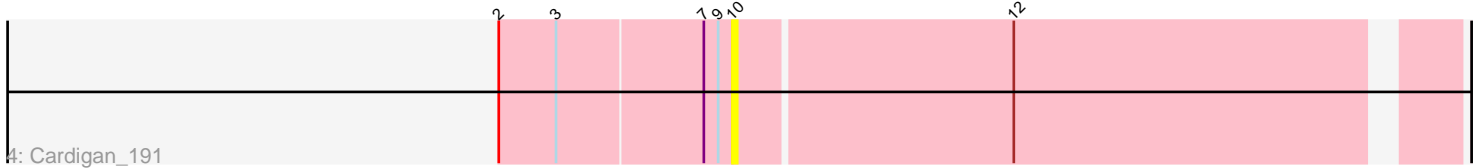
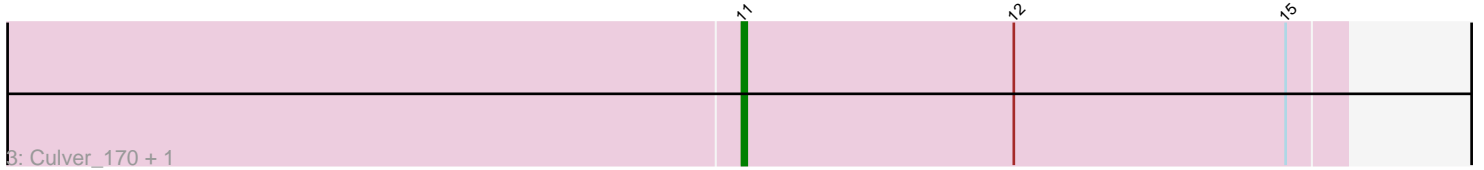
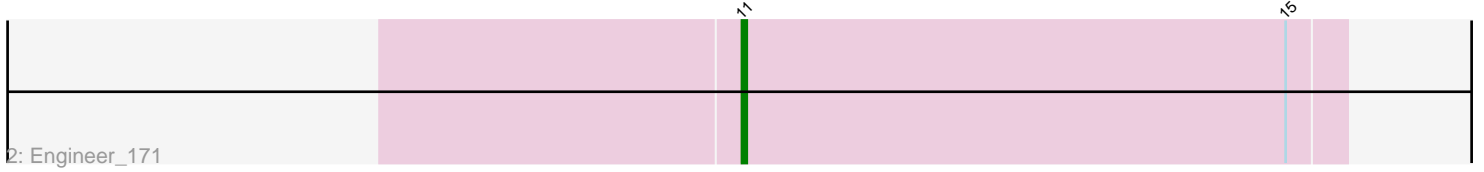
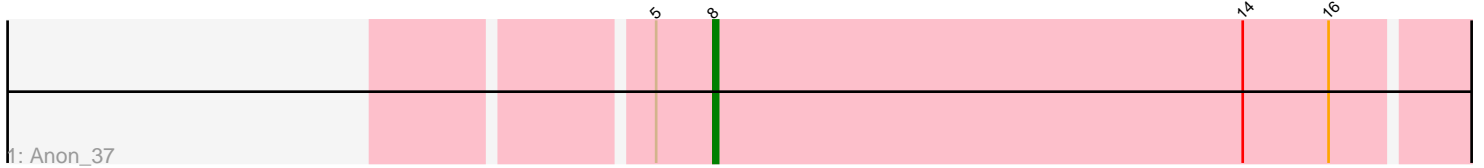


Pham 293390



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 293390 Report

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

Pham number 293390 has 10 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Anon\_37
- Track 2 : Engineer\_171
- Track 3 : Culver\_170, Miskis\_162
- Track 4 : Cardigan\_191
- Track 5 : Yvonnetastic\_185
- Track 6 : JonJames\_185
- Track 7 : DatBoi\_146
- Track 8 : SpeedDemon\_1470
- Track 9 : Bantam\_149

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

The start number called the most often in the published annotations is 11, it was called in 3 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Culver\_170, Engineer\_171, Miskis\_162,

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

- 

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

- Anon\_37, Bantam\_149, Cardigan\_191, DatBoi\_146, JonJames\_185, SpeedDemon\_1470, Yvonnetastic\_185,

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

Start 4:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DatBoi\_146 (DL),

Start 5:

- Found in 2 of 10 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Bantam\_149 (DL),

Start 6:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SpeedDemon\_1470 (DL),

Start 8:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anon\_37 (A15),

Start 9:

- Found in 3 of 10 ( 30.0% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Yvonnestic\_185 (DD),

Start 10:

- Found in 3 of 10 ( 30.0% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Cardigan\_191 (DD), JonJames\_185 (DD),

Start 11:

- Found in 3 of 10 ( 30.0% ) of genes in pham
- Manual Annotations of this start: 3 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Culver\_170 (CQ1), Engineer\_171 (CQ1), Miskis\_162 (CQ1),

### **Summary by clusters:**

There are 4 clusters represented in this pham: A15, DD, CQ1, DL,

Info for manual annotations of cluster A15:

- Start number 8 was manually annotated 1 time for cluster A15.

Info for manual annotations of cluster CQ1:

- Start number 11 was manually annotated 3 times for cluster CQ1.

Info for manual annotations of cluster DD:

- Start number 9 was manually annotated 1 time for cluster DD.
- Start number 10 was manually annotated 1 time for cluster DD.

Info for manual annotations of cluster DL:

- Start number 4 was manually annotated 1 time for cluster DL.

- Start number 5 was manually annotated 1 time for cluster DL.
- Start number 6 was manually annotated 1 time for cluster DL.

### **Gene Information:**

Gene: Anon\_37 Start: 25802, Stop: 25969, Start Num: 8

Candidate Starts for Anon\_37:

(Start: 5 @25790 has 1 MA's), (Start: 8 @25802 has 1 MA's), (14, 25913), (16, 25931),

Gene: Bantam\_149 Start: 84735, Stop: 84553, Start Num: 5

Candidate Starts for Bantam\_149:

(Start: 5 @84735 has 1 MA's), (13, 84618),

Gene: Cardigan\_191 Start: 94085, Stop: 93930, Start Num: 10

Candidate Starts for Cardigan\_191:

(2, 94133), (3, 94121), (7, 94091), (Start: 9 @94088 has 1 MA's), (Start: 10 @94085 has 1 MA's), (12, 94028),

Gene: Culver\_170 Start: 85578, Stop: 85453, Start Num: 11

Candidate Starts for Culver\_170:

(Start: 11 @85578 has 3 MA's), (12, 85521), (15, 85464),

Gene: DatBoi\_146 Start: 83784, Stop: 83599, Start Num: 4

Candidate Starts for DatBoi\_146:

(1, 83886), (Start: 4 @83784 has 1 MA's), (13, 83664),

Gene: Engineer\_171 Start: 86803, Stop: 86678, Start Num: 11

Candidate Starts for Engineer\_171:

(Start: 11 @86803 has 3 MA's), (15, 86689),

Gene: JonJames\_185 Start: 95005, Stop: 94850, Start Num: 10

Candidate Starts for JonJames\_185:

(Start: 9 @95008 has 1 MA's), (Start: 10 @95005 has 1 MA's), (12, 94948),

Gene: Miskis\_162 Start: 85783, Stop: 85658, Start Num: 11

Candidate Starts for Miskis\_162:

(Start: 11 @85783 has 3 MA's), (12, 85726), (15, 85669),

Gene: SpeedDemon\_1470 Start: 86117, Stop: 85944, Start Num: 6

Candidate Starts for SpeedDemon\_1470:

(Start: 6 @86117 has 1 MA's), (13, 86009),

Gene: Yvonnetastic\_185 Start: 91907, Stop: 91749, Start Num: 9

Candidate Starts for Yvonnetastic\_185:

(2, 91952), (3, 91940), (7, 91910), (Start: 9 @91907 has 1 MA's), (Start: 10 @91904 has 1 MA's), (12, 91847),