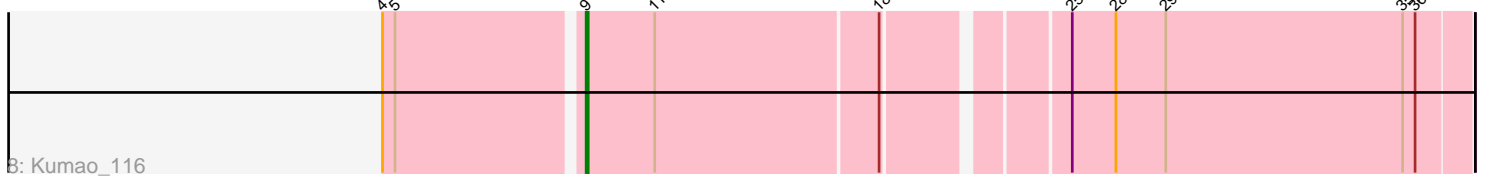
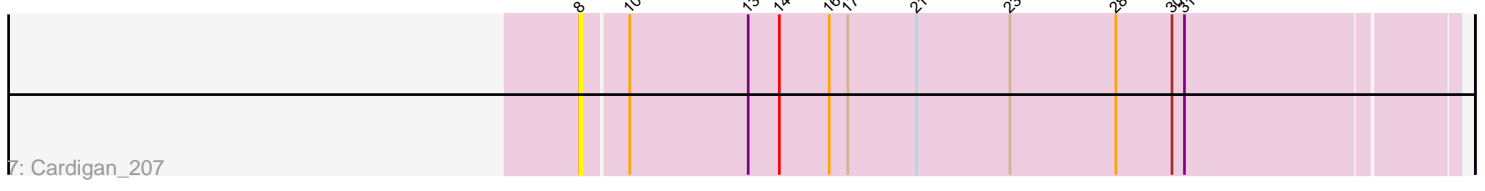
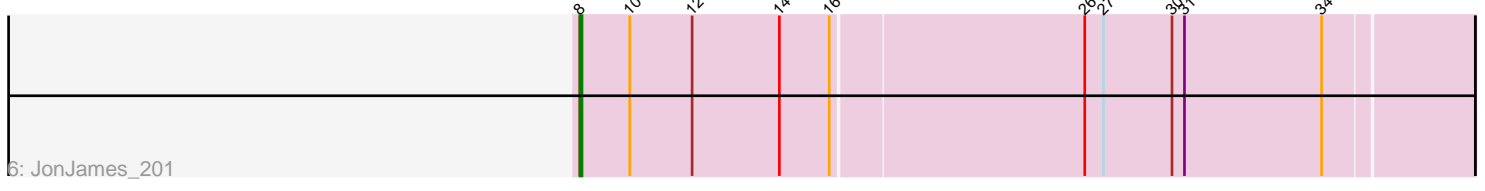
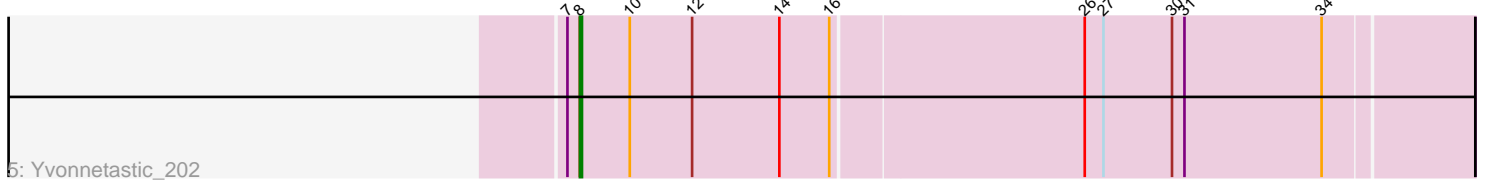
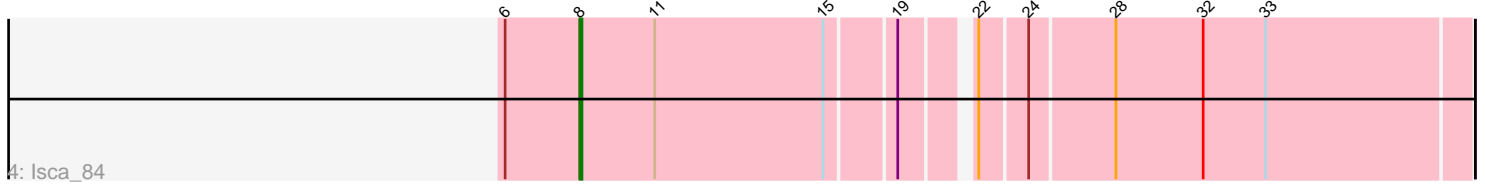
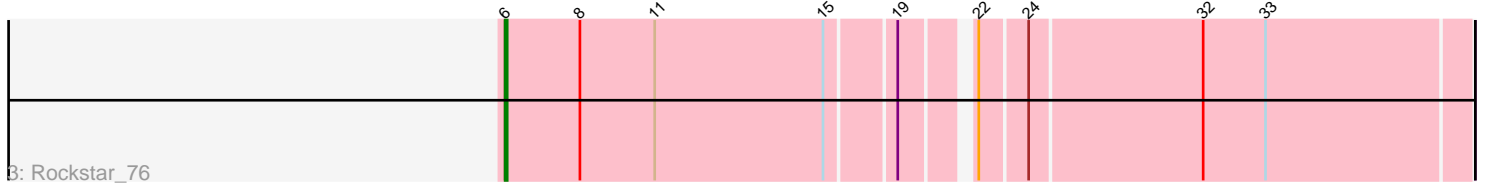
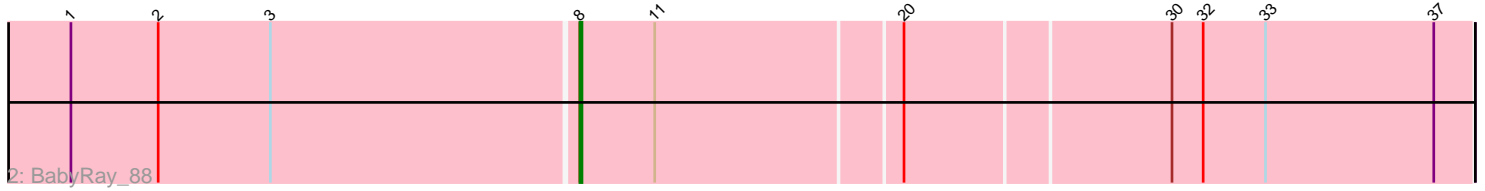
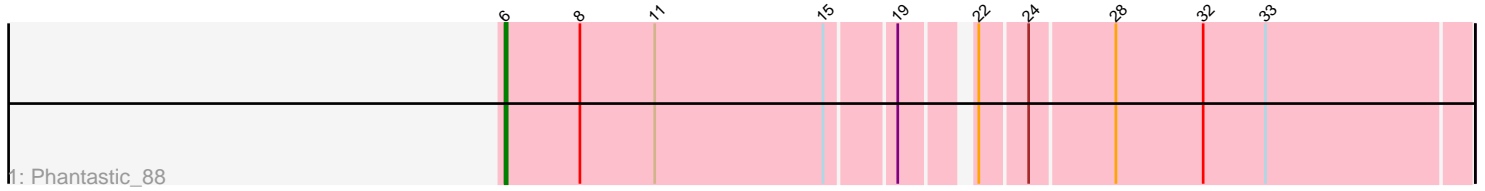


# Pham 193126



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 193126 Report

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

Pham number 193126 has 8 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Phantastic\_88
- Track 2 : BabyRay\_88
- Track 3 : Rockstar\_76
- Track 4 : Isca\_84
- Track 5 : Yvonnetastic\_202
- Track 6 : JonJames\_201
- Track 7 : Cardigan\_207
- Track 8 : Kumao\_116

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

The start number called the most often in the published annotations is 8, it was called in 4 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BabyRay\_88, Cardigan\_207, Isca\_84, JonJames\_201, Yvonnetastic\_202,

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

- Phantastic\_88, Rockstar\_76,

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

- Kumao\_116,

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

Start 6:

- Found in 3 of 8 ( 37.5% ) of genes in pham
- Manual Annotations of this start: 2 of 7
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Phantastic\_88 (A3), Rockstar\_76 (A3),

Start 8:

- Found in 7 of 8 ( 87.5% ) of genes in pham
- Manual Annotations of this start: 4 of 7

- Called 71.4% of time when present
- Phage (with cluster) where this start called: BabyRay\_88 (A3), Cardigan\_207 (DD), Isca\_84 (A3), JonJames\_201 (DD), Yvonnestic\_202 (DD),

Start 9:

- Found in 1 of 8 ( 12.5% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kumao\_116 (singleton),

### **Summary by clusters:**

There are 3 clusters represented in this pham: DD, A3, singleton,

Info for manual annotations of cluster A3:

- Start number 6 was manually annotated 2 times for cluster A3.
- Start number 8 was manually annotated 2 times for cluster A3.

Info for manual annotations of cluster DD:

- Start number 8 was manually annotated 2 times for cluster DD.

### **Gene Information:**

Gene: BabyRay\_88 Start: 48407, Stop: 47991, Start Num: 8

Candidate Starts for BabyRay\_88:

(1, 48647), (2, 48605), (3, 48551), (Start: 8 @48407 has 4 MA's), (11, 48371), (20, 48257), (30, 48134), (32, 48119), (33, 48089), (37, 48008),

Gene: Cardigan\_207 Start: 98477, Stop: 98064, Start Num: 8

Candidate Starts for Cardigan\_207:

(Start: 8 @98477 has 4 MA's), (10, 98456), (13, 98399), (14, 98384), (16, 98360), (17, 98351), (21, 98318), (23, 98273), (28, 98222), (30, 98195), (31, 98189),

Gene: Isca\_84 Start: 47705, Stop: 47304, Start Num: 8

Candidate Starts for Isca\_84:

(Start: 6 @47741 has 2 MA's), (Start: 8 @47705 has 4 MA's), (11, 47669), (15, 47588), (19, 47558), (22, 47531), (24, 47510), (28, 47471), (32, 47429), (33, 47399),

Gene: JonJames\_201 Start: 99038, Stop: 98619, Start Num: 8

Candidate Starts for JonJames\_201:

(Start: 8 @99038 has 4 MA's), (10, 99014), (12, 98984), (14, 98942), (16, 98918), (26, 98801), (27, 98792), (30, 98759), (31, 98753), (34, 98687),

Gene: Kumao\_116 Start: 68785, Stop: 68384, Start Num: 9

Candidate Starts for Kumao\_116:

(4, 68875), (5, 68869), (Start: 9 @68785 has 1 MA's), (11, 68752), (18, 68647), (25, 68572), (28, 68551), (29, 68527), (35, 68413), (36, 68407),

Gene: Phantastic\_88 Start: 47859, Stop: 47422, Start Num: 6

Candidate Starts for Phantastic\_88:

(Start: 6 @47859 has 2 MA's), (Start: 8 @47823 has 4 MA's), (11, 47787), (15, 47706), (19, 47676), (22, 47649), (24, 47628), (28, 47589), (32, 47547), (33, 47517),

Gene: Rockstar\_76 Start: 45549, Stop: 45112, Start Num: 6

Candidate Starts for Rockstar\_76:

(Start: 6 @45549 has 2 MA's), (Start: 8 @45513 has 4 MA's), (11, 45477), (15, 45396), (19, 45366), (22, 45339), (24, 45318), (32, 45237), (33, 45207),

Gene: Yvonnetastic\_202 Start: 96089, Stop: 95670, Start Num: 8

Candidate Starts for Yvonnetastic\_202:

(7, 96095), (Start: 8 @96089 has 4 MA's), (10, 96065), (12, 96035), (14, 95993), (16, 95969), (26, 95852), (27, 95843), (30, 95810), (31, 95804), (34, 95738),