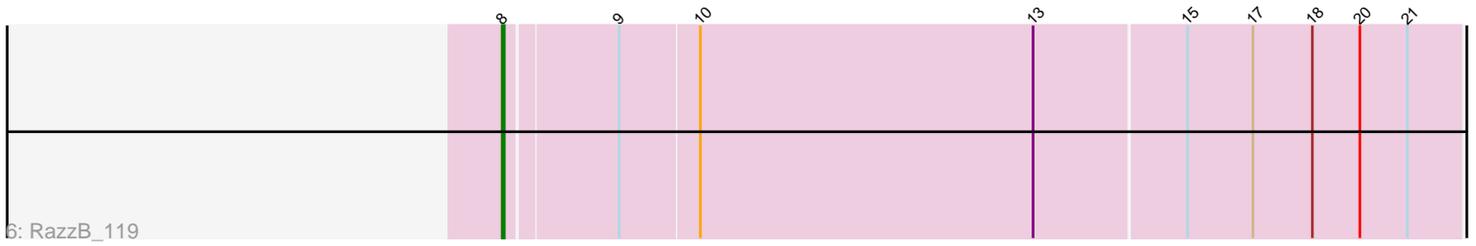
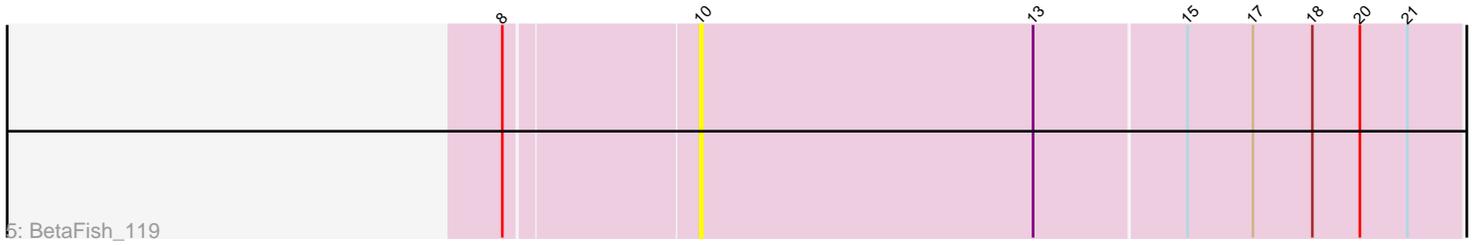
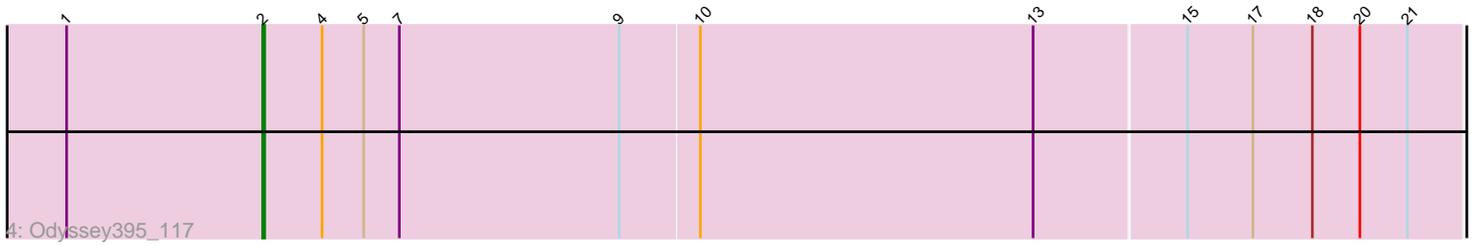
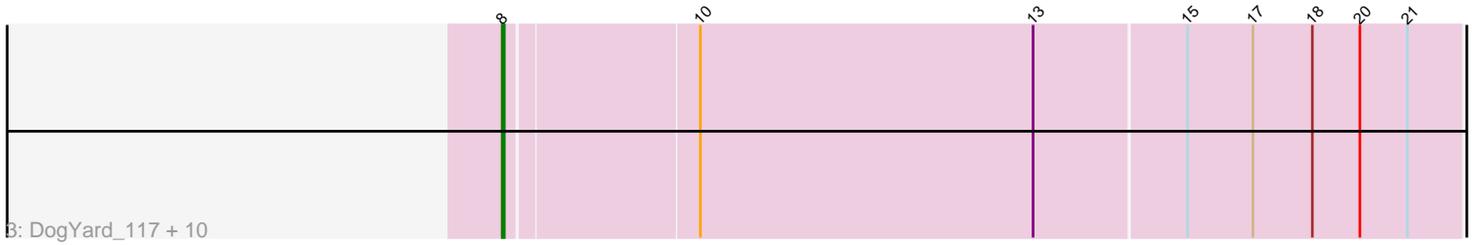
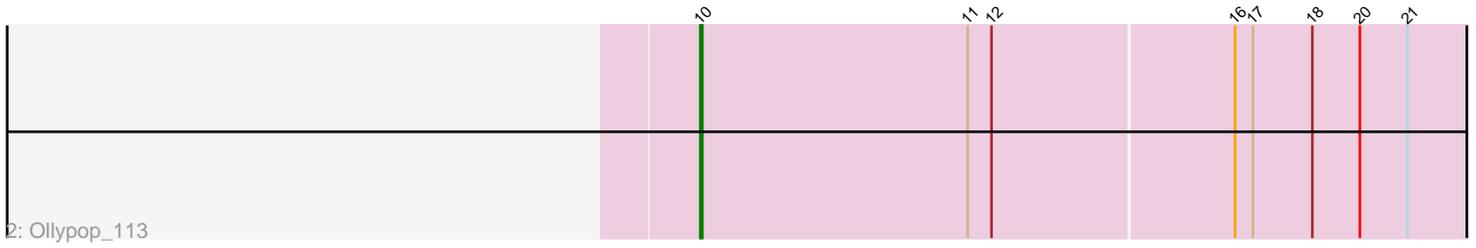
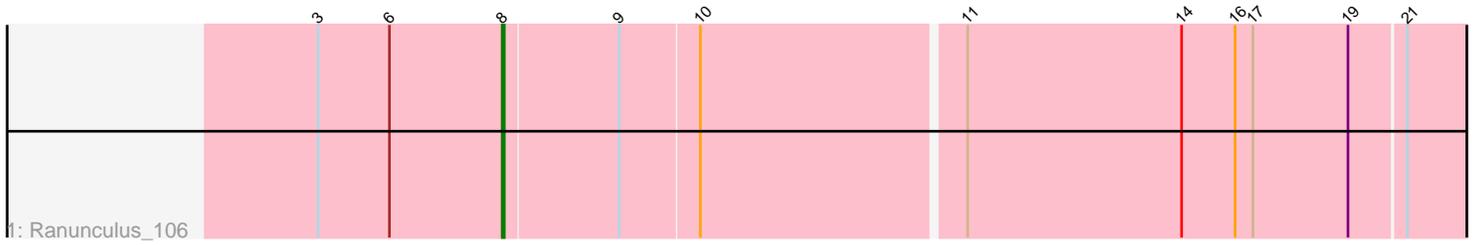


Pham 284272



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 284272 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284272 has 16 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Ranunculus\_106
- Track 2 : Ollypop\_113
- Track 3 : DogYard\_117, NyleyClemson\_121, Hive\_116, Kubulix\_118, Forrestell\_119, Popstraw\_114, PhuzzTulsa\_117, Pureglobe5\_119, Beagle\_123, MellowYellow\_120, Pointis\_114
- Track 4 : Odyssey395\_117
- Track 5 : BetaFish\_119
- Track 6 : RazzB\_119

### ***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 9 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beagle\_123, DogYard\_117, Forrestell\_119, Hive\_116, Kubulix\_118, MellowYellow\_120, NyleyClemson\_121, PhuzzTulsa\_117, Pointis\_114, Popstraw\_114, Pureglobe5\_119, Ranunculus\_106, RazzB\_119,

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

- BetaFish\_119,

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

- Odyssey395\_117, Ollypop\_113,

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

Start 2:

- Found in 1 of 16 ( 6.2% ) 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: Odyssey395\_117 (AP2),

Start 8:

- Found in 14 of 16 ( 87.5% ) of genes in pham
- Manual Annotations of this start: 9 of 11
- Called 92.9% of time when present
- Phage (with cluster) where this start called: Beagle\_123 (AP2), DogYard\_117 (AP2), Forrestell\_119 (AP2), Hive\_116 (AP2), Kubulix\_118 (AP2), MellowYellow\_120 (AP2), NyleyClemson\_121 (AP2), PhuzzTulsa\_117 (AP2), Pointis\_114 (AP2), Popstraw\_114 (AP2), Pureglobe5\_119 (AP2), Ranunculus\_106 (AP), RazzB\_119 (AP2),

Start 10:

- Found in 16 of 16 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 12.5% of time when present
- Phage (with cluster) where this start called: BetaFish\_119 (AP2), Ollypop\_113 (AP2),

### **Summary by clusters:**

There are 2 clusters represented in this pham: AP2, AP,

Info for manual annotations of cluster AP:

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

Info for manual annotations of cluster AP2:

- Start number 2 was manually annotated 1 time for cluster AP2.
- Start number 8 was manually annotated 8 times for cluster AP2.
- Start number 10 was manually annotated 1 time for cluster AP2.

### **Gene Information:**

Gene: Beagle\_123 Start: 68025, Stop: 67552, Start Num: 8

Candidate Starts for Beagle\_123:

(Start: 8 @68025 has 9 MA's), (Start: 10 @67932 has 1 MA's), (13, 67764), (15, 67689), (17, 67656), (18, 67626), (20, 67602), (21, 67578),

Gene: BetaFish\_119 Start: 67604, Stop: 67224, Start Num: 10

Candidate Starts for BetaFish\_119:

(Start: 8 @67697 has 9 MA's), (Start: 10 @67604 has 1 MA's), (13, 67436), (15, 67361), (17, 67328), (18, 67298), (20, 67274), (21, 67250),

Gene: DogYard\_117 Start: 66663, Stop: 66190, Start Num: 8

Candidate Starts for DogYard\_117:

(Start: 8 @66663 has 9 MA's), (Start: 10 @66570 has 1 MA's), (13, 66402), (15, 66327), (17, 66294), (18, 66264), (20, 66240), (21, 66216),

Gene: Forrestell\_119 Start: 66315, Stop: 65842, Start Num: 8

Candidate Starts for Forrestell\_119:

(Start: 8 @66315 has 9 MA's), (Start: 10 @66222 has 1 MA's), (13, 66054), (15, 65979), (17, 65946), (18, 65916), (20, 65892), (21, 65868),

Gene: Hive\_116 Start: 66644, Stop: 66171, Start Num: 8

Candidate Starts for Hive\_116:

(Start: 8 @66644 has 9 MA's), (Start: 10 @66551 has 1 MA's), (13, 66383), (15, 66308), (17, 66275), (18, 66245), (20, 66221), (21, 66197),

Gene: Kubulix\_118 Start: 66353, Stop: 65880, Start Num: 8

Candidate Starts for Kubulix\_118:

(Start: 8 @66353 has 9 MA's), (Start: 10 @66260 has 1 MA's), (13, 66092), (15, 66017), (17, 65984), (18, 65954), (20, 65930), (21, 65906),

Gene: MellowYellow\_120 Start: 67698, Stop: 67225, Start Num: 8

Candidate Starts for MellowYellow\_120:

(Start: 8 @67698 has 9 MA's), (Start: 10 @67605 has 1 MA's), (13, 67437), (15, 67362), (17, 67329), (18, 67299), (20, 67275), (21, 67251),

Gene: NyleyClemson\_121 Start: 67328, Stop: 66855, Start Num: 8

Candidate Starts for NyleyClemson\_121:

(Start: 8 @67328 has 9 MA's), (Start: 10 @67235 has 1 MA's), (13, 67067), (15, 66992), (17, 66959), (18, 66929), (20, 66905), (21, 66881),

Gene: Odyssey395\_117 Start: 66479, Stop: 65880, Start Num: 2

Candidate Starts for Odyssey395\_117:

(1, 66578), (Start: 2 @66479 has 1 MA's), (4, 66449), (5, 66428), (7, 66410), (9, 66299), (Start: 10 @66260 has 1 MA's), (13, 66092), (15, 66017), (17, 65984), (18, 65954), (20, 65930), (21, 65906),

Gene: Ollypop\_113 Start: 67774, Stop: 67349, Start Num: 10

Candidate Starts for Ollypop\_113:

(Start: 10 @67774 has 1 MA's), (11, 67639), (12, 67627), (16, 67507), (17, 67498), (18, 67468), (20, 67444), (21, 67420),

Gene: PhuzzTulsa\_117 Start: 66974, Stop: 66501, Start Num: 8

Candidate Starts for PhuzzTulsa\_117:

(Start: 8 @66974 has 9 MA's), (Start: 10 @66881 has 1 MA's), (13, 66713), (15, 66638), (17, 66605), (18, 66575), (20, 66551), (21, 66527),

Gene: Pointis\_114 Start: 66251, Stop: 65778, Start Num: 8

Candidate Starts for Pointis\_114:

(Start: 8 @66251 has 9 MA's), (Start: 10 @66158 has 1 MA's), (13, 65990), (15, 65915), (17, 65882), (18, 65852), (20, 65828), (21, 65804),

Gene: Popstraw\_114 Start: 66589, Stop: 66116, Start Num: 8

Candidate Starts for Popstraw\_114:

(Start: 8 @66589 has 9 MA's), (Start: 10 @66496 has 1 MA's), (13, 66328), (15, 66253), (17, 66220), (18, 66190), (20, 66166), (21, 66142),

Gene: Pureglobe5\_119 Start: 67301, Stop: 66828, Start Num: 8

Candidate Starts for Pureglobe5\_119:

(Start: 8 @67301 has 9 MA's), (Start: 10 @67208 has 1 MA's), (13, 67040), (15, 66965), (17, 66932), (18, 66902), (20, 66878), (21, 66854),

Gene: Ranunculus\_106 Start: 67292, Stop: 66819, Start Num: 8

Candidate Starts for Ranunculus\_106:

(3, 67385), (6, 67349), (Start: 8 @67292 has 9 MA's), (9, 67235), (Start: 10 @67196 has 1 MA's), (11, 67067), (14, 66959), (16, 66932), (17, 66923), (19, 66875), (21, 66848),

Gene: RazzB\_119 Start: 66904, Stop: 66431, Start Num: 8

Candidate Starts for RazzB\_119:

(Start: 8 @66904 has 9 MA's), (9, 66850), (Start: 10 @66811 has 1 MA's), (13, 66643), (15, 66568),  
(17, 66535), (18, 66505), (20, 66481), (21, 66457),