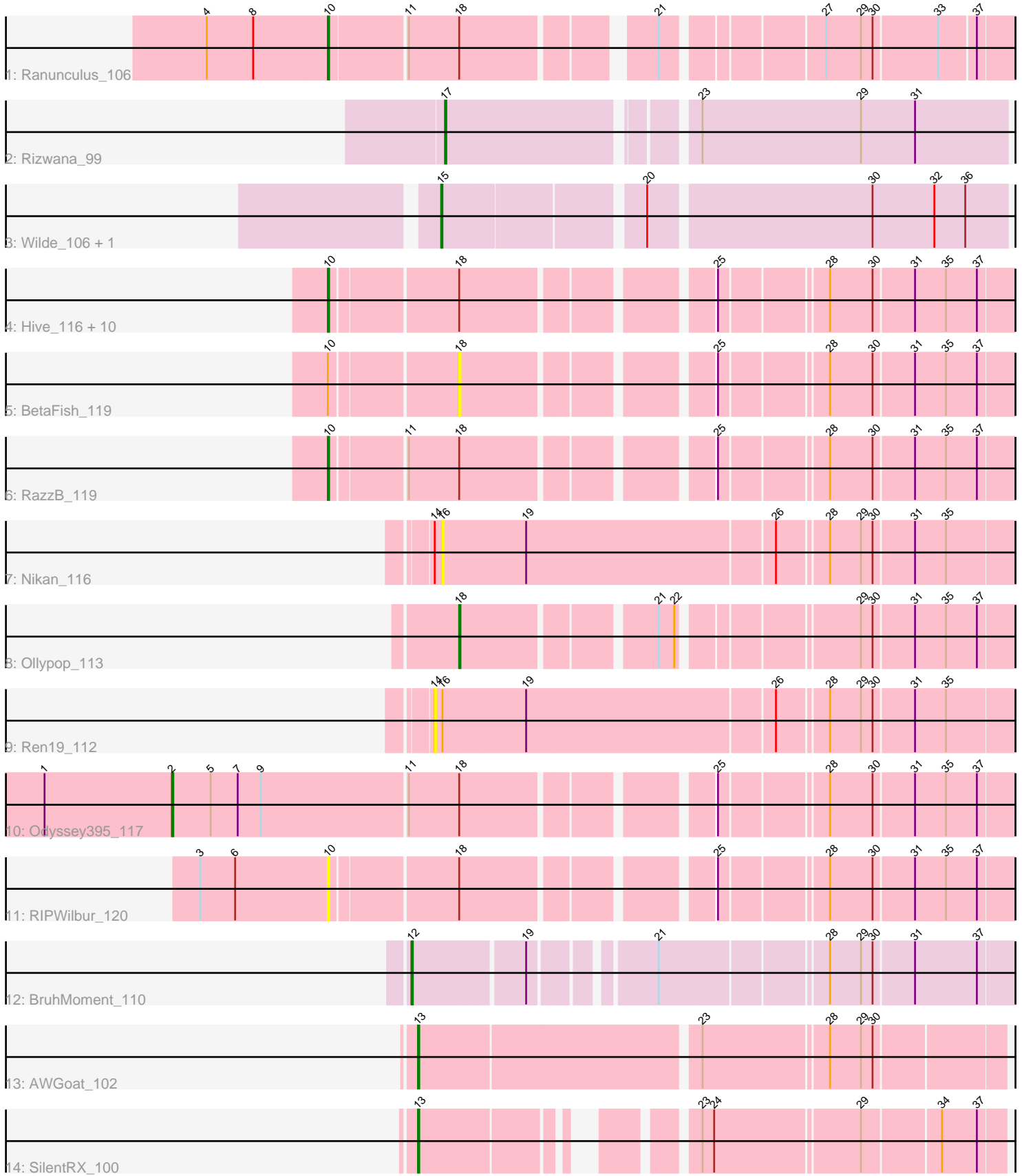


Pham 305273



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 305273 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305273 has 25 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Ranunculus\_106
- Track 2 : Rizwana\_99
- Track 3 : Wilde\_106, Tank\_103
- Track 4 : Hive\_116, MellowYellow\_120, Popstraw\_114, Kubulix\_118, NyleyClemson\_118, Forrestell\_119, DogYard\_117, Pureglobe5\_119, PhuzzTulsa\_117, Pointis\_114, Beagle\_123
- Track 5 : BetaFish\_119
- Track 6 : RazzB\_119
- Track 7 : Nikan\_116
- Track 8 : Ollypop\_113
- Track 9 : Ren19\_112
- Track 10 : Odyssey395\_117
- Track 11 : RIPWilbur\_120
- Track 12 : BruhMoment\_110
- Track 13 : AWGoat\_102
- Track 14 : SilentRX\_100

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

The start number called the most often in the published annotations is 10, it was called in 10 of the 18 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\_118, PhuzzTulsa\_117, Pointis\_114, Popstraw\_114, Pureglobe5\_119, RIPWilbur\_120, 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:

- AWGoat\_102, BruhMoment\_110, Nikan\_116, Odyssey395\_117, Ollypop\_113, Ren19\_112, Rizwana\_99, SilentRX\_100, Tank\_103, Wilde\_106,

## Summary by start number:

### Start 2:

- Found in 1 of 25 ( 4.0% ) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Odyssey395\_117 (AP2),

### Start 10:

- Found in 15 of 25 ( 60.0% ) of genes in pham
- Manual Annotations of this start: 10 of 18
- Called 93.3% 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\_118 (AP2), PhuzzTulsa\_117 (AP2), Pointis\_114 (AP2), Popstraw\_114 (AP2), Pureglobe5\_119 (AP2), RIPWilbur\_120 (AP2), Ranunculus\_106 (AP), RazzB\_119 (AP2),

### Start 12:

- Found in 1 of 25 ( 4.0% ) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BruhMoment\_110 (AP3),

### Start 13:

- Found in 2 of 25 ( 8.0% ) of genes in pham
- Manual Annotations of this start: 2 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AWGoat\_102 (AP4), SilentRX\_100 (AP4),

### Start 14:

- Found in 2 of 25 ( 8.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Ren19\_112 (AP2),

### Start 15:

- Found in 2 of 25 ( 8.0% ) of genes in pham
- Manual Annotations of this start: 2 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tank\_103 (AP1), Wilde\_106 (AP1),

### Start 16:

- Found in 2 of 25 ( 8.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Nikan\_116 (AP2),

### Start 17:

- Found in 1 of 25 ( 4.0% ) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Rizwana\_99 (AP1),

Start 18:

- Found in 17 of 25 ( 68.0% ) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 11.8% of time when present
- Phage (with cluster) where this start called: BetaFish\_119 (AP2), Ollypop\_113 (AP2),

### **Summary by clusters:**

There are 5 clusters represented in this pham: AP2, AP, AP1, AP4, AP3,

Info for manual annotations of cluster AP:

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

Info for manual annotations of cluster AP1:

- Start number 15 was manually annotated 2 times for cluster AP1.
- Start number 17 was manually annotated 1 time for cluster AP1.

Info for manual annotations of cluster AP2:

- Start number 2 was manually annotated 1 time for cluster AP2.
- Start number 10 was manually annotated 9 times for cluster AP2.
- Start number 18 was manually annotated 1 time for cluster AP2.

Info for manual annotations of cluster AP3:

- Start number 12 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AP4:

- Start number 13 was manually annotated 2 times for cluster AP4.

### **Gene Information:**

Gene: AWGoat\_102 Start: 63771, Stop: 63343, Start Num: 13

Candidate Starts for AWGoat\_102:

(Start: 13 @63771 has 2 MA's), (23, 63564), (28, 63471), (29, 63447), (30, 63438),

Gene: Beagle\_123 Start: 68025, Stop: 67552, Start Num: 10

Candidate Starts for Beagle\_123:

(Start: 10 @68025 has 10 MA's), (Start: 18 @67932 has 1 MA's), (25, 67764), (28, 67689), (30, 67656), (31, 67626), (35, 67602), (37, 67578),

Gene: BetaFish\_119 Start: 67604, Stop: 67224, Start Num: 18

Candidate Starts for BetaFish\_119:

(Start: 10 @67697 has 10 MA's), (Start: 18 @67604 has 1 MA's), (25, 67436), (28, 67361), (30, 67328), (31, 67298), (35, 67274), (37, 67250),

Gene: BruhMoment\_110 Start: 65254, Stop: 64826, Start Num: 12

Candidate Starts for BruhMoment\_110:

(Start: 12 @65254 has 1 MA's), (19, 65173), (21, 65092), (28, 64972), (29, 64948), (30, 64939), (31, 64909), (37, 64861),

Gene: DogYard\_117 Start: 66663, Stop: 66190, Start Num: 10

Candidate Starts for DogYard\_117:

(Start: 10 @66663 has 10 MA's), (Start: 18 @66570 has 1 MA's), (25, 66402), (28, 66327), (30, 66294), (31, 66264), (35, 66240), (37, 66216),

Gene: Forrestell\_119 Start: 66315, Stop: 65842, Start Num: 10

Candidate Starts for Forrestell\_119:

(Start: 10 @66315 has 10 MA's), (Start: 18 @66222 has 1 MA's), (25, 66054), (28, 65979), (30, 65946), (31, 65916), (35, 65892), (37, 65868),

Gene: Hive\_116 Start: 66644, Stop: 66171, Start Num: 10

Candidate Starts for Hive\_116:

(Start: 10 @66644 has 10 MA's), (Start: 18 @66551 has 1 MA's), (25, 66383), (28, 66308), (30, 66275), (31, 66245), (35, 66221), (37, 66197),

Gene: Kubulix\_118 Start: 66353, Stop: 65880, Start Num: 10

Candidate Starts for Kubulix\_118:

(Start: 10 @66353 has 10 MA's), (Start: 18 @66260 has 1 MA's), (25, 66092), (28, 66017), (30, 65984), (31, 65954), (35, 65930), (37, 65906),

Gene: MellowYellow\_120 Start: 67698, Stop: 67225, Start Num: 10

Candidate Starts for MellowYellow\_120:

(Start: 10 @67698 has 10 MA's), (Start: 18 @67605 has 1 MA's), (25, 67437), (28, 67362), (30, 67329), (31, 67299), (35, 67275), (37, 67251),

Gene: Nikan\_116 Start: 66972, Stop: 66541, Start Num: 16

Candidate Starts for Nikan\_116:

(14, 66978), (16, 66972), (19, 66909), (26, 66723), (28, 66687), (29, 66663), (30, 66654), (31, 66624), (35, 66600),

Gene: NyleyClemson\_118 Start: 67328, Stop: 66855, Start Num: 10

Candidate Starts for NyleyClemson\_118:

(Start: 10 @67328 has 10 MA's), (Start: 18 @67235 has 1 MA's), (25, 67067), (28, 66992), (30, 66959), (31, 66929), (35, 66905), (37, 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), (5, 66449), (7, 66428), (9, 66410), (11, 66299), (Start: 18 @66260 has 1 MA's), (25, 66092), (28, 66017), (30, 65984), (31, 65954), (35, 65930), (37, 65906),

Gene: Ollypop\_113 Start: 67774, Stop: 67349, Start Num: 18

Candidate Starts for Ollypop\_113:

(Start: 18 @67774 has 1 MA's), (21, 67639), (22, 67627), (29, 67507), (30, 67498), (31, 67468), (35, 67444), (37, 67420),

Gene: PhuzzTulsa\_117 Start: 66974, Stop: 66501, Start Num: 10

Candidate Starts for PhuzzTulsa\_117:

(Start: 10 @66974 has 10 MA's), (Start: 18 @66881 has 1 MA's), (25, 66713), (28, 66638), (30, 66605), (31, 66575), (35, 66551), (37, 66527),

Gene: Pointis\_114 Start: 66251, Stop: 65778, Start Num: 10

Candidate Starts for Pointis\_114:

(Start: 10 @66251 has 10 MA's), (Start: 18 @66158 has 1 MA's), (25, 65990), (28, 65915), (30, 65882), (31, 65852), (35, 65828), (37, 65804),

Gene: Popstraw\_114 Start: 66589, Stop: 66116, Start Num: 10

Candidate Starts for Popstraw\_114:

(Start: 10 @66589 has 10 MA's), (Start: 18 @66496 has 1 MA's), (25, 66328), (28, 66253), (30, 66220), (31, 66190), (35, 66166), (37, 66142),

Gene: Pureglobe5\_119 Start: 67301, Stop: 66828, Start Num: 10

Candidate Starts for Pureglobe5\_119:

(Start: 10 @67301 has 10 MA's), (Start: 18 @67208 has 1 MA's), (25, 67040), (28, 66965), (30, 66932), (31, 66902), (35, 66878), (37, 66854),

Gene: RIPWilbur\_120 Start: 66971, Stop: 66498, Start Num: 10

Candidate Starts for RIPWilbur\_120:

(3, 67070), (6, 67043), (Start: 10 @66971 has 10 MA's), (Start: 18 @66878 has 1 MA's), (25, 66710), (28, 66635), (30, 66602), (31, 66572), (35, 66548), (37, 66524),

Gene: Ranunculus\_106 Start: 67292, Stop: 66819, Start Num: 10

Candidate Starts for Ranunculus\_106:

(4, 67385), (8, 67349), (Start: 10 @67292 has 10 MA's), (11, 67235), (Start: 18 @67196 has 1 MA's), (21, 67067), (27, 66959), (29, 66932), (30, 66923), (33, 66875), (37, 66848),

Gene: RazzB\_119 Start: 66904, Stop: 66431, Start Num: 10

Candidate Starts for RazzB\_119:

(Start: 10 @66904 has 10 MA's), (11, 66850), (Start: 18 @66811 has 1 MA's), (25, 66643), (28, 66568), (30, 66535), (31, 66505), (35, 66481), (37, 66457),

Gene: Ren19\_112 Start: 66404, Stop: 65967, Start Num: 14

Candidate Starts for Ren19\_112:

(14, 66404), (16, 66398), (19, 66335), (26, 66149), (28, 66113), (29, 66089), (30, 66080), (31, 66050), (35, 66026),

Gene: Rizwana\_99 Start: 63693, Stop: 63283, Start Num: 17

Candidate Starts for Rizwana\_99:

(Start: 17 @63693 has 1 MA's), (23, 63519), (29, 63396), (31, 63354),

Gene: SilentRX\_100 Start: 63639, Stop: 63253, Start Num: 13

Candidate Starts for SilentRX\_100:

(Start: 13 @63639 has 2 MA's), (23, 63474), (24, 63465), (29, 63357), (34, 63300), (37, 63273),

Gene: Tank\_103 Start: 65602, Stop: 65189, Start Num: 15

Candidate Starts for Tank\_103:

(Start: 15 @65602 has 2 MA's), (20, 65458), (30, 65293), (32, 65245), (36, 65221),

Gene: Wilde\_106 Start: 66120, Stop: 65707, Start Num: 15

Candidate Starts for Wilde\_106:

(Start: 15 @66120 has 2 MA's), (20, 65976), (30, 65811), (32, 65763), (36, 65739),