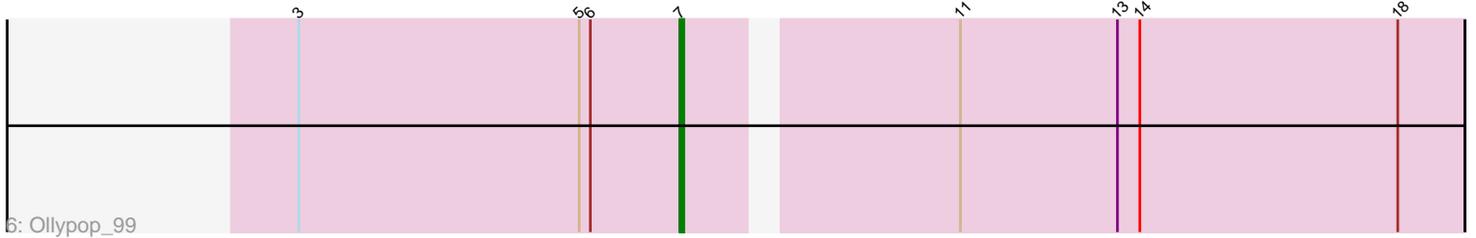
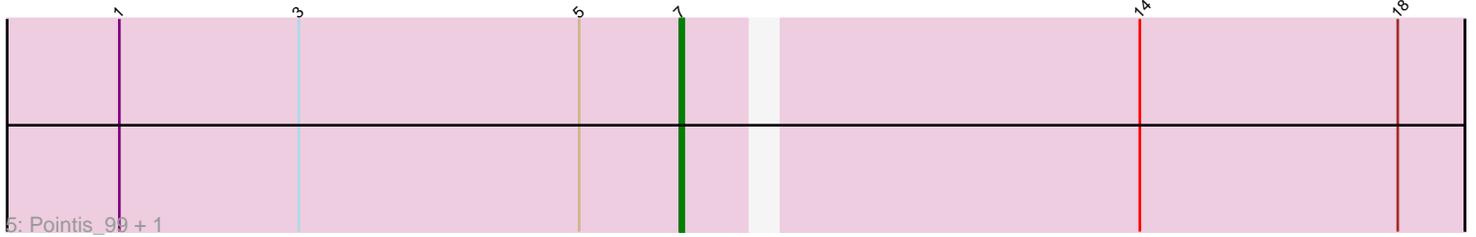
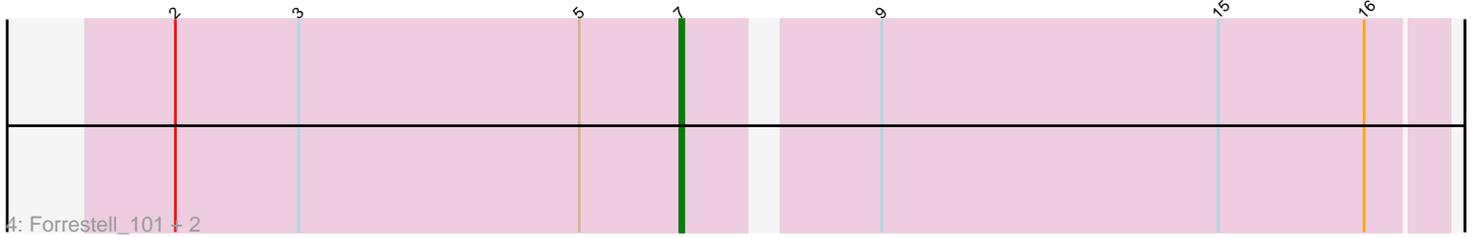
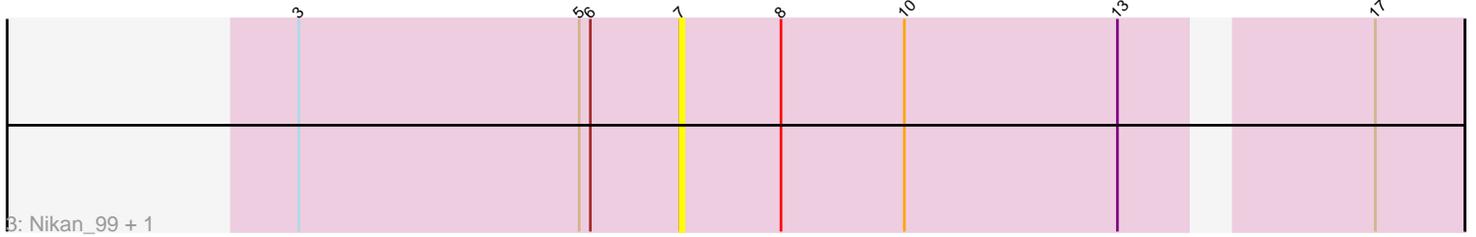
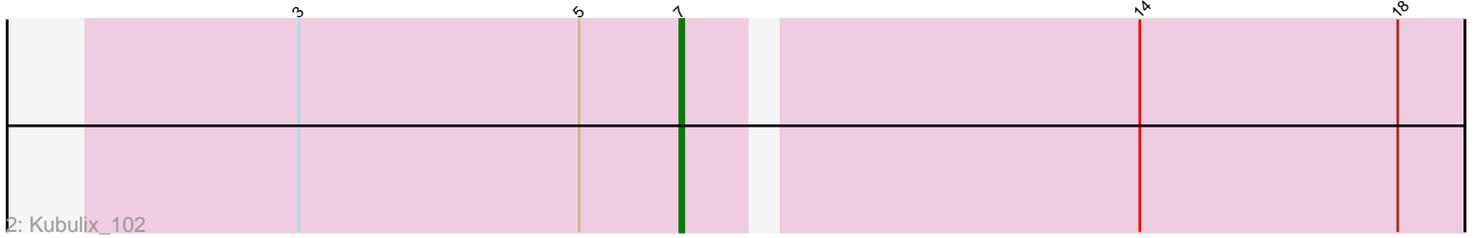
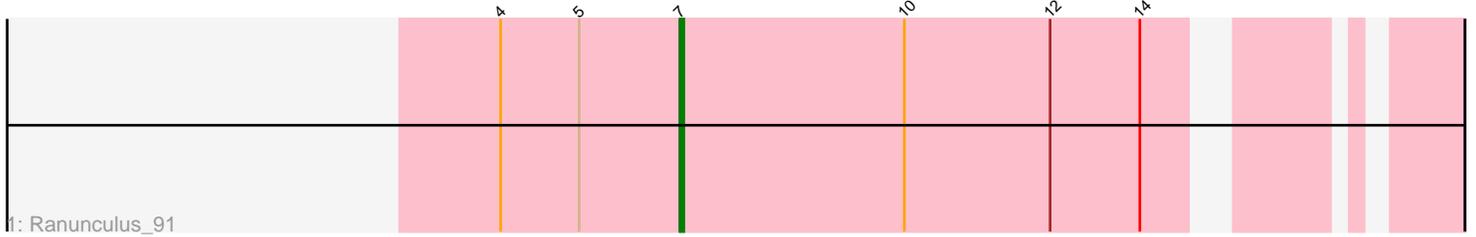


Pham 284416



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 284416 Report

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

Pham number 284416 has 10 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Ranunculus\_91
- Track 2 : Kubulix\_102
- Track 3 : Nikan\_99, Ren19\_94
- Track 4 : Forrestell\_101, NyleyClemson\_103, MellowYellow\_103
- Track 5 : Pointis\_99, Beagle\_104
- Track 6 : Ollypop\_99

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

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

Genes that call this "Most Annotated" start:

- Beagle\_104, Forrestell\_101, Kubulix\_102, MellowYellow\_103, Nikan\_99, NyleyClemson\_103, Ollypop\_99, Pointis\_99, Ranunculus\_91, Ren19\_94,

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

- 

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

- 

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

Start 7:

- Found in 10 of 10 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 7 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beagle\_104 (AP2), Forrestell\_101 (AP2), Kubulix\_102 (AP2), MellowYellow\_103 (AP2), Nikan\_99 (AP2), NyleyClemson\_103 (AP2), Ollypop\_99 (AP2), Pointis\_99 (AP2), Ranunculus\_91 (AP), Ren19\_94 (AP2),

### **Summary by clusters:**

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

Info for manual annotations of cluster AP:

•Start number 7 was manually annotated 1 time for cluster AP.

Info for manual annotations of cluster AP2:

•Start number 7 was manually annotated 6 times for cluster AP2.

**Gene Information:**

Gene: Beagle\_104 Start: 61388, Stop: 61188, Start Num: 7

Candidate Starts for Beagle\_104:

(1, 61538), (3, 61490), (5, 61415), (Start: 7 @61388 has 7 MA's), (14, 61274), (18, 61205),

Gene: Forrestell\_101 Start: 59805, Stop: 59611, Start Num: 7

Candidate Starts for Forrestell\_101:

(2, 59940), (3, 59907), (5, 59832), (Start: 7 @59805 has 7 MA's), (9, 59760), (15, 59670), (16, 59631),

Gene: Kubulix\_102 Start: 60763, Stop: 60563, Start Num: 7

Candidate Starts for Kubulix\_102:

(3, 60865), (5, 60790), (Start: 7 @60763 has 7 MA's), (14, 60649), (18, 60580),

Gene: MellowYellow\_103 Start: 61007, Stop: 60813, Start Num: 7

Candidate Starts for MellowYellow\_103:

(2, 61142), (3, 61109), (5, 61034), (Start: 7 @61007 has 7 MA's), (9, 60962), (15, 60872), (16, 60833),

Gene: Nikan\_99 Start: 60806, Stop: 60609, Start Num: 7

Candidate Starts for Nikan\_99:

(3, 60908), (5, 60833), (6, 60830), (Start: 7 @60806 has 7 MA's), (8, 60779), (10, 60746), (13, 60689), (17, 60632),

Gene: NyleyClemson\_103 Start: 60637, Stop: 60443, Start Num: 7

Candidate Starts for NyleyClemson\_103:

(2, 60772), (3, 60739), (5, 60664), (Start: 7 @60637 has 7 MA's), (9, 60592), (15, 60502), (16, 60463),

Gene: Ollypop\_99 Start: 62150, Stop: 61950, Start Num: 7

Candidate Starts for Ollypop\_99:

(3, 62252), (5, 62177), (6, 62174), (Start: 7 @62150 has 7 MA's), (11, 62084), (13, 62042), (14, 62036), (18, 61967),

Gene: Pointis\_99 Start: 60679, Stop: 60479, Start Num: 7

Candidate Starts for Pointis\_99:

(1, 60829), (3, 60781), (5, 60706), (Start: 7 @60679 has 7 MA's), (14, 60565), (18, 60496),

Gene: Ranunculus\_91 Start: 61637, Stop: 61452, Start Num: 7

Candidate Starts for Ranunculus\_91:

(4, 61685), (5, 61664), (Start: 7 @61637 has 7 MA's), (10, 61577), (12, 61538), (14, 61514),

Gene: Ren19\_94 Start: 59831, Stop: 59634, Start Num: 7

Candidate Starts for Ren19\_94:

(3, 59933), (5, 59858), (6, 59855), (Start: 7 @59831 has 7 MA's), (8, 59804), (10, 59771), (13, 59714),  
(17, 59657),