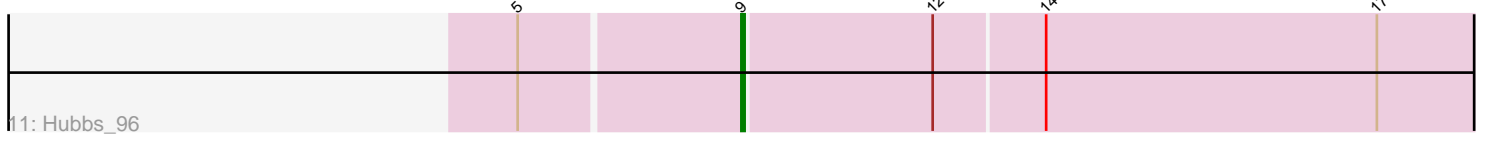
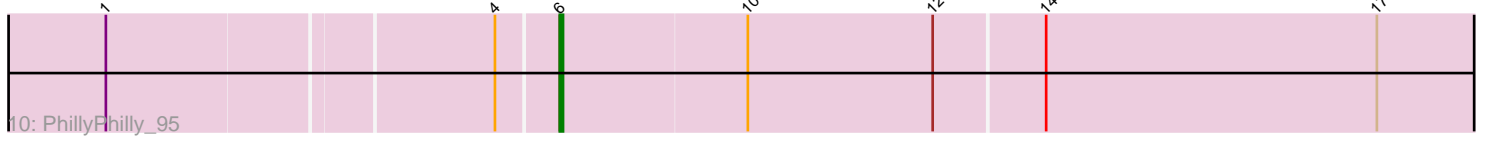
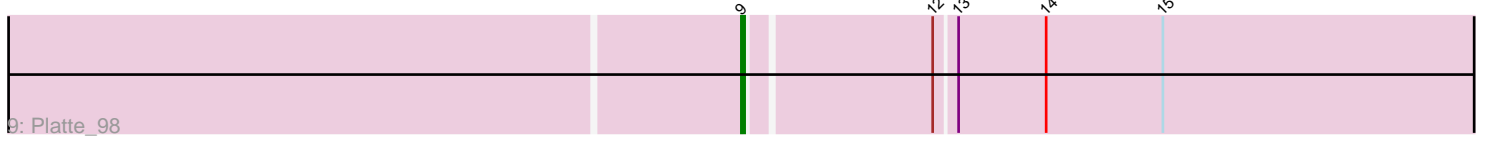
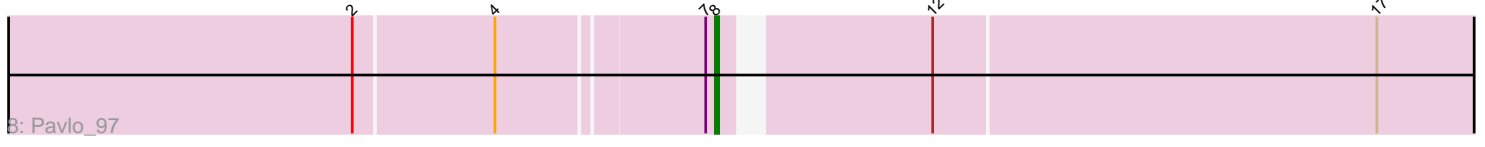
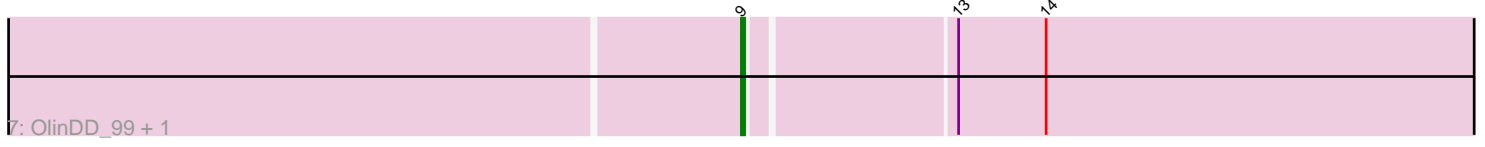
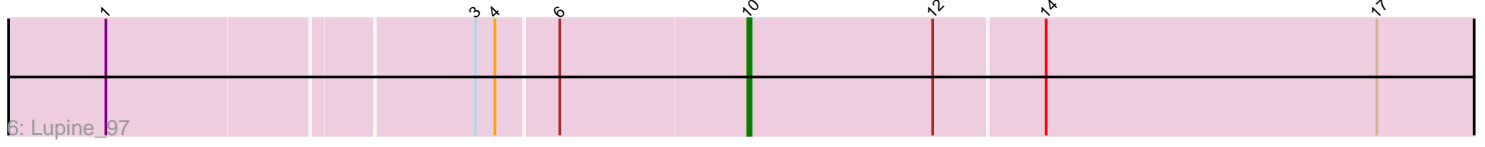
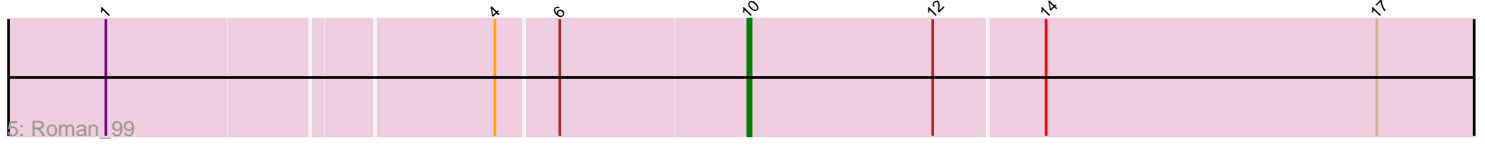
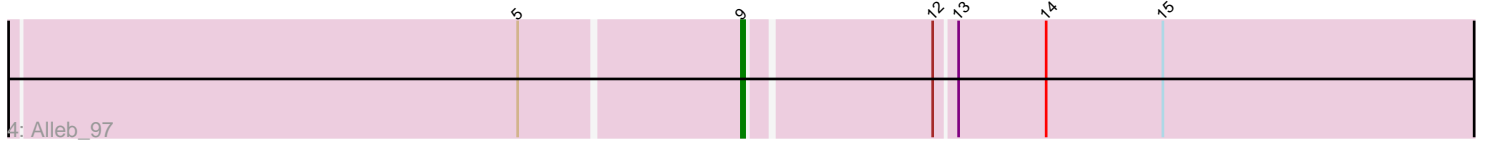
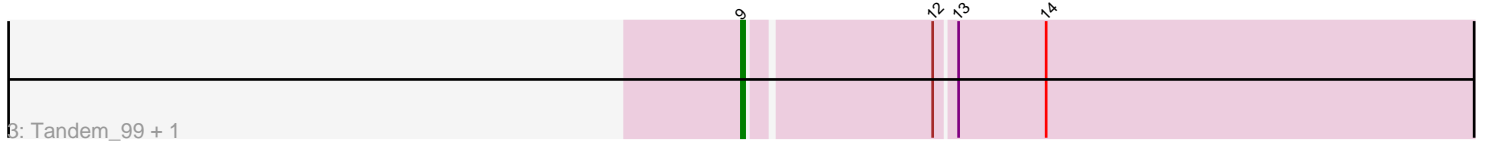
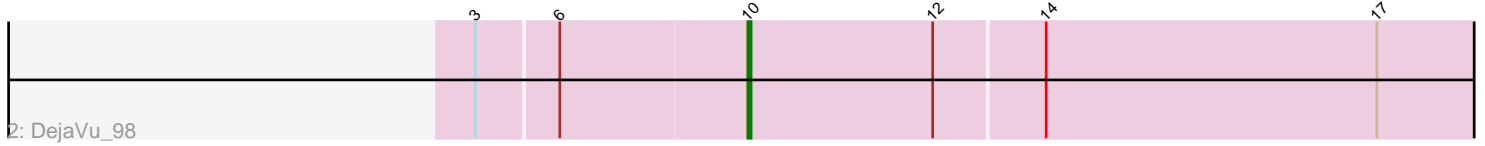
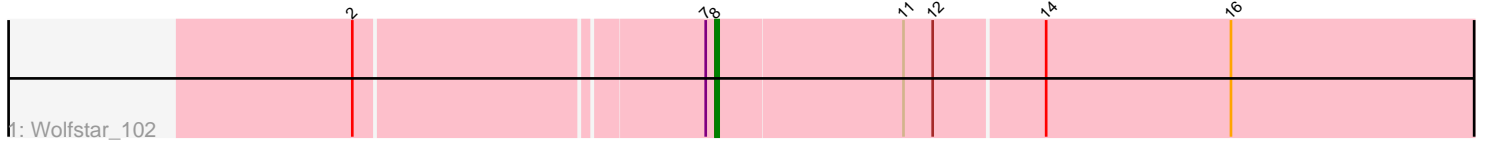


# Pham 194474



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 194474 Report

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

Pham number 194474 has 13 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Wolfstar\_102
- Track 2 : DejaVu\_98
- Track 3 : Tandem\_99, Hortus1\_99
- Track 4 : Alleb\_97
- Track 5 : Roman\_99
- Track 6 : Lupine\_97
- Track 7 : OlinDD\_99, Pioneer3\_99
- Track 8 : Pavlo\_97
- Track 9 : Platte\_98
- Track 10 : PhillyPhilly\_95
- Track 11 : Hubbs\_96

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

The start number called the most often in the published annotations is 9, it was called in 7 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alleb\_97, Hortus1\_99, Hubbs\_96, OlinDD\_99, Pioneer3\_99, Platte\_98, Tandem\_99,

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

- 

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

- DejaVu\_98, Lupine\_97, Pavlo\_97, PhillyPhilly\_95, Roman\_99, Wolfstar\_102,

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

Start 6:

- Found in 4 of 13 ( 30.8% ) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 25.0% of time when present
- Phage (with cluster) where this start called: PhillyPhilly\_95 (ED1),

Start 8:

- Found in 2 of 13 ( 15.4% ) of genes in pham
- Manual Annotations of this start: 2 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pavlo\_97 (ED1), Wolfstar\_102 (ED),

Start 9:

- Found in 7 of 13 ( 53.8% ) of genes in pham
- Manual Annotations of this start: 7 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alleb\_97 (ED1), Hortus1\_99 (ED1), Hubbs\_96 (ED1), OlinDD\_99 (ED1), Pioneer3\_99 (ED1), Platte\_98 (ED1), Tandem\_99 (ED1),

Start 10:

- Found in 4 of 13 ( 30.8% ) of genes in pham
- Manual Annotations of this start: 3 of 13
- Called 75.0% of time when present
- Phage (with cluster) where this start called: DejaVu\_98 (ED1), Lupine\_97 (ED1), Roman\_99 (ED1),

**Summary by clusters:**

There are 2 clusters represented in this pham: ED, ED1,

Info for manual annotations of cluster ED:

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

Info for manual annotations of cluster ED1:

- Start number 6 was manually annotated 1 time for cluster ED1.
- Start number 8 was manually annotated 1 time for cluster ED1.
- Start number 9 was manually annotated 7 times for cluster ED1.
- Start number 10 was manually annotated 3 times for cluster ED1.

**Gene Information:**

Gene: Alleb\_97 Start: 54954, Stop: 54715, Start Num: 9

Candidate Starts for Alleb\_97:

(5, 55020), (Start: 9 @54954 has 7 MA's), (12, 54900), (13, 54894), (14, 54867), (15, 54831),

Gene: DejaVu\_98 Start: 54117, Stop: 53875, Start Num: 10

Candidate Starts for DejaVu\_98:

(3, 54198), (Start: 6 @54174 has 1 MA's), (Start: 10 @54117 has 3 MA's), (12, 54060), (14, 54027), (17, 53925),

Gene: Hortus1\_99 Start: 55499, Stop: 55260, Start Num: 9

Candidate Starts for Hortus1\_99:

(Start: 9 @55499 has 7 MA's), (12, 55445), (13, 55439), (14, 55412),

Gene: Hubbs\_96 Start: 54163, Stop: 53921, Start Num: 9

Candidate Starts for Hubbs\_96:

(5, 54229), (Start: 9 @54163 has 7 MA's), (12, 54106), (14, 54073), (17, 53971),

Gene: Lupine\_97 Start: 54176, Stop: 53934, Start Num: 10

Candidate Starts for Lupine\_97:

(1, 54365), (3, 54257), (4, 54251), (Start: 6 @54233 has 1 MA's), (Start: 10 @54176 has 3 MA's), (12, 54119), (14, 54086), (17, 53984),

Gene: OlinDD\_99 Start: 55504, Stop: 55265, Start Num: 9

Candidate Starts for OlinDD\_99:

(Start: 9 @55504 has 7 MA's), (13, 55444), (14, 55417),

Gene: Pavlo\_97 Start: 54312, Stop: 54070, Start Num: 8

Candidate Starts for Pavlo\_97:

(2, 54417), (4, 54375), (7, 54315), (Start: 8 @54312 has 2 MA's), (12, 54255), (17, 54120),

Gene: PhillyPhilly\_95 Start: 53834, Stop: 53535, Start Num: 6

Candidate Starts for PhillyPhilly\_95:

(1, 53966), (4, 53852), (Start: 6 @53834 has 1 MA's), (Start: 10 @53777 has 3 MA's), (12, 53720), (14, 53687), (17, 53585),

Gene: Pioneer3\_99 Start: 55302, Stop: 55063, Start Num: 9

Candidate Starts for Pioneer3\_99:

(Start: 9 @55302 has 7 MA's), (13, 55242), (14, 55215),

Gene: Platte\_98 Start: 55101, Stop: 54862, Start Num: 9

Candidate Starts for Platte\_98:

(Start: 9 @55101 has 7 MA's), (12, 55047), (13, 55041), (14, 55014), (15, 54978),

Gene: Roman\_99 Start: 54828, Stop: 54586, Start Num: 10

Candidate Starts for Roman\_99:

(1, 55017), (4, 54903), (Start: 6 @54885 has 1 MA's), (Start: 10 @54828 has 3 MA's), (12, 54771), (14, 54738), (17, 54636),

Gene: Tandem\_99 Start: 55382, Stop: 55143, Start Num: 9

Candidate Starts for Tandem\_99:

(Start: 9 @55382 has 7 MA's), (12, 55328), (13, 55322), (14, 55295),

Gene: Wolfstar\_102 Start: 56231, Stop: 55980, Start Num: 8

Candidate Starts for Wolfstar\_102:

(2, 56336), (7, 56234), (Start: 8 @56231 has 2 MA's), (11, 56174), (12, 56165), (14, 56132), (16, 56075),