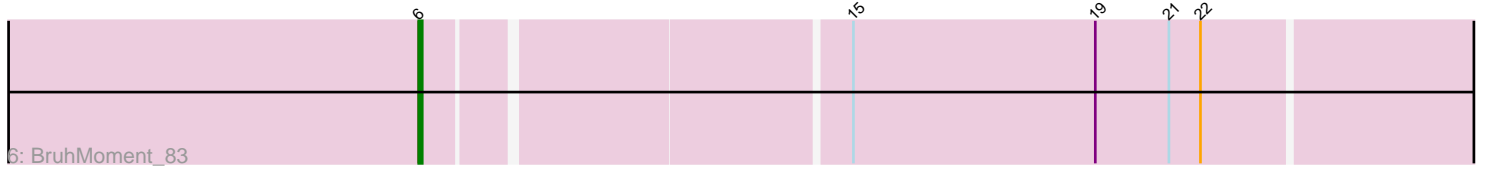
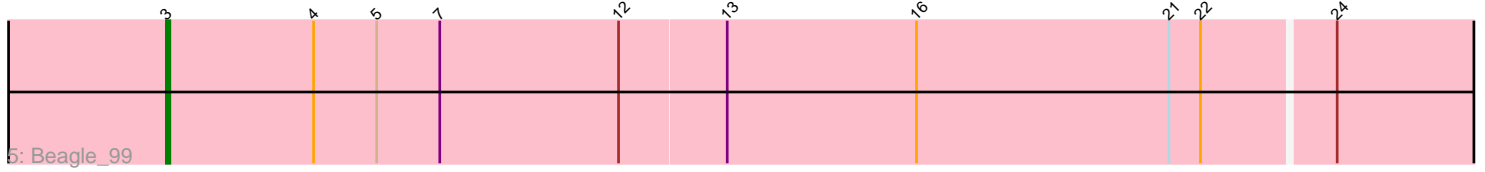
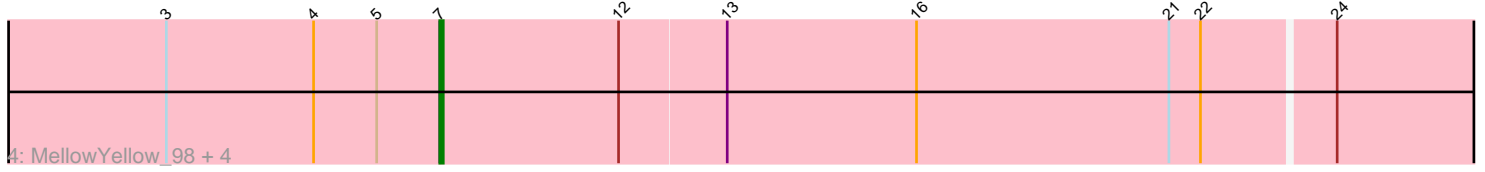
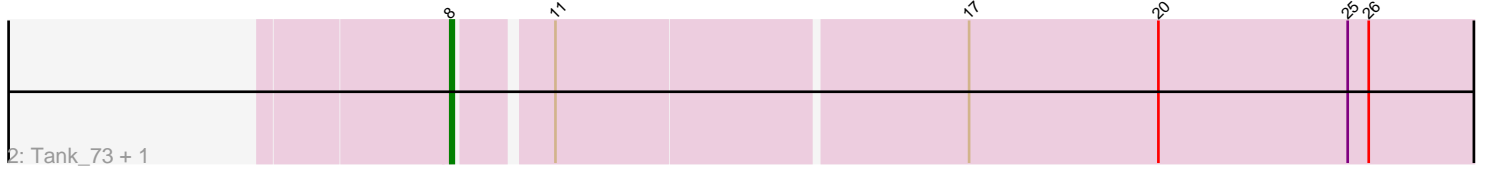
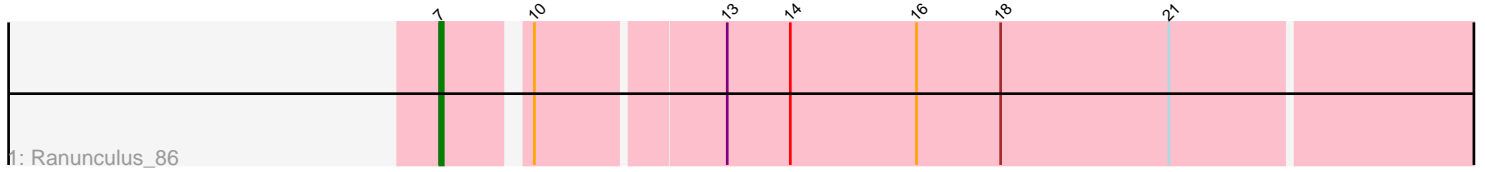


# Pham 184131



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 184131 Report

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

Pham number 184131 has 14 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Ranunculus\_86
- Track 2 : Tank\_73, Wilde\_75
- Track 3 : Rizwana\_73
- Track 4 : MellowYellow\_98, Odyssey395\_97, Pointis\_94, Pureglobe5\_97, NyleyClemson\_97
- Track 5 : Beagle\_99
- Track 6 : BruhMoment\_83
- Track 7 : AWGoat\_70
- Track 8 : SilentRX\_71
- Track 9 : RomansRevenge\_80

### ***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 5 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- MellowYellow\_98, NyleyClemson\_97, Odyssey395\_97, Pointis\_94, Pureglobe5\_97, Ranunculus\_86,

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

- AWGoat\_70, Beagle\_99, SilentRX\_71,

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

- BruhMoment\_83, Rizwana\_73, RomansRevenge\_80, Tank\_73, Wilde\_75,

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

Start 3:

- Found in 6 of 14 ( 42.9% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Beagle\_99 (AP2),

Start 6:

- Found in 1 of 14 ( 7.1% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BruhMoment\_83 (AP3),

Start 7:

- Found in 9 of 14 ( 64.3% ) of genes in pham
- Manual Annotations of this start: 5 of 12
- Called 66.7% of time when present
- Phage (with cluster) where this start called: MellowYellow\_98 (AP2), NyleyClemson\_97 (AP2), Odyssey395\_97 (AP2), Pointis\_94 (AP2), Pureglobe5\_97 (AP2), Ranunculus\_86 (AP),

Start 8:

- Found in 5 of 14 ( 35.7% ) of genes in pham
- Manual Annotations of this start: 5 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AWGoat\_70 (AP4), Rizwana\_73 (AP1), SilentRX\_71 (AP4), Tank\_73 (AP1), Wilde\_75 (AP1),

Start 9:

- Found in 1 of 14 ( 7.1% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RomansRevenge\_80 (singleton),

**Summary by clusters:**

There are 6 clusters represented in this pham: singleton, AP2, AP3, AP1, AP4, 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 AP1:

- Start number 8 was manually annotated 3 times for cluster AP1.

Info for manual annotations of cluster AP2:

- Start number 3 was manually annotated 1 time for cluster AP2.
- Start number 7 was manually annotated 4 times for cluster AP2.

Info for manual annotations of cluster AP3:

- Start number 6 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AP4:

- Start number 8 was manually annotated 2 times for cluster AP4.

**Gene Information:**

Gene: AWGoat\_70 Start: 50221, Stop: 49928, Start Num: 8

Candidate Starts for AWGoat\_70:

(Start: 7 @50224 has 5 MA's), (Start: 8 @50221 has 5 MA's), (11, 50197), (15, 50116), (22, 50017),

Gene: Beagle\_99 Start: 58106, Stop: 57726, Start Num: 3

Candidate Starts for Beagle\_99:

(Start: 3 @58106 has 1 MA's), (4, 58064), (5, 58046), (Start: 7 @58028 has 5 MA's), (12, 57977), (13, 57947), (16, 57893), (21, 57821), (22, 57812), (24, 57776),

Gene: BruhMoment\_83 Start: 55266, Stop: 54958, Start Num: 6

Candidate Starts for BruhMoment\_83:

(Start: 6 @55266 has 1 MA's), (15, 55152), (19, 55083), (21, 55062), (22, 55053),

Gene: MellowYellow\_98 Start: 57643, Stop: 57341, Start Num: 7

Candidate Starts for MellowYellow\_98:

(Start: 3 @57721 has 1 MA's), (4, 57679), (5, 57661), (Start: 7 @57643 has 5 MA's), (12, 57592), (13, 57562), (16, 57508), (21, 57436), (22, 57427), (24, 57391),

Gene: NyleyClemson\_97 Start: 57261, Stop: 56959, Start Num: 7

Candidate Starts for NyleyClemson\_97:

(Start: 3 @57339 has 1 MA's), (4, 57297), (5, 57279), (Start: 7 @57261 has 5 MA's), (12, 57210), (13, 57180), (16, 57126), (21, 57054), (22, 57045), (24, 57009),

Gene: Odyssey395\_97 Start: 57423, Stop: 57121, Start Num: 7

Candidate Starts for Odyssey395\_97:

(Start: 3 @57501 has 1 MA's), (4, 57459), (5, 57441), (Start: 7 @57423 has 5 MA's), (12, 57372), (13, 57342), (16, 57288), (21, 57216), (22, 57207), (24, 57171),

Gene: Pointis\_94 Start: 57319, Stop: 57017, Start Num: 7

Candidate Starts for Pointis\_94:

(Start: 3 @57397 has 1 MA's), (4, 57355), (5, 57337), (Start: 7 @57319 has 5 MA's), (12, 57268), (13, 57238), (16, 57184), (21, 57112), (22, 57103), (24, 57067),

Gene: Pureglobe5\_97 Start: 57981, Stop: 57679, Start Num: 7

Candidate Starts for Pureglobe5\_97:

(Start: 3 @58059 has 1 MA's), (4, 58017), (5, 57999), (Start: 7 @57981 has 5 MA's), (12, 57930), (13, 57900), (16, 57846), (21, 57774), (22, 57765), (24, 57729),

Gene: Ranunculus\_86 Start: 58276, Stop: 57968, Start Num: 7

Candidate Starts for Ranunculus\_86:

(Start: 7 @58276 has 5 MA's), (10, 58255), (13, 58204), (14, 58186), (16, 58150), (18, 58126), (21, 58078),

Gene: Rizwana\_73 Start: 52026, Stop: 51724, Start Num: 8

Candidate Starts for Rizwana\_73:

(1, 52116), (2, 52107), (Start: 8 @52026 has 5 MA's), (11, 52002), (15, 51921), (26, 51774),

Gene: RomansRevenge\_80 Start: 53969, Stop: 53667, Start Num: 9

Candidate Starts for RomansRevenge\_80:

(9, 53969), (18, 53813), (20, 53768), (22, 53756), (23, 53741),

Gene: SilentRX\_71 Start: 51060, Stop: 50767, Start Num: 8

Candidate Starts for SilentRX\_71:

(Start: 7 @51063 has 5 MA's), (Start: 8 @51060 has 5 MA's), (11, 51036), (22, 50856),

Gene: Tank\_73 Start: 52122, Stop: 51820, Start Num: 8

Candidate Starts for Tank\_73:

(Start: 8 @52122 has 5 MA's), (11, 52098), (17, 51984), (20, 51930), (25, 51876), (26, 51870),

Gene: Wilde\_75 Start: 52463, Stop: 52161, Start Num: 8

Candidate Starts for Wilde\_75:

(Start: 8 @52463 has 5 MA's), (11, 52439), (17, 52325), (20, 52271), (25, 52217), (26, 52211),