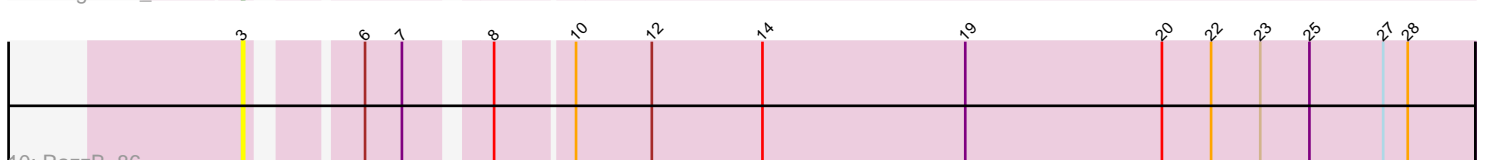
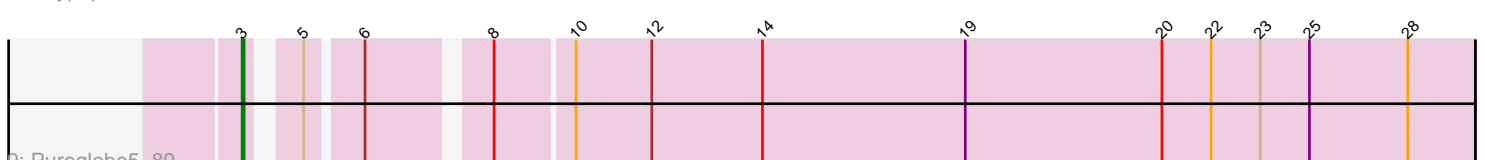
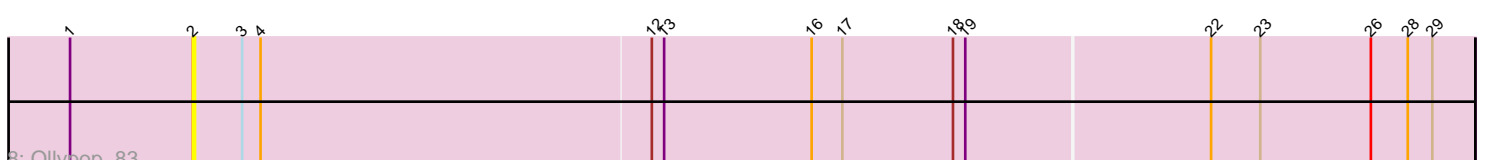
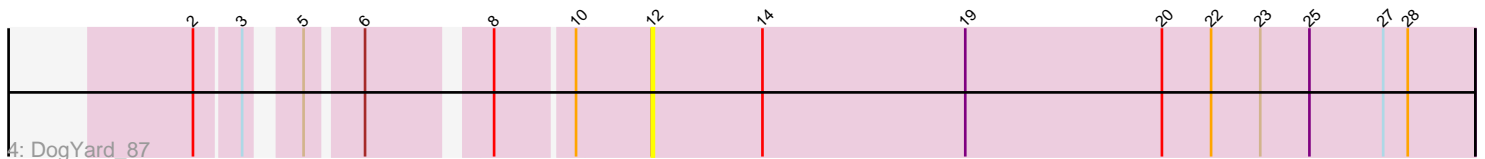
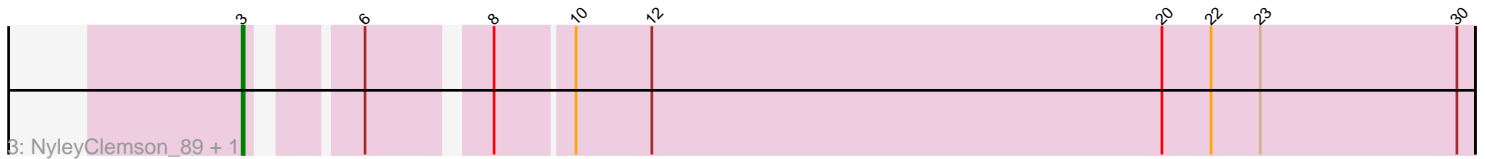
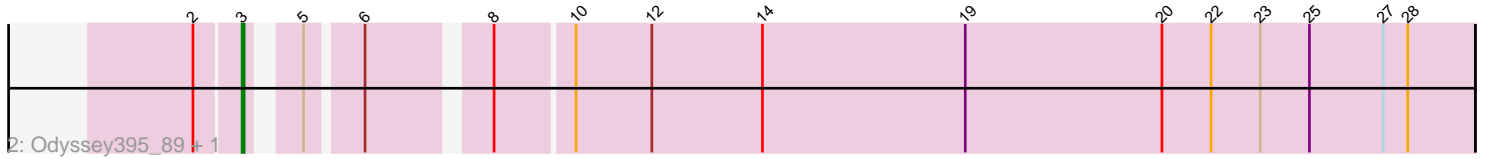
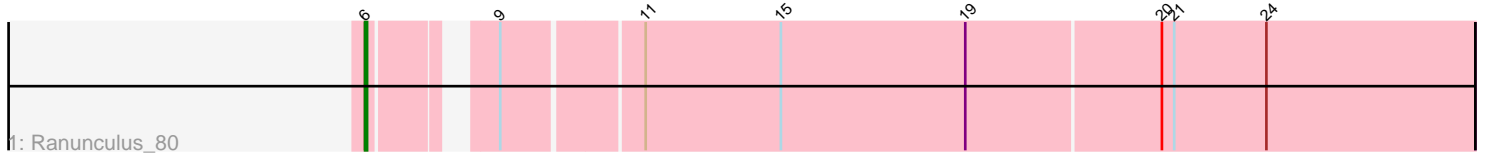


# Pham 223582



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 223582 Report

This analysis was run 03/28/25 on database version 593.

Pham number 223582 has 12 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Ranunculus\_80
- Track 2 : Odyssey395\_89, Kubulix\_86
- Track 3 : NyleyClemson\_89, MellowYellow\_90
- Track 4 : DogYard\_87
- Track 5 : Beagle\_91
- Track 6 : Pointis\_86
- Track 7 : Forrestell\_86
- Track 8 : Ollypop\_83
- Track 9 : Pureglobe5\_89
- Track 10 : RazzB\_86

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

The start number called the most often in the published annotations is 3, it was called in 5 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beagle\_91, Forrestell\_86, Kubulix\_86, MellowYellow\_90, NyleyClemson\_89, Odyssey395\_89, Pointis\_86, Pureglobe5\_89, RazzB\_86,

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

- DogYard\_87, Ollypop\_83,

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

- Ranunculus\_80,

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

Start 2:

- Found in 5 of 12 ( 41.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Ollypop\_83 (AP2),

Start 3:

- Found in 11 of 12 ( 91.7% ) of genes in pham
- Manual Annotations of this start: 5 of 6
- Called 81.8% of time when present
- Phage (with cluster) where this start called: Beagle\_91 (AP2), Forrestell\_86 (AP2), Kubulix\_86 (AP2), MellowYellow\_90 (AP2), NyleyClemson\_89 (AP2), Odyssey395\_89 (AP2), Pointis\_86 (AP2), Pureglobe5\_89 (AP2), RazzB\_86 (AP2),

Start 6:

- Found in 11 of 12 ( 91.7% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 9.1% of time when present
- Phage (with cluster) where this start called: Ranunculus\_80 (AP),

Start 12:

- Found in 11 of 12 ( 91.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 9.1% of time when present
- Phage (with cluster) where this start called: DogYard\_87 (AP2),

**Summary by clusters:**

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

Info for manual annotations of cluster AP:

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

Info for manual annotations of cluster AP2:

- Start number 3 was manually annotated 5 times for cluster AP2.

**Gene Information:**

Gene: Beagle\_91 Start: 52495, Stop: 51929, Start Num: 3

Candidate Starts for Beagle\_91:

(Start: 3 @52495 has 5 MA's), (Start: 6 @52453 has 1 MA's), (8, 52402), (10, 52366), (12, 52330), (14, 52276), (19, 52177), (20, 52081), (22, 52057), (23, 52033), (25, 52009), (28, 51961),

Gene: DogYard\_87 Start: 52035, Stop: 51634, Start Num: 12

Candidate Starts for DogYard\_87:

(2, 52221), (Start: 3 @52200 has 5 MA's), (5, 52182), (Start: 6 @52158 has 1 MA's), (8, 52107), (10, 52071), (12, 52035), (14, 51981), (19, 51882), (20, 51786), (22, 51762), (23, 51738), (25, 51714), (27, 51678), (28, 51666),

Gene: Forrestell\_86 Start: 51443, Stop: 50877, Start Num: 3

Candidate Starts for Forrestell\_86:

(Start: 3 @51443 has 5 MA's), (5, 51425), (Start: 6 @51401 has 1 MA's), (8, 51350), (10, 51314), (12, 51278), (20, 51029), (22, 51005), (23, 50981), (30, 50885),

Gene: Kubulix\_86 Start: 51867, Stop: 51301, Start Num: 3

Candidate Starts for Kubulix\_86:

(2, 51888), (Start: 3 @51867 has 5 MA's), (5, 51849), (Start: 6 @51825 has 1 MA's), (8, 51774), (10, 51738), (12, 51702), (14, 51648), (19, 51549), (20, 51453), (22, 51429), (23, 51405), (25, 51381), (27, 51345), (28, 51333),

Gene: MellowYellow\_90 Start: 52109, Stop: 51543, Start Num: 3

Candidate Starts for MellowYellow\_90:

(Start: 3 @52109 has 5 MA's), (Start: 6 @52067 has 1 MA's), (8, 52016), (10, 51980), (12, 51944), (20, 51695), (22, 51671), (23, 51647), (30, 51551),

Gene: NyleyClemson\_89 Start: 51727, Stop: 51161, Start Num: 3

Candidate Starts for NyleyClemson\_89:

(Start: 3 @51727 has 5 MA's), (Start: 6 @51685 has 1 MA's), (8, 51634), (10, 51598), (12, 51562), (20, 51313), (22, 51289), (23, 51265), (30, 51169),

Gene: Odyssey395\_89 Start: 51889, Stop: 51323, Start Num: 3

Candidate Starts for Odyssey395\_89:

(2, 51910), (Start: 3 @51889 has 5 MA's), (5, 51871), (Start: 6 @51847 has 1 MA's), (8, 51796), (10, 51760), (12, 51724), (14, 51670), (19, 51571), (20, 51475), (22, 51451), (23, 51427), (25, 51403), (27, 51367), (28, 51355),

Gene: Ollypop\_83 Start: 53241, Stop: 52621, Start Num: 2

Candidate Starts for Ollypop\_83:

(1, 53301), (2, 53241), (Start: 3 @53217 has 5 MA's), (4, 53208), (12, 53019), (13, 53013), (16, 52941), (17, 52926), (18, 52872), (19, 52866), (22, 52749), (23, 52725), (26, 52671), (28, 52653), (29, 52641),

Gene: Pointis\_86 Start: 51785, Stop: 51228, Start Num: 3

Candidate Starts for Pointis\_86:

(2, 51806), (Start: 3 @51785 has 5 MA's), (5, 51767), (Start: 6 @51743 has 1 MA's), (12, 51629), (14, 51575), (19, 51476), (20, 51380), (22, 51356), (23, 51332), (25, 51308), (27, 51272), (28, 51260),

Gene: Pureglobe5\_89 Start: 52441, Stop: 51875, Start Num: 3

Candidate Starts for Pureglobe5\_89:

(Start: 3 @52441 has 5 MA's), (5, 52423), (Start: 6 @52399 has 1 MA's), (8, 52348), (10, 52312), (12, 52276), (14, 52222), (19, 52123), (20, 52027), (22, 52003), (23, 51979), (25, 51955), (28, 51907),

Gene: Ranunculus\_80 Start: 53611, Stop: 53102, Start Num: 6

Candidate Starts for Ranunculus\_80:

(Start: 6 @53611 has 1 MA's), (9, 53566), (11, 53503), (15, 53437), (19, 53347), (20, 53254), (21, 53248), (24, 53203),

Gene: RazzB\_86 Start: 51853, Stop: 51287, Start Num: 3

Candidate Starts for RazzB\_86:

(Start: 3 @51853 has 5 MA's), (Start: 6 @51811 has 1 MA's), (7, 51793), (8, 51760), (10, 51724), (12, 51688), (14, 51634), (19, 51535), (20, 51439), (22, 51415), (23, 51391), (25, 51367), (27, 51331), (28, 51319),