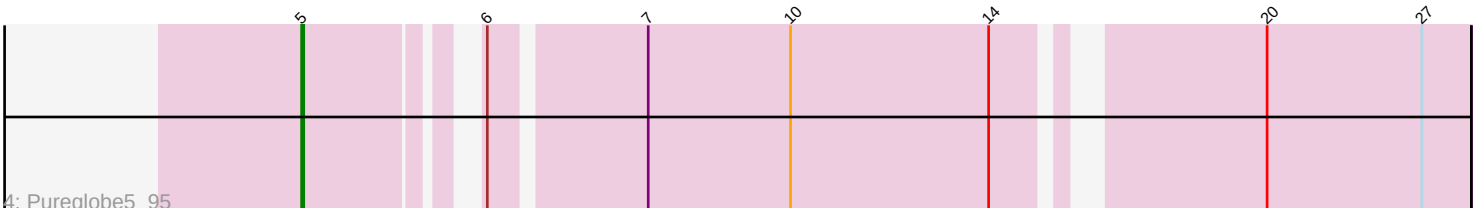
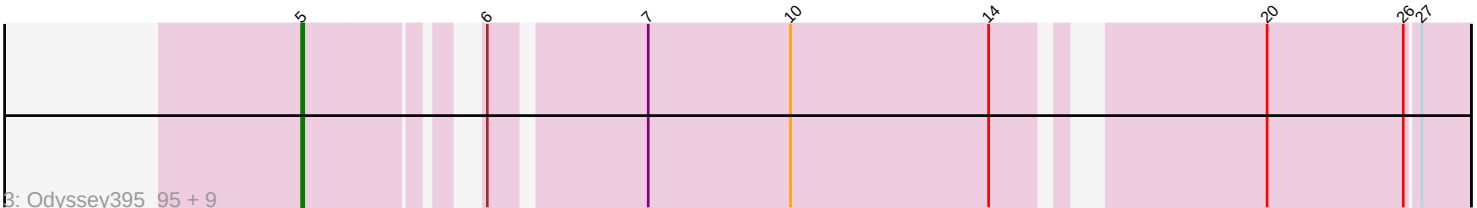
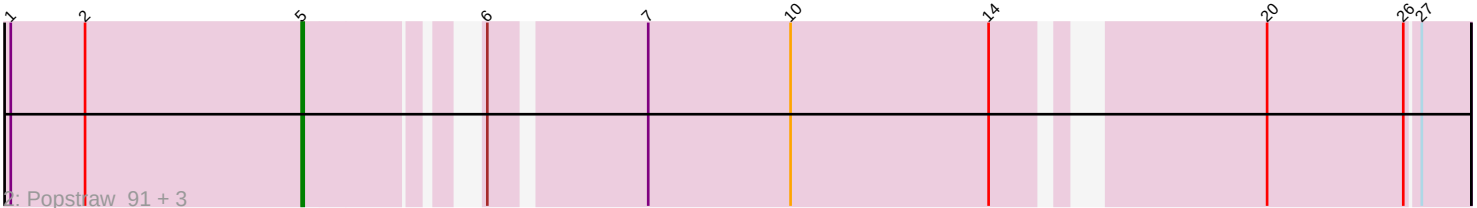
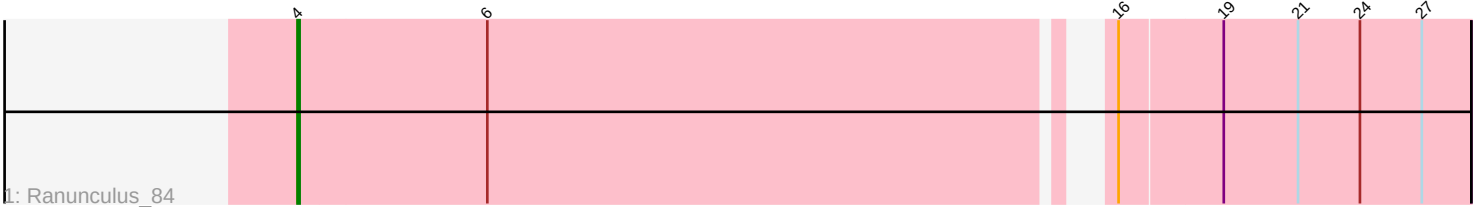


Pham 327505



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 327505 Report

This analysis was run 09/05/26 on database version 662.

Pham number 327505 has 20 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Ranunculus\_84
- Track 2 : Popstraw\_91, Beagle\_97, DogYard\_95, Kubulix\_95
- Track 3 : Odyssey395\_95, Hive\_92, NyleyClemson\_94, PhuzzTulsa\_93, Forrestell\_94, RIPWilbur\_94, RazzB\_94, Pointis\_92, MellowYellow\_96, BetaFish\_96
- Track 4 : Pureglobe5\_95
- Track 5 : Nikan\_92, Ren19\_88
- Track 6 : Ollypop\_90
- Track 7 : BruhMoment\_81

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

The start number called the most often in the published annotations is 5, it was called in 14 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beagle\_97, BetaFish\_96, DogYard\_95, Forrestell\_94, Hive\_92, Kubulix\_95, MellowYellow\_96, Nikan\_92, NyleyClemson\_94, Odyssey395\_95, Ollypop\_90, PhuzzTulsa\_93, Pointis\_92, Popstraw\_91, Pureglobe5\_95, RIPWilbur\_94, RazzB\_94, Ren19\_88,

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

- 

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

- BruhMoment\_81, Ranunculus\_84,

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

Start 3:

- Found in 1 of 20 ( 5.0% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BruhMoment\_81 (AP3),

#### Start 4:

- Found in 1 of 20 ( 5.0% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ranunculus\_84 (AP),

#### Start 5:

- Found in 18 of 20 ( 90.0% ) of genes in pham
- Manual Annotations of this start: 14 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beagle\_97 (AP2), BetaFish\_96 (AP2), DogYard\_95 (AP2), Forrestell\_94 (AP2), Hive\_92 (AP2), Kubulix\_95 (AP2), MellowYellow\_96 (AP2), Nikan\_92 (AP2), NyleyClemson\_94 (AP2), Odyssey395\_95 (AP2), Ollypop\_90 (AP2), PhuzzTulsa\_93 (AP2), Pointis\_92 (AP2), Popstraw\_91 (AP2), Pureglobe5\_95 (AP2), RIPWilbur\_94 (AP2), RazzB\_94 (AP2), Ren19\_88 (AP2),

### Summary by clusters:

There are 3 clusters represented in this pham: AP2, AP3, AP,

Info for manual annotations of cluster AP:

- Start number 4 was manually annotated 1 time for cluster AP.

Info for manual annotations of cluster AP2:

- Start number 5 was manually annotated 14 times for cluster AP2.

Info for manual annotations of cluster AP3:

- Start number 3 was manually annotated 1 time for cluster AP3.

### Gene Information:

Gene: Beagle\_97 Start: 57048, Stop: 56548, Start Num: 5

Candidate Starts for Beagle\_97:

(1, 57189), (2, 57153), (Start: 5 @57048 has 14 MA's), (6, 56985), (7, 56916), (10, 56847), (14, 56751), (20, 56643), (26, 56577), (27, 56571),

Gene: BetaFish\_96 Start: 57263, Stop: 56763, Start Num: 5

Candidate Starts for BetaFish\_96:

(Start: 5 @57263 has 14 MA's), (6, 57200), (7, 57131), (10, 57062), (14, 56966), (20, 56858), (26, 56792), (27, 56786),

Gene: BruhMoment\_81 Start: 54342, Stop: 53806, Start Num: 3

Candidate Starts for BruhMoment\_81:

(Start: 3 @54342 has 1 MA's), (8, 54168), (9, 54144), (12, 54024), (18, 53925), (25, 53847),

Gene: DogYard\_95 Start: 56753, Stop: 56253, Start Num: 5

Candidate Starts for DogYard\_95:

(1, 56894), (2, 56858), (Start: 5 @56753 has 14 MA's), (6, 56690), (7, 56621), (10, 56552), (14, 56456), (20, 56348), (26, 56282), (27, 56276),

Gene: Forrestell\_94 Start: 55457, Stop: 54957, Start Num: 5

Candidate Starts for Forrestell\_94:

(Start: 5 @55457 has 14 MA's), (6, 55394), (7, 55325), (10, 55256), (14, 55160), (20, 55052), (26, 54986), (27, 54980),

Gene: Hive\_92 Start: 56736, Stop: 56236, Start Num: 5

Candidate Starts for Hive\_92:

(Start: 5 @56736 has 14 MA's), (6, 56673), (7, 56604), (10, 56535), (14, 56439), (20, 56331), (26, 56265), (27, 56259),

Gene: Kubulix\_95 Start: 56420, Stop: 55920, Start Num: 5

Candidate Starts for Kubulix\_95:

(1, 56561), (2, 56525), (Start: 5 @56420 has 14 MA's), (6, 56357), (7, 56288), (10, 56219), (14, 56123), (20, 56015), (26, 55949), (27, 55943),

Gene: MellowYellow\_96 Start: 56662, Stop: 56162, Start Num: 5

Candidate Starts for MellowYellow\_96:

(Start: 5 @56662 has 14 MA's), (6, 56599), (7, 56530), (10, 56461), (14, 56365), (20, 56257), (26, 56191), (27, 56185),

Gene: Nikan\_92 Start: 56424, Stop: 55924, Start Num: 5

Candidate Starts for Nikan\_92:

(Start: 5 @56424 has 14 MA's), (11, 56157), (13, 56136), (17, 56058), (22, 55971), (23, 55959),

Gene: NyleyClemson\_94 Start: 56280, Stop: 55780, Start Num: 5

Candidate Starts for NyleyClemson\_94:

(Start: 5 @56280 has 14 MA's), (6, 56217), (7, 56148), (10, 56079), (14, 55983), (20, 55875), (26, 55809), (27, 55803),

Gene: Odyssey395\_95 Start: 56442, Stop: 55942, Start Num: 5

Candidate Starts for Odyssey395\_95:

(Start: 5 @56442 has 14 MA's), (6, 56379), (7, 56310), (10, 56241), (14, 56145), (20, 56037), (26, 55971), (27, 55965),

Gene: Ollypop\_90 Start: 57263, Stop: 56763, Start Num: 5

Candidate Starts for Ollypop\_90:

(Start: 5 @57263 has 14 MA's), (15, 56906), (22, 56810), (23, 56798),

Gene: PhuzzTulsa\_93 Start: 56890, Stop: 56390, Start Num: 5

Candidate Starts for PhuzzTulsa\_93:

(Start: 5 @56890 has 14 MA's), (6, 56827), (7, 56758), (10, 56689), (14, 56593), (20, 56485), (26, 56419), (27, 56413),

Gene: Pointis\_92 Start: 56338, Stop: 55838, Start Num: 5

Candidate Starts for Pointis\_92:

(Start: 5 @56338 has 14 MA's), (6, 56275), (7, 56206), (10, 56137), (14, 56041), (20, 55933), (26, 55867), (27, 55861),

Gene: Popstraw\_91 Start: 56515, Stop: 56015, Start Num: 5

Candidate Starts for Popstraw\_91:

(1, 56656), (2, 56620), (Start: 5 @56515 has 14 MA's), (6, 56452), (7, 56383), (10, 56314), (14, 56218), (20, 56110), (26, 56044), (27, 56038),

Gene: Pureglobe5\_95 Start: 57000, Stop: 56497, Start Num: 5

Candidate Starts for Pureglobe5\_95:

(Start: 5 @57000 has 14 MA's), (6, 56937), (7, 56868), (10, 56799), (14, 56703), (20, 56595), (27, 56520),

Gene: RIPWilbur\_94 Start: 56317, Stop: 55817, Start Num: 5

Candidate Starts for RIPWilbur\_94:

(Start: 5 @56317 has 14 MA's), (6, 56254), (7, 56185), (10, 56116), (14, 56020), (20, 55912), (26, 55846), (27, 55840),

Gene: Ranunculus\_84 Start: 57270, Stop: 56734, Start Num: 4

Candidate Starts for Ranunculus\_84:

(Start: 4 @57270 has 1 MA's), (6, 57180), (16, 56901), (19, 56853), (21, 56817), (24, 56787), (27, 56757),

Gene: RazzB\_94 Start: 55869, Stop: 55369, Start Num: 5

Candidate Starts for RazzB\_94:

(Start: 5 @55869 has 14 MA's), (6, 55806), (7, 55737), (10, 55668), (14, 55572), (20, 55464), (26, 55398), (27, 55392),

Gene: Ren19\_88 Start: 55449, Stop: 54949, Start Num: 5

Candidate Starts for Ren19\_88:

(Start: 5 @55449 has 14 MA's), (11, 55182), (13, 55161), (17, 55083), (22, 54996), (23, 54984),