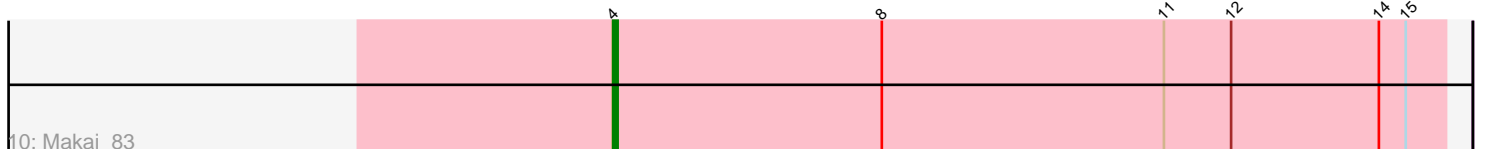
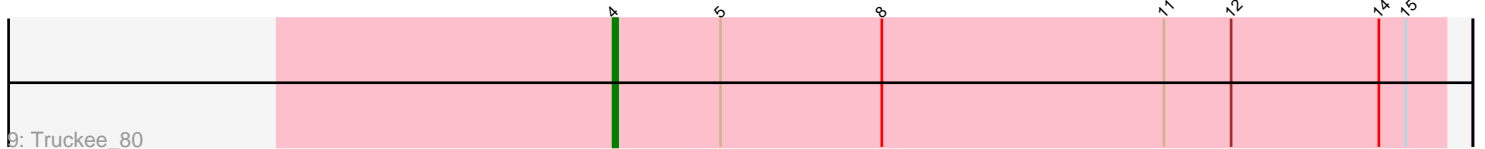
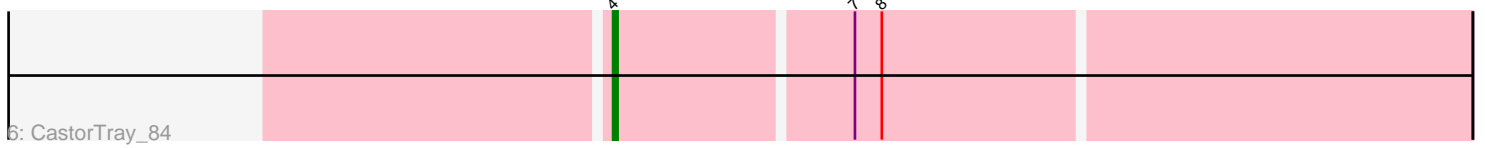
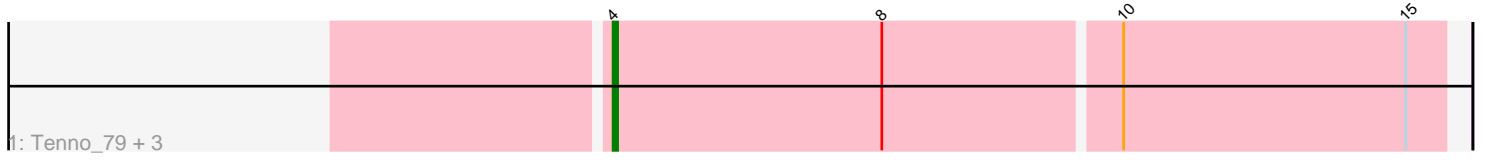


Pham 200690



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 200690 Report

This analysis was run 01/18/25 on database version 583.

Pham number 200690 has 14 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Tenno\_79, Issa\_78, MiniBagel\_80, CapnMurica\_76
- Track 2 : AreFloNak\_85, Nivinsha\_82
- Track 3 : Darby\_78
- Track 4 : LucySwiss\_80
- Track 5 : Gordon\_78
- Track 6 : CastorTray\_84
- Track 7 : Synepsis\_76
- Track 8 : LilHuddy\_83
- Track 9 : Truckee\_80
- Track 10 : Makai\_83

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

The start number called the most often in the published annotations is 4, it was called in 9 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AreFloNak\_85, CapnMurica\_76, CastorTray\_84, Darby\_78, Gordon\_78, Issa\_78, LilHuddy\_83, LucySwiss\_80, Makai\_83, MiniBagel\_80, Nivinsha\_82, Tenno\_79, Truckee\_80,

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

- 

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

- Synepsis\_76,

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

Start 3:

- Found in 1 of 14 ( 7.1% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Synepsis\_76 (AU1),

Start 4:

- Found in 13 of 14 ( 92.9% ) of genes in pham
- Manual Annotations of this start: 9 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AreFloNak\_85 (AU1), CapnMurica\_76 (AU1), CastorTray\_84 (AU1), Darby\_78 (AU1), Gordon\_78 (AU1), Issa\_78 (AU1), LilHuddy\_83 (AU2), LucySwiss\_80 (AU1), Makai\_83 (AU5), MiniBagel\_80 (AU1), Nivinsha\_82 (AU1), Tenno\_79 (AU1), Truckee\_80 (AU5),

**Summary by clusters:**

There are 3 clusters represented in this pham: AU1, AU2, AU5,

Info for manual annotations of cluster AU1:

- Start number 3 was manually annotated 1 time for cluster AU1.
- Start number 4 was manually annotated 6 times for cluster AU1.

Info for manual annotations of cluster AU2:

- Start number 4 was manually annotated 1 time for cluster AU2.

Info for manual annotations of cluster AU5:

- Start number 4 was manually annotated 2 times for cluster AU5.

**Gene Information:**

Gene: AreFloNak\_85 Start: 51430, Stop: 51615, Start Num: 4

Candidate Starts for AreFloNak\_85:

(Start: 4 @51430 has 9 MA's), (7, 51481), (8, 51487),

Gene: CapnMurica\_76 Start: 51657, Stop: 51839, Start Num: 4

Candidate Starts for CapnMurica\_76:

(Start: 4 @51657 has 9 MA's), (8, 51717), (10, 51768), (15, 51831),

Gene: CastorTray\_84 Start: 52198, Stop: 52383, Start Num: 4

Candidate Starts for CastorTray\_84:

(Start: 4 @52198 has 9 MA's), (7, 52249), (8, 52255),

Gene: Darby\_78 Start: 51244, Stop: 51429, Start Num: 4

Candidate Starts for Darby\_78:

(Start: 4 @51244 has 9 MA's), (7, 51295), (8, 51301),

Gene: Gordon\_78 Start: 51987, Stop: 52169, Start Num: 4

Candidate Starts for Gordon\_78:

(Start: 4 @51987 has 9 MA's), (6, 52032), (8, 52044),

Gene: Issa\_78 Start: 50728, Stop: 50910, Start Num: 4

Candidate Starts for Issa\_78:

(Start: 4 @50728 has 9 MA's), (8, 50788), (10, 50839), (15, 50902),

Gene: LilHuddy\_83 Start: 51535, Stop: 51714, Start Num: 4

Candidate Starts for LilHuddy\_83:

(1, 51433), (Start: 4 @51535 has 9 MA's), (7, 51586), (8, 51592), (9, 51622),

Gene: LucySwiss\_80 Start: 51150, Stop: 51335, Start Num: 4

Candidate Starts for LucySwiss\_80:

(2, 51141), (Start: 4 @51150 has 9 MA's), (8, 51207), (11, 51267), (13, 51306),

Gene: Makai\_83 Start: 52100, Stop: 52285, Start Num: 4

Candidate Starts for Makai\_83:

(Start: 4 @52100 has 9 MA's), (8, 52160), (11, 52223), (12, 52238), (14, 52271), (15, 52277),

Gene: MiniBagel\_80 Start: 51661, Stop: 51843, Start Num: 4

Candidate Starts for MiniBagel\_80:

(Start: 4 @51661 has 9 MA's), (8, 51721), (10, 51772), (15, 51835),

Gene: Nivinsha\_82 Start: 51431, Stop: 51616, Start Num: 4

Candidate Starts for Nivinsha\_82:

(Start: 4 @51431 has 9 MA's), (7, 51482), (8, 51488),

Gene: Synopsis\_76 Start: 51357, Stop: 51542, Start Num: 3

Candidate Starts for Synopsis\_76:

(Start: 3 @51357 has 1 MA's), (7, 51408), (8, 51414),

Gene: Tenno\_79 Start: 51694, Stop: 51876, Start Num: 4

Candidate Starts for Tenno\_79:

(Start: 4 @51694 has 9 MA's), (8, 51754), (10, 51805), (15, 51868),

Gene: Truckee\_80 Start: 51793, Stop: 51978, Start Num: 4

Candidate Starts for Truckee\_80:

(Start: 4 @51793 has 9 MA's), (5, 51817), (8, 51853), (11, 51916), (12, 51931), (14, 51964), (15, 51970),