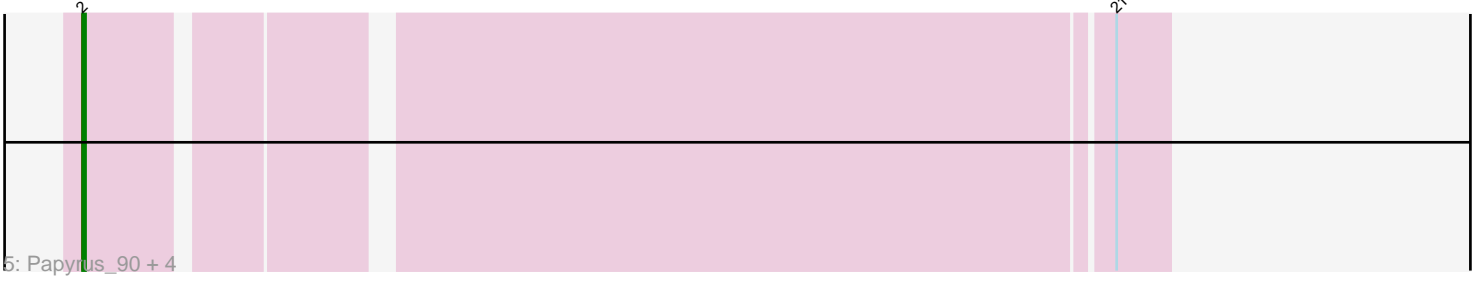
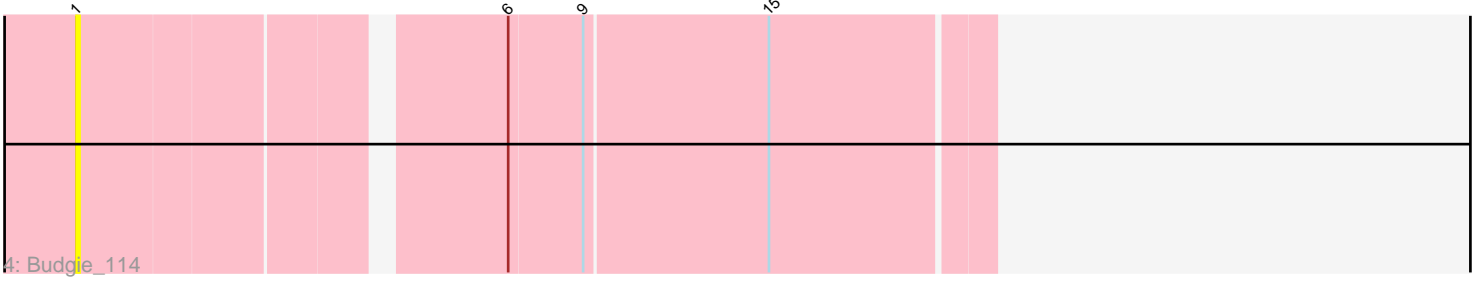
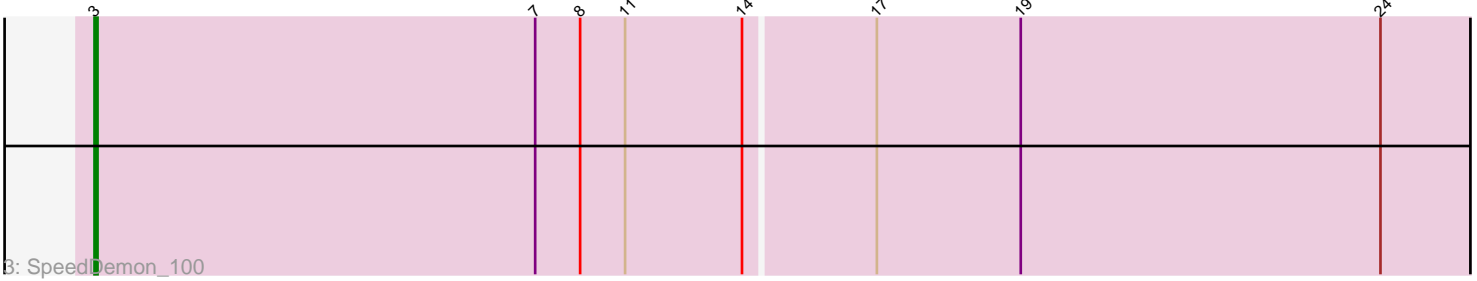
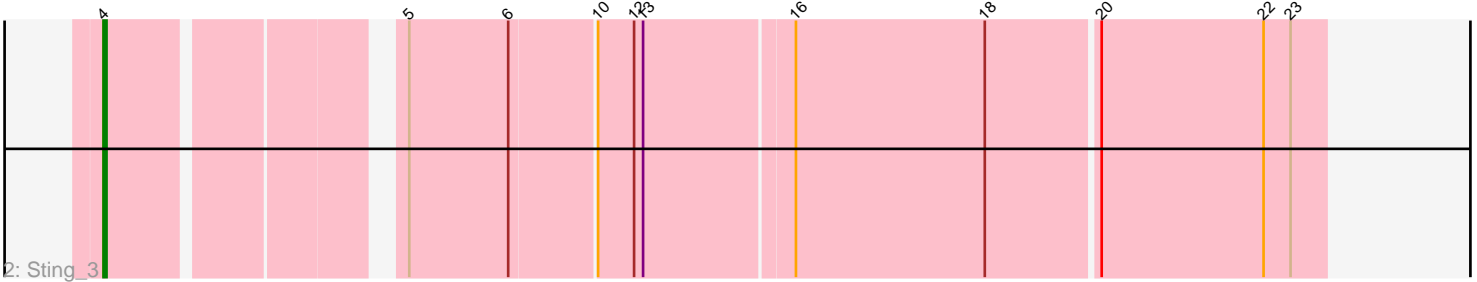
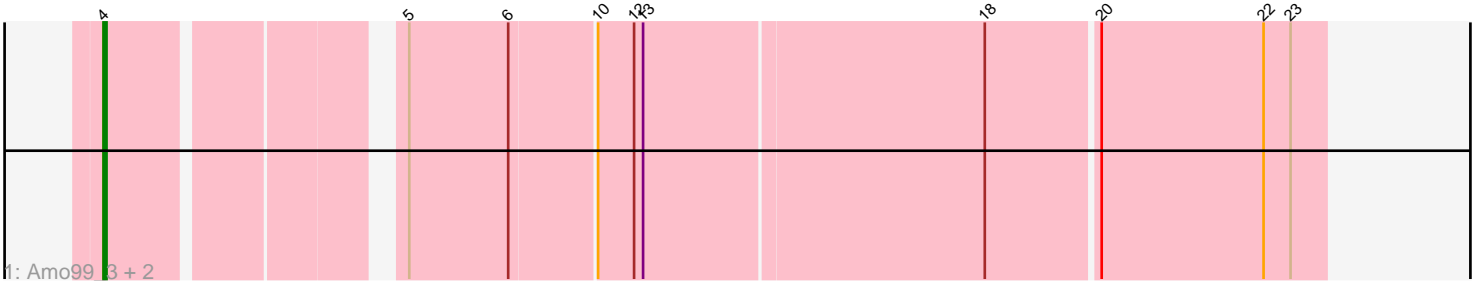


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 281101 Report

This analysis was run 02/07/26 on database version 634.

Pham number 281101 has 11 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Amo99\_3, Jollymon\_3, ColdSoup\_3
- Track 2 : Sting\_3
- Track 3 : SpeedDemon\_100
- Track 4 : Budgie\_114
- Track 5 : Papyrus\_90, Weiss13\_90, Nilo\_93, Riparian\_92, Zenon\_92

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

The start number called the most often in the published annotations is 2, it was called in 5 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Nilo\_93, Papyrus\_90, Riparian\_92, Weiss13\_90, Zenon\_92,

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

- 

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

- Amo99\_3, Budgie\_114, ColdSoup\_3, Jollymon\_3, SpeedDemon\_100, Sting\_3,

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

Start 1:

- Found in 1 of 11 ( 9.1% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Budgie\_114 (E),

Start 2:

- Found in 5 of 11 ( 45.5% ) of genes in pham
- Manual Annotations of this start: 5 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nilo\_93 (R), Papyrus\_90 (R), Riparian\_92 (R), Weiss13\_90 (R), Zenon\_92 (R),

#### Start 3:

- Found in 1 of 11 ( 9.1% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SpeedDemon\_100 (DL),

#### Start 4:

- Found in 4 of 11 ( 36.4% ) of genes in pham
- Manual Annotations of this start: 2 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amo99\_3 (CP), ColdSoup\_3 (CP), Jollymon\_3 (CP), Sting\_3 (CP),

### Summary by clusters:

There are 4 clusters represented in this pham: DL, R, E, CP,

Info for manual annotations of cluster CP:

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

Info for manual annotations of cluster DL:

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

Info for manual annotations of cluster R:

- Start number 2 was manually annotated 5 times for cluster R.

### Gene Information:

Gene: Amo99\_3 Start: 2875, Stop: 3255, Start Num: 4

Candidate Starts for Amo99\_3:

(Start: 4 @2875 has 2 MA's), (5, 2959), (6, 2992), (10, 3019), (12, 3031), (13, 3034), (18, 3145), (20, 3181), (22, 3235), (23, 3244),

Gene: Budgie\_114 Start: 62448, Stop: 62732, Start Num: 1

Candidate Starts for Budgie\_114:

(1, 62448), (6, 62577), (9, 62601), (15, 62661),

Gene: ColdSoup\_3 Start: 2875, Stop: 3255, Start Num: 4

Candidate Starts for ColdSoup\_3:

(Start: 4 @2875 has 2 MA's), (5, 2959), (6, 2992), (10, 3019), (12, 3031), (13, 3034), (18, 3145), (20, 3181), (22, 3235), (23, 3244),

Gene: Jollymon\_3 Start: 2875, Stop: 3255, Start Num: 4

Candidate Starts for Jollymon\_3:

(Start: 4 @2875 has 2 MA's), (5, 2959), (6, 2992), (10, 3019), (12, 3031), (13, 3034), (18, 3145), (20, 3181), (22, 3235), (23, 3244),

Gene: Nilo\_93 Start: 65105, Stop: 65443, Start Num: 2

Candidate Starts for Nilo\_93:

(Start: 2 @65105 has 5 MA's), (21, 65426),

Gene: Papyrus\_90 Start: 64039, Stop: 64377, Start Num: 2

Candidate Starts for Papyrus\_90:

(Start: 2 @64039 has 5 MA's), (21, 64360),

Gene: Riparian\_92 Start: 64551, Stop: 64889, Start Num: 2

Candidate Starts for Riparian\_92:

(Start: 2 @64551 has 5 MA's), (21, 64872),

Gene: SpeedDemon\_100 Start: 4893, Stop: 5351, Start Num: 3

Candidate Starts for SpeedDemon\_100:

(Start: 3 @4893 has 1 MA's), (7, 5040), (8, 5055), (11, 5070), (14, 5109), (17, 5151), (19, 5199), (24, 5319),

Gene: Sting\_3 Start: 2872, Stop: 3252, Start Num: 4

Candidate Starts for Sting\_3:

(Start: 4 @2872 has 2 MA's), (5, 2956), (6, 2989), (10, 3016), (12, 3028), (13, 3031), (16, 3079), (18, 3142), (20, 3178), (22, 3232), (23, 3241),

Gene: Weiss13\_90 Start: 64788, Stop: 65126, Start Num: 2

Candidate Starts for Weiss13\_90:

(Start: 2 @64788 has 5 MA's), (21, 65109),

Gene: Zenon\_92 Start: 65114, Stop: 65452, Start Num: 2

Candidate Starts for Zenon\_92:

(Start: 2 @65114 has 5 MA's), (21, 65435),