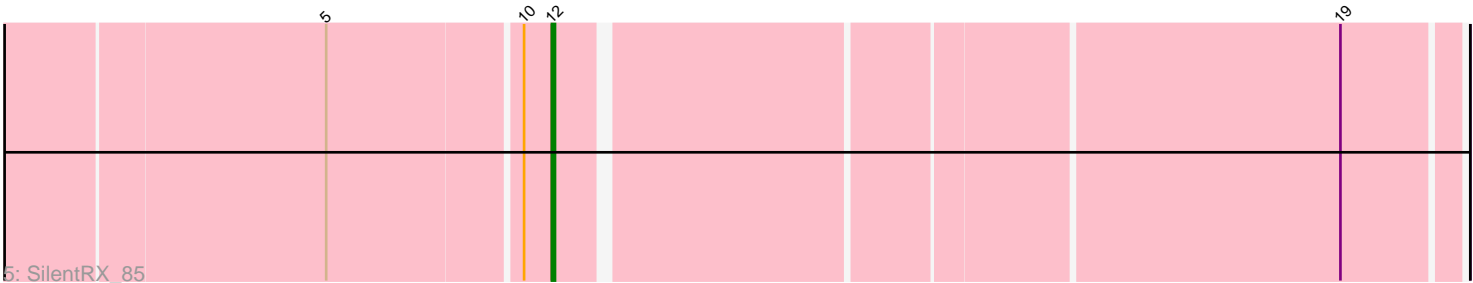
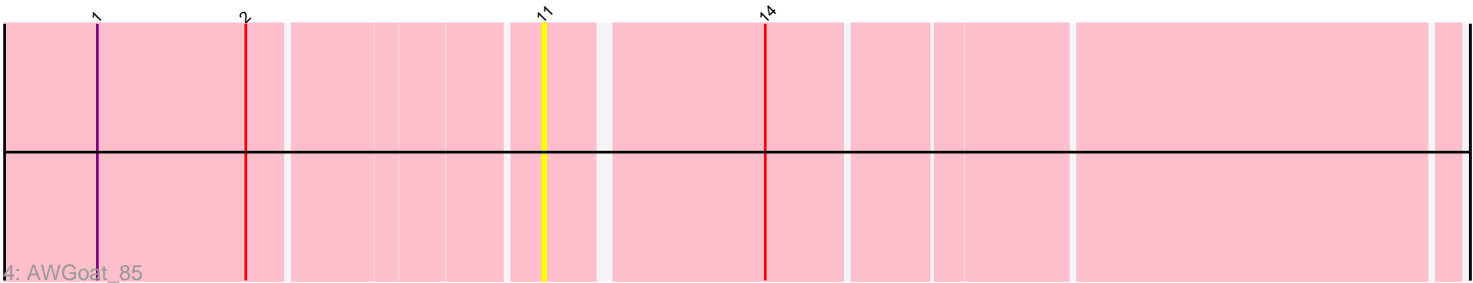
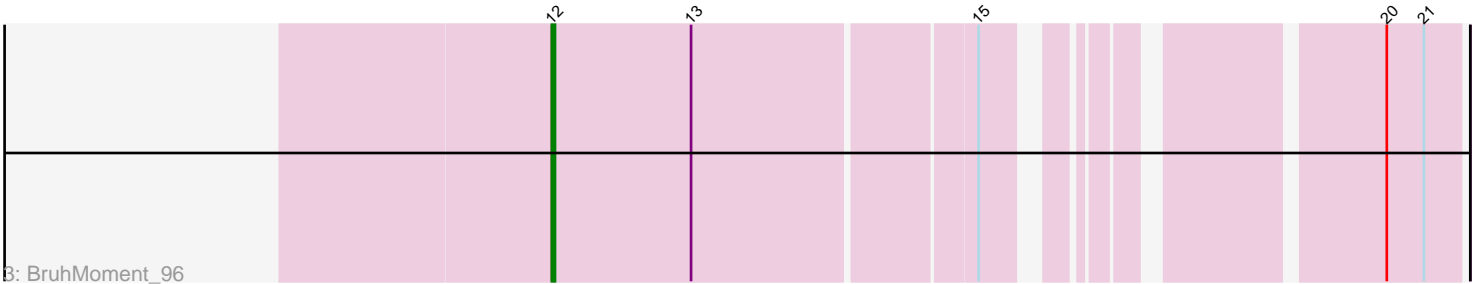


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 88478 Report

This analysis was run 04/28/24 on database version 559.

Pham number 88478 has 6 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Tank\_86, Wilde\_88
- Track 2 : Rizwana\_84
- Track 3 : BruhMoment\_96
- Track 4 : AWGoat\_85
- Track 5 : SilentRX\_85

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

The start number called the most often in the published annotations is 12, it was called in 2 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BruhMoment\_96, SilentRX\_85,

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

- 

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

- AWGoat\_85, Rizwana\_84, Tank\_86, Wilde\_88,

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

Start 7:

- Found in 2 of 6 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 2 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tank\_86 (AP1), Wilde\_88 (AP1),

Start 9:

- Found in 3 of 6 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Rizwana\_84 (AP1),

Start 11:

- Found in 1 of 6 ( 16.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AWGoat\_85 (AP4),

Start 12:

- Found in 2 of 6 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 2 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BruhMoment\_96 (AP3), SilentRX\_85 (AP4),

### **Summary by clusters:**

There are 3 clusters represented in this pham: AP3, AP1, AP4,

Info for manual annotations of cluster AP1:

- Start number 7 was manually annotated 2 times for cluster AP1.
- Start number 9 was manually annotated 1 time for cluster AP1.

Info for manual annotations of cluster AP3:

- Start number 12 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AP4:

- Start number 12 was manually annotated 1 time for cluster AP4.

### **Gene Information:**

Gene: AWGoat\_85 Start: 56713, Stop: 56435, Start Num: 11

Candidate Starts for AWGoat\_85:

(1, 56848), (2, 56800), (11, 56713), (14, 56647),

Gene: BruhMoment\_96 Start: 60028, Stop: 59771, Start Num: 12

Candidate Starts for BruhMoment\_96:

(Start: 12 @60028 has 2 MA's), (13, 59983), (15, 59896), (20, 59794), (21, 59782),

Gene: Rizwana\_84 Start: 58190, Stop: 57891, Start Num: 9

Candidate Starts for Rizwana\_84:

(6, 58214), (8, 58193), (Start: 9 @58190 has 1 MA's), (16, 57974), (17, 57962), (18, 57938),

Gene: SilentRX\_85 Start: 57322, Stop: 57047, Start Num: 12

Candidate Starts for SilentRX\_85:

(5, 57391), (10, 57331), (Start: 12 @57322 has 2 MA's), (19, 57082),

Gene: Tank\_86 Start: 59258, Stop: 58944, Start Num: 7

Candidate Starts for Tank\_86:

(3, 59318), (4, 59309), (6, 59261), (Start: 7 @59258 has 2 MA's), (Start: 9 @59243 has 1 MA's), (17, 59012), (18, 58988),

Gene: Wilde\_88 Start: 59604, Stop: 59290, Start Num: 7

Candidate Starts for Wilde\_88:

(3, 59664), (4, 59655), (6, 59607), (Start: 7 @59604 has 2 MA's), (Start: 9 @59589 has 1 MA's), (17, 59358), (18, 59334),