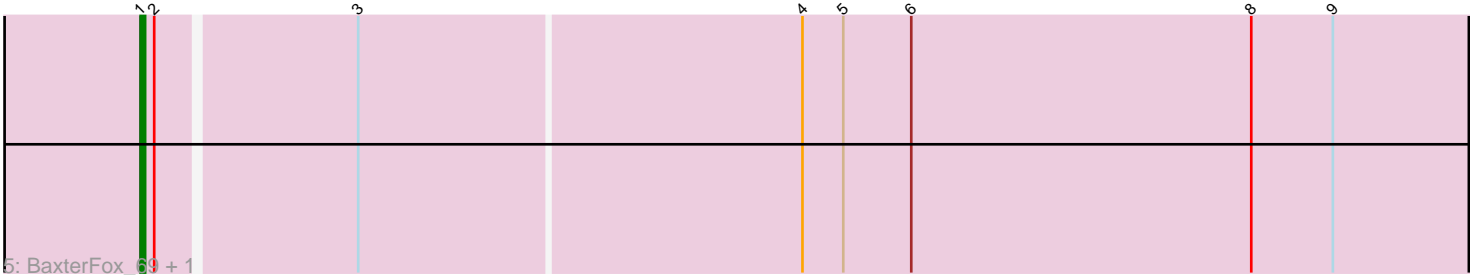
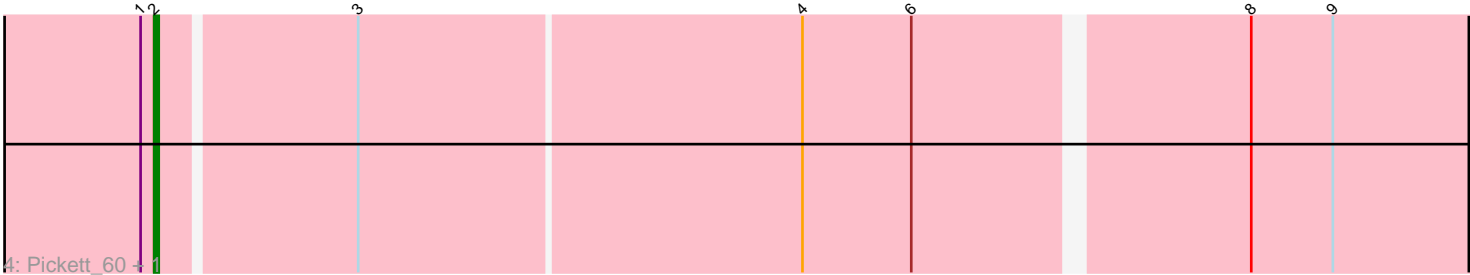
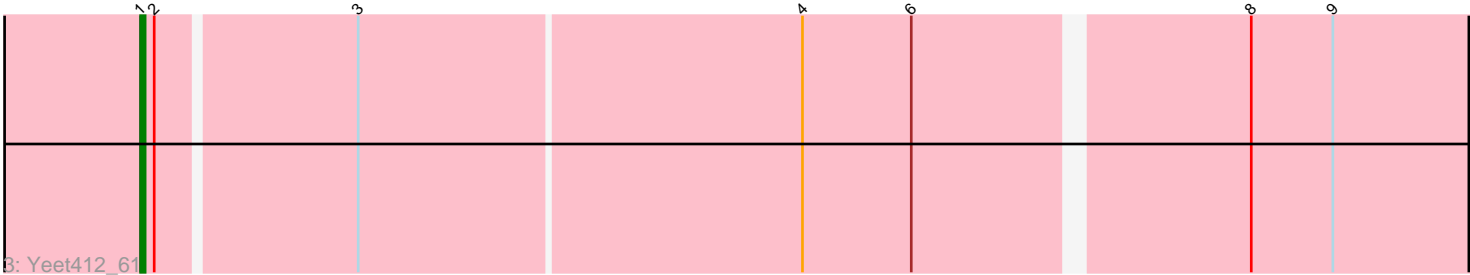
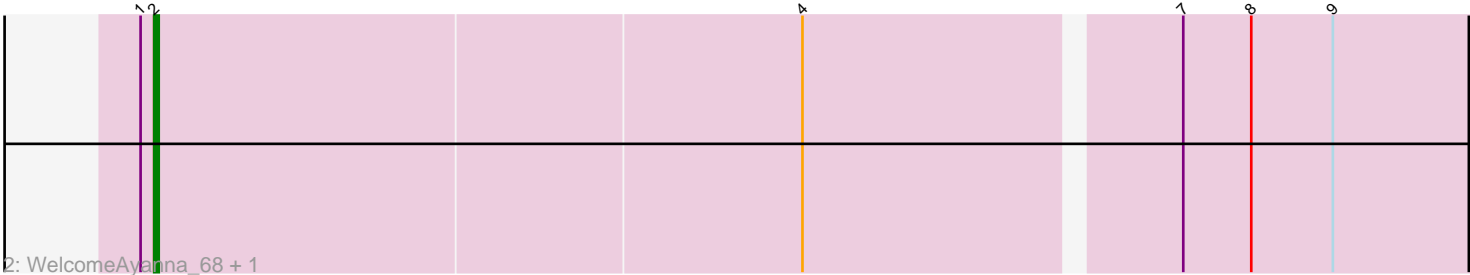
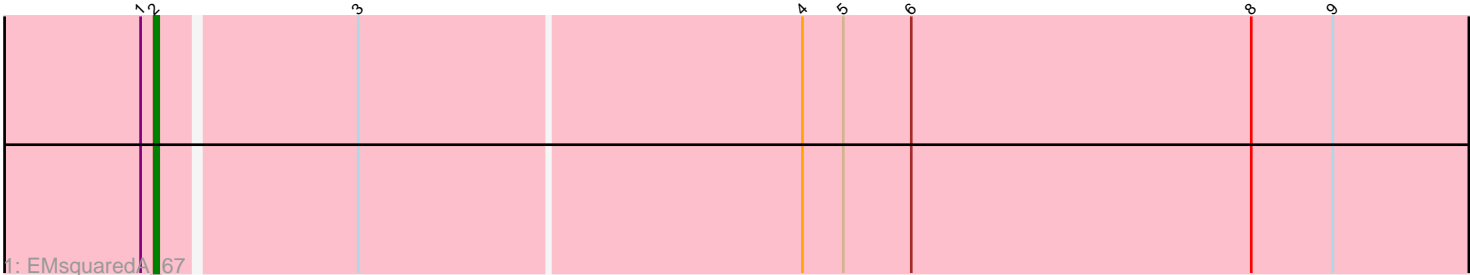


Pham 87817



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 87817 Report

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

Pham number 87817 has 8 members, 1 are drafts.

Phages represented in each track:

- Track 1 : EMsquaredA\_67
- Track 2 : WelcomeAyanna\_68, ThankyouJordi\_68
- Track 3 : Yeet412\_61
- Track 4 : Pickett\_60, EdnaMode\_61
- Track 5 : BaxterFox\_69, Marteena\_66

### ***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 4 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- EMsquaredA\_67, EdnaMode\_61, Pickett\_60, ThankyouJordi\_68, WelcomeAyanna\_68,

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

- BaxterFox\_69, Marteena\_66, Yeet412\_61,

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

- 

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

Start 1:

- Found in 8 of 8 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 3 of 7
- Called 37.5% of time when present
- Phage (with cluster) where this start called: BaxterFox\_69 (CZ3), Marteena\_66 (CY1), Yeet412\_61 (CZ2),

Start 2:

- Found in 8 of 8 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 4 of 7
- Called 62.5% of time when present

- Phage (with cluster) where this start called: EMSquaredA\_67 (CY1), EdnaMode\_61 (CZ2), Pickett\_60 (CZ2), ThankyouJordi\_68 (CZ1), WelcomeAyanna\_68 (CZ1),

### **Summary by clusters:**

There are 4 clusters represented in this pham: CZ2, CZ3, CY1, CZ1,

Info for manual annotations of cluster CY1:

- Start number 1 was manually annotated 1 time for cluster CY1.
- Start number 2 was manually annotated 1 time for cluster CY1.

Info for manual annotations of cluster CZ1:

- Start number 2 was manually annotated 2 times for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 1 was manually annotated 1 time for cluster CZ2.
- Start number 2 was manually annotated 1 time for cluster CZ2.

Info for manual annotations of cluster CZ3:

- Start number 1 was manually annotated 1 time for cluster CZ3.

### **Gene Information:**

Gene: BaxterFox\_69 Start: 46768, Stop: 47067, Start Num: 1

Candidate Starts for BaxterFox\_69:

(Start: 1 @46768 has 3 MA's), (Start: 2 @46771 has 4 MA's), (3, 46813), (4, 46909), (5, 46918), (6, 46933), (8, 47008), (9, 47026),

Gene: EMSquaredA\_67 Start: 45344, Stop: 45640, Start Num: 2

Candidate Starts for EMSquaredA\_67:

(Start: 1 @45341 has 3 MA's), (Start: 2 @45344 has 4 MA's), (3, 45386), (4, 45482), (5, 45491), (6, 45506), (8, 45581), (9, 45599),

Gene: EdnaMode\_61 Start: 40404, Stop: 40694, Start Num: 2

Candidate Starts for EdnaMode\_61:

(Start: 1 @40401 has 3 MA's), (Start: 2 @40404 has 4 MA's), (3, 40446), (4, 40542), (6, 40566), (8, 40635), (9, 40653),

Gene: Marteena\_66 Start: 45341, Stop: 45640, Start Num: 1

Candidate Starts for Marteena\_66:

(Start: 1 @45341 has 3 MA's), (Start: 2 @45344 has 4 MA's), (3, 45386), (4, 45482), (5, 45491), (6, 45506), (8, 45581), (9, 45599),

Gene: Pickett\_60 Start: 39009, Stop: 39299, Start Num: 2

Candidate Starts for Pickett\_60:

(Start: 1 @39006 has 3 MA's), (Start: 2 @39009 has 4 MA's), (3, 39051), (4, 39147), (6, 39171), (8, 39240), (9, 39258),

Gene: ThankyouJordi\_68 Start: 47767, Stop: 48060, Start Num: 2

Candidate Starts for ThankyouJordi\_68:

(Start: 1 @47764 has 3 MA's), (Start: 2 @47767 has 4 MA's), (4, 47908), (7, 47986), (8, 48001), (9, 48019),

Gene: WelcomeAyanna\_68 Start: 47914, Stop: 48207, Start Num: 2

Candidate Starts for WelcomeAyanna\_68:

(Start: 1 @47911 has 3 MA's), (Start: 2 @47914 has 4 MA's), (4, 48055), (7, 48133), (8, 48148), (9, 48166),

Gene: Yeet412\_61 Start: 41292, Stop: 41585, Start Num: 1

Candidate Starts for Yeet412\_61:

(Start: 1 @41292 has 3 MA's), (Start: 2 @41295 has 4 MA's), (3, 41337), (4, 41433), (6, 41457), (8, 41526), (9, 41544),