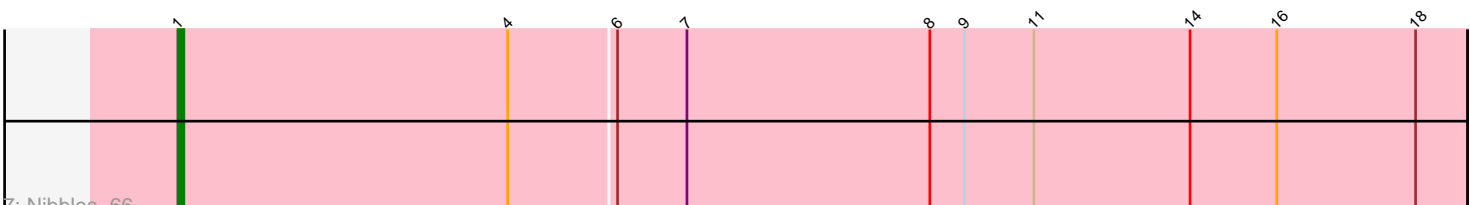
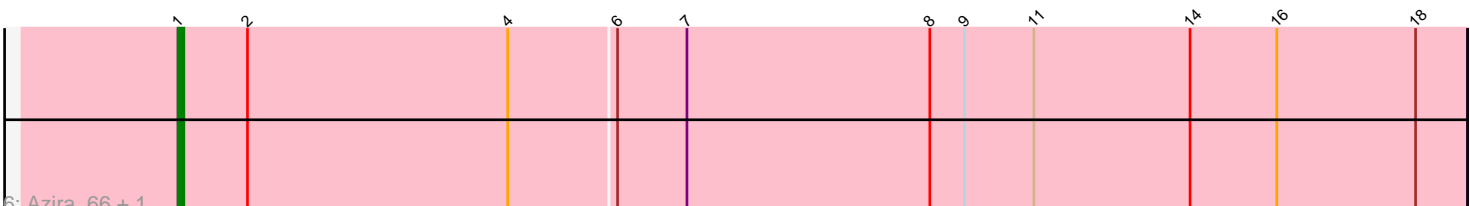
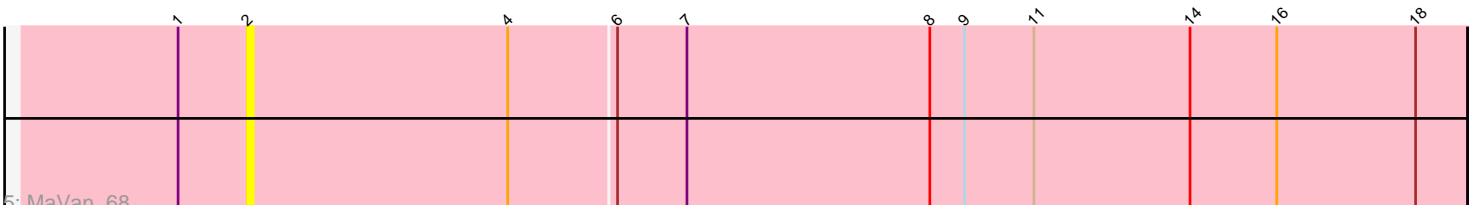
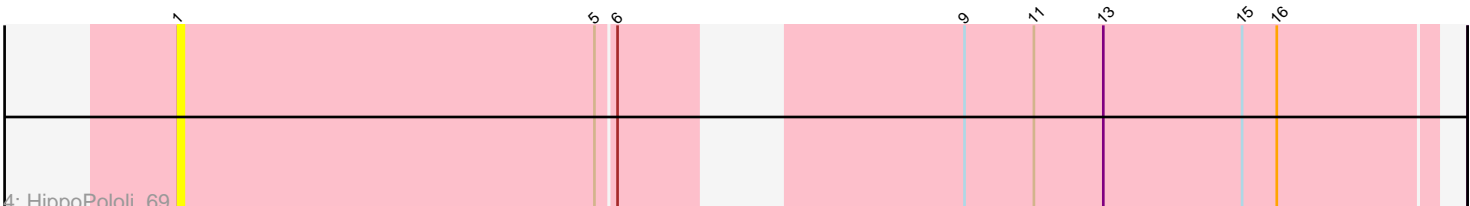
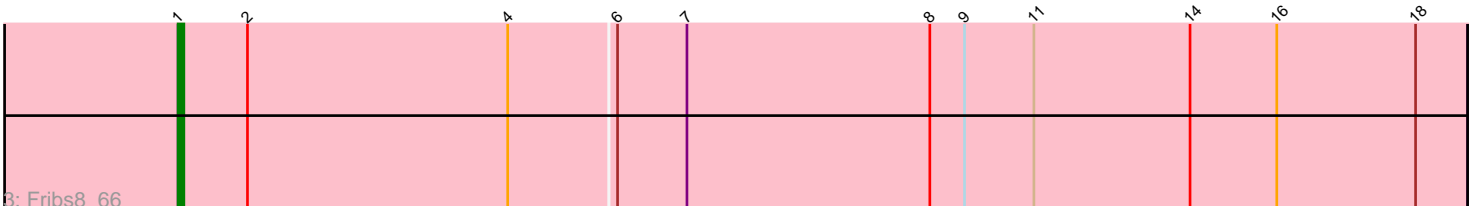
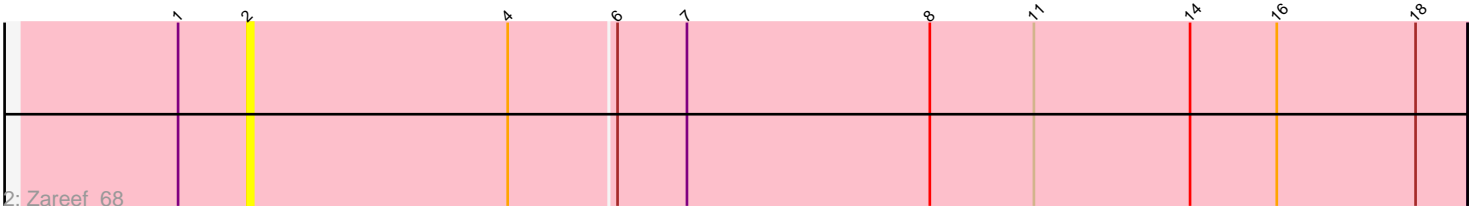


Pham 9395



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 9395 Report

This analysis was run 04/05/24 on database version 557.

Pham number 9395 has 10 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Dre3\_67, Gibbous\_67, Cleo\_62
- Track 2 : Zareef\_68
- Track 3 : Fribs8\_66
- Track 4 : HippoPololi\_69
- Track 5 : MaVan\_68
- Track 6 : Azira\_66, Survivors\_68
- Track 7 : Nibbles\_66

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

The start number called the most often in the published annotations is 1, it was called in 7 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Azira\_66, Cleo\_62, Dre3\_67, Fribs8\_66, Gibbous\_67, HippoPololi\_69, Nibbles\_66, Survivors\_68,

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

- MaVan\_68, Zareef\_68,

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

- 

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

Start 1:

- Found in 10 of 10 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 7 of 7
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Azira\_66 (CT), Cleo\_62 (CT), Dre3\_67 (CT), Fribs8\_66 (CT), Gibbous\_67 (CT), HippoPololi\_69 (CT), Nibbles\_66 (CT), Survivors\_68 (CT),

Start 2:

- Found in 5 of 10 ( 50.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 40.0% of time when present
- Phage (with cluster) where this start called: MaVan\_68 (CT), Zareef\_68 (CT),

### **Summary by clusters:**

There is one cluster represented in this pham: CT

Info for manual annotations of cluster CT:

- Start number 1 was manually annotated 7 times for cluster CT.

### **Gene Information:**

Gene: Azira\_66 Start: 44614, Stop: 44835, Start Num: 1

Candidate Starts for Azira\_66:

(Start: 1 @44614 has 7 MA's), (2, 44626), (4, 44671), (6, 44689), (7, 44701), (8, 44743), (9, 44749), (11, 44761), (14, 44788), (16, 44803), (18, 44827),

Gene: Cleo\_62 Start: 44065, Stop: 44286, Start Num: 1

Candidate Starts for Cleo\_62:

(Start: 1 @44065 has 7 MA's), (3, 44095), (8, 44194), (10, 44206), (11, 44212), (12, 44218), (13, 44224), (16, 44254), (17, 44269), (18, 44278),

Gene: Dre3\_67 Start: 45077, Stop: 45298, Start Num: 1

Candidate Starts for Dre3\_67:

(Start: 1 @45077 has 7 MA's), (3, 45107), (8, 45206), (10, 45218), (11, 45224), (12, 45230), (13, 45236), (16, 45266), (17, 45281), (18, 45290),

Gene: Fribs8\_66 Start: 45243, Stop: 45464, Start Num: 1

Candidate Starts for Fribs8\_66:

(Start: 1 @45243 has 7 MA's), (2, 45255), (4, 45300), (6, 45318), (7, 45330), (8, 45372), (9, 45378), (11, 45390), (14, 45417), (16, 45432), (18, 45456),

Gene: Gibbous\_67 Start: 45077, Stop: 45298, Start Num: 1

Candidate Starts for Gibbous\_67:

(Start: 1 @45077 has 7 MA's), (3, 45107), (8, 45206), (10, 45218), (11, 45224), (12, 45230), (13, 45236), (16, 45266), (17, 45281), (18, 45290),

Gene: HippoPololi\_69 Start: 44655, Stop: 44855, Start Num: 1

Candidate Starts for HippoPololi\_69:

(Start: 1 @44655 has 7 MA's), (5, 44727), (6, 44730), (9, 44775), (11, 44787), (13, 44799), (15, 44823), (16, 44829),

Gene: MaVan\_68 Start: 44656, Stop: 44865, Start Num: 2

Candidate Starts for MaVan\_68:

(Start: 1 @44644 has 7 MA's), (2, 44656), (4, 44701), (6, 44719), (7, 44731), (8, 44773), (9, 44779), (11, 44791), (14, 44818), (16, 44833), (18, 44857),

Gene: Nibbles\_66 Start: 44880, Stop: 45101, Start Num: 1

Candidate Starts for Nibbles\_66:

(Start: 1 @44880 has 7 MA's), (4, 44937), (6, 44955), (7, 44967), (8, 45009), (9, 45015), (11, 45027), (14, 45054), (16, 45069), (18, 45093),

Gene: Survivors\_68 Start: 44670, Stop: 44891, Start Num: 1

Candidate Starts for Survivors\_68:

(Start: 1 @44670 has 7 MA's), (2, 44682), (4, 44727), (6, 44745), (7, 44757), (8, 44799), (9, 44805), (11, 44817), (14, 44844), (16, 44859), (18, 44883),

Gene: Zareef\_68 Start: 44605, Stop: 44814, Start Num: 2

Candidate Starts for Zareef\_68:

(Start: 1 @44593 has 7 MA's), (2, 44605), (4, 44650), (6, 44668), (7, 44680), (8, 44722), (11, 44740), (14, 44767), (16, 44782), (18, 44806),