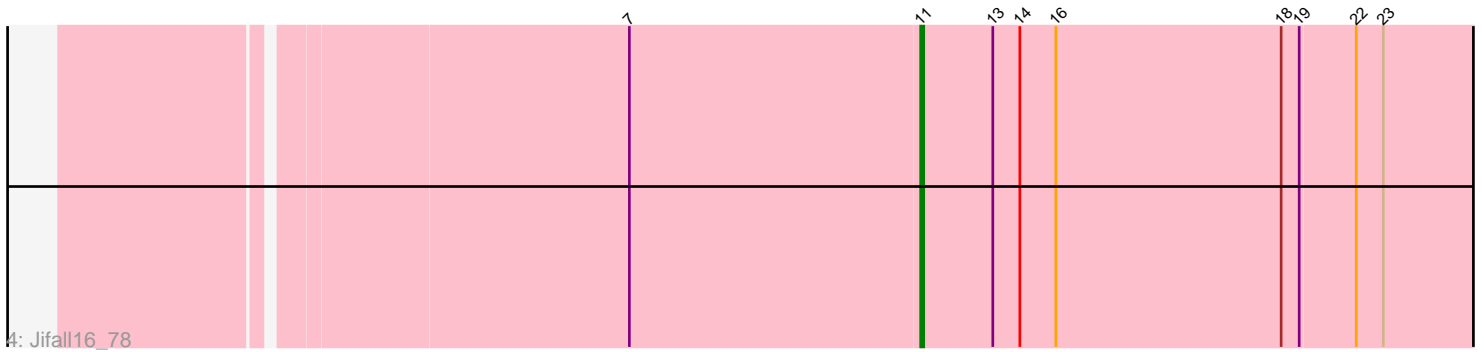
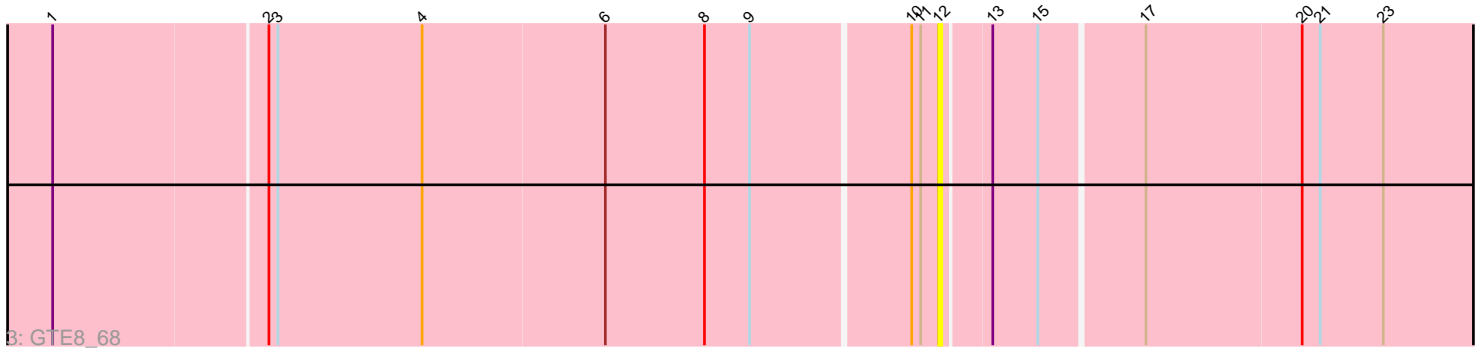
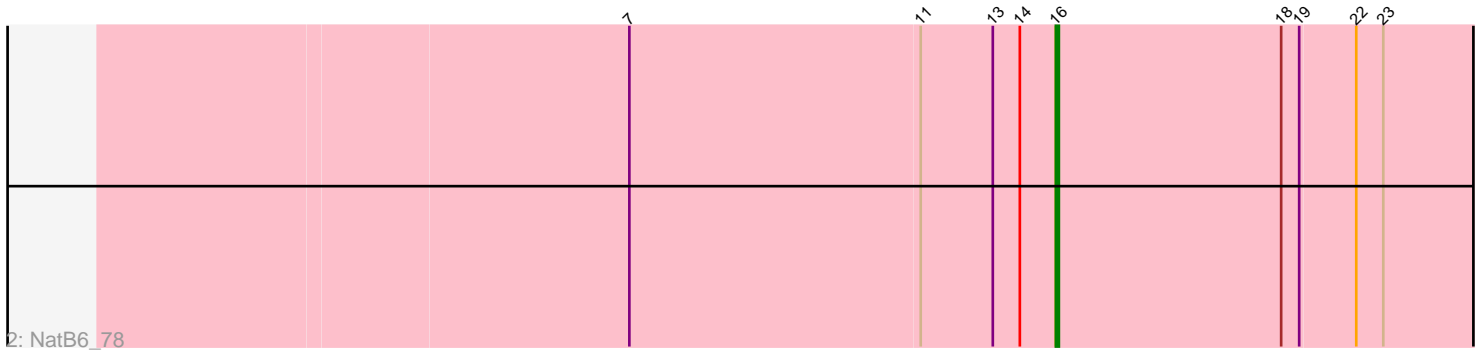
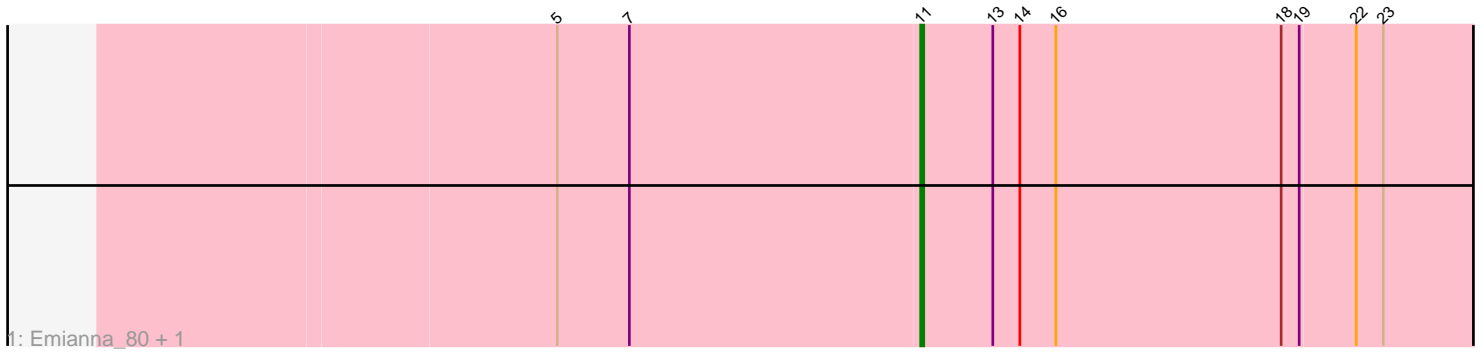


Pham 223800



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 223800 Report

This analysis was run 03/28/25 on database version 593.

Pham number 223800 has 5 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Emianna\_80, Kurt\_80
- Track 2 : NatB6\_78
- Track 3 : GTE8\_68
- Track 4 : Jifall16\_78

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

The start number called the most often in the published annotations is 11, it was called in 3 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Emianna\_80, Jifall16\_78, Kurt\_80,

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

- GTE8\_68, NatB6\_78,

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

- 

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

Start 11:

- Found in 5 of 5 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 3 of 4
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Emianna\_80 (CR2), Jifall16\_78 (CR2), Kurt\_80 (CR2),

Start 12:

- Found in 1 of 5 ( 20.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GTE8\_68 (CR2),

Start 16:

- Found in 4 of 5 ( 80.0% ) of genes in pham
- Manual Annotations of this start: 1 of 4
- Called 25.0% of time when present
- Phage (with cluster) where this start called: NatB6\_78 (CR2),

### **Summary by clusters:**

There is one cluster represented in this pham: CR2

Info for manual annotations of cluster CR2:

- Start number 11 was manually annotated 3 times for cluster CR2.
- Start number 16 was manually annotated 1 time for cluster CR2.

### **Gene Information:**

Gene: Emianna\_80 Start: 59805, Stop: 60059, Start Num: 11

Candidate Starts for Emianna\_80:

(5, 59685), (7, 59709), (Start: 11 @59805 has 3 MA's), (13, 59829), (14, 59838), (Start: 16 @59850 has 1 MA's), (18, 59925), (19, 59931), (22, 59949), (23, 59958),

Gene: GTE8\_68 Start: 53037, Stop: 53228, Start Num: 12

Candidate Starts for GTE8\_68:

(1, 52749), (2, 52818), (3, 52821), (4, 52869), (6, 52929), (8, 52962), (9, 52977), (10, 53028), (Start: 11 @53031 has 3 MA's), (12, 53037), (13, 53052), (15, 53067), (17, 53100), (20, 53151), (21, 53157), (23, 53178),

Gene: Jifall16\_78 Start: 59032, Stop: 59286, Start Num: 11

Candidate Starts for Jifall16\_78:

(7, 58936), (Start: 11 @59032 has 3 MA's), (13, 59056), (14, 59065), (Start: 16 @59077 has 1 MA's), (18, 59152), (19, 59158), (22, 59176), (23, 59185),

Gene: Kurt\_80 Start: 59820, Stop: 60074, Start Num: 11

Candidate Starts for Kurt\_80:

(5, 59700), (7, 59724), (Start: 11 @59820 has 3 MA's), (13, 59844), (14, 59853), (Start: 16 @59865 has 1 MA's), (18, 59940), (19, 59946), (22, 59964), (23, 59973),

Gene: NatB6\_78 Start: 58484, Stop: 58693, Start Num: 16

Candidate Starts for NatB6\_78:

(7, 58343), (Start: 11 @58439 has 3 MA's), (13, 58463), (14, 58472), (Start: 16 @58484 has 1 MA's), (18, 58559), (19, 58565), (22, 58583), (23, 58592),