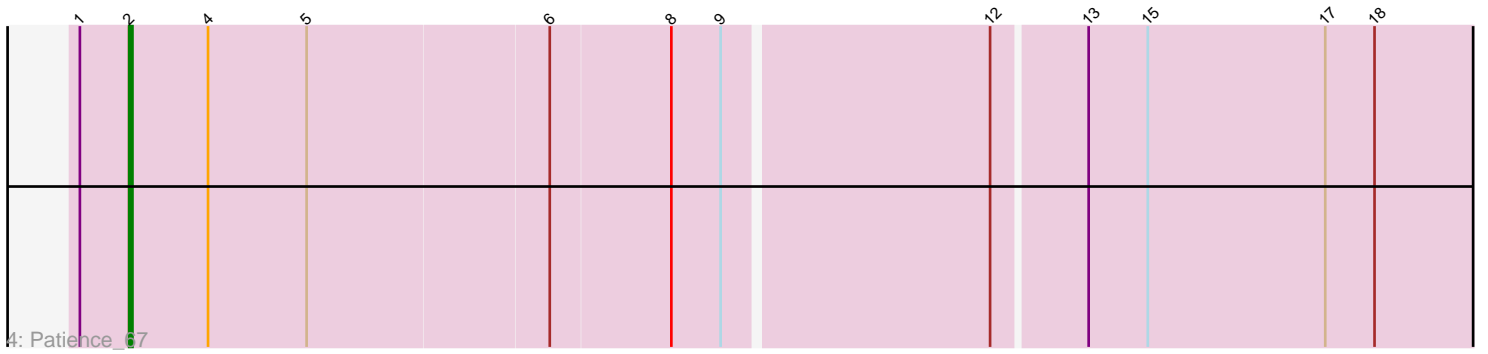
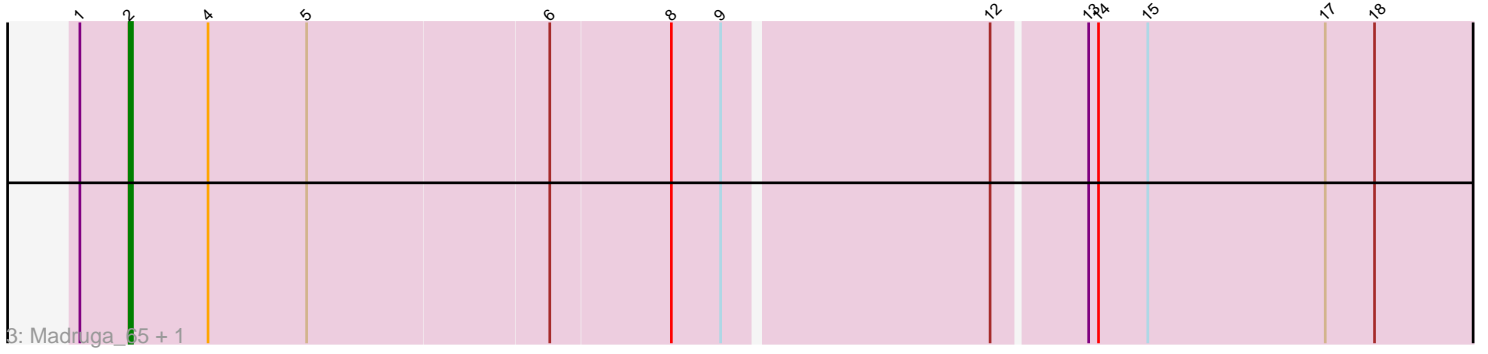
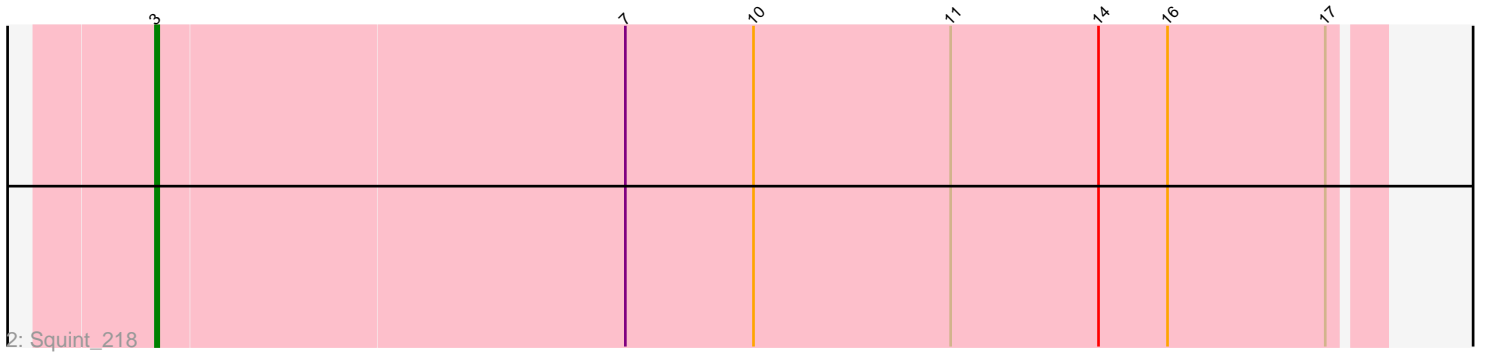
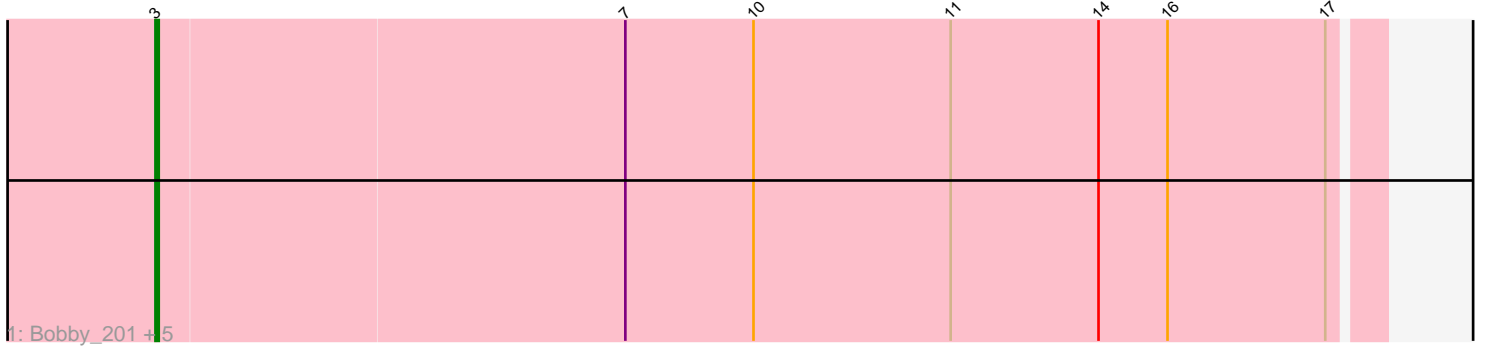


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 158380 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158380 has 10 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Bobby\_201, BAKA\_227, Constella\_212, Dallas\_220, Klein\_227, Wanda\_219
- Track 2 : Squint\_218
- Track 3 : Madruga\_65, Labelle\_66
- Track 4 : Patience\_67

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

The start number called the most often in the published annotations is 3, it was called in 7 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BAKA\_227, Bobby\_201, Constella\_212, Dallas\_220, Klein\_227, Squint\_218, Wanda\_219,

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

- 

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

- Labelle\_66, Madruga\_65, Patience\_67,

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

Start 2:

- Found in 3 of 10 ( 30.0% ) of genes in pham
- Manual Annotations of this start: 3 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Labelle\_66 (U), Madruga\_65 (U), Patience\_67 (U),

Start 3:

- Found in 7 of 10 ( 70.0% ) of genes in pham
- Manual Annotations of this start: 7 of 10
- Called 100.0% of time when present

- Phage (with cluster) where this start called: BAKA\_227 (J), Bobby\_201 (J), Constella\_212 (J), Dallas\_220 (J), Klein\_227 (J), Squint\_218 (J), Wanda\_219 (J),

### **Summary by clusters:**

There are 2 clusters represented in this pham: J, U,

Info for manual annotations of cluster J:

- Start number 3 was manually annotated 7 times for cluster J.

Info for manual annotations of cluster U:

- Start number 2 was manually annotated 3 times for cluster U.

### **Gene Information:**

Gene: BAKA\_227 Start: 107551, Stop: 107183, Start Num: 3

Candidate Starts for BAKA\_227:

(Start: 3 @107551 has 7 MA's), (7, 107410), (10, 107371), (11, 107311), (14, 107266), (16, 107245), (17, 107197),

Gene: Bobby\_201 Start: 105035, Stop: 104667, Start Num: 3

Candidate Starts for Bobby\_201:

(Start: 3 @105035 has 7 MA's), (7, 104894), (10, 104855), (11, 104795), (14, 104750), (16, 104729), (17, 104681),

Gene: Constella\_212 Start: 105263, Stop: 104895, Start Num: 3

Candidate Starts for Constella\_212:

(Start: 3 @105263 has 7 MA's), (7, 105122), (10, 105083), (11, 105023), (14, 104978), (16, 104957), (17, 104909),

Gene: Dallas\_220 Start: 105872, Stop: 105504, Start Num: 3

Candidate Starts for Dallas\_220:

(Start: 3 @105872 has 7 MA's), (7, 105731), (10, 105692), (11, 105632), (14, 105587), (16, 105566), (17, 105518),

Gene: Klein\_227 Start: 106257, Stop: 105889, Start Num: 3

Candidate Starts for Klein\_227:

(Start: 3 @106257 has 7 MA's), (7, 106116), (10, 106077), (11, 106017), (14, 105972), (16, 105951), (17, 105903),

Gene: Labelle\_66 Start: 45684, Stop: 46091, Start Num: 2

Candidate Starts for Labelle\_66:

(1, 45669), (Start: 2 @45684 has 3 MA's), (4, 45708), (5, 45738), (6, 45810), (8, 45846), (9, 45861), (12, 45939), (13, 45966), (14, 45969), (15, 45984), (17, 46038), (18, 46053),

Gene: Madruga\_65 Start: 45333, Stop: 45740, Start Num: 2

Candidate Starts for Madruga\_65:

(1, 45318), (Start: 2 @45333 has 3 MA's), (4, 45357), (5, 45387), (6, 45459), (8, 45495), (9, 45510), (12, 45588), (13, 45615), (14, 45618), (15, 45633), (17, 45687), (18, 45702),

Gene: Patience\_67 Start: 46228, Stop: 46635, Start Num: 2

Candidate Starts for Patience\_67:

(1, 46213), (Start: 2 @46228 has 3 MA's), (4, 46252), (5, 46282), (6, 46354), (8, 46390), (9, 46405), (12, 46483), (13, 46510), (15, 46528), (17, 46582), (18, 46597),

Gene: Squint\_218 Start: 103983, Stop: 103615, Start Num: 3

Candidate Starts for Squint\_218:

(Start: 3 @103983 has 7 MA's), (7, 103842), (10, 103803), (11, 103743), (14, 103698), (16, 103677), (17, 103629),

Gene: Wanda\_219 Start: 103887, Stop: 103519, Start Num: 3

Candidate Starts for Wanda\_219:

(Start: 3 @103887 has 7 MA's), (7, 103746), (10, 103707), (11, 103647), (14, 103602), (16, 103581), (17, 103533),