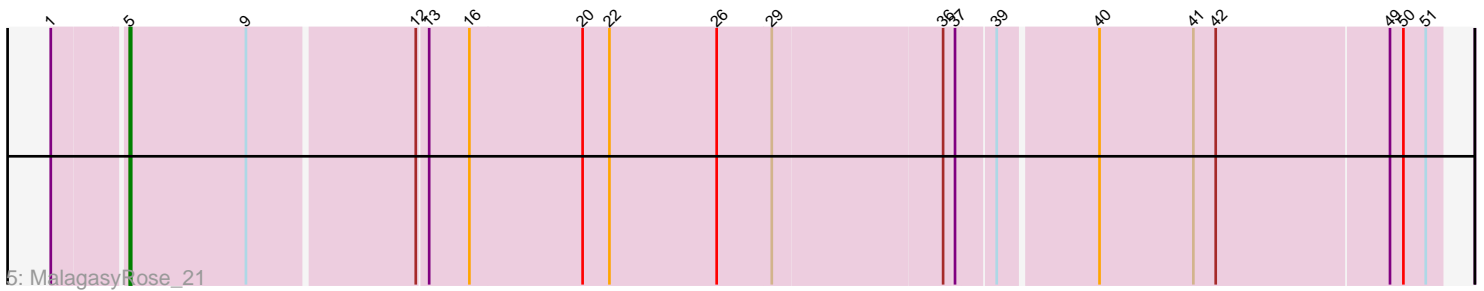
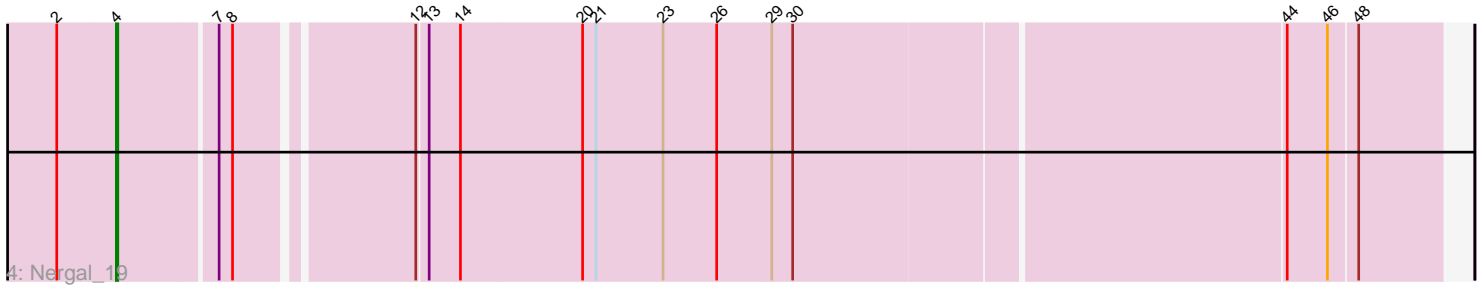
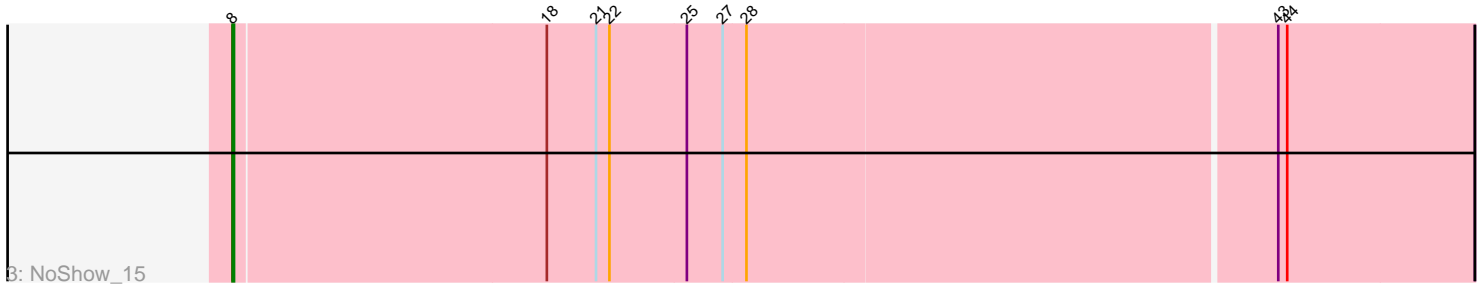
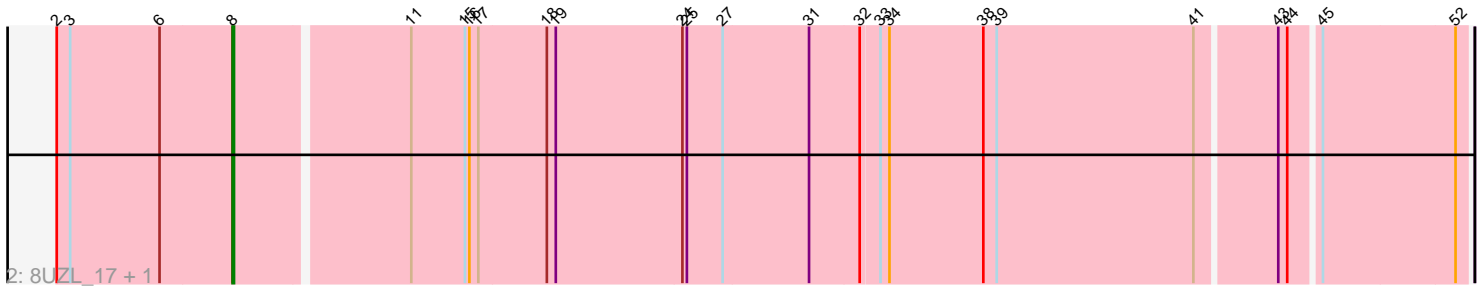
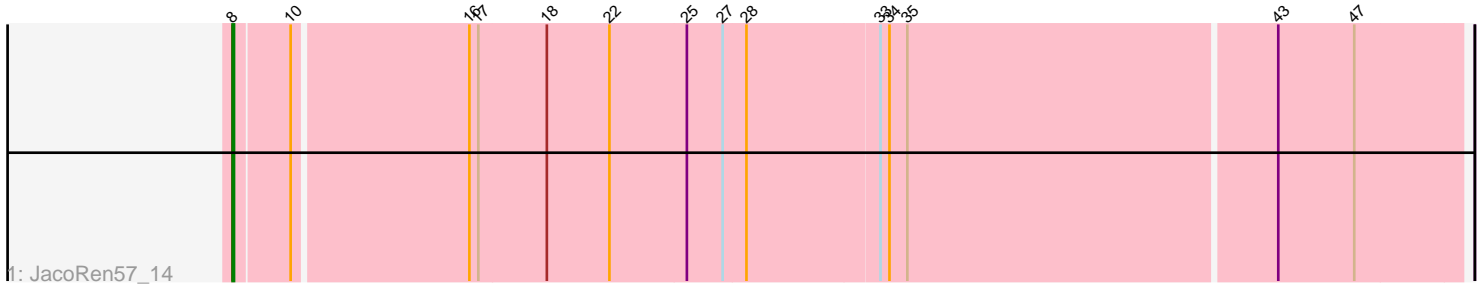


Pham 222159



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 222159 Report

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

Pham number 222159 has 6 members, 1 are drafts.

Phages represented in each track:

- Track 1 : JacoRen57\_14
- Track 2 : 8UZL\_17, Muddy\_17
- Track 3 : NoShow\_15
- Track 4 : Nergal\_19
- Track 5 : MalagasyRose\_21

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

The start number called the most often in the published annotations is 8, it was called in 3 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 8UZL\_17, JacoRen57\_14, Muddy\_17, NoShow\_15,

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

- Nergal\_19,

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

- MalagasyRose\_21,

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

Start 4:

- Found in 1 of 6 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nergal\_19 (AG),

Start 5:

- Found in 1 of 6 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MalagasyRose\_21 (AG),

Start 8:

- Found in 5 of 6 ( 83.3% ) of genes in pham
- Manual Annotations of this start: 3 of 5
- Called 80.0% of time when present
- Phage (with cluster) where this start called: 8UZL\_17 (AB), JacoRen57\_14 (AB), Muddy\_17 (AB), NoShow\_15 (AB),

**Summary by clusters:**

There are 2 clusters represented in this pham: AB, AG,

Info for manual annotations of cluster AB:

- Start number 8 was manually annotated 3 times for cluster AB.

Info for manual annotations of cluster AG:

- Start number 4 was manually annotated 1 time for cluster AG.
- Start number 5 was manually annotated 1 time for cluster AG.

**Gene Information:**

Gene: 8UZL\_17 Start: 10640, Stop: 11439, Start Num: 8

Candidate Starts for 8UZL\_17:

(2, 10523), (3, 10532), (6, 10592), (Start: 8 @10640 has 3 MA's), (11, 10751), (15, 10787), (16, 10790), (17, 10796), (18, 10841), (19, 10847), (24, 10931), (25, 10934), (27, 10958), (31, 11015), (32, 11048), (33, 11060), (34, 11066), (38, 11129), (39, 11138), (41, 11270), (43, 11321), (44, 11327), (45, 11345), (52, 11432),

Gene: JacoRen57\_14 Start: 9095, Stop: 9897, Start Num: 8

Candidate Starts for JacoRen57\_14:

(Start: 8 @9095 has 3 MA's), (10, 9131), (16, 9245), (17, 9251), (18, 9296), (22, 9338), (25, 9389), (27, 9413), (28, 9428), (33, 9515), (34, 9521), (35, 9533), (43, 9776), (47, 9827),

Gene: MalagasyRose\_21 Start: 11606, Stop: 12456, Start Num: 5

Candidate Starts for MalagasyRose\_21:

(1, 11561), (Start: 5 @11606 has 1 MA's), (9, 11684), (12, 11792), (13, 11798), (16, 11825), (20, 11900), (22, 11918), (26, 11990), (29, 12026), (36, 12137), (37, 12143), (39, 12167), (40, 12230), (41, 12293), (42, 12308), (49, 12422), (50, 12431), (51, 12446),

Gene: Muddy\_17 Start: 10848, Stop: 11647, Start Num: 8

Candidate Starts for Muddy\_17:

(2, 10731), (3, 10740), (6, 10800), (Start: 8 @10848 has 3 MA's), (11, 10959), (15, 10995), (16, 10998), (17, 11004), (18, 11049), (19, 11055), (24, 11139), (25, 11142), (27, 11166), (31, 11223), (32, 11256), (33, 11268), (34, 11274), (38, 11337), (39, 11346), (41, 11478), (43, 11529), (44, 11535), (45, 11553), (52, 11640),

Gene: Nergal\_19 Start: 12091, Stop: 12935, Start Num: 4

Candidate Starts for Nergal\_19:

(2, 12052), (Start: 4 @12091 has 1 MA's), (7, 12154), (Start: 8 @12163 has 3 MA's), (12, 12271), (13, 12277), (14, 12298), (20, 12379), (21, 12388), (23, 12433), (26, 12469), (29, 12505), (30, 12517), (44, 12835), (46, 12862), (48, 12880),

Gene: NoShow\_15 Start: 9392, Stop: 10209, Start Num: 8

Candidate Starts for NoShow\_15:

(Start: 8 @9392 has 3 MA's), (18, 9599), (21, 9632), (22, 9641), (25, 9692), (27, 9716), (28, 9731), (43, 10079), (44, 10085),