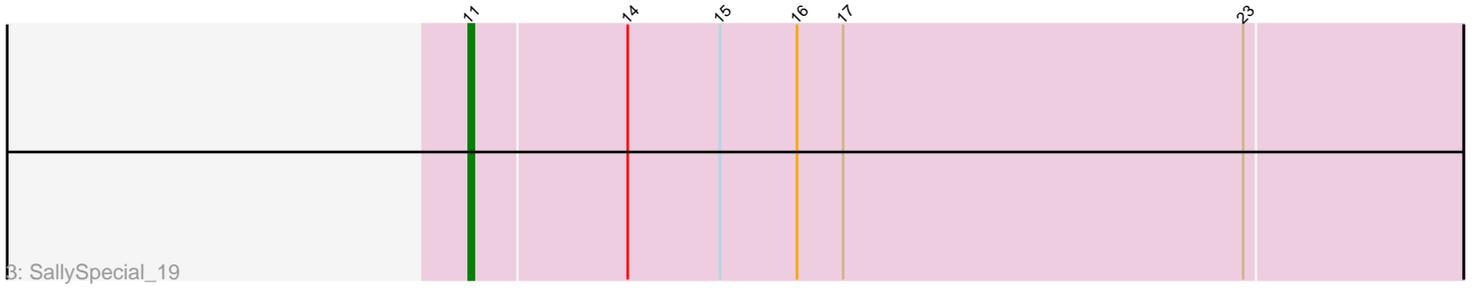
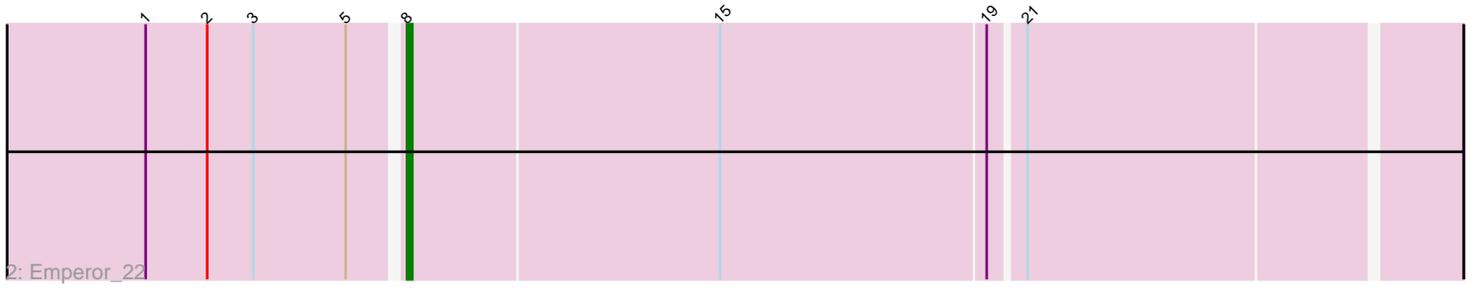
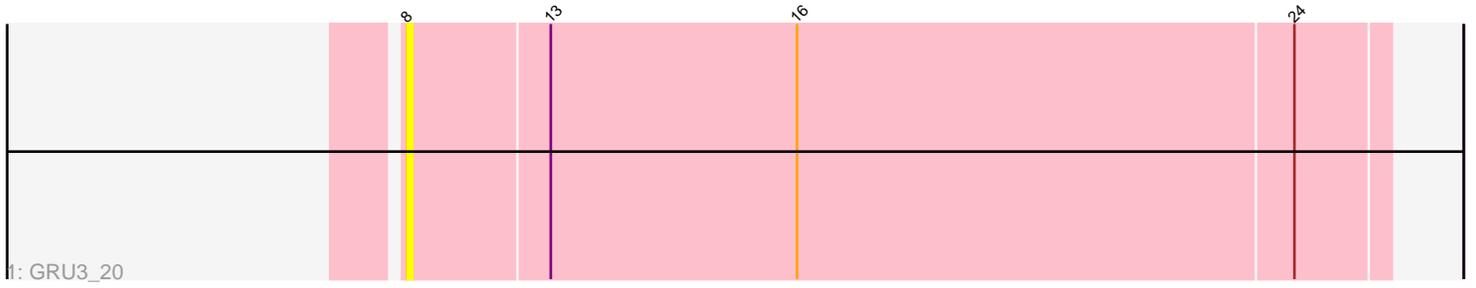


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 225309 Report

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

Pham number 225309 has 5 members, 2 are drafts.

Phages represented in each track:

- Track 1 : GRU3\_20
- Track 2 : Emperor\_22
- Track 3 : SallySpecial\_19
- Track 4 : Barebow\_20
- Track 5 : CyranoPS\_19

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

The start number called the most often in the published annotations is 4, it was called in 1 of the 3 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Barebow\_20,

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

- 

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

- CyranoPS\_19, Emperor\_22, GRU3\_20, SallySpecial\_19,

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

Start 4:

- Found in 1 of 5 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 1 of 3
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barebow\_20 (singleton),

Start 6:

- 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: CyranoPS\_19 (singleton),

Start 8:

- Found in 2 of 5 ( 40.0% ) of genes in pham
- Manual Annotations of this start: 1 of 3
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Emperor\_22 (DM), GRU3\_20 (CW2),

Start 11:

- Found in 2 of 5 ( 40.0% ) of genes in pham
- Manual Annotations of this start: 1 of 3
- Called 50.0% of time when present
- Phage (with cluster) where this start called: SallySpecial\_19 (DM),

**Summary by clusters:**

There are 3 clusters represented in this pham: singleton, DM, CW2,

Info for manual annotations of cluster DM:

- Start number 8 was manually annotated 1 time for cluster DM.
- Start number 11 was manually annotated 1 time for cluster DM.

**Gene Information:**

Gene: Barebow\_20 Start: 15759, Stop: 15971, Start Num: 4

Candidate Starts for Barebow\_20:

(Start: 4 @15759 has 1 MA's), (7, 15774), (9, 15783), (10, 15789), (13, 15807), (20, 15894), (25, 15960),

Gene: CyranoPS\_19 Start: 12813, Stop: 13016, Start Num: 6

Candidate Starts for CyranoPS\_19:

(6, 12813), (Start: 11 @12831 has 1 MA's), (12, 12843), (18, 12906), (20, 12933), (21, 12939), (22, 12948),

Gene: Emperor\_22 Start: 15163, Stop: 15360, Start Num: 8

Candidate Starts for Emperor\_22:

(1, 15115), (2, 15127), (3, 15136), (5, 15154), (Start: 8 @15163 has 1 MA's), (15, 15223), (19, 15274), (21, 15280),

Gene: GRU3\_20 Start: 14761, Stop: 14949, Start Num: 8

Candidate Starts for GRU3\_20:

(Start: 8 @14761 has 1 MA's), (13, 14788), (16, 14836), (24, 14932),

Gene: SallySpecial\_19 Start: 14475, Stop: 14666, Start Num: 11

Candidate Starts for SallySpecial\_19:

(Start: 11 @14475 has 1 MA's), (14, 14505), (15, 14523), (16, 14538), (17, 14547), (23, 14625),