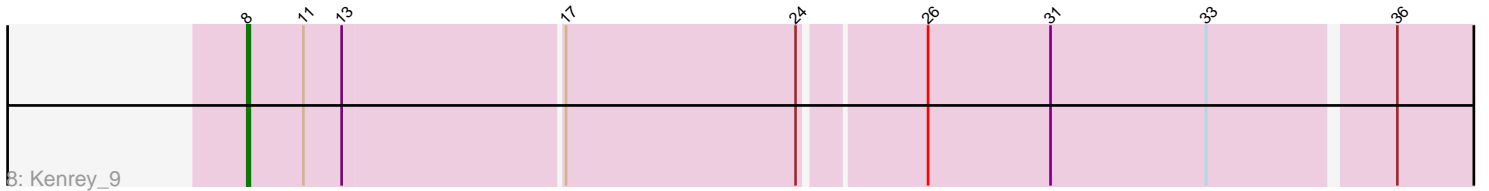
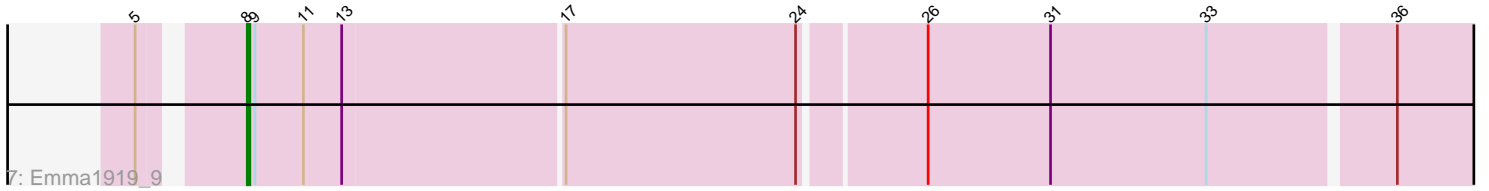
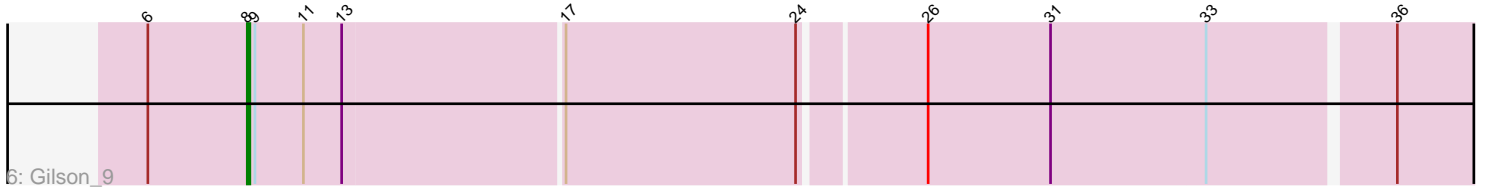
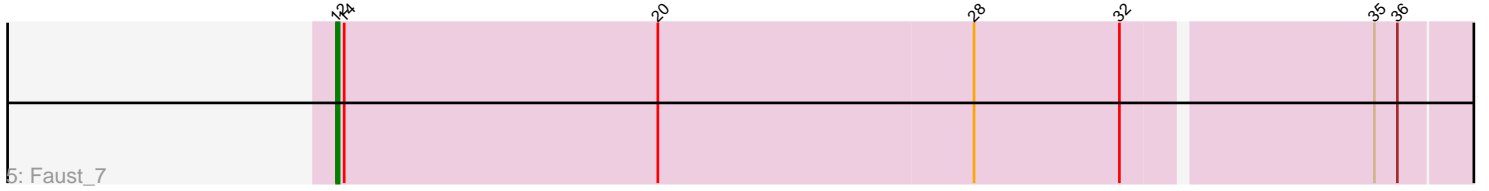
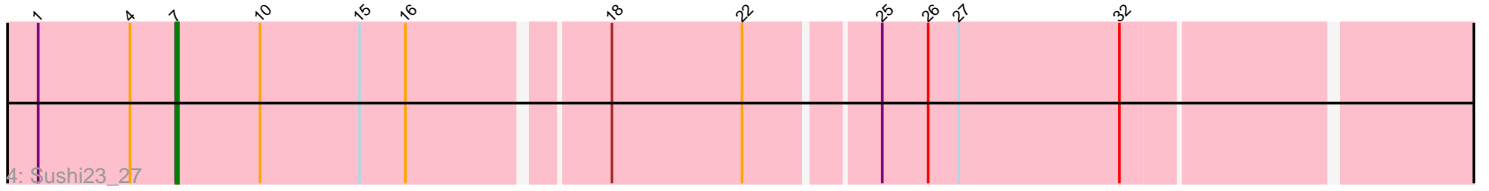
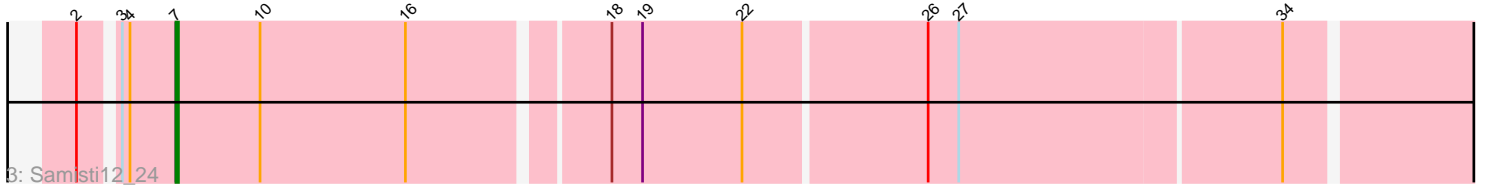
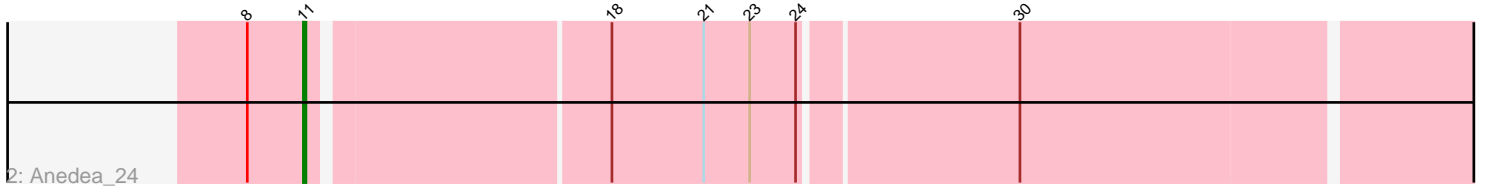
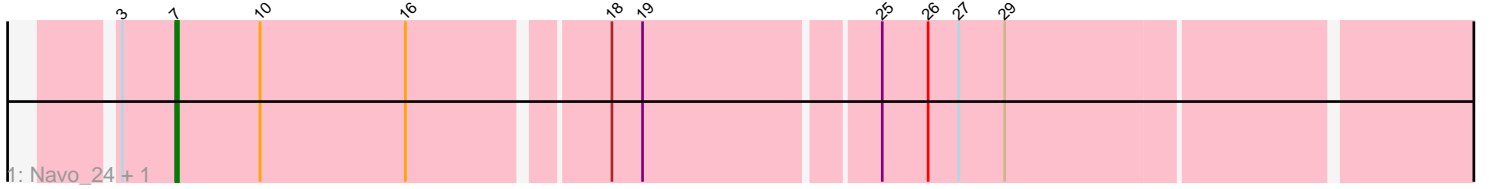


Pham 170539



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 170539 Report

This analysis was run 07/09/24 on database version 566.

Pham number 170539 has 9 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Navo\_24, Braelyn\_25
- Track 2 : Anedea\_24
- Track 3 : Samisti12\_24
- Track 4 : Sushi23\_27
- Track 5 : Faust\_7
- Track 6 : Gilson\_9
- Track 7 : Emma1919\_9
- Track 8 : Kenrey\_9

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

The start number called the most often in the published annotations is 7, it was called in 4 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Braelyn\_25, Navo\_24, Samisti12\_24, Sushi23\_27,

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

- 

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

- Anedea\_24, Emma1919\_9, Faust\_7, Gilson\_9, Kenrey\_9,

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

Start 7:

- Found in 4 of 9 ( 44.4% ) of genes in pham
- Manual Annotations of this start: 4 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Braelyn\_25 (BE1), Navo\_24 (BE1), Samisti12\_24 (BE1), Sushi23\_27 (BE1),

Start 8:

- Found in 4 of 9 ( 44.4% ) of genes in pham

- Manual Annotations of this start: 3 of 9
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Emma1919\_9 (BK1), Gilson\_9 (BK1), Kenrey\_9 (BK1),

Start 11:

- Found in 4 of 9 ( 44.4% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Anedea\_24 (BE1),

Start 12:

- Found in 1 of 9 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Faust\_7 (BK1),

### **Summary by clusters:**

There are 2 clusters represented in this pham: BE1, BK1,

Info for manual annotations of cluster BE1:

- Start number 7 was manually annotated 4 times for cluster BE1.
- Start number 11 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster BK1:

- Start number 8 was manually annotated 3 times for cluster BK1.
- Start number 12 was manually annotated 1 time for cluster BK1.

### **Gene Information:**

Gene: Anedea\_24 Start: 11947, Stop: 11501, Start Num: 11

Candidate Starts for Anedea\_24:

(Start: 8 @11968 has 3 MA's), (Start: 11 @11947 has 1 MA's), (18, 11836), (21, 11800), (23, 11782), (24, 11764), (30, 11683),

Gene: Braelyn\_25 Start: 12292, Stop: 11798, Start Num: 7

Candidate Starts for Braelyn\_25:

(3, 12313), (Start: 7 @12292 has 4 MA's), (10, 12259), (16, 12202), (18, 12130), (19, 12118), (25, 12031), (26, 12013), (27, 12001), (29, 11983),

Gene: Emma1919\_9 Start: 3441, Stop: 2968, Start Num: 8

Candidate Starts for Emma1919\_9:

(5, 3474), (Start: 8 @3441 has 3 MA's), (9, 3438), (Start: 11 @3420 has 1 MA's), (13, 3405), (17, 3321), (24, 3231), (26, 3186), (31, 3138), (33, 3078), (36, 3009),

Gene: Faust\_7 Start: 2866, Stop: 2429, Start Num: 12

Candidate Starts for Faust\_7:

(Start: 12 @2866 has 1 MA's), (14, 2863), (20, 2740), (28, 2617), (32, 2560), (35, 2467), (36, 2458),

Gene: Gilson\_9 Start: 3438, Stop: 2965, Start Num: 8

Candidate Starts for Gilson\_9:

(6, 3477), (Start: 8 @3438 has 3 MA's), (9, 3435), (Start: 11 @3417 has 1 MA's), (13, 3402), (17, 3318), (24, 3228), (26, 3183), (31, 3135), (33, 3075), (36, 3006),

Gene: Kenrey\_9 Start: 3499, Stop: 3026, Start Num: 8

Candidate Starts for Kenrey\_9:

(Start: 8 @3499 has 3 MA's), (Start: 11 @3478 has 1 MA's), (13, 3463), (17, 3379), (24, 3289), (26, 3244), (31, 3196), (33, 3136), (36, 3067),

Gene: Navo\_24 Start: 12055, Stop: 11561, Start Num: 7

Candidate Starts for Navo\_24:

(3, 12076), (Start: 7 @12055 has 4 MA's), (10, 12022), (16, 11965), (18, 11893), (19, 11881), (25, 11794), (26, 11776), (27, 11764), (29, 11746),

Gene: Samisti12\_24 Start: 12125, Stop: 11628, Start Num: 7

Candidate Starts for Samisti12\_24:

(2, 12158), (3, 12146), (4, 12143), (Start: 7 @12125 has 4 MA's), (10, 12092), (16, 12035), (18, 11963), (19, 11951), (22, 11912), (26, 11843), (27, 11831), (34, 11708),

Gene: Sushi23\_27 Start: 12530, Stop: 12036, Start Num: 7

Candidate Starts for Sushi23\_27:

(1, 12584), (4, 12548), (Start: 7 @12530 has 4 MA's), (10, 12497), (15, 12458), (16, 12440), (18, 12368), (22, 12317), (25, 12269), (26, 12251), (27, 12239), (32, 12176),