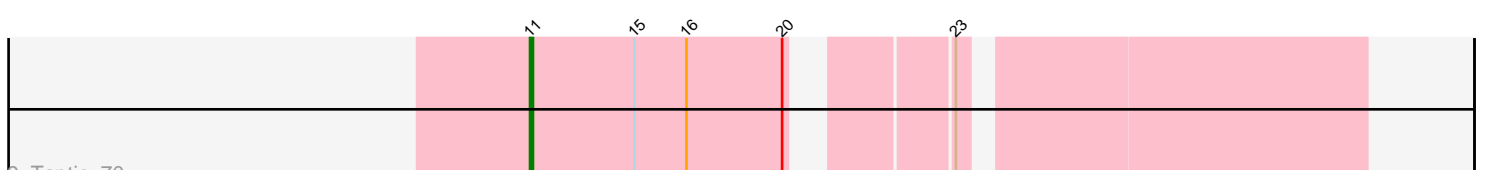
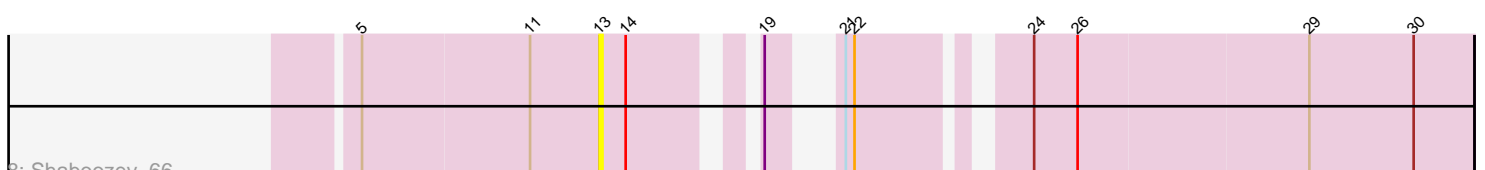
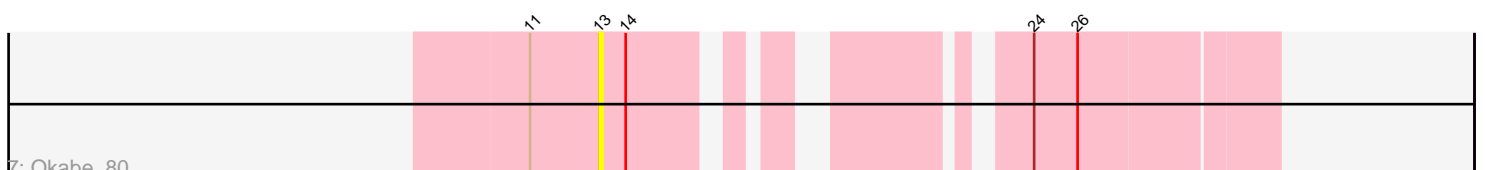
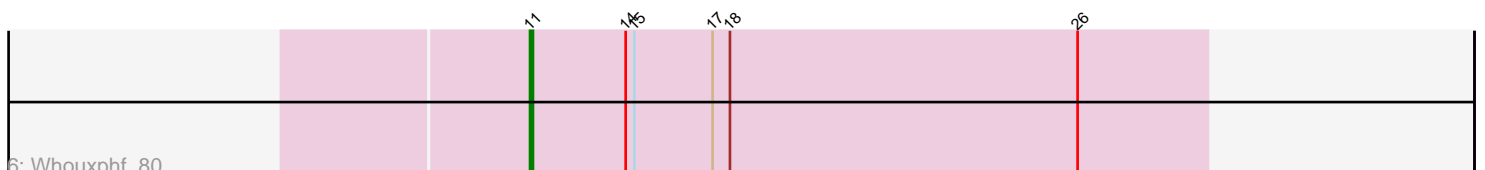
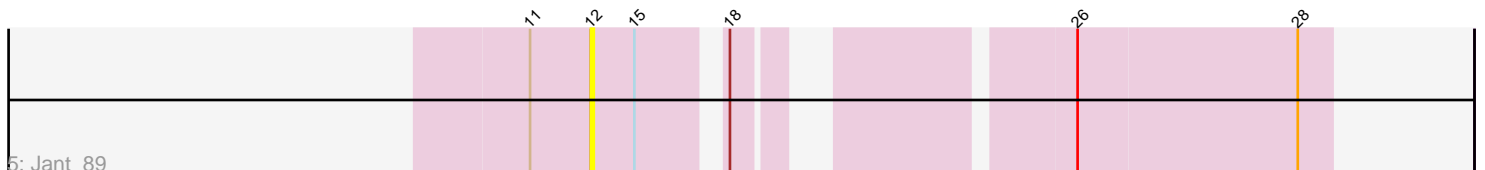
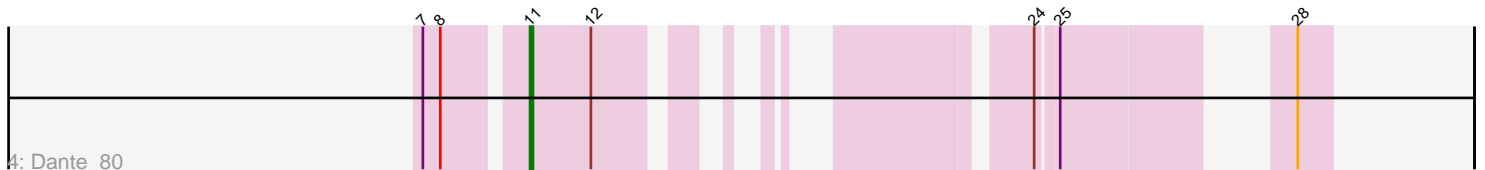
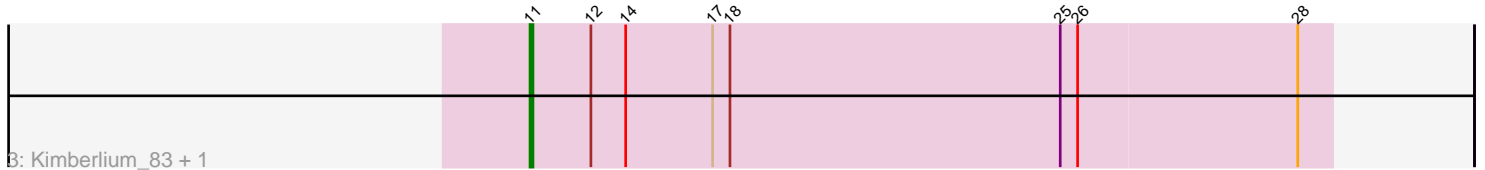
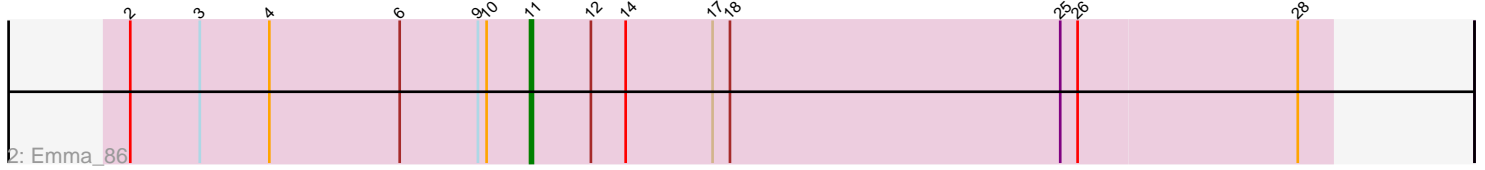
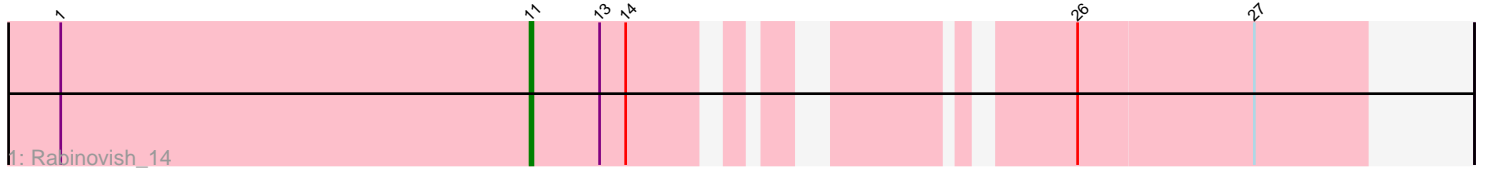


Pham 303880



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 303880 Report

This analysis was run 06/08/26 on database version 649.

Pham number 303880 has 10 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Rabinovish\_14
- Track 2 : Emma\_86
- Track 3 : Kimberlium\_83, MulchExplorer\_81
- Track 4 : Dante\_80
- Track 5 : Jant\_89
- Track 6 : Whouxphf\_80
- Track 7 : Okabe\_80
- Track 8 : Shaboozey\_66
- Track 9 : Taptic\_70

### ***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 7 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Dante\_80, Emma\_86, Kimberlium\_83, MulchExplorer\_81, Rabinovish\_14, Taptic\_70, Whouxphf\_80,

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

- Jant\_89, Okabe\_80, Shaboozey\_66,

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

- 

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

Start 11:

- Found in 10 of 10 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 7 of 7
- Called 70.0% of time when present
- Phage (with cluster) where this start called: Dante\_80 (F1), Emma\_86 (F1), Kimberlium\_83 (F1), MulchExplorer\_81 (F1), Rabinovish\_14 (C1), Taptic\_70 (W), Whouxphf\_80 (F1),

Start 12:

- Found in 5 of 10 ( 50.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Jant\_89 (F1),

Start 13:

- Found in 3 of 10 ( 30.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Okabe\_80 (F8), Shaboozey\_66 (J),

**Summary by clusters:**

There are 5 clusters represented in this pham: F8, F1, C1, J, W,

Info for manual annotations of cluster C1:

- Start number 11 was manually annotated 1 time for cluster C1.

Info for manual annotations of cluster F1:

- Start number 11 was manually annotated 5 times for cluster F1.

Info for manual annotations of cluster W:

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

**Gene Information:**

Gene: Dante\_80 Start: 50620, Stop: 50814, Start Num: 11

Candidate Starts for Dante\_80:

(7, 50590), (8, 50596), (Start: 11 @50620 has 7 MA's), (12, 50641), (24, 50740), (25, 50746), (28, 50803),

Gene: Emma\_86 Start: 48537, Stop: 48812, Start Num: 11

Candidate Starts for Emma\_86:

(2, 48399), (3, 48423), (4, 48447), (6, 48492), (9, 48519), (10, 48522), (Start: 11 @48537 has 7 MA's), (12, 48558), (14, 48570), (17, 48600), (18, 48606), (25, 48720), (26, 48726), (28, 48801),

Gene: Jant\_89 Start: 49469, Stop: 49687, Start Num: 12

Candidate Starts for Jant\_89:

(Start: 11 @49448 has 7 MA's), (12, 49469), (15, 49484), (18, 49508), (26, 49601), (28, 49676),

Gene: Kimberlium\_83 Start: 48559, Stop: 48834, Start Num: 11

Candidate Starts for Kimberlium\_83:

(Start: 11 @48559 has 7 MA's), (12, 48580), (14, 48592), (17, 48622), (18, 48628), (25, 48742), (26, 48748), (28, 48823),

Gene: MulchExplorer\_81 Start: 48230, Stop: 48505, Start Num: 11

Candidate Starts for MulchExplorer\_81:

(Start: 11 @48230 has 7 MA's), (12, 48251), (14, 48263), (17, 48293), (18, 48299), (25, 48413), (26, 48419), (28, 48494),

Gene: Okabe\_80 Start: 46676, Stop: 46864, Start Num: 13

Candidate Starts for Okabe\_80:

(Start: 11 @46652 has 7 MA's), (13, 46676), (14, 46685), (24, 46784), (26, 46799),

Gene: Rabinovish\_14 Start: 5789, Stop: 6034, Start Num: 11

Candidate Starts for Rabinovish\_14:

(1, 5627), (Start: 11 @5789 has 7 MA's), (13, 5813), (14, 5822), (26, 5936), (27, 5996),

Gene: Shaboozey\_66 Start: 44922, Stop: 44668, Start Num: 13

Candidate Starts for Shaboozey\_66:

(5, 45003), (Start: 11 @44946 has 7 MA's), (13, 44922), (14, 44913), (19, 44880), (21, 44868), (22, 44865), (24, 44817), (26, 44802), (29, 44724), (30, 44688),

Gene: Taptic\_70 Start: 50486, Stop: 50746, Start Num: 11

Candidate Starts for Taptic\_70:

(Start: 11 @50486 has 7 MA's), (15, 50522), (16, 50540), (20, 50573), (23, 50615),

Gene: Whouxphf\_80 Start: 49279, Stop: 49512, Start Num: 11

Candidate Starts for Whouxphf\_80:

(Start: 11 @49279 has 7 MA's), (14, 49312), (15, 49315), (17, 49342), (18, 49348), (26, 49468),