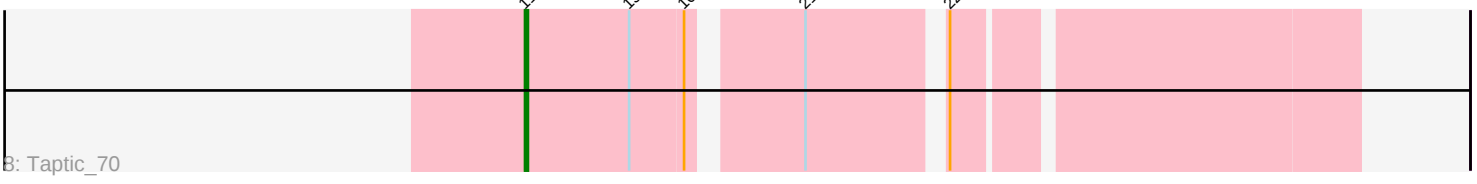
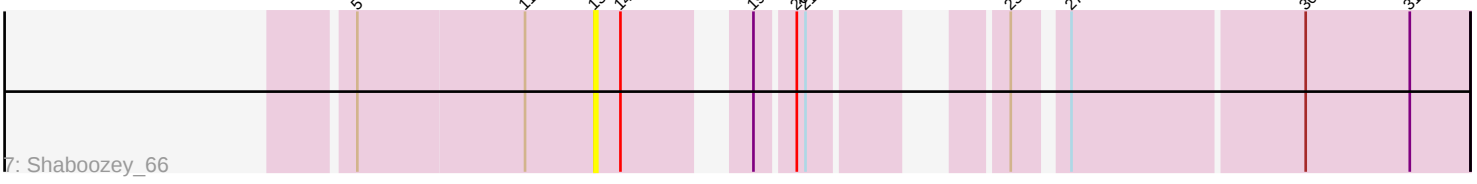
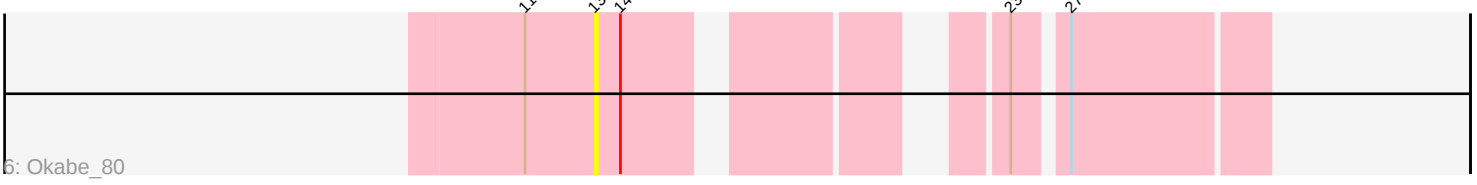
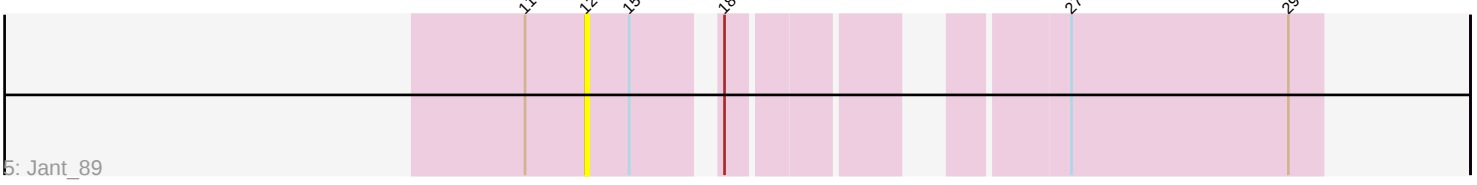
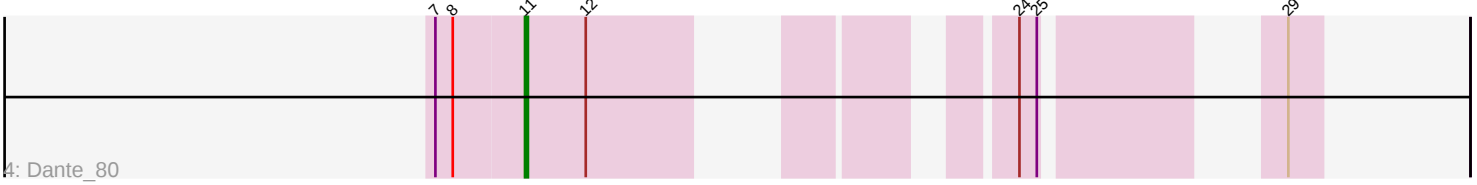
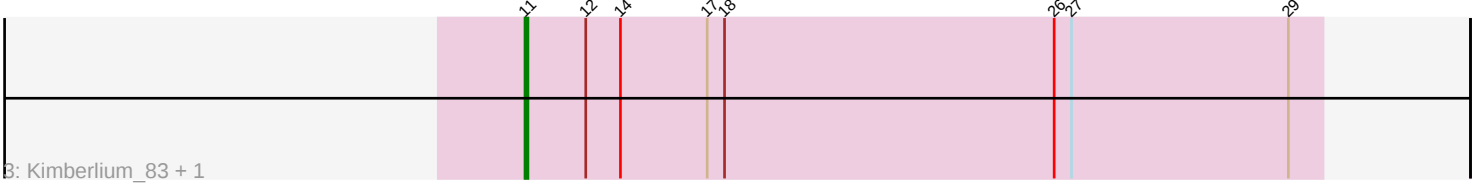
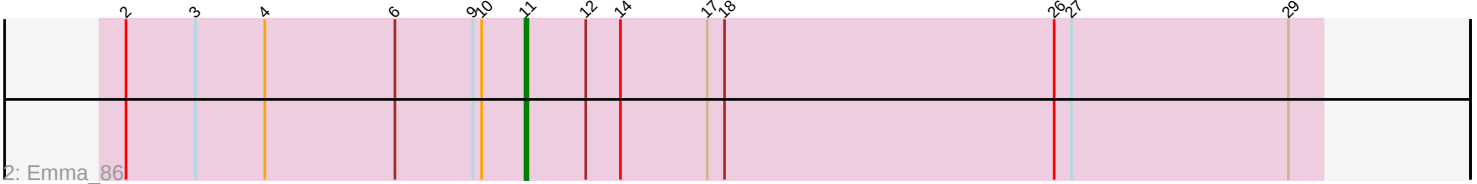
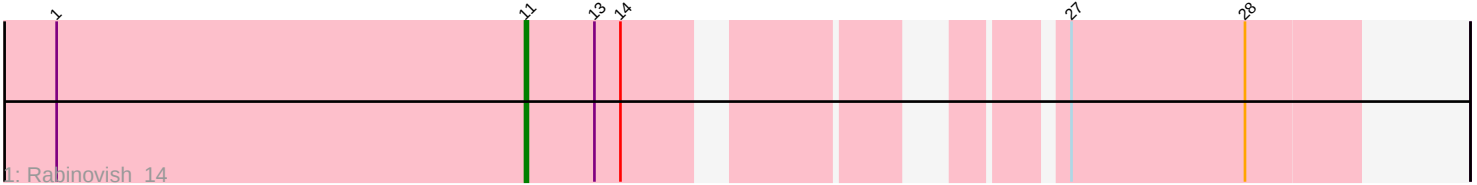


Pham 312284



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 312284 Report

This analysis was run 09/05/26 on database version 662.

Pham number 312284 has 9 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 : Okabe_80
- Track 7 : Shaboozey_66
- Track 8 : 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 6 of the 6 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,

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:

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Summary by start number:

Start 11:

- Found in 9 of 9 (100.0%) of genes in pham
- Manual Annotations of this start: 6 of 6
- Called 66.7% 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),

Start 12:

- Found in 5 of 9 (55.6%) 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 9 (33.3%) 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 4 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 6 MA's), (12, 50641), (24, 50740), (25, 50746), (29, 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 6 MA's), (12, 48558), (14, 48570), (17, 48600), (18, 48606), (26, 48720), (27, 48726), (29, 48801),

Gene: Jant_89 Start: 49469, Stop: 49687, Start Num: 12

Candidate Starts for Jant_89:

(Start: 11 @49448 has 6 MA's), (12, 49469), (15, 49484), (18, 49508), (27, 49601), (29, 49676),

Gene: Kimberlium_83 Start: 48559, Stop: 48834, Start Num: 11

Candidate Starts for Kimberlium_83:

(Start: 11 @48559 has 6 MA's), (12, 48580), (14, 48592), (17, 48622), (18, 48628), (26, 48742), (27, 48748), (29, 48823),

Gene: MulchExplorer_81 Start: 48230, Stop: 48505, Start Num: 11

Candidate Starts for MulchExplorer_81:

(Start: 11 @48230 has 6 MA's), (12, 48251), (14, 48263), (17, 48293), (18, 48299), (26, 48413), (27, 48419), (29, 48494),

Gene: Okabe_80 Start: 46676, Stop: 46864, Start Num: 13

Candidate Starts for Okabe_80:

(Start: 11 @46652 has 6 MA's), (13, 46676), (14, 46685), (23, 46784), (27, 46799),

Gene: Rabinovish_14 Start: 5789, Stop: 6034, Start Num: 11

Candidate Starts for Rabinovish_14:

(1, 5627), (Start: 11 @5789 has 6 MA's), (13, 5813), (14, 5822), (27, 5936), (28, 5996),

Gene: Shaboozey_66 Start: 44922, Stop: 44668, Start Num: 13

Candidate Starts for Shaboozey_66:

(5, 45003), (Start: 11 @44946 has 6 MA's), (13, 44922), (14, 44913), (19, 44880), (20, 44868), (21, 44865), (23, 44817), (27, 44802), (30, 44724), (31, 44688),

Gene: Taptic_70 Start: 50486, Stop: 50746, Start Num: 11

Candidate Starts for Taptic_70:

(Start: 11 @50486 has 6 MA's), (15, 50522), (16, 50540), (21, 50573), (22, 50615),