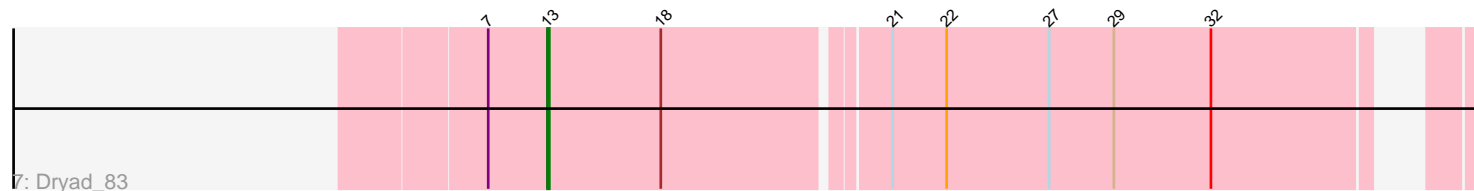
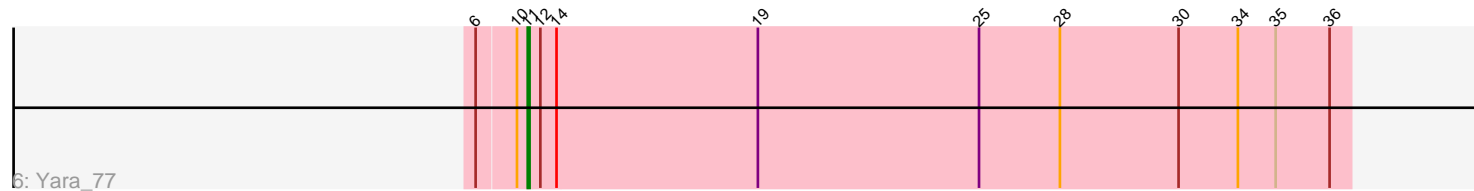
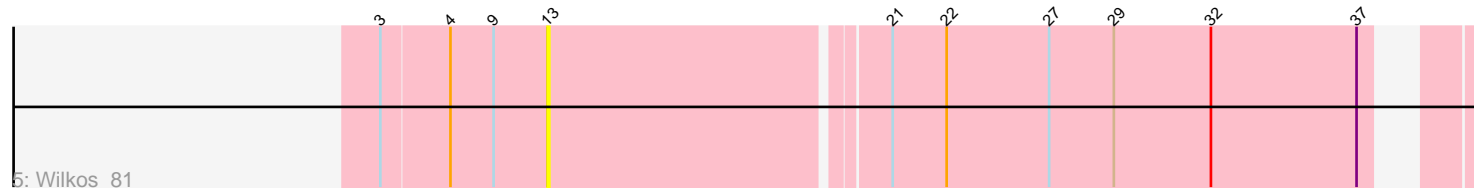
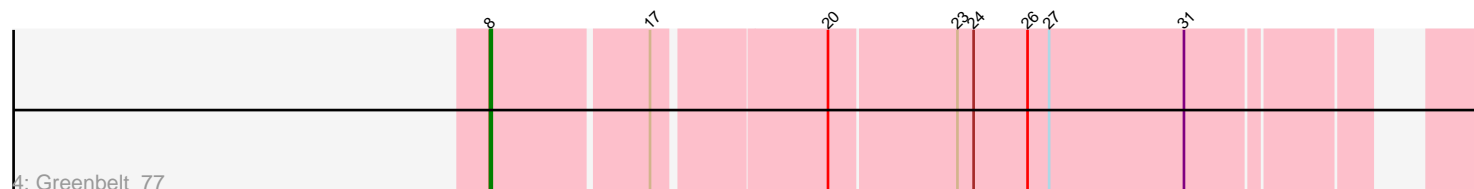
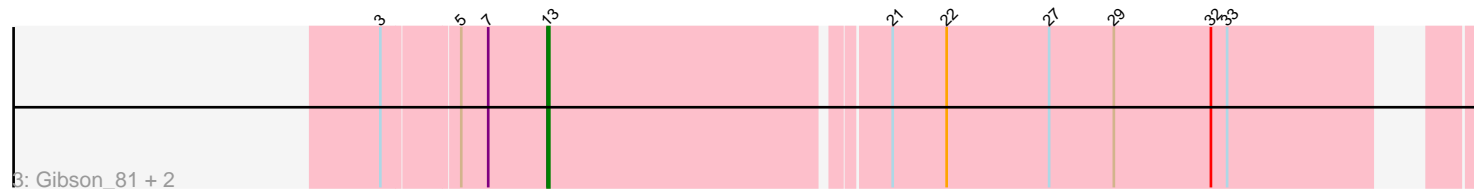
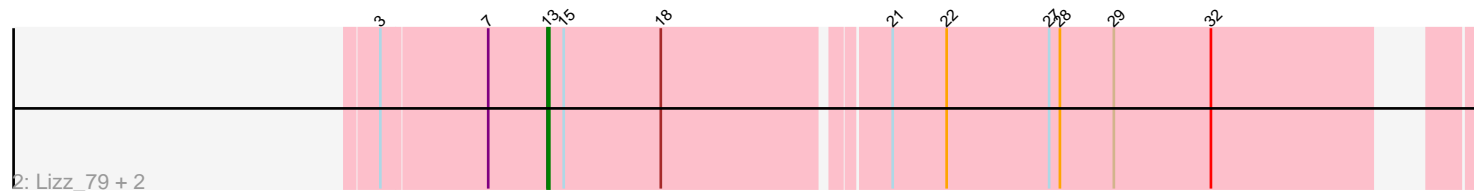
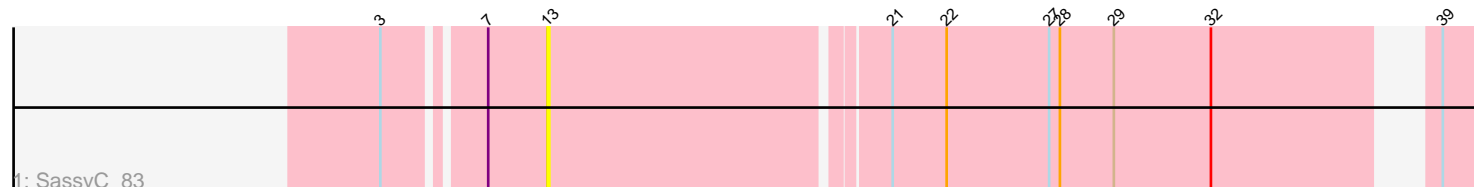


# Pham 239394



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 239394 Report

This analysis was run 02/07/26 on database version 634.

Pham number 239394 has 12 members, 3 are drafts.

Phages represented in each track:

- Track 1 : SassyC\_83
- Track 2 : Lizz\_79, PHTowN\_79, ShakeNBake\_79
- Track 3 : Gibson\_81, Rooney\_81, Virizion\_87
- Track 4 : Greenbelt\_77
- Track 5 : Wilkos\_81
- Track 6 : Yara\_77
- Track 7 : Dryad\_83
- Track 8 : Wentworth\_78

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

The start number called the most often in the published annotations is 13, it was called in 7 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Dryad\_83, Gibson\_81, Lizz\_79, PHTowN\_79, Rooney\_81, SassyC\_83, ShakeNBake\_79, Virizion\_87, Wentworth\_78, Wilkos\_81,

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

- 

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

- Greenbelt\_77, Yara\_77,

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

Start 8:

- Found in 1 of 12 ( 8.3% ) 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: Greenbelt\_77 (BN),

Start 11:

- Found in 1 of 12 ( 8.3% ) 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: Yara\_77 (BN),

Start 13:

- Found in 10 of 12 ( 83.3% ) of genes in pham
- Manual Annotations of this start: 7 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dryad\_83 (BN), Gibson\_81 (BN), Lizz\_79 (BN), PHTowN\_79 (BN), Rooney\_81 (BN), SassyC\_83 (BN), ShakeNBake\_79 (BN), Virizion\_87 (BN), Wentworth\_78 (BN), Wilkos\_81 (BN),

### **Summary by clusters:**

There is one cluster represented in this pham: BN

Info for manual annotations of cluster BN:

- Start number 8 was manually annotated 1 time for cluster BN.
- Start number 11 was manually annotated 1 time for cluster BN.
- Start number 13 was manually annotated 7 times for cluster BN.

### **Gene Information:**

Gene: Dryad\_83 Start: 54825, Stop: 54355, Start Num: 13

Candidate Starts for Dryad\_83:

(7, 54858), (Start: 13 @54825 has 7 MA's), (18, 54762), (21, 54645), (22, 54615), (27, 54558), (29, 54522), (32, 54468),

Gene: Gibson\_81 Start: 54626, Stop: 54153, Start Num: 13

Candidate Starts for Gibson\_81:

(3, 54713), (5, 54674), (7, 54659), (Start: 13 @54626 has 7 MA's), (21, 54446), (22, 54416), (27, 54359), (29, 54323), (32, 54269), (33, 54260),

Gene: Greenbelt\_77 Start: 50420, Stop: 49926, Start Num: 8

Candidate Starts for Greenbelt\_77:

(Start: 8 @50420 has 1 MA's), (17, 50336), (20, 50246), (23, 50177), (24, 50168), (26, 50138), (27, 50126), (31, 50051),

Gene: Lizz\_79 Start: 54283, Stop: 53810, Start Num: 13

Candidate Starts for Lizz\_79:

(3, 54373), (7, 54316), (Start: 13 @54283 has 7 MA's), (15, 54274), (18, 54220), (21, 54103), (22, 54073), (27, 54016), (28, 54010), (29, 53980), (32, 53926),

Gene: PHTowN\_79 Start: 54281, Stop: 53808, Start Num: 13

Candidate Starts for PHTowN\_79:

(3, 54371), (7, 54314), (Start: 13 @54281 has 7 MA's), (15, 54272), (18, 54218), (21, 54101), (22, 54071), (27, 54014), (28, 54008), (29, 53978), (32, 53924),

Gene: Rooney\_81 Start: 54632, Stop: 54129, Start Num: 13

Candidate Starts for Rooney\_81:

(3, 54719), (5, 54680), (7, 54665), (Start: 13 @54632 has 7 MA's), (21, 54452), (22, 54422), (27, 54365), (29, 54329), (32, 54275), (33, 54266),

Gene: SassyC\_83 Start: 54649, Stop: 54173, Start Num: 13

Candidate Starts for SassyC\_83:

(3, 54730), (7, 54682), (Start: 13 @54649 has 7 MA's), (21, 54469), (22, 54439), (27, 54382), (28, 54376), (29, 54346), (32, 54292), (39, 54193),

Gene: ShakeNBake\_79 Start: 54308, Stop: 53835, Start Num: 13

Candidate Starts for ShakeNBake\_79:

(3, 54398), (7, 54341), (Start: 13 @54308 has 7 MA's), (15, 54299), (18, 54245), (21, 54128), (22, 54098), (27, 54041), (28, 54035), (29, 54005), (32, 53951),

Gene: Virizion\_87 Start: 54822, Stop: 54349, Start Num: 13

Candidate Starts for Virizion\_87:

(3, 54909), (5, 54870), (7, 54855), (Start: 13 @54822 has 7 MA's), (21, 54642), (22, 54612), (27, 54555), (29, 54519), (32, 54465), (33, 54456),

Gene: Wentworth\_78 Start: 53720, Stop: 53238, Start Num: 13

Candidate Starts for Wentworth\_78:

(1, 53981), (2, 53855), (3, 53807), (7, 53753), (Start: 13 @53720 has 7 MA's), (16, 53687), (18, 53657), (21, 53540), (22, 53510), (27, 53453), (28, 53447), (29, 53417), (32, 53363), (38, 53270),

Gene: Wilkos\_81 Start: 54217, Stop: 53741, Start Num: 13

Candidate Starts for Wilkos\_81:

(3, 54307), (4, 54271), (9, 54247), (Start: 13 @54217 has 7 MA's), (21, 54037), (22, 54007), (27, 53950), (29, 53914), (32, 53860), (37, 53779),

Gene: Yara\_77 Start: 53360, Stop: 52905, Start Num: 11

Candidate Starts for Yara\_77:

(6, 53387), (10, 53366), (Start: 11 @53360 has 1 MA's), (12, 53354), (14, 53345), (19, 53234), (25, 53111), (28, 53066), (30, 53000), (34, 52967), (35, 52946), (36, 52916),