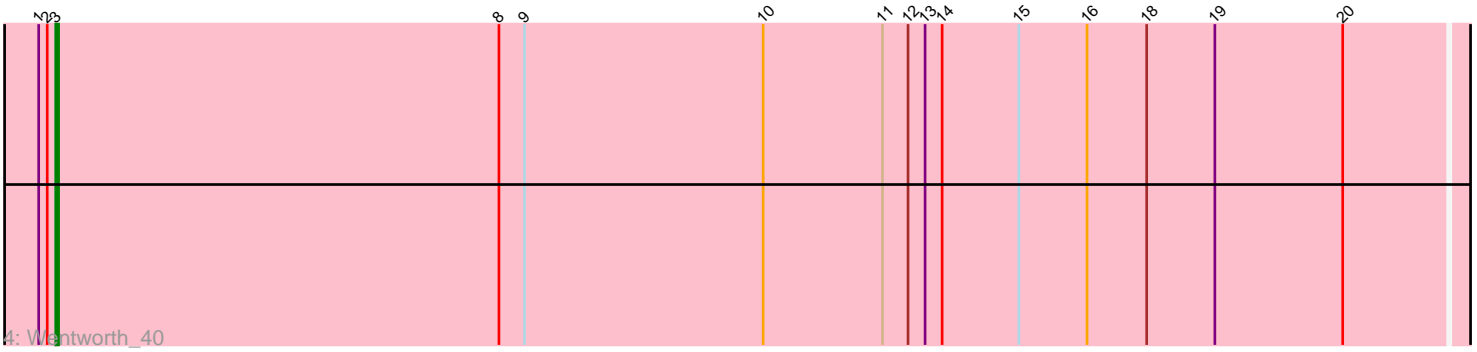
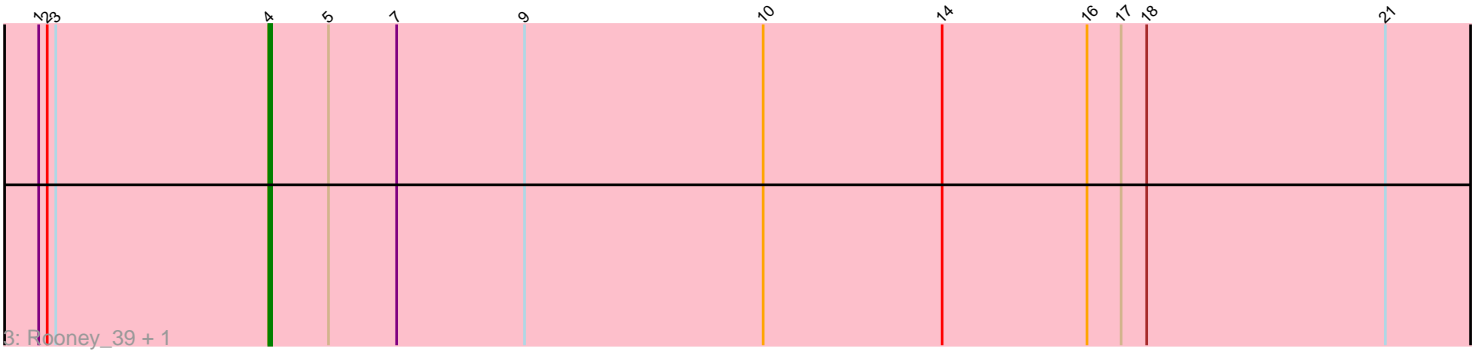
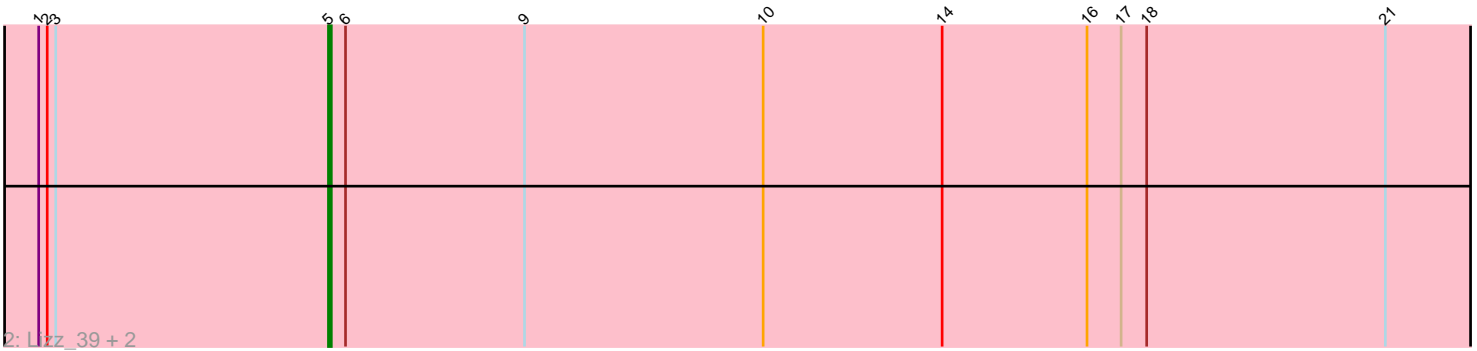
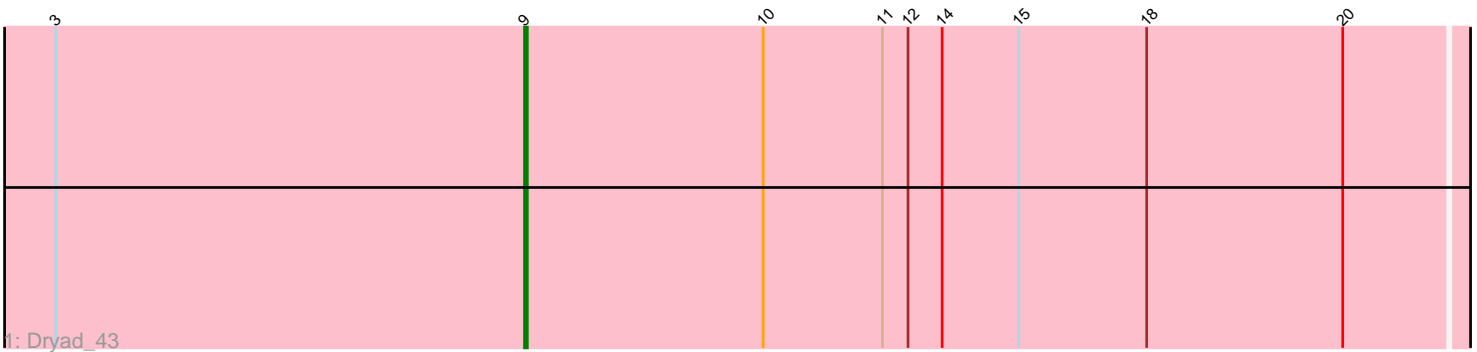


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 87928 Report

This analysis was run 04/28/24 on database version 559.

Pham number 87928 has 7 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Dryad\_43
- Track 2 : Lizz\_39, PHTowN\_39, ShakeNBake\_39
- Track 3 : Rooney\_39, Gibson\_39
- Track 4 : Wentworth\_40

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

The start number called the most often in the published annotations is 5, it was called in 3 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Lizz\_39, PHTowN\_39, ShakeNBake\_39,

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

- Gibson\_39, Rooney\_39,

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

- Dryad\_43, Wentworth\_40,

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

Start 3:

- Found in 7 of 7 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Wentworth\_40 (BN),

Start 4:

- Found in 2 of 7 ( 28.6% ) of genes in pham
- Manual Annotations of this start: 2 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gibson\_39 (BN), Rooney\_39 (BN),

Start 5:

- Found in 5 of 7 ( 71.4% ) of genes in pham
- Manual Annotations of this start: 3 of 7
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Lizz\_39 (BN), PHTowN\_39 (BN), ShakeNBake\_39 (BN),

Start 9:

- Found in 7 of 7 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Dryad\_43 (BN),

### **Summary by clusters:**

There is one cluster represented in this pham: BN

Info for manual annotations of cluster BN:

- Start number 3 was manually annotated 1 time for cluster BN.
- Start number 4 was manually annotated 2 times for cluster BN.
- Start number 5 was manually annotated 3 times for cluster BN.
- Start number 9 was manually annotated 1 time for cluster BN.

### **Gene Information:**

Gene: Dryad\_43 Start: 32182, Stop: 31844, Start Num: 9

Candidate Starts for Dryad\_43:

(Start: 3 @32347 has 1 MA's), (Start: 9 @32182 has 1 MA's), (10, 32098), (11, 32056), (12, 32047), (14, 32035), (15, 32008), (18, 31963), (20, 31894),

Gene: Gibson\_39 Start: 31781, Stop: 31350, Start Num: 4

Candidate Starts for Gibson\_39:

(1, 31862), (2, 31859), (Start: 3 @31856 has 1 MA's), (Start: 4 @31781 has 2 MA's), (Start: 5 @31760 has 3 MA's), (7, 31736), (Start: 9 @31691 has 1 MA's), (10, 31607), (14, 31544), (16, 31493), (17, 31481), (18, 31472), (21, 31388),

Gene: Lizz\_39 Start: 31574, Stop: 31164, Start Num: 5

Candidate Starts for Lizz\_39:

(1, 31676), (2, 31673), (Start: 3 @31670 has 1 MA's), (Start: 5 @31574 has 3 MA's), (6, 31568), (Start: 9 @31505 has 1 MA's), (10, 31421), (14, 31358), (16, 31307), (17, 31295), (18, 31286), (21, 31202),

Gene: PHTowN\_39 Start: 31572, Stop: 31162, Start Num: 5

Candidate Starts for PHTowN\_39:

(1, 31674), (2, 31671), (Start: 3 @31668 has 1 MA's), (Start: 5 @31572 has 3 MA's), (6, 31566), (Start: 9 @31503 has 1 MA's), (10, 31419), (14, 31356), (16, 31305), (17, 31293), (18, 31284), (21, 31200),

Gene: Rooney\_39 Start: 31778, Stop: 31347, Start Num: 4

Candidate Starts for Rooney\_39:

(1, 31859), (2, 31856), (Start: 3 @31853 has 1 MA's), (Start: 4 @31778 has 2 MA's), (Start: 5 @31757 has 3 MA's), (7, 31733), (Start: 9 @31688 has 1 MA's), (10, 31604), (14, 31541), (16, 31490), (17, 31478), (18, 31469), (21, 31385),

Gene: ShakeNBake\_39 Start: 31590, Stop: 31180, Start Num: 5

Candidate Starts for ShakeNBake\_39:

(1, 31692), (2, 31689), (Start: 3 @31686 has 1 MA's), (Start: 5 @31590 has 3 MA's), (6, 31584), (Start: 9 @31521 has 1 MA's), (10, 31437), (14, 31374), (16, 31323), (17, 31311), (18, 31302), (21, 31218),

Gene: Wentworth\_40 Start: 32155, Stop: 31652, Start Num: 3

Candidate Starts for Wentworth\_40:

(1, 32161), (2, 32158), (Start: 3 @32155 has 1 MA's), (8, 31999), (Start: 9 @31990 has 1 MA's), (10, 31906), (11, 31864), (12, 31855), (13, 31849), (14, 31843), (15, 31816), (16, 31792), (18, 31771), (19, 31747), (20, 31702),