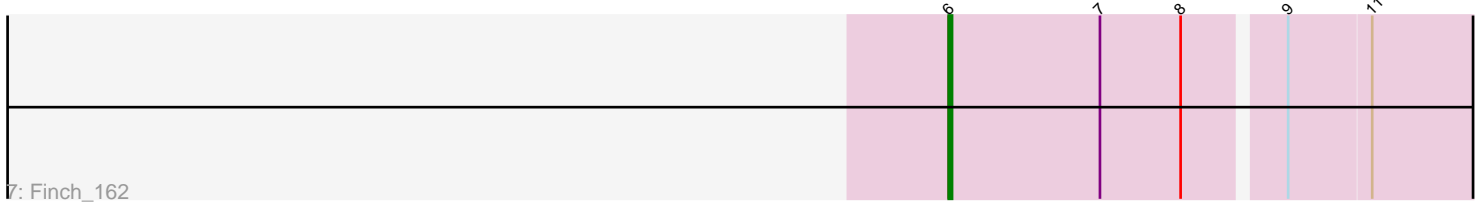
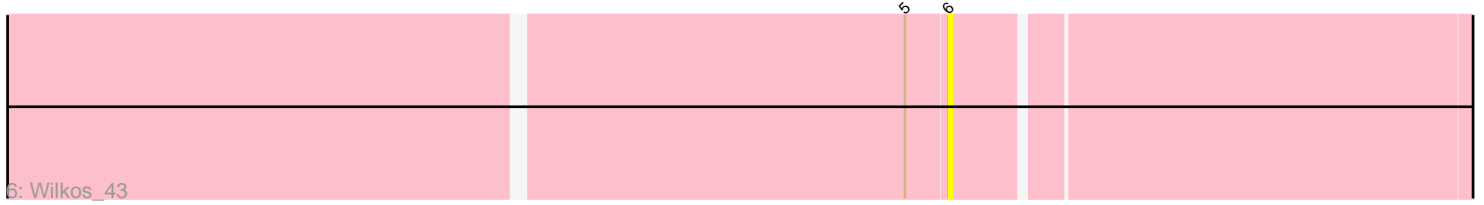
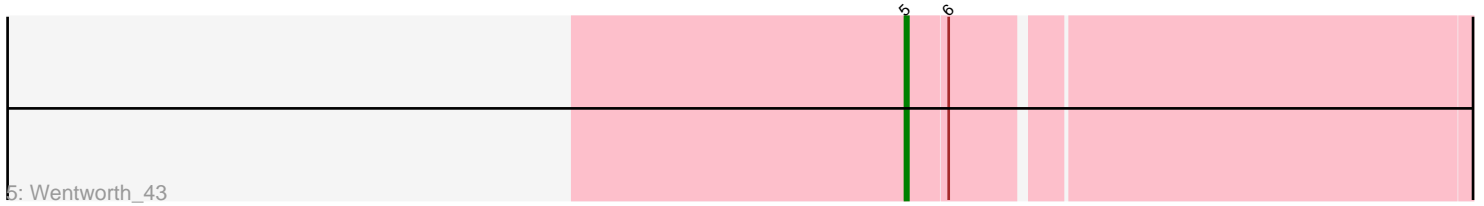
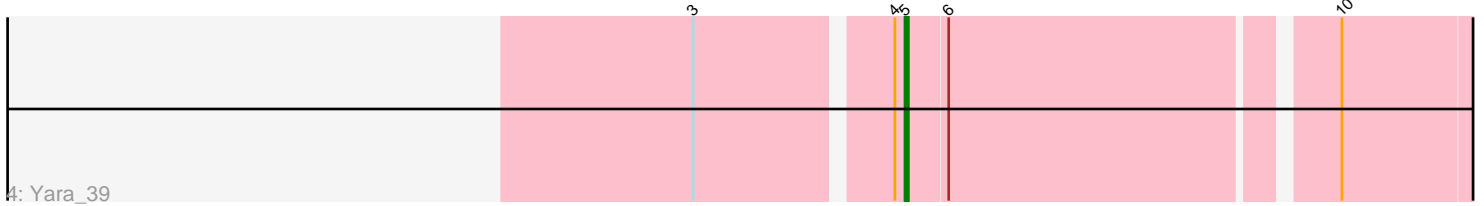
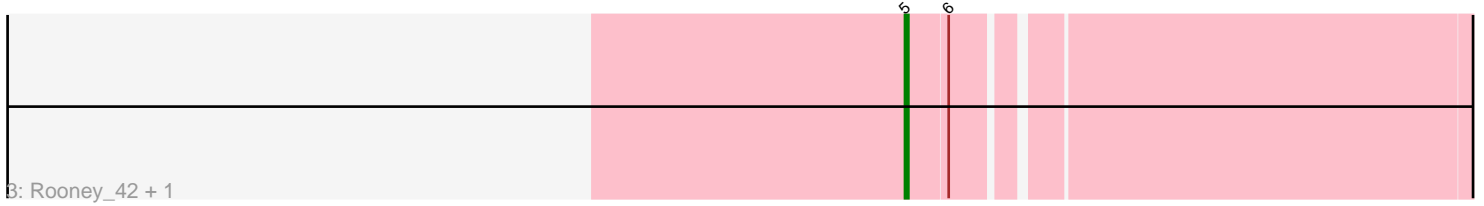
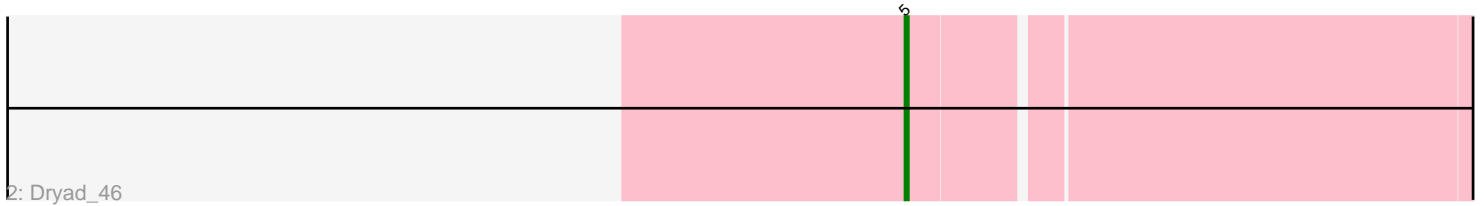
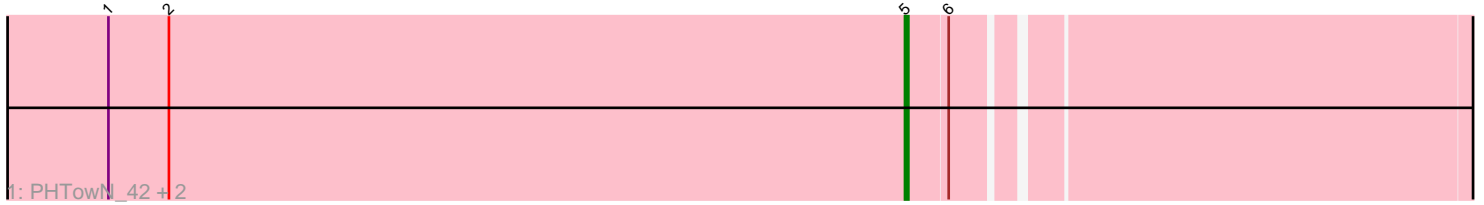


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 168764 Report

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

Pham number 168764 has 10 members, 1 are drafts.

Phages represented in each track:

- Track 1 : PHTowN\_42, ShakeNBake\_42, Lizz\_42
- Track 2 : Dryad\_46
- Track 3 : Rooney\_42, Gibson\_42
- Track 4 : Yara\_39
- Track 5 : Wentworth\_43
- Track 6 : Wilkos\_43
- Track 7 : Finch\_162

### ***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 8 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Dryad\_46, Gibson\_42, Lizz\_42, PHTowN\_42, Rooney\_42, ShakeNBake\_42, Wentworth\_43, Yara\_39,

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

- Wilkos\_43,

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

- Finch\_162,

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

Start 5:

- Found in 9 of 10 ( 90.0% ) of genes in pham
- Manual Annotations of this start: 8 of 9
- Called 88.9% of time when present
- Phage (with cluster) where this start called: Dryad\_46 (BN), Gibson\_42 (BN), Lizz\_42 (BN), PHTowN\_42 (BN), Rooney\_42 (BN), ShakeNBake\_42 (BN), Wentworth\_43 (BN), Yara\_39 (BN),

Start 6:

- Found in 9 of 10 ( 90.0% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 22.2% of time when present
- Phage (with cluster) where this start called: Finch\_162 (singleton), Wilkos\_43 (BN),

### **Summary by clusters:**

There are 2 clusters represented in this pham: BN, singleton,

Info for manual annotations of cluster BN:

- Start number 5 was manually annotated 8 times for cluster BN.

### **Gene Information:**

Gene: Dryad\_46 Start: 32902, Stop: 32705, Start Num: 5

Candidate Starts for Dryad\_46:

(Start: 5 @32902 has 8 MA's),

Gene: Finch\_162 Start: 103030, Stop: 103203, Start Num: 6

Candidate Starts for Finch\_162:

(Start: 6 @103030 has 1 MA's), (7, 103075), (8, 103099), (9, 103126), (11, 103150),

Gene: Gibson\_42 Start: 32414, Stop: 32214, Start Num: 5

Candidate Starts for Gibson\_42:

(Start: 5 @32414 has 8 MA's), (Start: 6 @32402 has 1 MA's),

Gene: Lizz\_42 Start: 32228, Stop: 32028, Start Num: 5

Candidate Starts for Lizz\_42:

(1, 32465), (2, 32447), (Start: 5 @32228 has 8 MA's), (Start: 6 @32216 has 1 MA's),

Gene: PHTowN\_42 Start: 32226, Stop: 32026, Start Num: 5

Candidate Starts for PHTowN\_42:

(1, 32463), (2, 32445), (Start: 5 @32226 has 8 MA's), (Start: 6 @32214 has 1 MA's),

Gene: Rooney\_42 Start: 32411, Stop: 32211, Start Num: 5

Candidate Starts for Rooney\_42:

(Start: 5 @32411 has 8 MA's), (Start: 6 @32399 has 1 MA's),

Gene: ShakeNBake\_42 Start: 32244, Stop: 32044, Start Num: 5

Candidate Starts for ShakeNBake\_42:

(1, 32481), (2, 32463), (Start: 5 @32244 has 8 MA's), (Start: 6 @32232 has 1 MA's),

Gene: Wentworth\_43 Start: 32716, Stop: 32513, Start Num: 5

Candidate Starts for Wentworth\_43:

(Start: 5 @32716 has 8 MA's), (Start: 6 @32704 has 1 MA's),

Gene: Wilkos\_43 Start: 32525, Stop: 32334, Start Num: 6

Candidate Starts for Wilkos\_43:

(Start: 5 @32537 has 8 MA's), (Start: 6 @32525 has 1 MA's),

Gene: Yara\_39 Start: 31491, Stop: 31306, Start Num: 5

Candidate Starts for Yara\_39:

(3, 31548), (4, 31494), (Start: 5 @31491 has 8 MA's), (Start: 6 @31479 has 1 MA's), (10, 31371),