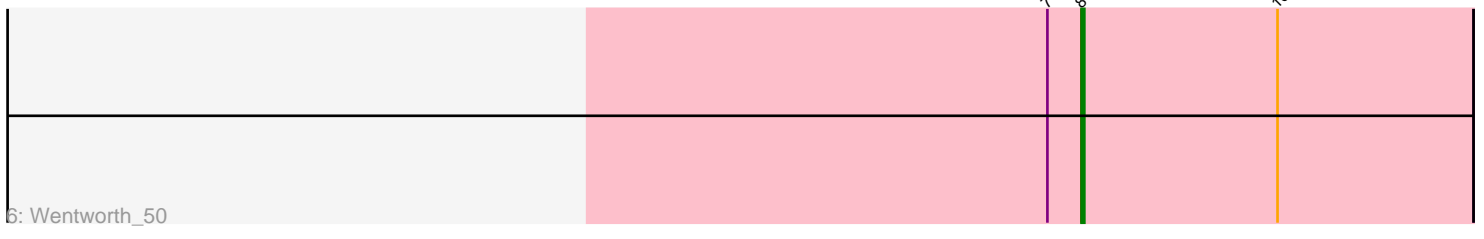
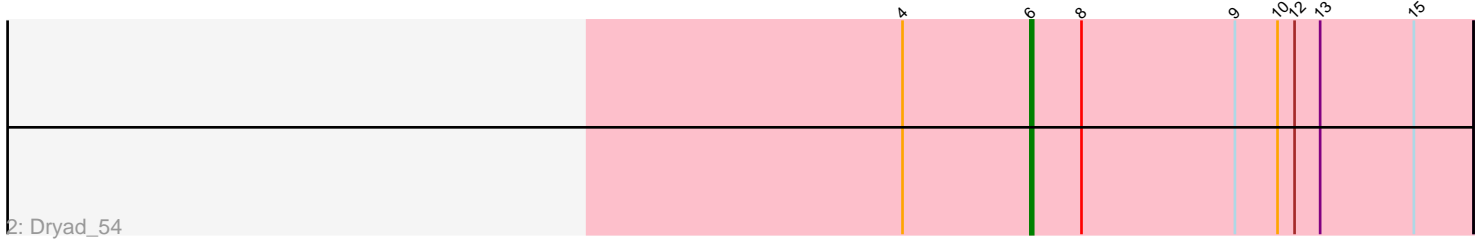
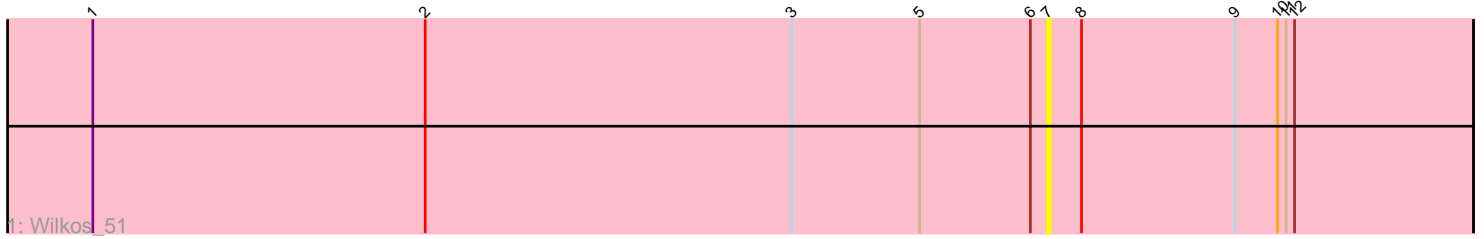


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 167231 Report

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

Pham number 167231 has 9 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Wilkos\_51
- Track 2 : Dryad\_54
- Track 3 : PHTowN\_49, Lizz\_49, ShakeNBake\_49
- Track 4 : Rooney\_49, Gibson\_49
- Track 5 : Yara\_45
- Track 6 : Wentworth\_50

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

The start number called the most often in the published annotations is 7, it was called in 6 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Gibson\_49, Lizz\_49, PHTowN\_49, Rooney\_49, ShakeNBake\_49, Wilkos\_51, Yara\_45,

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

- Wentworth\_50,

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

- Dryad\_54,

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

Start 6:

- Found in 2 of 9 ( 22.2% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Dryad\_54 (BN),

Start 7:

- Found in 8 of 9 ( 88.9% ) of genes in pham
- Manual Annotations of this start: 6 of 8
- Called 87.5% of time when present

- Phage (with cluster) where this start called: Gibson\_49 (BN), Lizz\_49 (BN), PHTowN\_49 (BN), Rooney\_49 (BN), ShakeNBake\_49 (BN), Wilkos\_51 (BN), Yara\_45 (BN),

Start 8:

- Found in 9 of 9 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Wentworth\_50 (BN),

### Summary by clusters:

There is one cluster represented in this pham: BN

Info for manual annotations of cluster BN:

- Start number 6 was manually annotated 1 time for cluster BN.
- Start number 7 was manually annotated 6 times for cluster BN.
- Start number 8 was manually annotated 1 time for cluster BN.

### Gene Information:

Gene: Dryad\_54 Start: 36660, Stop: 36505, Start Num: 6

Candidate Starts for Dryad\_54:

(4, 36705), (Start: 6 @36660 has 1 MA's), (Start: 8 @36642 has 1 MA's), (9, 36588), (10, 36573), (12, 36567), (13, 36558), (15, 36525),

Gene: Gibson\_49 Start: 35660, Stop: 35511, Start Num: 7

Candidate Starts for Gibson\_49:

(Start: 7 @35660 has 6 MA's), (Start: 8 @35648 has 1 MA's), (9, 35594), (10, 35579), (15, 35531),

Gene: Lizz\_49 Start: 35470, Stop: 35321, Start Num: 7

Candidate Starts for Lizz\_49:

(Start: 7 @35470 has 6 MA's), (Start: 8 @35458 has 1 MA's), (9, 35404), (10, 35389), (12, 35383), (14, 35344),

Gene: PHTowN\_49 Start: 35468, Stop: 35319, Start Num: 7

Candidate Starts for PHTowN\_49:

(Start: 7 @35468 has 6 MA's), (Start: 8 @35456 has 1 MA's), (9, 35402), (10, 35387), (12, 35381), (14, 35342),

Gene: Rooney\_49 Start: 35657, Stop: 35508, Start Num: 7

Candidate Starts for Rooney\_49:

(Start: 7 @35657 has 6 MA's), (Start: 8 @35645 has 1 MA's), (9, 35591), (10, 35576), (15, 35528),

Gene: ShakeNBake\_49 Start: 35486, Stop: 35337, Start Num: 7

Candidate Starts for ShakeNBake\_49:

(Start: 7 @35486 has 6 MA's), (Start: 8 @35474 has 1 MA's), (9, 35420), (10, 35405), (12, 35399), (14, 35360),

Gene: Wentworth\_50 Start: 35908, Stop: 35771, Start Num: 8

Candidate Starts for Wentworth\_50:

(Start: 7 @35920 has 6 MA's), (Start: 8 @35908 has 1 MA's), (10, 35839),

Gene: Wilkos\_51 Start: 35741, Stop: 35592, Start Num: 7

Candidate Starts for Wilkos\_51:

(1, 36077), (2, 35960), (3, 35831), (5, 35786), (Start: 6 @35747 has 1 MA's), (Start: 7 @35741 has 6 MA's), (Start: 8 @35729 has 1 MA's), (9, 35675), (10, 35660), (11, 35657), (12, 35654),

Gene: Yara\_45 Start: 34385, Stop: 34257, Start Num: 7

Candidate Starts for Yara\_45:

(Start: 7 @34385 has 6 MA's), (Start: 8 @34373 has 1 MA's),