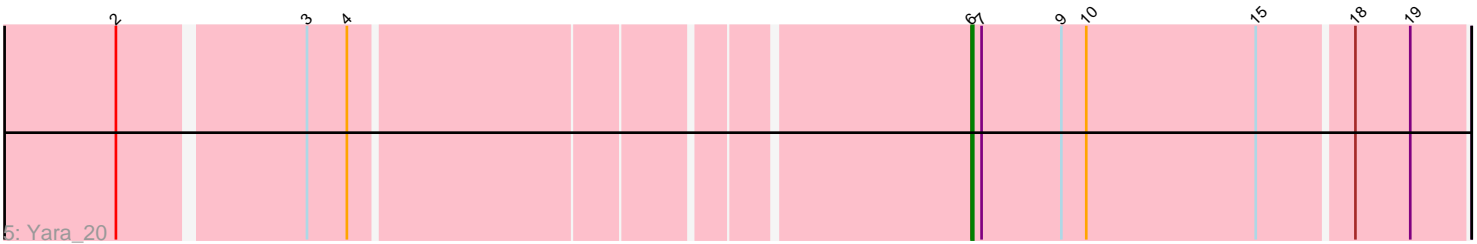
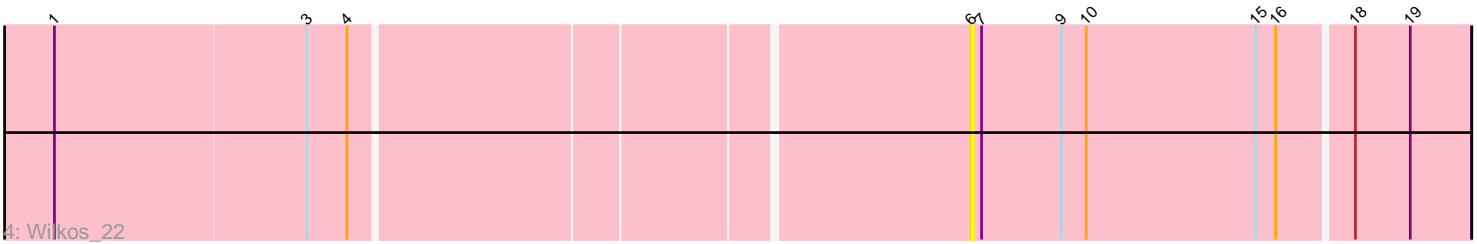
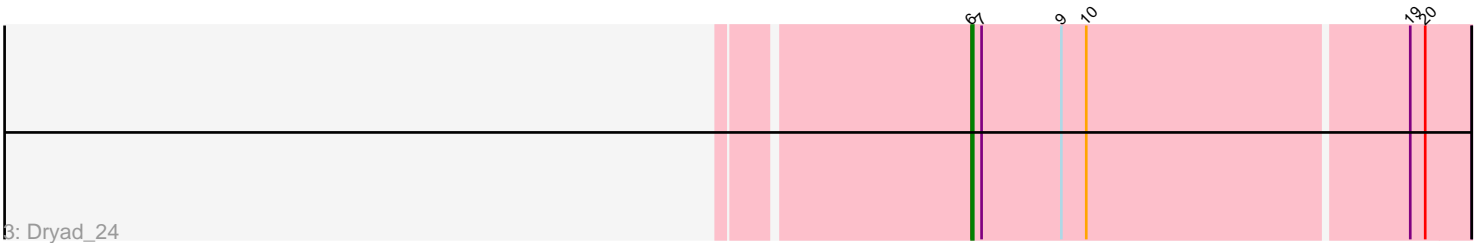
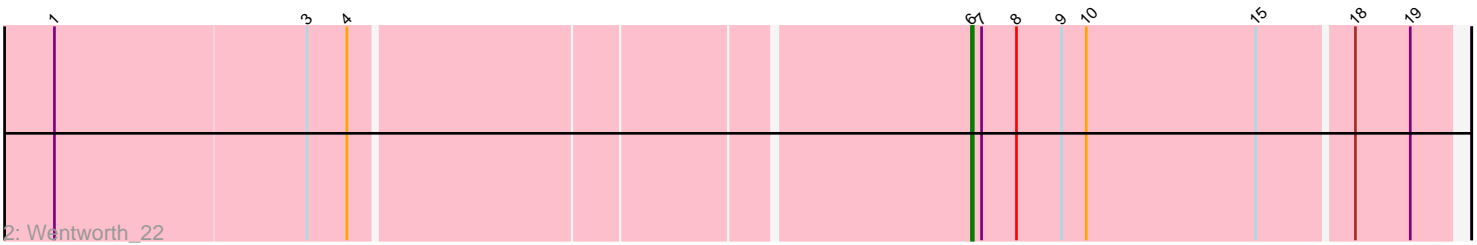
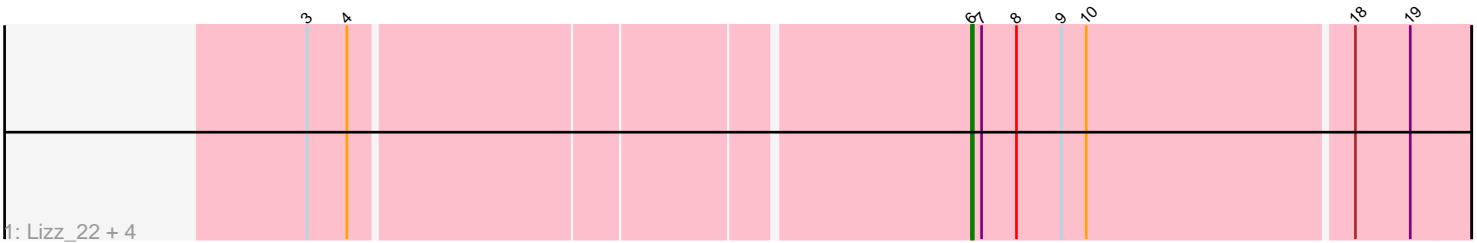


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 5969 Report

This analysis was run 04/05/24 on database version 557.

Pham number 5969 has 10 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Lizz\_22, PHTowN\_22, ShakeNBake\_22, Gibson\_22, Rooney\_22
- Track 2 : Wentworth\_22
- Track 3 : Dryad\_24
- Track 4 : Wilkos\_22
- Track 5 : Yara\_20
- Track 6 : Chymera\_16

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

The start number called the most often in the published annotations is 6, it was called in 8 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Dryad\_24, Gibson\_22, Lizz\_22, PHTowN\_22, Rooney\_22, ShakeNBake\_22, Wentworth\_22, Wilkos\_22, Yara\_20,

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

- 

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

- Chymera\_16,

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

Start 5:

- Found in 1 of 10 ( 10.0% ) 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: Chymera\_16 (singleton),

Start 6:

- Found in 9 of 10 ( 90.0% ) of genes in pham
- Manual Annotations of this start: 8 of 9
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Dryad\_24 (BN), Gibson\_22 (BN), Lizz\_22 (BN), PHTowN\_22 (BN), Rooney\_22 (BN), ShakeNBake\_22 (BN), Wentworth\_22 (BN), Wilkos\_22 (BN), Yara\_20 (BN),

### **Summary by clusters:**

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

Info for manual annotations of cluster BN:

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

### **Gene Information:**

Gene: Chymera\_16 Start: 10652, Stop: 10954, Start Num: 5

Candidate Starts for Chymera\_16:

(4, 10289), (Start: 5 @10652 has 1 MA's), (11, 10769), (12, 10787), (13, 10793), (14, 10808), (17, 10847),

Gene: Dryad\_24 Start: 13117, Stop: 13410, Start Num: 6

Candidate Starts for Dryad\_24:

(Start: 6 @13117 has 8 MA's), (7, 13123), (9, 13171), (10, 13186), (19, 13375), (20, 13384),

Gene: Gibson\_22 Start: 12687, Stop: 12980, Start Num: 6

Candidate Starts for Gibson\_22:

(3, 12309), (4, 12333), (Start: 6 @12687 has 8 MA's), (7, 12693), (8, 12714), (9, 12741), (10, 12756), (18, 12912), (19, 12945),

Gene: Lizz\_22 Start: 12603, Stop: 12896, Start Num: 6

Candidate Starts for Lizz\_22:

(3, 12225), (4, 12249), (Start: 6 @12603 has 8 MA's), (7, 12609), (8, 12630), (9, 12657), (10, 12672), (18, 12828), (19, 12861),

Gene: PHTowN\_22 Start: 12603, Stop: 12896, Start Num: 6

Candidate Starts for PHTowN\_22:

(3, 12225), (4, 12249), (Start: 6 @12603 has 8 MA's), (7, 12609), (8, 12630), (9, 12657), (10, 12672), (18, 12828), (19, 12861),

Gene: Rooney\_22 Start: 12684, Stop: 12977, Start Num: 6

Candidate Starts for Rooney\_22:

(3, 12306), (4, 12330), (Start: 6 @12684 has 8 MA's), (7, 12690), (8, 12711), (9, 12738), (10, 12753), (18, 12909), (19, 12942),

Gene: ShakeNBake\_22 Start: 12603, Stop: 12896, Start Num: 6

Candidate Starts for ShakeNBake\_22:

(3, 12225), (4, 12249), (Start: 6 @12603 has 8 MA's), (7, 12609), (8, 12630), (9, 12657), (10, 12672), (18, 12828), (19, 12861),

Gene: Wentworth\_22 Start: 12381, Stop: 12662, Start Num: 6

Candidate Starts for Wentworth\_22:

(1, 11853), (3, 12003), (4, 12027), (Start: 6 @12381 has 8 MA's), (7, 12387), (8, 12408), (9, 12435), (10, 12450), (15, 12552), (18, 12606), (19, 12639),

Gene: Wilkos\_22 Start: 12550, Stop: 12843, Start Num: 6

Candidate Starts for Wilkos\_22:

(1, 12022), (3, 12172), (4, 12196), (Start: 6 @12550 has 8 MA's), (7, 12556), (9, 12604), (10, 12619), (15, 12721), (16, 12733), (18, 12775), (19, 12808),

Gene: Yara\_20 Start: 11875, Stop: 12165, Start Num: 6

Candidate Starts for Yara\_20:

(2, 11398), (3, 11503), (4, 11527), (Start: 6 @11875 has 8 MA's), (7, 11881), (9, 11929), (10, 11944), (15, 12046), (18, 12100), (19, 12133),