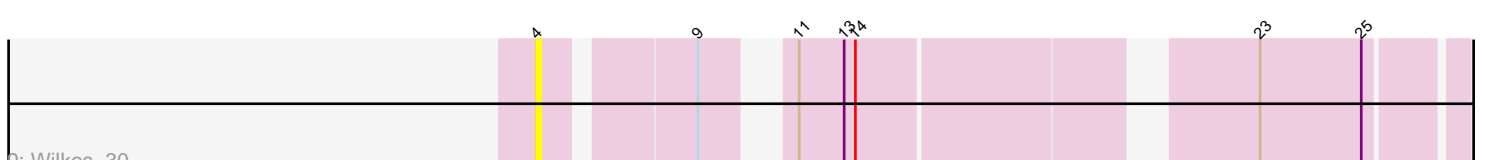
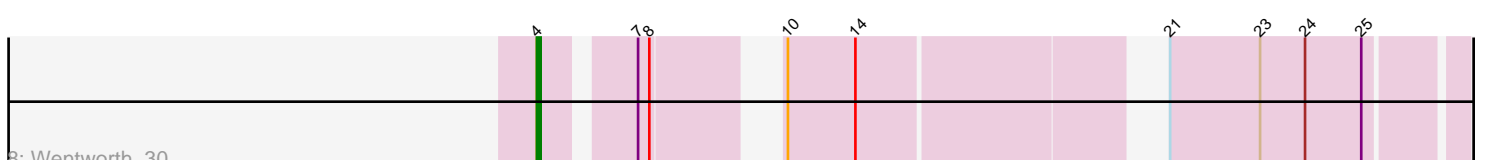
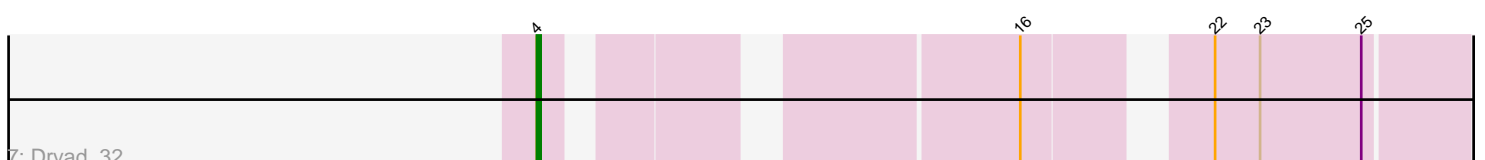
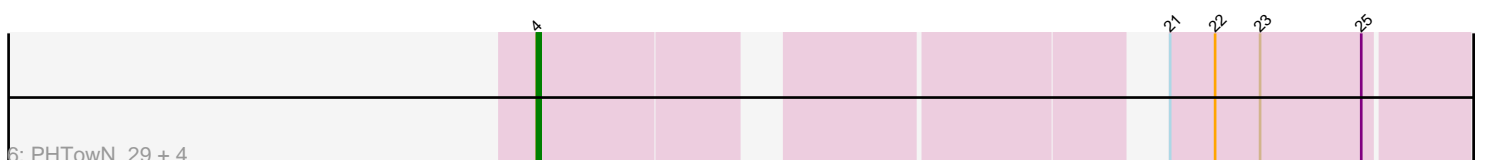
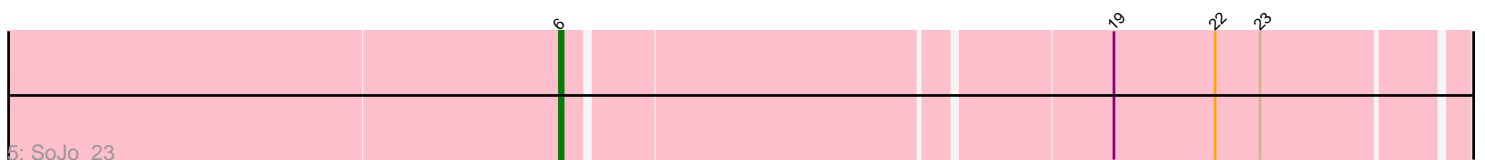
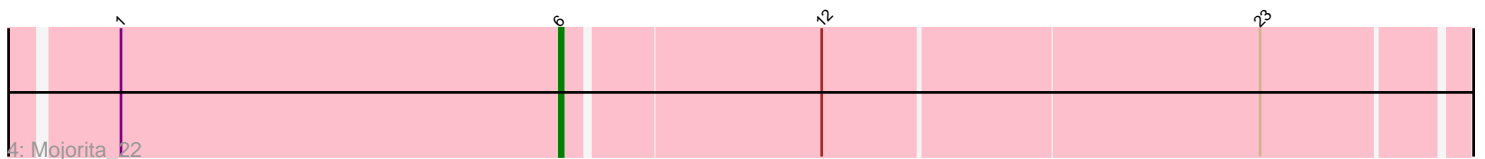
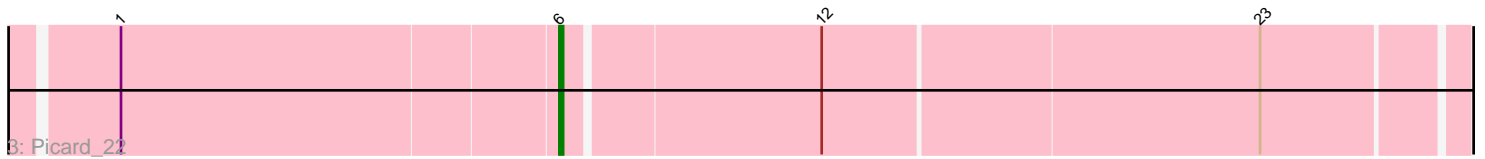
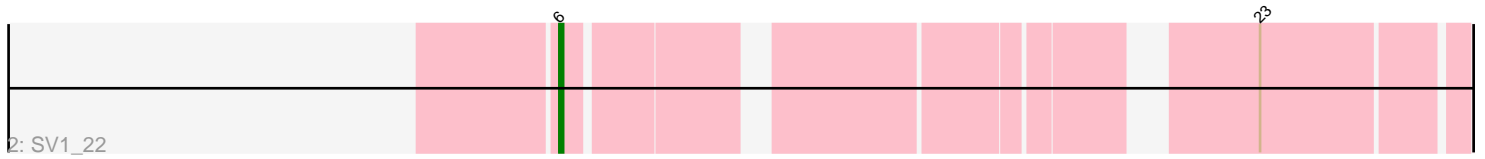
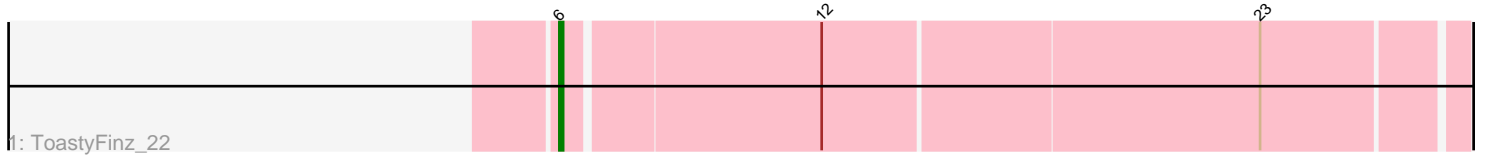


Pham 196937



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 196937 Report

This analysis was run 12/09/24 on database version 580.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 196937 has 14 members, 1 are drafts.

Phages represented in each track:

- Track 1 : ToastyFinz\_22
- Track 2 : SV1\_22
- Track 3 : Picard\_22
- Track 4 : Mojorita\_22
- Track 5 : SoJo\_23
- Track 6 : PHTowN\_29, Lizz\_29, ShakeNBake\_29, Gibson\_29, Rooney\_29
- Track 7 : Dryad\_32
- Track 8 : Wentworth\_30
- Track 9 : Wilkos\_30
- Track 10 : Schmidt\_22

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

The start number called the most often in the published annotations is 4, it was called in 7 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Dryad\_32, Gibson\_29, Lizz\_29, PHTowN\_29, Rooney\_29, ShakeNBake\_29, Wentworth\_30, Wilkos\_30,

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

- 

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

- Mojorita\_22, Picard\_22, SV1\_22, Schmidt\_22, SoJo\_23, ToastyFinz\_22,

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

Start 3:

- Found in 1 of 14 ( 7.1% ) of genes in pham

- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Schmidt\_22 (CU4),

#### Start 4:

- Found in 8 of 14 ( 57.1% ) of genes in pham
- Manual Annotations of this start: 7 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dryad\_32 (BN), Gibson\_29 (BN), Lizz\_29 (BN), PHTowN\_29 (BN), Rooney\_29 (BN), ShakeNBake\_29 (BN), Wentworth\_30 (BN), Wilkos\_30 (BN),

#### Start 6:

- Found in 5 of 14 ( 35.7% ) of genes in pham
- Manual Annotations of this start: 5 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Moajorita\_22 (BC1), Picard\_22 (BC1), SV1\_22 (BC1), SoJo\_23 (BC1), ToastyFinz\_22 (BC1),

### Summary by clusters:

There are 3 clusters represented in this pham: BN, CU4, BC1,

Info for manual annotations of cluster BC1:

- Start number 6 was manually annotated 5 times for cluster BC1.

Info for manual annotations of cluster BN:

- Start number 4 was manually annotated 7 times for cluster BN.

Info for manual annotations of cluster CU4:

- Start number 3 was manually annotated 1 time for cluster CU4.

### Gene Information:

Gene: Dryad\_32 Start: 21653, Stop: 21880, Start Num: 4

Candidate Starts for Dryad\_32:

(Start: 4 @21653 has 7 MA's), (16, 21758), (22, 21797), (23, 21809), (25, 21836),

Gene: Gibson\_29 Start: 20816, Stop: 21049, Start Num: 4

Candidate Starts for Gibson\_29:

(Start: 4 @20816 has 7 MA's), (21, 20957), (22, 20969), (23, 20981), (25, 21008),

Gene: Lizz\_29 Start: 20625, Stop: 20858, Start Num: 4

Candidate Starts for Lizz\_29:

(Start: 4 @20625 has 7 MA's), (21, 20766), (22, 20778), (23, 20790), (25, 20817),

Gene: Moajorita\_22 Start: 17147, Stop: 17407, Start Num: 6

Candidate Starts for Moajorita\_22:

(1, 17030), (Start: 6 @17147 has 5 MA's), (12, 17213), (23, 17327),

Gene: PHTowN\_29 Start: 20623, Stop: 20856, Start Num: 4

Candidate Starts for PHTown\_29:

(Start: 4 @20623 has 7 MA's), (21, 20764), (22, 20776), (23, 20788), (25, 20815),

Gene: Picard\_22 Start: 17138, Stop: 17398, Start Num: 6

Candidate Starts for Picard\_22:

(1, 17024), (Start: 6 @17138 has 5 MA's), (12, 17204), (23, 17318),

Gene: Rooney\_29 Start: 20813, Stop: 21046, Start Num: 4

Candidate Starts for Rooney\_29:

(Start: 4 @20813 has 7 MA's), (21, 20954), (22, 20966), (23, 20978), (25, 21005),

Gene: SV1\_22 Start: 17352, Stop: 17588, Start Num: 6

Candidate Starts for SV1\_22:

(Start: 6 @17352 has 5 MA's), (23, 17508),

Gene: Schmidt\_22 Start: 17098, Stop: 17373, Start Num: 3

Candidate Starts for Schmidt\_22:

(2, 17077), (Start: 3 @17098 has 1 MA's), (5, 17113), (9, 17146), (12, 17179), (14, 17188), (15, 17218), (17, 17239), (18, 17254), (20, 17263),

Gene: ShakeNBake\_29 Start: 20641, Stop: 20874, Start Num: 4

Candidate Starts for ShakeNBake\_29:

(Start: 4 @20641 has 7 MA's), (21, 20782), (22, 20794), (23, 20806), (25, 20833),

Gene: SoJo\_23 Start: 19328, Stop: 19582, Start Num: 6

Candidate Starts for SoJo\_23:

(Start: 6 @19328 has 5 MA's), (19, 19466), (22, 19493), (23, 19505),

Gene: ToastyFinz\_22 Start: 19068, Stop: 19331, Start Num: 6

Candidate Starts for ToastyFinz\_22:

(Start: 6 @19068 has 5 MA's), (12, 19134), (23, 19248),

Gene: Wentworth\_30 Start: 20992, Stop: 21219, Start Num: 4

Candidate Starts for Wentworth\_30:

(Start: 4 @20992 has 7 MA's), (7, 21013), (8, 21016), (10, 21040), (14, 21058), (21, 21127), (23, 21151), (24, 21163), (25, 21178),

Gene: Wilkos\_30 Start: 20904, Stop: 21131, Start Num: 4

Candidate Starts for Wilkos\_30:

(Start: 4 @20904 has 7 MA's), (9, 20940), (11, 20955), (13, 20967), (14, 20970), (23, 21063), (25, 21090),