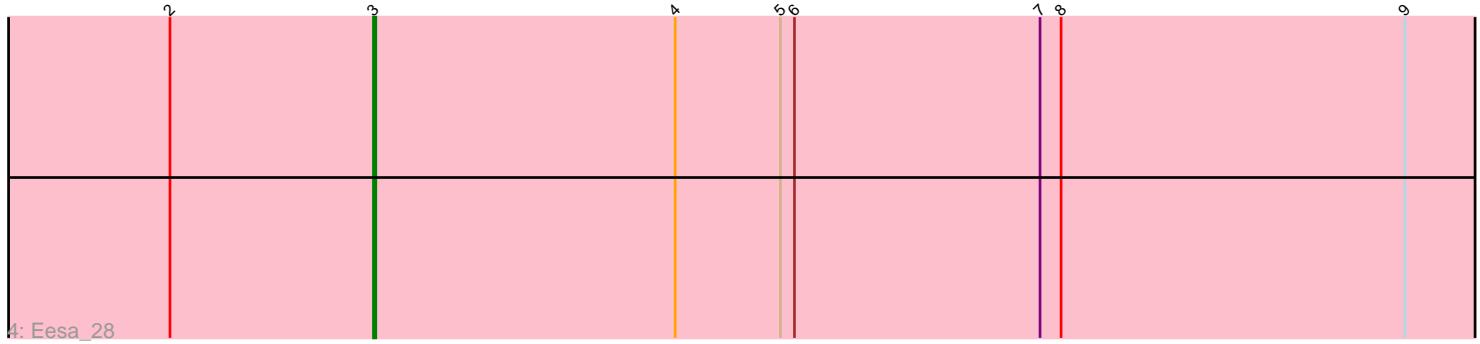
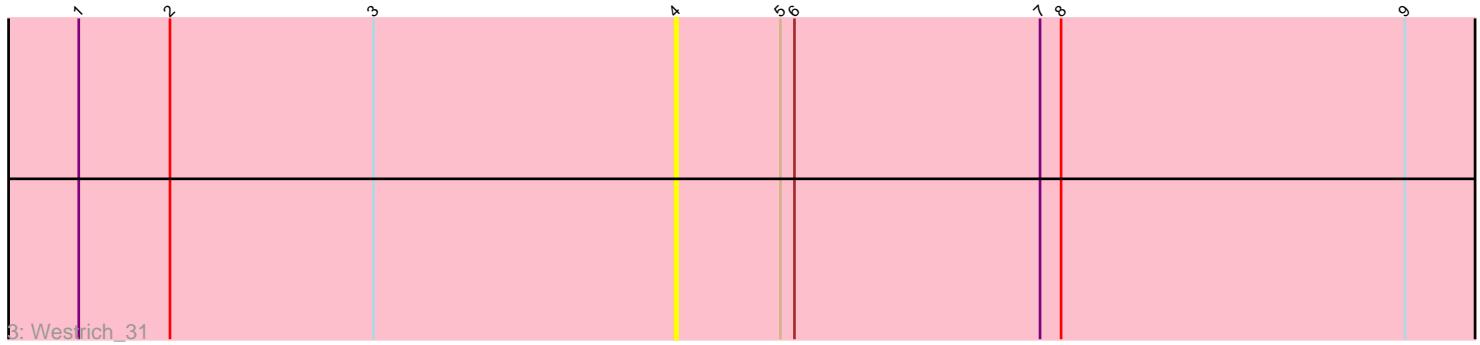
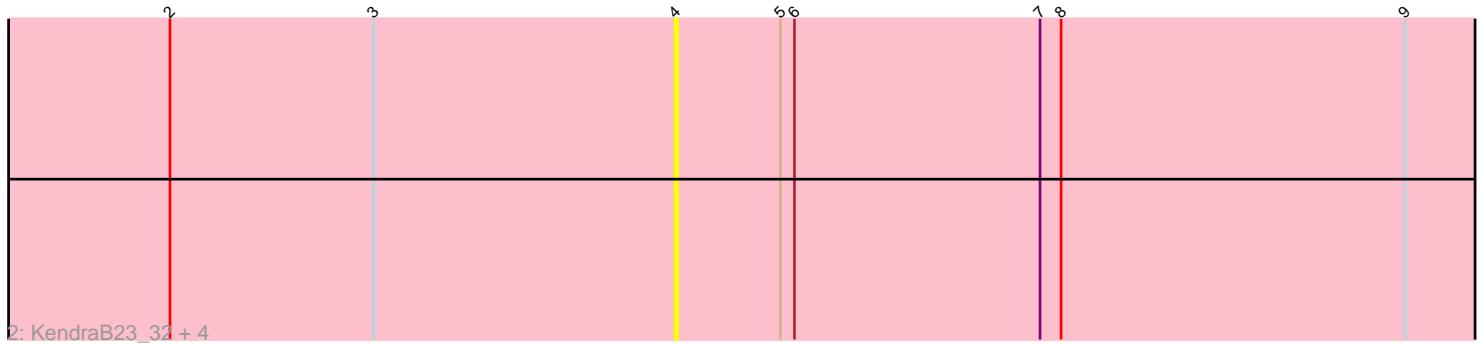
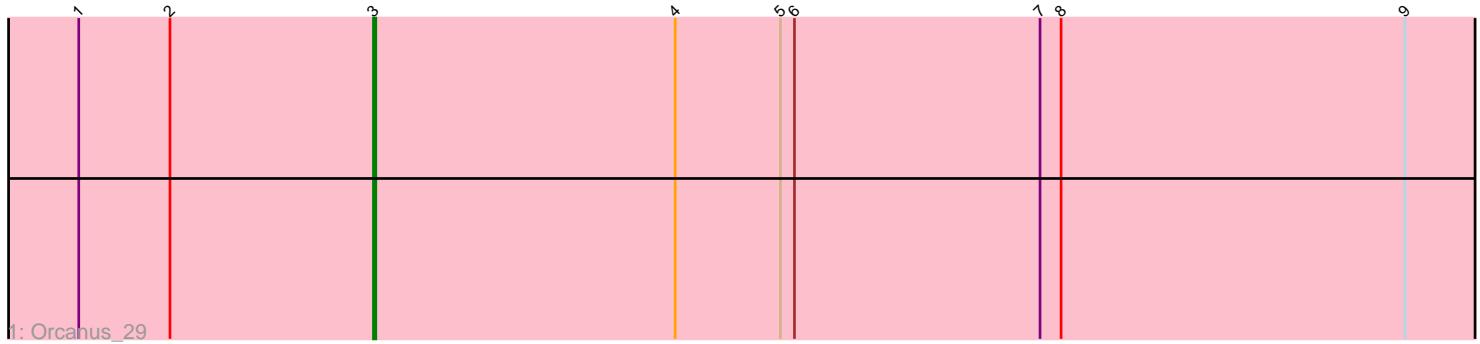


Pham 281183



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 281183 Report

This analysis was run 02/07/26 on database version 634.

Pham number 281183 has 8 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Orcanus\_29
- Track 2 : KendraB23\_32, Zixiang\_27, Amanises\_32, Gravel\_31, Pelletreau\_31
- Track 3 : Westrich\_31
- Track 4 : Eesa\_28

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

The start number called the most often in the published annotations is 3, it was called in 2 of the 2 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Eesa\_28, Orcanus\_29,

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

- Amanises\_32, Gravel\_31, KendraB23\_32, Pelletreau\_31, Westrich\_31, Zixiang\_27,

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

- 

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

Start 3:

- Found in 8 of 8 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 2 of 2
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Eesa\_28 (AS1), Orcanus\_29 (AS1),

Start 4:

- Found in 8 of 8 ( 100.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Amanises\_32 (AS1), Gravel\_31 (AS1), KendraB23\_32 (AS1), Pelletreau\_31 (AS1), Westrich\_31 (AS1), Zixiang\_27 (AS1),

## **Summary by clusters:**

There is one cluster represented in this pham: AS1

Info for manual annotations of cluster AS1:

- Start number 3 was manually annotated 2 times for cluster AS1.

### **Gene Information:**

Gene: Amanises\_32 Start: 22134, Stop: 21769, Start Num: 4

Candidate Starts for Amanises\_32:

(2, 22350), (Start: 3 @22263 has 2 MA's), (4, 22134), (5, 22089), (6, 22083), (7, 21978), (8, 21969), (9, 21822),

Gene: Eesa\_28 Start: 22106, Stop: 21612, Start Num: 3

Candidate Starts for Eesa\_28:

(2, 22193), (Start: 3 @22106 has 2 MA's), (4, 21977), (5, 21932), (6, 21926), (7, 21821), (8, 21812), (9, 21665),

Gene: Gravel\_31 Start: 21946, Stop: 21581, Start Num: 4

Candidate Starts for Gravel\_31:

(2, 22162), (Start: 3 @22075 has 2 MA's), (4, 21946), (5, 21901), (6, 21895), (7, 21790), (8, 21781), (9, 21634),

Gene: KendraB23\_32 Start: 22134, Stop: 21769, Start Num: 4

Candidate Starts for KendraB23\_32:

(2, 22350), (Start: 3 @22263 has 2 MA's), (4, 22134), (5, 22089), (6, 22083), (7, 21978), (8, 21969), (9, 21822),

Gene: Orcanus\_29 Start: 21876, Stop: 21382, Start Num: 3

Candidate Starts for Orcanus\_29:

(1, 22002), (2, 21963), (Start: 3 @21876 has 2 MA's), (4, 21747), (5, 21702), (6, 21696), (7, 21591), (8, 21582), (9, 21435),

Gene: Pelletreau\_31 Start: 21946, Stop: 21581, Start Num: 4

Candidate Starts for Pelletreau\_31:

(2, 22162), (Start: 3 @22075 has 2 MA's), (4, 21946), (5, 21901), (6, 21895), (7, 21790), (8, 21781), (9, 21634),

Gene: Westrich\_31 Start: 21873, Stop: 21508, Start Num: 4

Candidate Starts for Westrich\_31:

(1, 22128), (2, 22089), (Start: 3 @22002 has 2 MA's), (4, 21873), (5, 21828), (6, 21822), (7, 21717), (8, 21708), (9, 21561),

Gene: Zixiang\_27 Start: 21552, Stop: 21187, Start Num: 4

Candidate Starts for Zixiang\_27:

(2, 21768), (Start: 3 @21681 has 2 MA's), (4, 21552), (5, 21507), (6, 21501), (7, 21396), (8, 21387), (9, 21240),