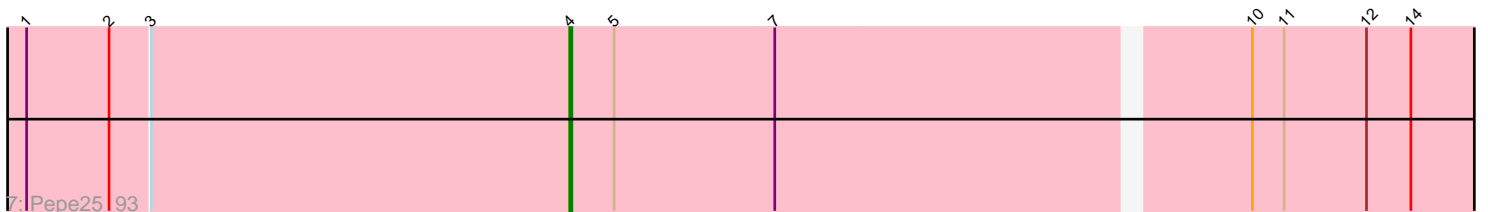
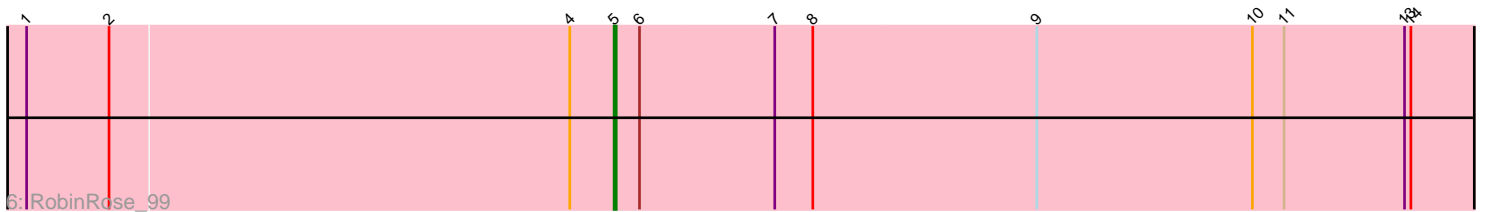
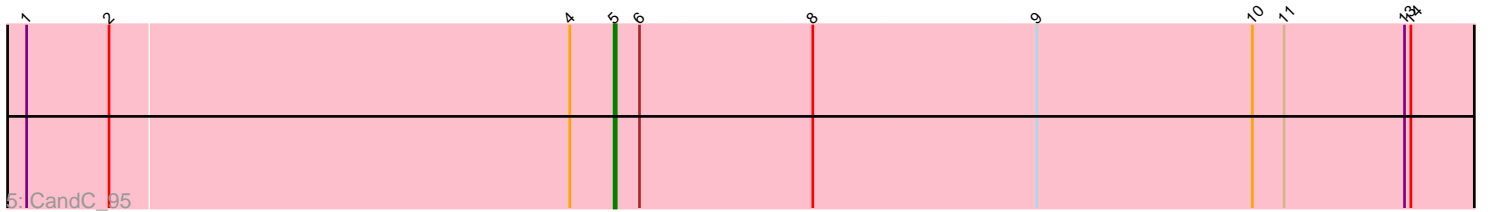
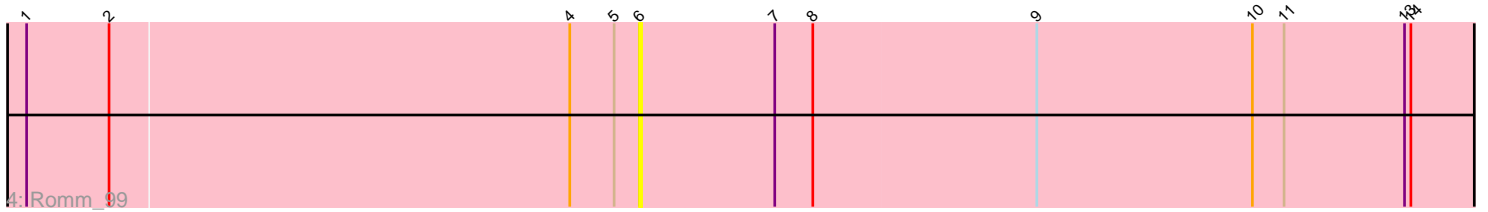
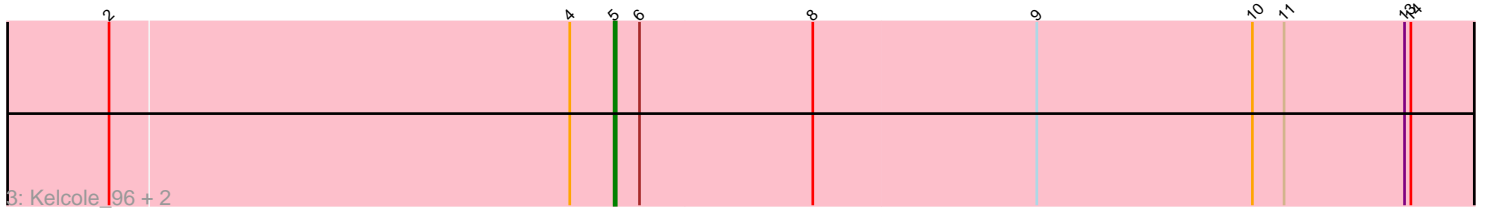
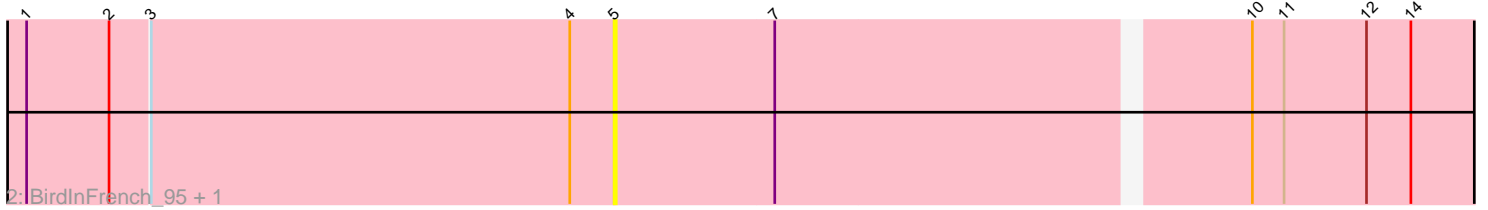
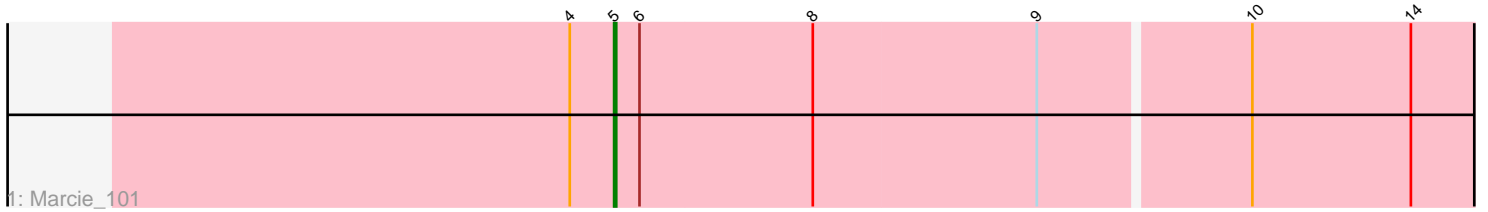


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 168763 Report

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

Pham number 168763 has 10 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Marcie\_101
- Track 2 : BirdInFrench\_95, Wilca\_95
- Track 3 : Kelcole\_96, Fregley\_97, Tempo\_98
- Track 4 : Romm\_99
- Track 5 : CandC\_95
- Track 6 : RobinRose\_99
- Track 7 : Pepe25\_93

### ***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 6 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BirdInFrench\_95, CandC\_95, Fregley\_97, Kelcole\_96, Marcie\_101, RobinRose\_99, Tempo\_98, Wilca\_95,

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

- Pepe25\_93, Romm\_99,

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

- 

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

Start 4:

- Found in 10 of 10 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 10.0% of time when present
- Phage (with cluster) where this start called: Pepe25\_93 (EG),

Start 5:

- Found in 10 of 10 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 6 of 7

- Called 80.0% of time when present
- Phage (with cluster) where this start called: BirdInFrench\_95 (EG), CandC\_95 (EG), Fregley\_97 (EG), Kelcole\_96 (EG), Marcie\_101 (EG), RobinRose\_99 (EG), Tempo\_98 (EG), Wilca\_95 (EG),

Start 6:

- Found in 7 of 10 ( 70.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Romm\_99 (EG),

### **Summary by clusters:**

There is one cluster represented in this pham: EG

Info for manual annotations of cluster EG:

- Start number 4 was manually annotated 1 time for cluster EG.
- Start number 5 was manually annotated 6 times for cluster EG.

### **Gene Information:**

Gene: BirdInFrench\_95 Start: 57011, Stop: 56538, Start Num: 5

Candidate Starts for BirdInFrench\_95:

(1, 57287), (2, 57248), (3, 57230), (Start: 4 @57032 has 1 MA's), (Start: 5 @57011 has 6 MA's), (7, 56936), (10, 56723), (11, 56708), (12, 56669), (14, 56648),

Gene: CandC\_95 Start: 57143, Stop: 56658, Start Num: 5

Candidate Starts for CandC\_95:

(1, 57419), (2, 57380), (Start: 4 @57164 has 1 MA's), (Start: 5 @57143 has 6 MA's), (6, 57131), (8, 57050), (9, 56945), (10, 56843), (11, 56828), (13, 56771), (14, 56768),

Gene: Fregley\_97 Start: 57189, Stop: 56704, Start Num: 5

Candidate Starts for Fregley\_97:

(2, 57426), (Start: 4 @57210 has 1 MA's), (Start: 5 @57189 has 6 MA's), (6, 57177), (8, 57096), (9, 56991), (10, 56889), (11, 56874), (13, 56817), (14, 56814),

Gene: Kelcole\_96 Start: 57696, Stop: 57211, Start Num: 5

Candidate Starts for Kelcole\_96:

(2, 57933), (Start: 4 @57717 has 1 MA's), (Start: 5 @57696 has 6 MA's), (6, 57684), (8, 57603), (9, 57498), (10, 57396), (11, 57381), (13, 57324), (14, 57321),

Gene: Marcie\_101 Start: 57896, Stop: 57417, Start Num: 5

Candidate Starts for Marcie\_101:

(Start: 4 @57917 has 1 MA's), (Start: 5 @57896 has 6 MA's), (6, 57884), (8, 57803), (9, 57698), (10, 57602), (14, 57527),

Gene: Pepe25\_93 Start: 55951, Stop: 55457, Start Num: 4

Candidate Starts for Pepe25\_93:

(1, 56206), (2, 56167), (3, 56149), (Start: 4 @55951 has 1 MA's), (Start: 5 @55930 has 6 MA's), (7, 55855), (10, 55642), (11, 55627), (12, 55588), (14, 55567),

Gene: RobinRose\_99 Start: 57768, Stop: 57283, Start Num: 5

Candidate Starts for RobinRose\_99:

(1, 58044), (2, 58005), (Start: 4 @57789 has 1 MA's), (Start: 5 @57768 has 6 MA's), (6, 57756), (7, 57693), (8, 57675), (9, 57570), (10, 57468), (11, 57453), (13, 57396), (14, 57393),

Gene: Romm\_99 Start: 57753, Stop: 57280, Start Num: 6

Candidate Starts for Romm\_99:

(1, 58041), (2, 58002), (Start: 4 @57786 has 1 MA's), (Start: 5 @57765 has 6 MA's), (6, 57753), (7, 57690), (8, 57672), (9, 57567), (10, 57465), (11, 57450), (13, 57393), (14, 57390),

Gene: Tempo\_98 Start: 57805, Stop: 57320, Start Num: 5

Candidate Starts for Tempo\_98:

(2, 58042), (Start: 4 @57826 has 1 MA's), (Start: 5 @57805 has 6 MA's), (6, 57793), (8, 57712), (9, 57607), (10, 57505), (11, 57490), (13, 57433), (14, 57430),

Gene: Wilca\_95 Start: 57011, Stop: 56538, Start Num: 5

Candidate Starts for Wilca\_95:

(1, 57287), (2, 57248), (3, 57230), (Start: 4 @57032 has 1 MA's), (Start: 5 @57011 has 6 MA's), (7, 56936), (10, 56723), (11, 56708), (12, 56669), (14, 56648),