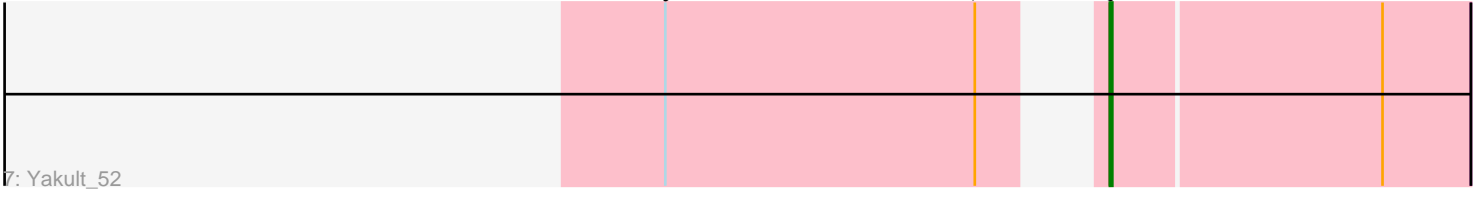
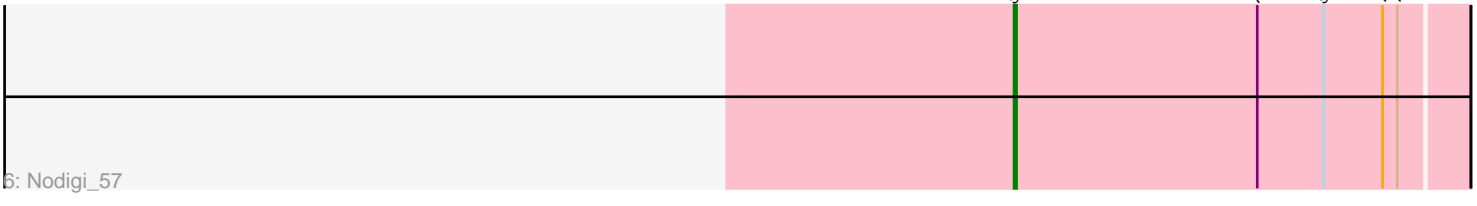
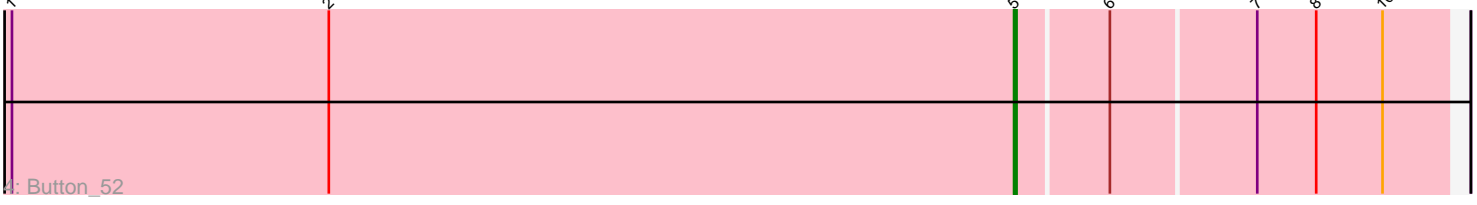
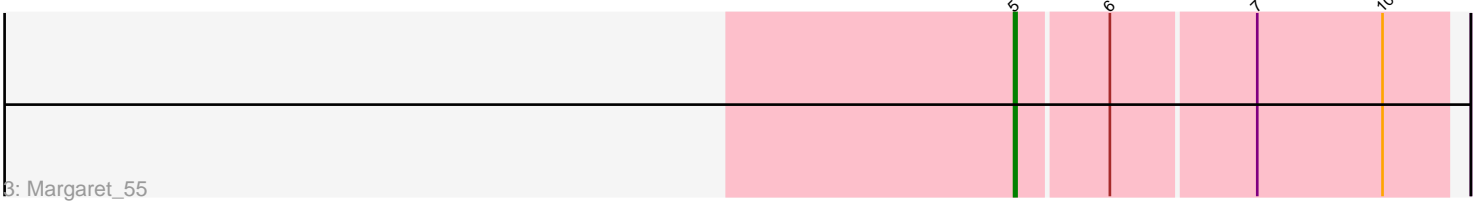
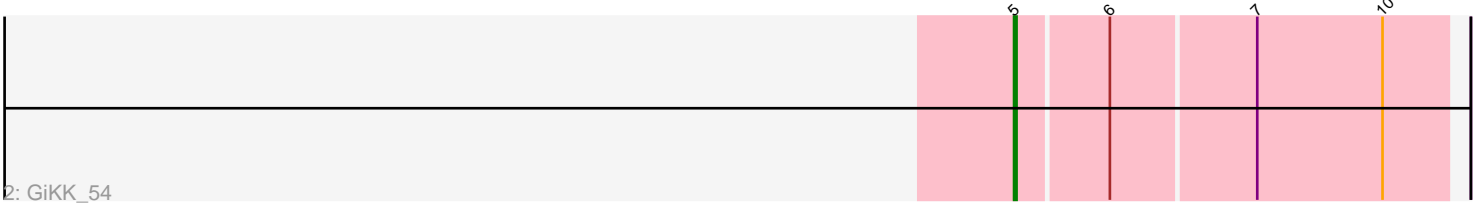
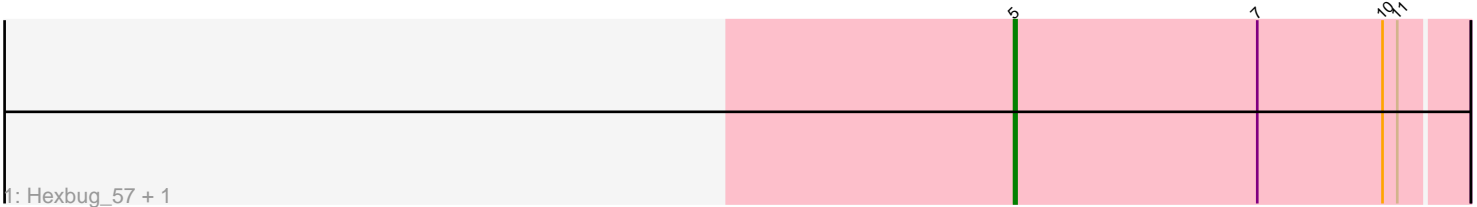


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 7931 Report

This analysis was run 04/28/24 on database version 559.

Pham number 7931 has 8 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Hexbug\_57, Orla\_57
- Track 2 : GiKK\_54
- Track 3 : Margaret\_55
- Track 4 : Button\_52
- Track 5 : Jamzy\_54
- Track 6 : Nodigi\_57
- Track 7 : Yakult\_52

### ***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 7 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Button\_52, GiKK\_54, Hexbug\_57, Jamzy\_54, Margaret\_55, Nodigi\_57, Orla\_57,

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

- 

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

- Yakult\_52,

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

Start 5:

- Found in 7 of 8 ( 87.5% ) of genes in pham
- Manual Annotations of this start: 7 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Button\_52 (CT), GiKK\_54 (CT), Hexbug\_57 (CT), Jamzy\_54 (CT), Margaret\_55 (CT), Nodigi\_57 (CT), Orla\_57 (CT),

Start 6:

- Found in 5 of 8 ( 62.5% ) of genes in pham
- Manual Annotations of this start: 1 of 8

- Called 20.0% of time when present
- Phage (with cluster) where this start called: Yakult\_52 (CT),

### **Summary by clusters:**

There is one cluster represented in this pham: CT

Info for manual annotations of cluster CT:

- Start number 5 was manually annotated 7 times for cluster CT.
- Start number 6 was manually annotated 1 time for cluster CT.

### **Gene Information:**

Gene: Button\_52 Start: 36221, Stop: 36051, Start Num: 5

Candidate Starts for Button\_52:

(1, 36629), (2, 36500), (Start: 5 @36221 has 7 MA's), (Start: 6 @36185 has 1 MA's), (7, 36128), (8, 36104), (10, 36077),

Gene: GiKK\_54 Start: 36545, Stop: 36375, Start Num: 5

Candidate Starts for GiKK\_54:

(Start: 5 @36545 has 7 MA's), (Start: 6 @36509 has 1 MA's), (7, 36452), (10, 36401),

Gene: Hexbug\_57 Start: 38613, Stop: 38431, Start Num: 5

Candidate Starts for Hexbug\_57:

(Start: 5 @38613 has 7 MA's), (7, 38514), (10, 38463), (11, 38457),

Gene: Jamzy\_54 Start: 36525, Stop: 36355, Start Num: 5

Candidate Starts for Jamzy\_54:

(Start: 5 @36525 has 7 MA's), (Start: 6 @36489 has 1 MA's), (7, 36432), (10, 36381),

Gene: Margaret\_55 Start: 37277, Stop: 37107, Start Num: 5

Candidate Starts for Margaret\_55:

(Start: 5 @37277 has 7 MA's), (Start: 6 @37241 has 1 MA's), (7, 37184), (10, 37133),

Gene: Nodigi\_57 Start: 38643, Stop: 38461, Start Num: 5

Candidate Starts for Nodigi\_57:

(Start: 5 @38643 has 7 MA's), (7, 38544), (9, 38517), (10, 38493), (11, 38487),

Gene: Orla\_57 Start: 38572, Stop: 38390, Start Num: 5

Candidate Starts for Orla\_57:

(Start: 5 @38572 has 7 MA's), (7, 38473), (10, 38422), (11, 38416),

Gene: Yakult\_52 Start: 37291, Stop: 37148, Start Num: 6

Candidate Starts for Yakult\_52:

(3, 37441), (4, 37315), (Start: 6 @37291 has 1 MA's), (10, 37183),