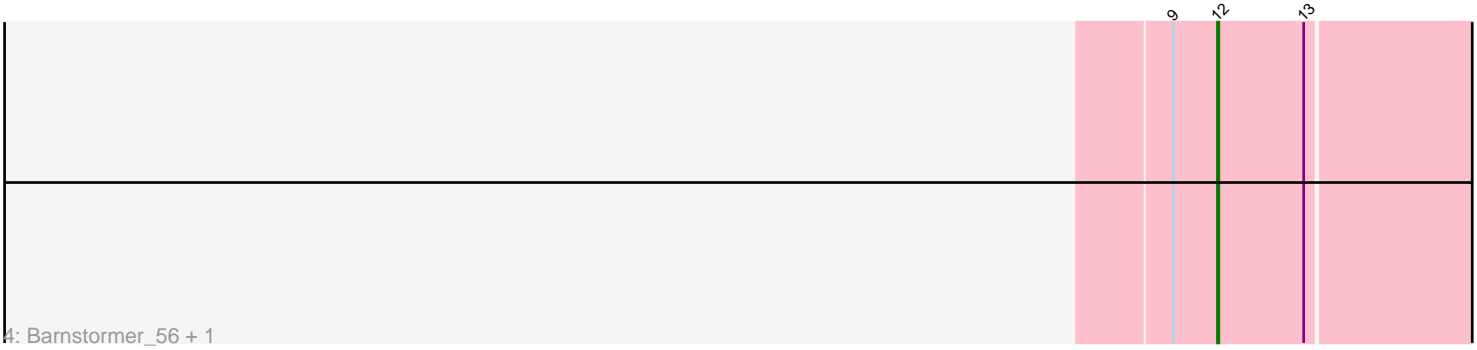
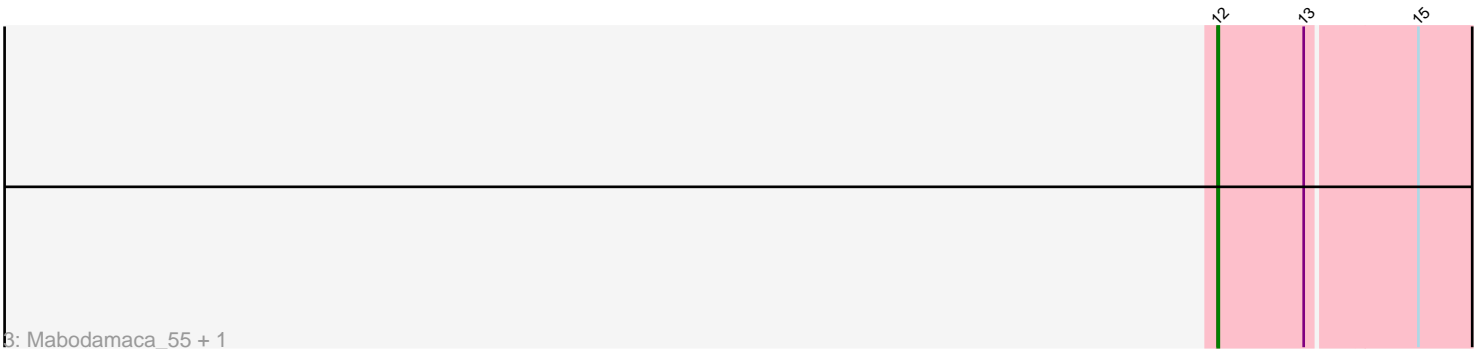
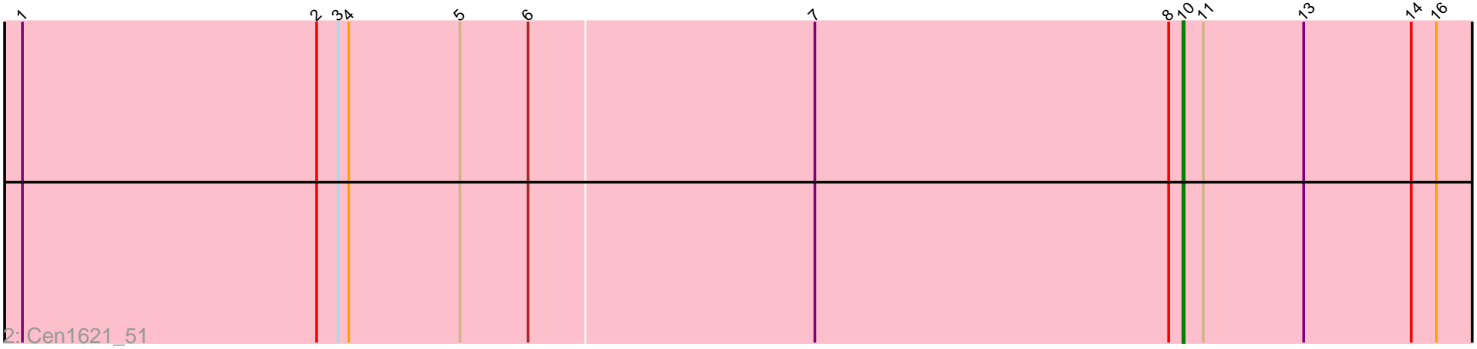


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 88658 Report

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

Pham number 88658 has 6 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Caron\_60
- Track 2 : Cen1621\_51
- Track 3 : Mabodamaca\_55, SuMoo\_59
- Track 4 : Barnstormer\_56, UtzChips\_56

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

The start number called the most often in the published annotations is 12, it was called in 4 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Barnstormer\_56, Caron\_60, Mabodamaca\_55, SuMoo\_59, UtzChips\_56,

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

- 

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

- Cen1621\_51,

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

Start 10:

- Found in 1 of 6 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cen1621\_51 (EH),

Start 12:

- Found in 5 of 6 ( 83.3% ) of genes in pham
- Manual Annotations of this start: 4 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barnstormer\_56 (EH), Caron\_60 (EH), Mabodamaca\_55 (EH), SuMoo\_59 (EH), UtzChips\_56 (EH),

## Summary by clusters:

There is one cluster represented in this pham: EH

Info for manual annotations of cluster EH:

- Start number 10 was manually annotated 1 time for cluster EH.
- Start number 12 was manually annotated 4 times for cluster EH.

### ***Gene Information:***

Gene: Barnstormer\_56 Start: 37223, Stop: 37489, Start Num: 12

Candidate Starts for Barnstormer\_56:

(9, 37187), (Start: 12 @37223 has 4 MA's), (13, 37295),

Gene: Caron\_60 Start: 38034, Stop: 38300, Start Num: 12

Candidate Starts for Caron\_60:

(Start: 12 @38034 has 4 MA's), (13, 38106),

Gene: Cen1621\_51 Start: 35408, Stop: 35716, Start Num: 10

Candidate Starts for Cen1621\_51:

(1, 34445), (2, 34691), (3, 34709), (4, 34718), (5, 34811), (6, 34868), (7, 35102), (8, 35396), (Start: 10 @35408 has 1 MA's), (11, 35423), (13, 35507), (14, 35597), (16, 35618),

Gene: Mabodamaca\_55 Start: 39056, Stop: 39322, Start Num: 12

Candidate Starts for Mabodamaca\_55:

(Start: 12 @39056 has 4 MA's), (13, 39128), (15, 39215),

Gene: SuMoo\_59 Start: 38541, Stop: 38807, Start Num: 12

Candidate Starts for SuMoo\_59:

(Start: 12 @38541 has 4 MA's), (13, 38613), (15, 38700),

Gene: UtzChips\_56 Start: 37210, Stop: 37476, Start Num: 12

Candidate Starts for UtzChips\_56:

(9, 37174), (Start: 12 @37210 has 4 MA's), (13, 37282),