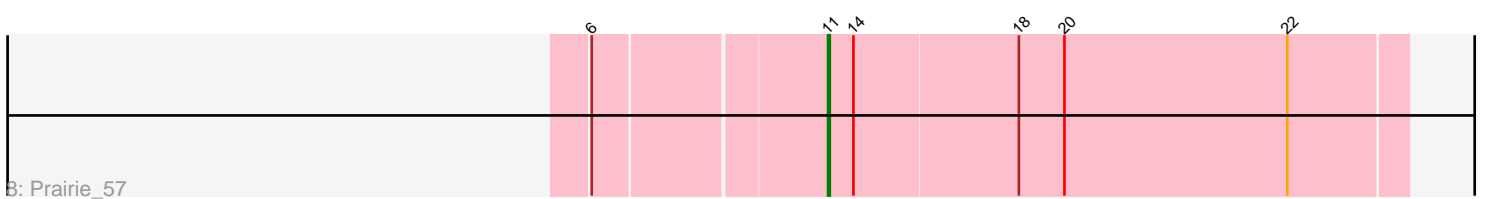
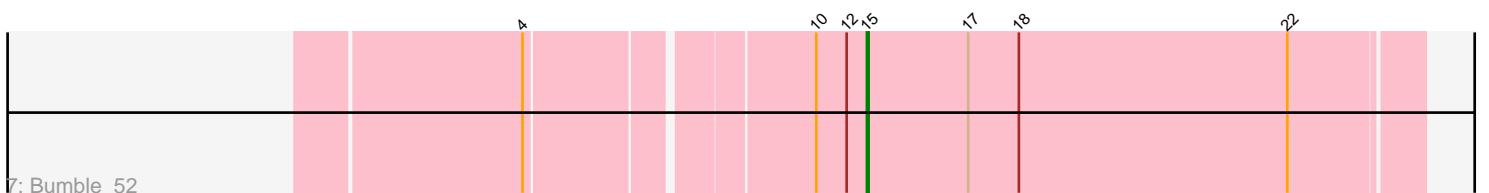
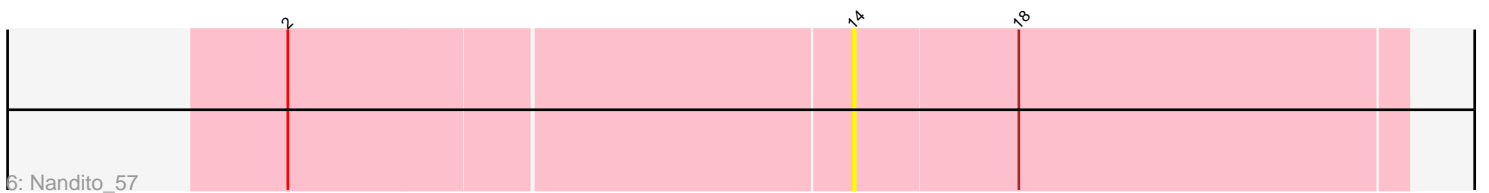
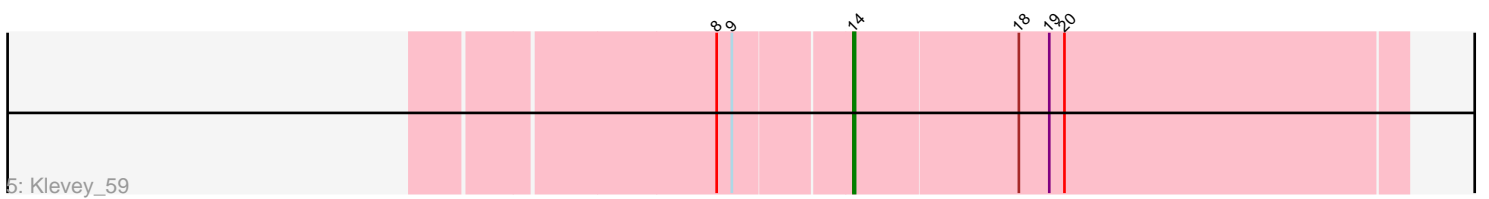
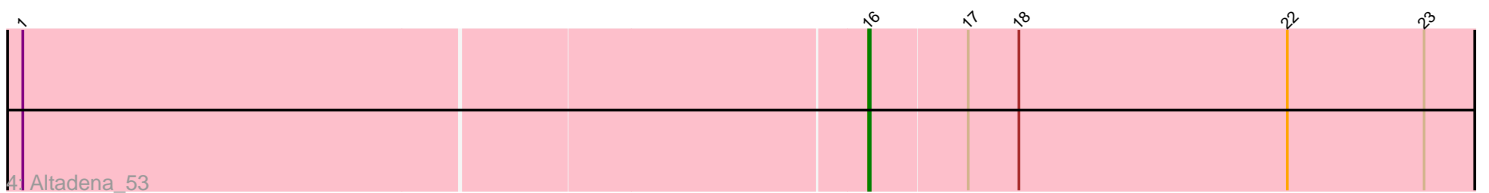
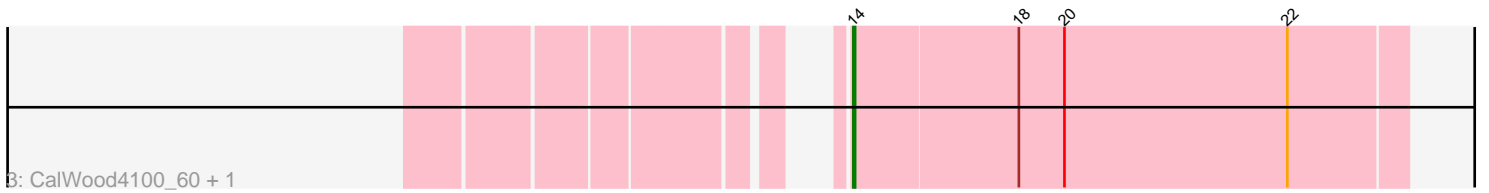
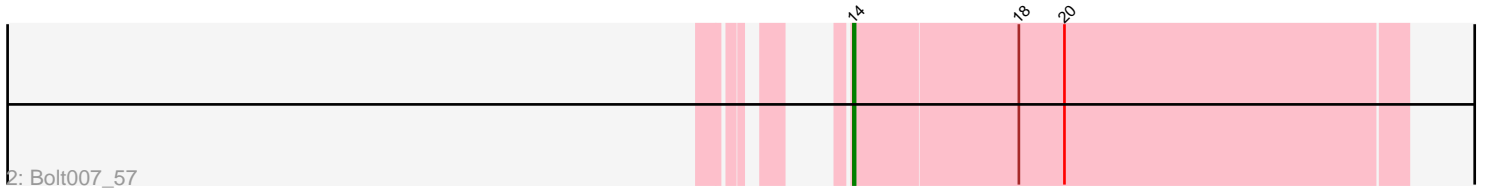
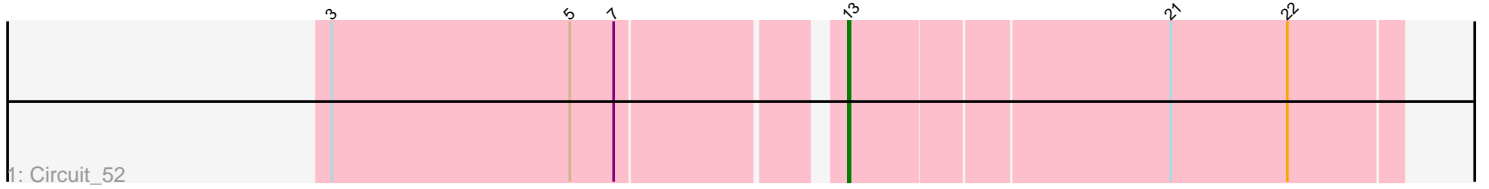


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 297262 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297262 has 9 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Circuit\_52
- Track 2 : Bolt007\_57
- Track 3 : CalWood4100\_60, Lilmac1015\_60
- Track 4 : Altadena\_53
- Track 5 : Klevey\_59
- Track 6 : Nandito\_57
- Track 7 : Bumble\_52
- Track 8 : Prairie\_57

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

The start number called the most often in the published annotations is 14, it was called in 3 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bolt007\_57, CalWood4100\_60, Klevey\_59, Lilmac1015\_60, Nandito\_57,

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

- Prairie\_57,

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

- Altadena\_53, Bumble\_52, Circuit\_52,

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

Start 11:

- Found in 1 of 9 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Prairie\_57 (FH),

Start 13:

- Found in 1 of 9 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 1 of 7

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Circuit\_52 (FH),

Start 14:

- Found in 6 of 9 ( 66.7% ) of genes in pham
- Manual Annotations of this start: 3 of 7
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Bolt007\_57 (FH), CalWood4100\_60 (FH), Klevey\_59 (FH), Lilmac1015\_60 (FH), Nandito\_57 (FH),

Start 15:

- Found in 1 of 9 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bumble\_52 (FH),

Start 16:

- Found in 1 of 9 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altadena\_53 (FH),

### **Summary by clusters:**

There is one cluster represented in this pham: FH

Info for manual annotations of cluster FH:

- Start number 11 was manually annotated 1 time for cluster FH.
- Start number 13 was manually annotated 1 time for cluster FH.
- Start number 14 was manually annotated 3 times for cluster FH.
- Start number 15 was manually annotated 1 time for cluster FH.
- Start number 16 was manually annotated 1 time for cluster FH.

### **Gene Information:**

Gene: Altadena\_53 Start: 35869, Stop: 36234, Start Num: 16

Candidate Starts for Altadena\_53:

(1, 35380), (Start: 16 @35869 has 1 MA's), (17, 35926), (18, 35956), (22, 36115), (23, 36196),

Gene: Bolt007\_57 Start: 39029, Stop: 39352, Start Num: 14

Candidate Starts for Bolt007\_57:

(Start: 14 @39029 has 3 MA's), (18, 39125), (20, 39152),

Gene: Bumble\_52 Start: 36806, Stop: 37129, Start Num: 15

Candidate Starts for Bumble\_52:

(4, 36620), (10, 36776), (12, 36794), (Start: 15 @36806 has 1 MA's), (17, 36866), (18, 36896), (22, 37055),

Gene: CalWood4100\_60 Start: 38925, Stop: 39248, Start Num: 14

Candidate Starts for CalWood4100\_60:

(Start: 14 @38925 has 3 MA's), (18, 39021), (20, 39048), (22, 39180),

Gene: Circuit\_52 Start: 37364, Stop: 37681, Start Num: 13

Candidate Starts for Circuit\_52:

(3, 37082), (5, 37223), (7, 37247), (Start: 13 @37364 has 1 MA's), (21, 37547), (22, 37616),

Gene: Klevey\_59 Start: 38706, Stop: 39029, Start Num: 14

Candidate Starts for Klevey\_59:

(8, 38631), (9, 38640), (Start: 14 @38706 has 3 MA's), (18, 38802), (19, 38820), (20, 38829),

Gene: Lilmac1015\_60 Start: 38925, Stop: 39248, Start Num: 14

Candidate Starts for Lilmac1015\_60:

(Start: 14 @38925 has 3 MA's), (18, 39021), (20, 39048), (22, 39180),

Gene: Nandito\_57 Start: 38704, Stop: 39027, Start Num: 14

Candidate Starts for Nandito\_57:

(2, 38380), (Start: 14 @38704 has 3 MA's), (18, 38800),

Gene: Prairie\_57 Start: 38056, Stop: 38394, Start Num: 11

Candidate Starts for Prairie\_57:

(6, 37927), (Start: 11 @38056 has 1 MA's), (Start: 14 @38071 has 3 MA's), (18, 38167), (20, 38194),  
(22, 38326),