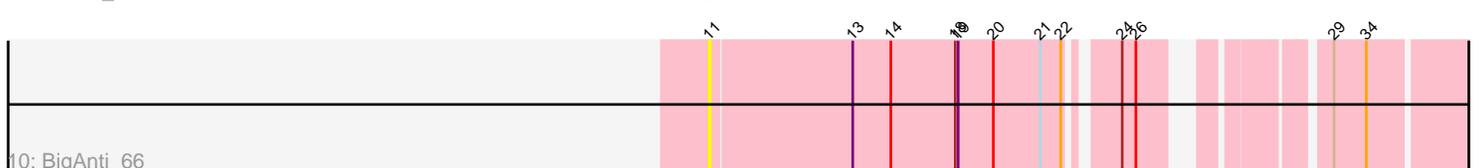
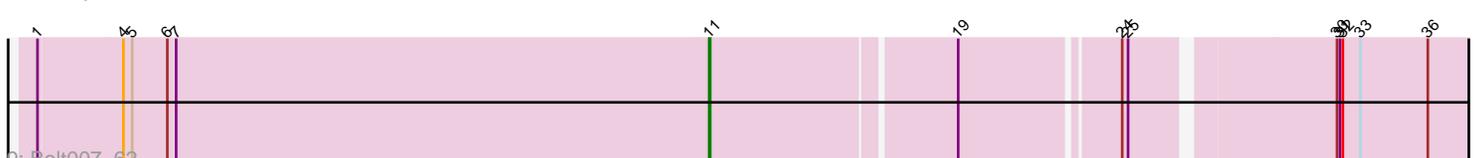
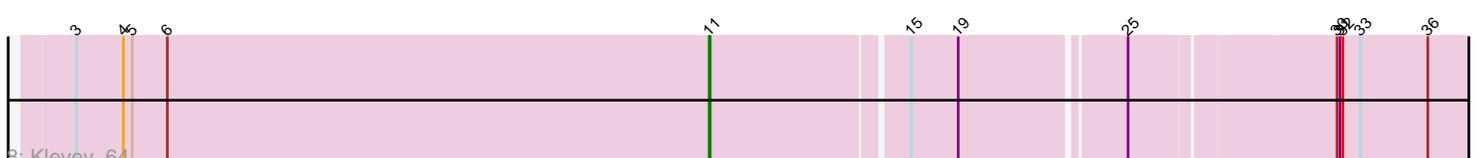
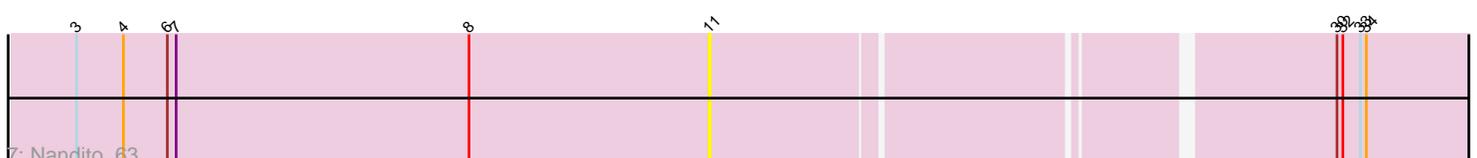
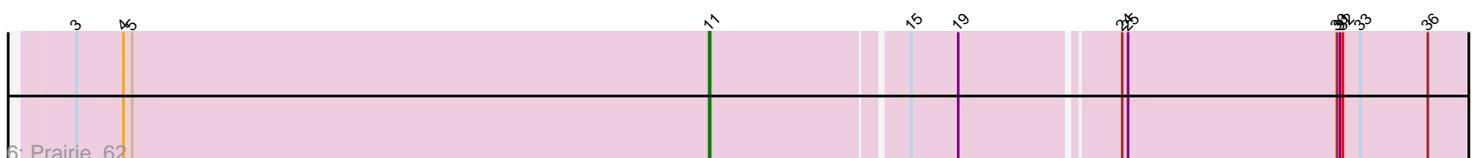
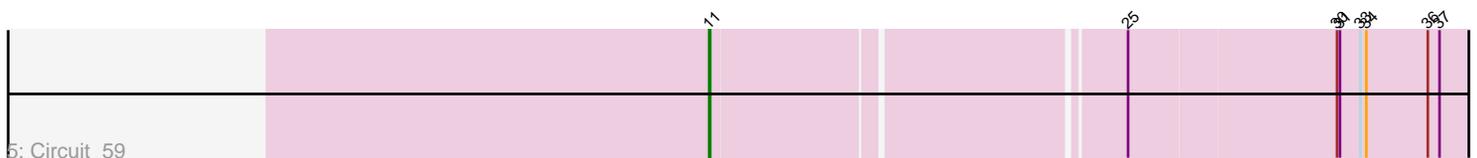
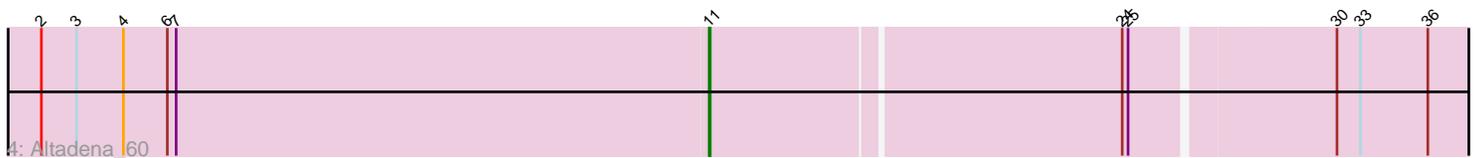
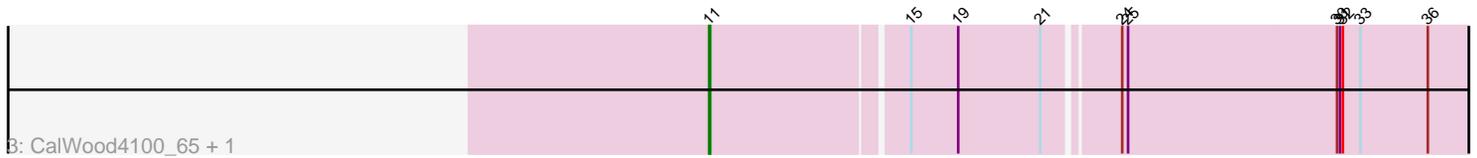
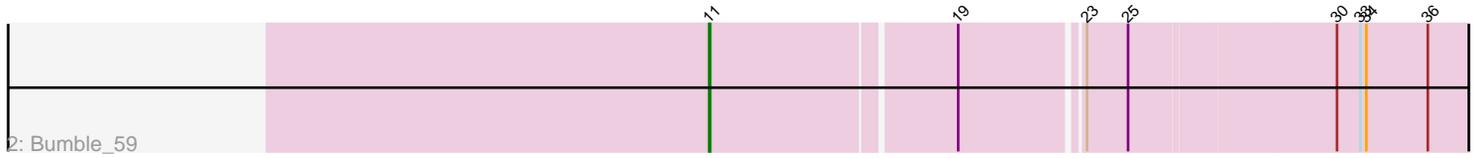
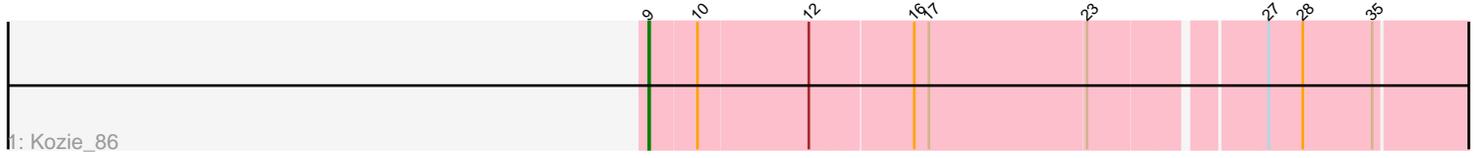


# Pham 284391



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 284391 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284391 has 11 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Kozie\_86
- Track 2 : Bumble\_59
- Track 3 : CalWood4100\_65, Lilmac1015\_65
- Track 4 : Altadena\_60
- Track 5 : Circuit\_59
- Track 6 : Prairie\_62
- Track 7 : Nandito\_63
- Track 8 : Klevey\_64
- Track 9 : Bolt007\_62
- Track 10 : BigAnti\_66

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

The start number called the most often in the published annotations is 11, it was called in 7 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Altadena\_60, BigAnti\_66, Bolt007\_62, Bumble\_59, CalWood4100\_65, Circuit\_59, Klevey\_64, Lilmac1015\_65, Nandito\_63, Prairie\_62,

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

- 

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

- Kozie\_86,

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

Start 9:

- Found in 1 of 11 ( 9.1% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kozie\_86 (E1),

Start 11:

- Found in 10 of 11 ( 90.9% ) 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: Altadena\_60 (FH), BigAnti\_66 (singleton), Bolt007\_62 (FH), Bumble\_59 (FH), CalWood4100\_65 (FH), Circuit\_59 (FH), Klevey\_64 (FH), Lilmac1015\_65 (FH), Nandito\_63 (FH), Prairie\_62 (FH),

### **Summary by clusters:**

There are 3 clusters represented in this pham: FH, singleton, EI,

Info for manual annotations of cluster EI:

- Start number 9 was manually annotated 1 time for cluster EI.

Info for manual annotations of cluster FH:

- Start number 11 was manually annotated 7 times for cluster FH.

### **Gene Information:**

Gene: Altadena\_60 Start: 38689, Stop: 39465, Start Num: 11

Candidate Starts for Altadena\_60:

(2, 38008), (3, 38044), (4, 38092), (6, 38137), (7, 38146), (Start: 11 @38689 has 7 MA's), (24, 39097), (25, 39103), (30, 39301), (33, 39325), (36, 39394),

Gene: BigAnti\_66 Start: 50973, Stop: 51656, Start Num: 11

Candidate Starts for BigAnti\_66:

(Start: 11 @50973 has 7 MA's), (13, 51114), (14, 51153), (18, 51219), (19, 51222), (20, 51258), (21, 51306), (22, 51327), (24, 51366), (26, 51378), (29, 51519), (34, 51552),

Gene: Bolt007\_62 Start: 40946, Stop: 41710, Start Num: 11

Candidate Starts for Bolt007\_62:

(1, 40265), (4, 40349), (5, 40358), (6, 40394), (7, 40403), (Start: 11 @40946 has 7 MA's), (19, 41186), (24, 41339), (25, 41345), (30, 41537), (31, 41540), (32, 41543), (33, 41561), (36, 41630),

Gene: Bumble\_59 Start: 39508, Stop: 40269, Start Num: 11

Candidate Starts for Bumble\_59:

(Start: 11 @39508 has 7 MA's), (19, 39748), (23, 39865), (25, 39907), (30, 40111), (33, 40135), (34, 40141), (36, 40204),

Gene: CalWood4100\_65 Start: 40886, Stop: 41671, Start Num: 11

Candidate Starts for CalWood4100\_65:

(Start: 11 @40886 has 7 MA's), (15, 41078), (19, 41126), (21, 41210), (24, 41279), (25, 41285), (30, 41498), (31, 41501), (32, 41504), (33, 41522), (36, 41591),

Gene: Circuit\_59 Start: 40042, Stop: 40803, Start Num: 11

Candidate Starts for Circuit\_59:

(Start: 11 @40042 has 7 MA's), (25, 40438), (30, 40645), (31, 40648), (33, 40669), (34, 40675), (36, 40738), (37, 40750),

Gene: Klevey\_64 Start: 40643, Stop: 41416, Start Num: 11

Candidate Starts for Klevey\_64:

(3, 39998), (4, 40046), (5, 40055), (6, 40091), (Start: 11 @40643 has 7 MA's), (15, 40835), (19, 40883), (25, 41042), (30, 41243), (31, 41246), (32, 41249), (33, 41267), (36, 41336),

Gene: Kozie\_86 Start: 51332, Stop: 52135, Start Num: 9

Candidate Starts for Kozie\_86:

(Start: 9 @51332 has 1 MA's), (10, 51377), (12, 51488), (16, 51590), (17, 51605), (23, 51764), (27, 51926), (28, 51959), (35, 52028),

Gene: Lilmac1015\_65 Start: 40886, Stop: 41671, Start Num: 11

Candidate Starts for Lilmac1015\_65:

(Start: 11 @40886 has 7 MA's), (15, 41078), (19, 41126), (21, 41210), (24, 41279), (25, 41285), (30, 41498), (31, 41501), (32, 41504), (33, 41522), (36, 41591),

Gene: Nandito\_63 Start: 41050, Stop: 41814, Start Num: 11

Candidate Starts for Nandito\_63:

(3, 40405), (4, 40453), (6, 40498), (7, 40507), (8, 40807), (Start: 11 @41050 has 7 MA's), (30, 41641), (32, 41647), (33, 41665), (34, 41671),

Gene: Prairie\_62 Start: 40182, Stop: 40967, Start Num: 11

Candidate Starts for Prairie\_62:

(3, 39537), (4, 39585), (5, 39594), (Start: 11 @40182 has 7 MA's), (15, 40374), (19, 40422), (24, 40575), (25, 40581), (30, 40794), (31, 40797), (32, 40800), (33, 40818), (36, 40887),