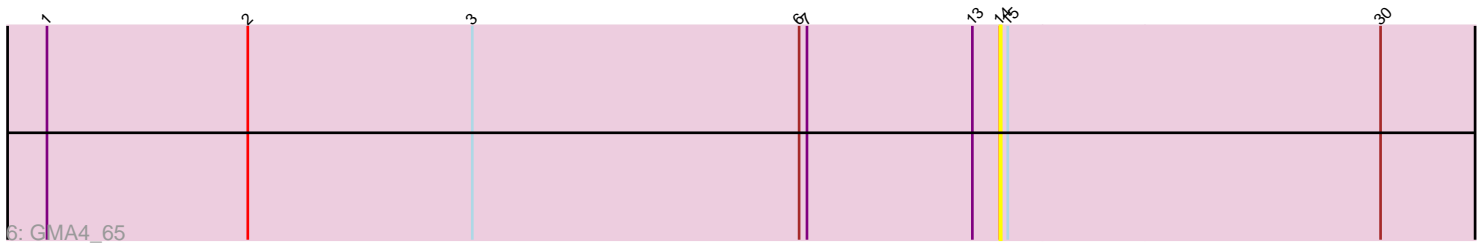
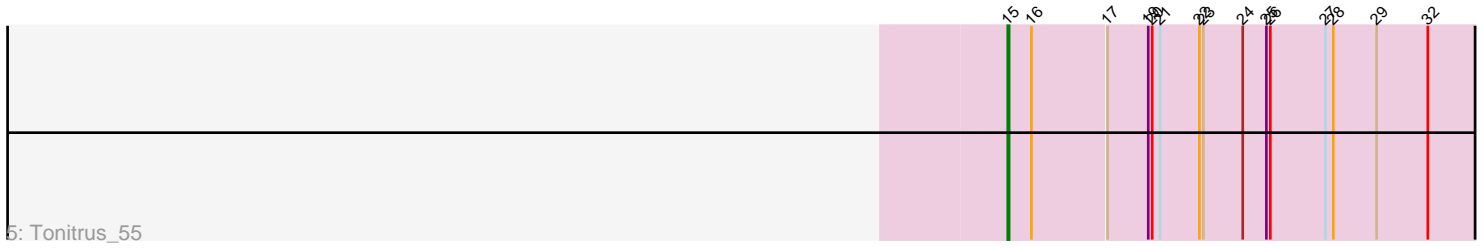
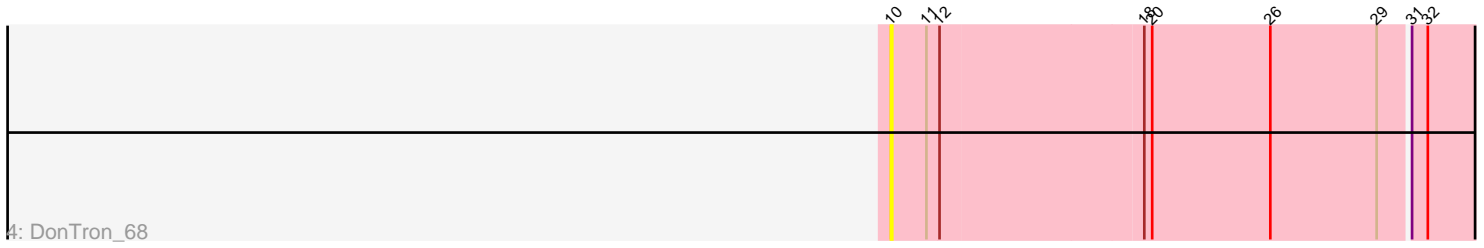
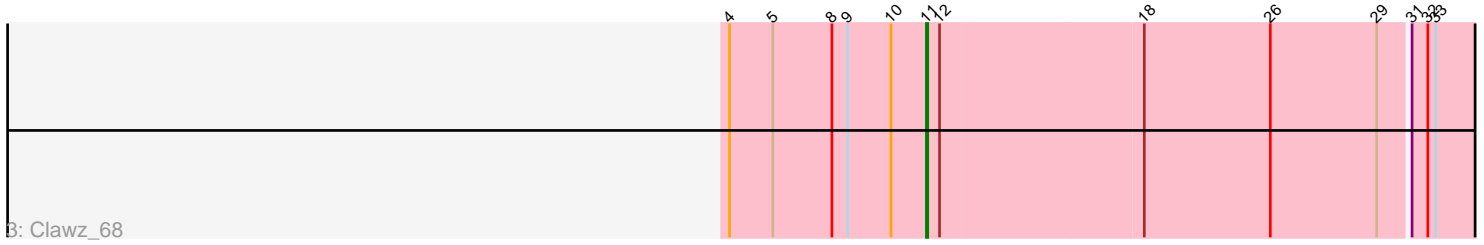
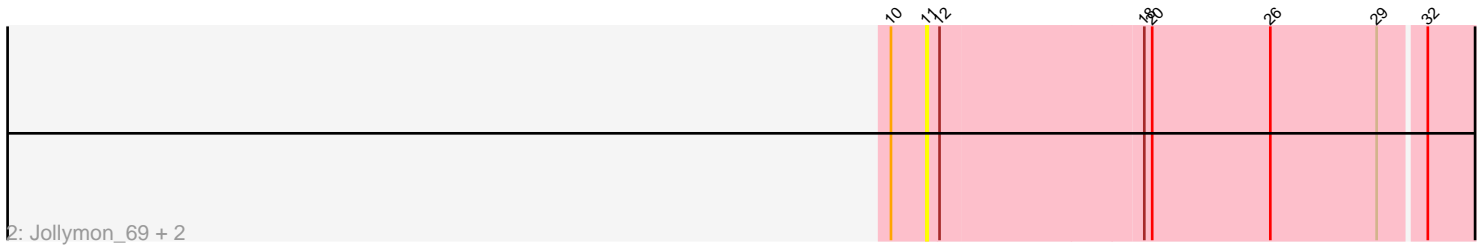
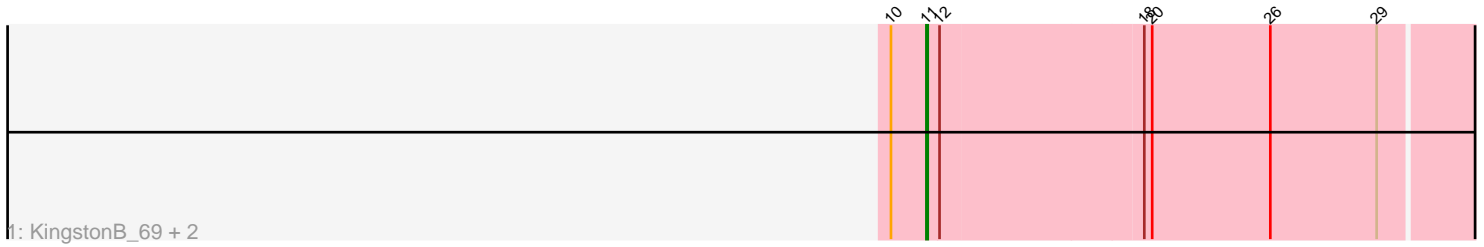


Pham 209208



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 209208 Report

This analysis was run 02/22/25 on database version 588.

Pham number 209208 has 10 members, 6 are drafts.

Phages represented in each track:

- Track 1 : KingstonB\_69, Sting\_67, Soos\_64
- Track 2 : Jollymon\_69, Amo99\_69, ColdSoup\_69
- Track 3 : Clawz\_68
- Track 4 : DonTron\_68
- Track 5 : Tonitrus\_55
- Track 6 : GMA4\_65

### ***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 3 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amo99\_69, Clawz\_68, ColdSoup\_69, Jollymon\_69, KingstonB\_69, Soos\_64, Sting\_67,

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

- DonTron\_68,

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

- GMA4\_65, Tonitrus\_55,

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

Start 10:

- Found in 8 of 10 ( 80.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 12.5% of time when present
- Phage (with cluster) where this start called: DonTron\_68 (CP),

Start 11:

- Found in 8 of 10 ( 80.0% ) of genes in pham
- Manual Annotations of this start: 3 of 4
- Called 87.5% of time when present

- Phage (with cluster) where this start called: Amo99\_69 (CP), Clawz\_68 (CP), ColdSoup\_69 (CP), Jollymon\_69 (CP), KingstonB\_69 (CP), Soos\_64 (CP), Sting\_67 (CP),

#### Start 14:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA4\_65 (singleton),

#### Start 15:

- Found in 2 of 10 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 1 of 4
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Tonitrus\_55 (singleton),

### Summary by clusters:

There are 2 clusters represented in this pham: singleton, CP,

Info for manual annotations of cluster CP:

- Start number 11 was manually annotated 3 times for cluster CP.

### **Gene Information:**

Gene: Amo99\_69 Start: 45305, Stop: 45724, Start Num: 11

Candidate Starts for Amo99\_69:

(10, 45278), (Start: 11 @45305 has 3 MA's), (12, 45314), (18, 45464), (20, 45470), (26, 45560), (29, 45641), (32, 45674),

Gene: Clawz\_68 Start: 45191, Stop: 45610, Start Num: 11

Candidate Starts for Clawz\_68:

(4, 45041), (5, 45074), (8, 45119), (9, 45131), (10, 45164), (Start: 11 @45191 has 3 MA's), (12, 45200), (18, 45350), (26, 45446), (29, 45527), (31, 45548), (32, 45560), (33, 45566),

Gene: ColdSoup\_69 Start: 45386, Stop: 45805, Start Num: 11

Candidate Starts for ColdSoup\_69:

(10, 45359), (Start: 11 @45386 has 3 MA's), (12, 45395), (18, 45545), (20, 45551), (26, 45641), (29, 45722), (32, 45755),

Gene: DonTron\_68 Start: 45400, Stop: 45846, Start Num: 10

Candidate Starts for DonTron\_68:

(10, 45400), (Start: 11 @45427 has 3 MA's), (12, 45436), (18, 45586), (20, 45592), (26, 45682), (29, 45763), (31, 45784), (32, 45796),

Gene: GMA4\_65 Start: 42338, Stop: 42712, Start Num: 14

Candidate Starts for GMA4\_65:

(1, 41612), (2, 41765), (3, 41936), (6, 42185), (7, 42191), (13, 42317), (14, 42338), (Start: 15 @42344 has 1 MA's), (30, 42626),

Gene: Jollymon\_69 Start: 45386, Stop: 45805, Start Num: 11

Candidate Starts for Jollymon\_69:

(10, 45359), (Start: 11 @45386 has 3 MA's), (12, 45395), (18, 45545), (20, 45551), (26, 45641), (29, 45722), (32, 45755),

Gene: KingstonB\_69 Start: 44865, Stop: 45284, Start Num: 11

Candidate Starts for KingstonB\_69:

(10, 44838), (Start: 11 @44865 has 3 MA's), (12, 44874), (18, 45024), (20, 45030), (26, 45120), (29, 45201),

Gene: Soos\_64 Start: 44594, Stop: 45013, Start Num: 11

Candidate Starts for Soos\_64:

(10, 44567), (Start: 11 @44594 has 3 MA's), (12, 44603), (18, 44753), (20, 44759), (26, 44849), (29, 44930),

Gene: Sting\_67 Start: 45033, Stop: 45452, Start Num: 11

Candidate Starts for Sting\_67:

(10, 45006), (Start: 11 @45033 has 3 MA's), (12, 45042), (18, 45192), (20, 45198), (26, 45288), (29, 45369),

Gene: Tonitrus\_55 Start: 41828, Stop: 42193, Start Num: 15

Candidate Starts for Tonitrus\_55:

(Start: 15 @41828 has 1 MA's), (16, 41846), (17, 41900), (19, 41930), (20, 41933), (21, 41939), (22, 41969), (23, 41972), (24, 42002), (25, 42020), (26, 42023), (27, 42065), (28, 42071), (29, 42104), (32, 42143),