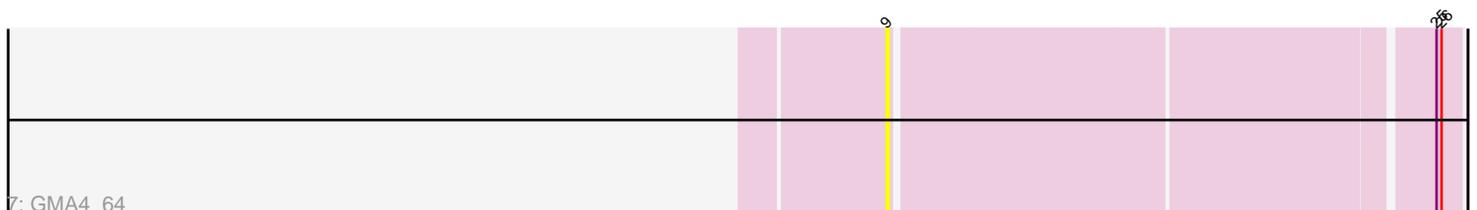
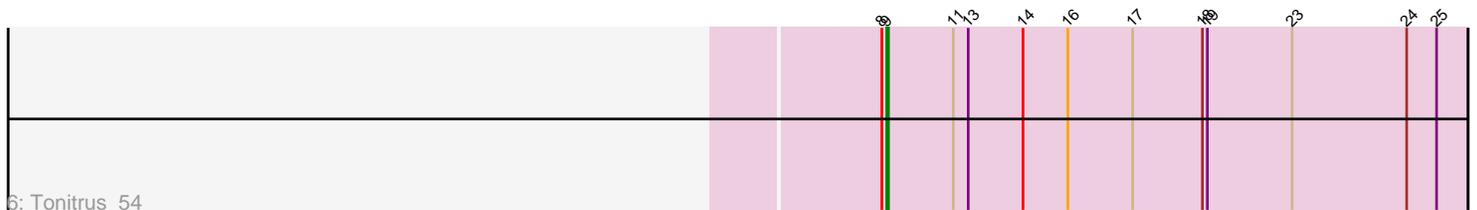
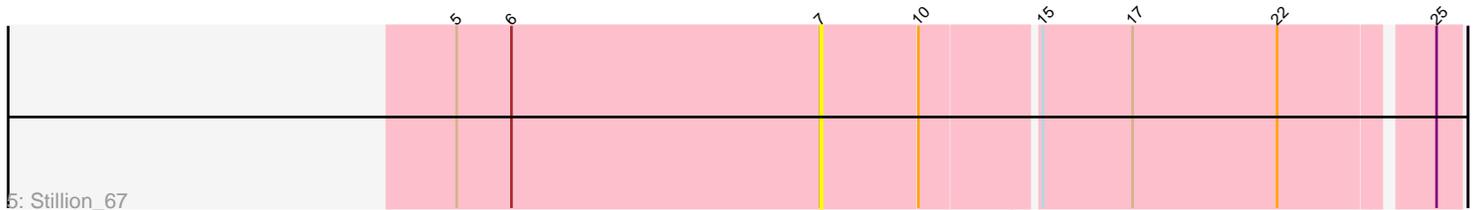
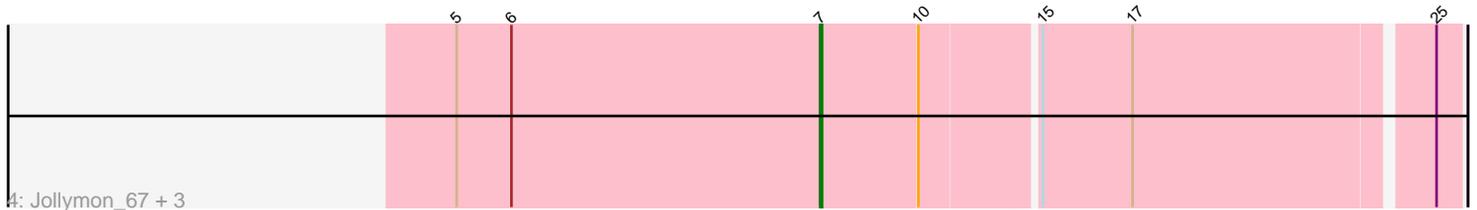
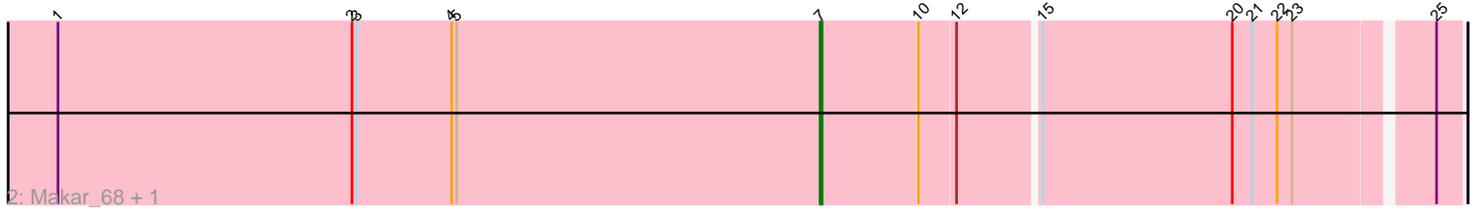


Pham 291665



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 291665 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291665 has 14 members, 8 are drafts.

Phages represented in each track:

- Track 1 : KingstonB\_68, Sting\_66, Soos\_63, Grumio\_67
- Track 2 : Makar\_68, Clawz\_67
- Track 3 : DonTron\_67
- Track 4 : Jollymon\_67, Amo99\_68, Purplicious\_66, ColdSoup\_68
- Track 5 : Stillion\_67
- Track 6 : Tonitrus\_54
- Track 7 : GMA4\_64

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

The start number called the most often in the published annotations is 7, it was called in 5 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amo99\_68, Clawz\_67, ColdSoup\_68, DonTron\_67, Grumio\_67, Jollymon\_67, KingstonB\_68, Makar\_68, Purplicious\_66, Soos\_63, Stillion\_67, Sting\_66,

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

- 

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

- GMA4\_64, Tonitrus\_54,

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

Start 7:

- Found in 12 of 14 ( 85.7% ) of genes in pham
- Manual Annotations of this start: 5 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amo99\_68 (CP), Clawz\_67 (CP), ColdSoup\_68 (CP), DonTron\_67 (CP), Grumio\_67 (CP), Jollymon\_67 (CP), KingstonB\_68 (CP), Makar\_68 (CP), Purplicious\_66 (CP), Soos\_63 (CP), Stillion\_67 (CP), Sting\_66 (CP),

Start 9:

- Found in 2 of 14 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA4\_64 (singleton), Tonitrus\_54 (singleton),

### **Summary by clusters:**

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

Info for manual annotations of cluster CP:

- Start number 7 was manually annotated 5 times for cluster CP.

### **Gene Information:**

Gene: Amo99\_68 Start: 44946, Stop: 45308, Start Num: 7

Candidate Starts for Amo99\_68:

(5, 44727), (6, 44760), (Start: 7 @44946 has 5 MA's), (10, 45003), (15, 45069), (17, 45123), (25, 45294),

Gene: Clawz\_67 Start: 44832, Stop: 45194, Start Num: 7

Candidate Starts for Clawz\_67:

(1, 44373), (2, 44550), (3, 44553), (4, 44610), (5, 44613), (Start: 7 @44832 has 5 MA's), (10, 44889), (12, 44910), (15, 44955), (20, 45069), (21, 45081), (22, 45096), (23, 45105), (25, 45180),

Gene: ColdSoup\_68 Start: 45027, Stop: 45389, Start Num: 7

Candidate Starts for ColdSoup\_68:

(5, 44808), (6, 44841), (Start: 7 @45027 has 5 MA's), (10, 45084), (15, 45150), (17, 45204), (25, 45375),

Gene: DonTron\_67 Start: 45068, Stop: 45430, Start Num: 7

Candidate Starts for DonTron\_67:

(Start: 7 @45068 has 5 MA's), (10, 45125), (15, 45191), (17, 45245), (21, 45317), (22, 45332), (25, 45416),

Gene: GMA4\_64 Start: 42024, Stop: 42347, Start Num: 9

Candidate Starts for GMA4\_64:

(Start: 9 @42024 has 1 MA's), (25, 42333), (26, 42336),

Gene: Grumio\_67 Start: 44509, Stop: 44871, Start Num: 7

Candidate Starts for Grumio\_67:

(Start: 7 @44509 has 5 MA's), (10, 44566), (15, 44632), (17, 44686), (22, 44773), (25, 44857),

Gene: Jollymon\_67 Start: 45027, Stop: 45389, Start Num: 7

Candidate Starts for Jollymon\_67:

(5, 44808), (6, 44841), (Start: 7 @45027 has 5 MA's), (10, 45084), (15, 45150), (17, 45204), (25, 45375),

Gene: KingstonB\_68 Start: 44506, Stop: 44868, Start Num: 7

Candidate Starts for KingstonB\_68:

(Start: 7 @44506 has 5 MA's), (10, 44563), (15, 44629), (17, 44683), (22, 44770), (25, 44854),

Gene: Makar\_68 Start: 44859, Stop: 45221, Start Num: 7

Candidate Starts for Makar\_68:

(1, 44400), (2, 44577), (3, 44580), (4, 44637), (5, 44640), (Start: 7 @44859 has 5 MA's), (10, 44916), (12, 44937), (15, 44982), (20, 45096), (21, 45108), (22, 45123), (23, 45132), (25, 45207),

Gene: Purplicious\_66 Start: 44274, Stop: 44636, Start Num: 7

Candidate Starts for Purplicious\_66:

(5, 44055), (6, 44088), (Start: 7 @44274 has 5 MA's), (10, 44331), (15, 44397), (17, 44451), (25, 44622),

Gene: Soos\_63 Start: 44235, Stop: 44597, Start Num: 7

Candidate Starts for Soos\_63:

(Start: 7 @44235 has 5 MA's), (10, 44292), (15, 44358), (17, 44412), (22, 44499), (25, 44583),

Gene: Stillion\_67 Start: 44832, Stop: 45194, Start Num: 7

Candidate Starts for Stillion\_67:

(5, 44613), (6, 44646), (Start: 7 @44832 has 5 MA's), (10, 44889), (15, 44955), (17, 45009), (22, 45096), (25, 45180),

Gene: Sting\_66 Start: 44674, Stop: 45036, Start Num: 7

Candidate Starts for Sting\_66:

(Start: 7 @44674 has 5 MA's), (10, 44731), (15, 44797), (17, 44851), (22, 44938), (25, 45022),

Gene: Tonitrus\_54 Start: 41488, Stop: 41835, Start Num: 9

Candidate Starts for Tonitrus\_54:

(8, 41485), (Start: 9 @41488 has 1 MA's), (11, 41527), (13, 41536), (14, 41569), (16, 41596), (17, 41635), (18, 41677), (19, 41680), (23, 41731), (24, 41800), (25, 41818),