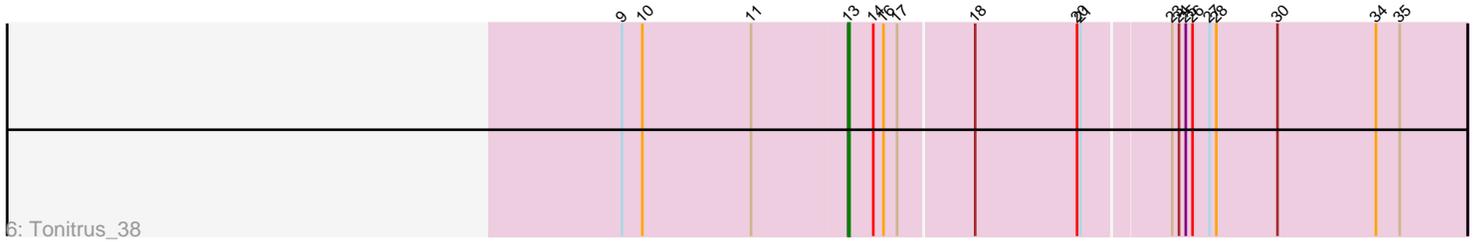
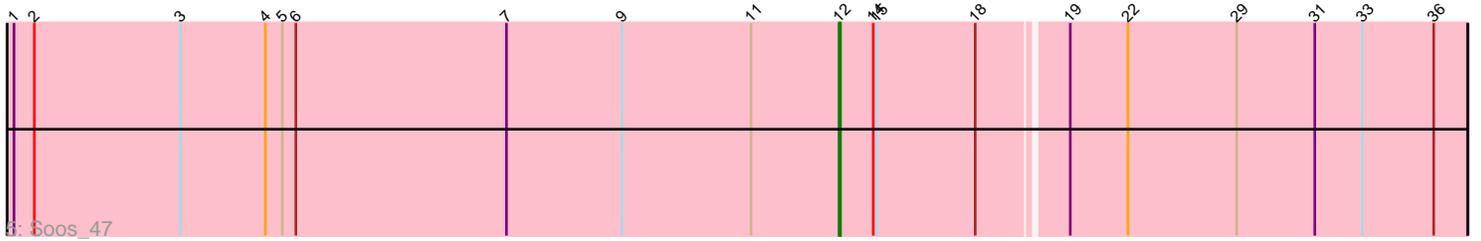
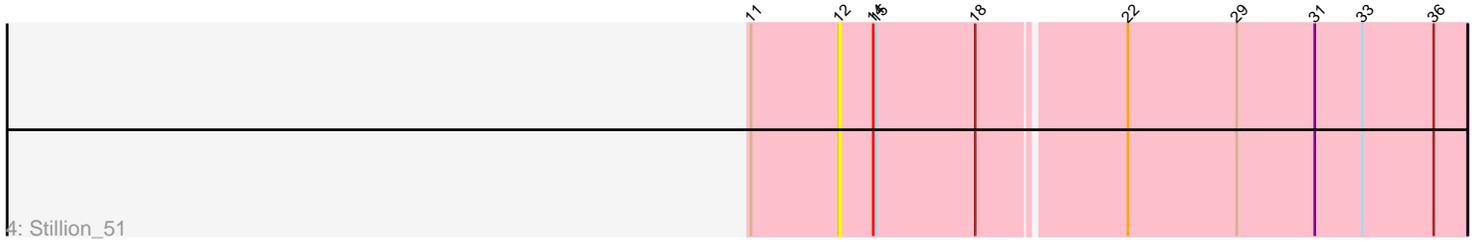
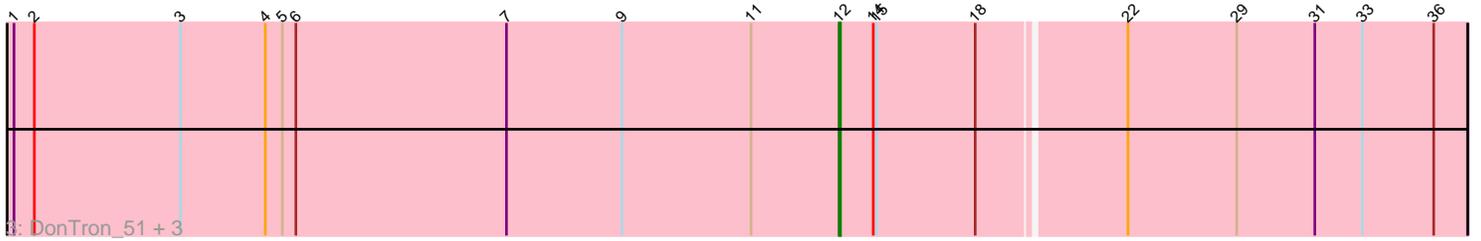
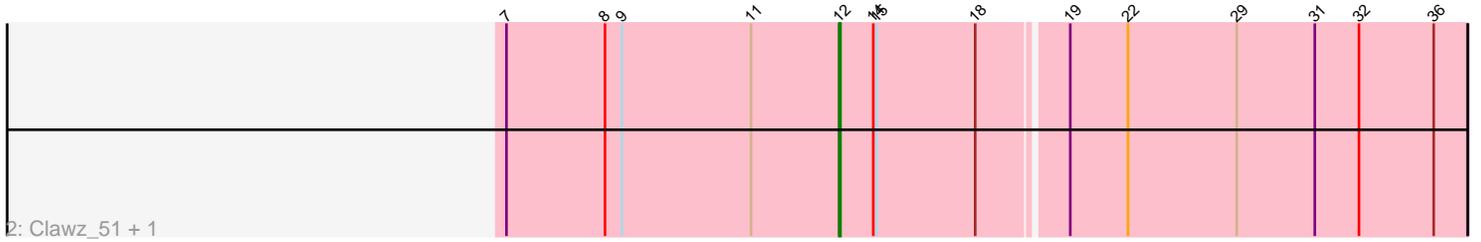
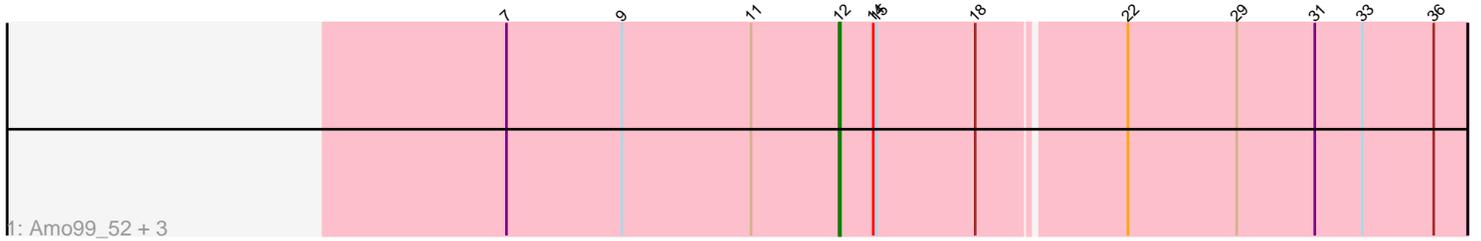


Pham 284329



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 284329 Report

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

Pham number 284329 has 13 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Amo99\_52, Jollymon\_51, ColdSoup\_52, Purplicious\_50
- Track 2 : Clawz\_51, Makar\_52
- Track 3 : DonTron\_51, KingstonB\_52, Sting\_50, Grumio\_51
- Track 4 : Stillion\_51
- Track 5 : Soos\_47
- Track 6 : Tonitrus\_38

### ***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 5 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amo99\_52, Clawz\_51, ColdSoup\_52, DonTron\_51, Grumio\_51, Jollymon\_51, KingstonB\_52, Makar\_52, Purplicious\_50, Soos\_47, Stillion\_51, Sting\_50,

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

- 

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

- Tonitrus\_38,

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

Start 12:

- Found in 12 of 13 ( 92.3% ) 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\_52 (CP), Clawz\_51 (CP), ColdSoup\_52 (CP), DonTron\_51 (CP), Grumio\_51 (CP), Jollymon\_51 (CP), KingstonB\_52 (CP), Makar\_52 (CP), Purplicious\_50 (CP), Soos\_47 (CP), Stillion\_51 (CP), Sting\_50 (CP),

Start 13:

- Found in 1 of 13 ( 7.7% ) 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: Tonitrus\_38 (singleton),

### Summary by clusters:

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

Info for manual annotations of cluster CP:

- Start number 12 was manually annotated 5 times for cluster CP.

### Gene Information:

Gene: Amo99\_52 Start: 28627, Stop: 29169, Start Num: 12

Candidate Starts for Amo99\_52:

(7, 28333), (9, 28435), (11, 28549), (Start: 12 @28627 has 5 MA's), (14, 28657), (15, 28660), (18, 28747), (22, 28870), (29, 28966), (31, 29035), (33, 29077), (36, 29140),

Gene: Clawz\_51 Start: 28542, Stop: 29084, Start Num: 12

Candidate Starts for Clawz\_51:

(7, 28248), (8, 28335), (9, 28350), (11, 28464), (Start: 12 @28542 has 5 MA's), (14, 28572), (15, 28575), (18, 28662), (19, 28734), (22, 28785), (29, 28881), (31, 28950), (32, 28989), (36, 29055),

Gene: ColdSoup\_52 Start: 28627, Stop: 29169, Start Num: 12

Candidate Starts for ColdSoup\_52:

(7, 28333), (9, 28435), (11, 28549), (Start: 12 @28627 has 5 MA's), (14, 28657), (15, 28660), (18, 28747), (22, 28870), (29, 28966), (31, 29035), (33, 29077), (36, 29140),

Gene: DonTron\_51 Start: 28667, Stop: 29209, Start Num: 12

Candidate Starts for DonTron\_51:

(1, 27938), (2, 27956), (3, 28085), (4, 28160), (5, 28175), (6, 28187), (7, 28373), (9, 28475), (11, 28589), (Start: 12 @28667 has 5 MA's), (14, 28697), (15, 28700), (18, 28787), (22, 28910), (29, 29006), (31, 29075), (33, 29117), (36, 29180),

Gene: Grumio\_51 Start: 28105, Stop: 28647, Start Num: 12

Candidate Starts for Grumio\_51:

(1, 27376), (2, 27394), (3, 27523), (4, 27598), (5, 27613), (6, 27625), (7, 27811), (9, 27913), (11, 28027), (Start: 12 @28105 has 5 MA's), (14, 28135), (15, 28138), (18, 28225), (22, 28348), (29, 28444), (31, 28513), (33, 28555), (36, 28618),

Gene: Jollymon\_51 Start: 28627, Stop: 29169, Start Num: 12

Candidate Starts for Jollymon\_51:

(7, 28333), (9, 28435), (11, 28549), (Start: 12 @28627 has 5 MA's), (14, 28657), (15, 28660), (18, 28747), (22, 28870), (29, 28966), (31, 29035), (33, 29077), (36, 29140),

Gene: KingstonB\_52 Start: 28105, Stop: 28647, Start Num: 12

Candidate Starts for KingstonB\_52:

(1, 27376), (2, 27394), (3, 27523), (4, 27598), (5, 27613), (6, 27625), (7, 27811), (9, 27913), (11, 28027), (Start: 12 @28105 has 5 MA's), (14, 28135), (15, 28138), (18, 28225), (22, 28348), (29, 28444), (31, 28513), (33, 28555), (36, 28618),

Gene: Makar\_52 Start: 28569, Stop: 29111, Start Num: 12

Candidate Starts for Makar\_52:

(7, 28275), (8, 28362), (9, 28377), (11, 28491), (Start: 12 @28569 has 5 MA's), (14, 28599), (15, 28602), (18, 28689), (19, 28761), (22, 28812), (29, 28908), (31, 28977), (32, 29016), (36, 29082),

Gene: Purplicious\_50 Start: 27873, Stop: 28415, Start Num: 12

Candidate Starts for Purplicious\_50:

(7, 27579), (9, 27681), (11, 27795), (Start: 12 @27873 has 5 MA's), (14, 27903), (15, 27906), (18, 27993), (22, 28116), (29, 28212), (31, 28281), (33, 28323), (36, 28386),

Gene: Soos\_47 Start: 27834, Stop: 28376, Start Num: 12

Candidate Starts for Soos\_47:

(1, 27105), (2, 27123), (3, 27252), (4, 27327), (5, 27342), (6, 27354), (7, 27540), (9, 27642), (11, 27756), (Start: 12 @27834 has 5 MA's), (14, 27864), (15, 27867), (18, 27954), (19, 28026), (22, 28077), (29, 28173), (31, 28242), (33, 28284), (36, 28347),

Gene: Stillion\_51 Start: 28431, Stop: 28973, Start Num: 12

Candidate Starts for Stillion\_51:

(11, 28353), (Start: 12 @28431 has 5 MA's), (14, 28461), (15, 28464), (18, 28551), (22, 28674), (29, 28770), (31, 28839), (33, 28881), (36, 28944),

Gene: Sting\_50 Start: 28273, Stop: 28815, Start Num: 12

Candidate Starts for Sting\_50:

(1, 27544), (2, 27562), (3, 27691), (4, 27766), (5, 27781), (6, 27793), (7, 27979), (9, 28081), (11, 28195), (Start: 12 @28273 has 5 MA's), (14, 28303), (15, 28306), (18, 28393), (22, 28516), (29, 28612), (31, 28681), (33, 28723), (36, 28786),

Gene: Tonitrus\_38 Start: 26505, Stop: 27032, Start Num: 13

Candidate Starts for Tonitrus\_38:

(9, 26307), (10, 26325), (11, 26421), (Start: 13 @26505 has 1 MA's), (14, 26526), (16, 26535), (17, 26547), (18, 26607), (20, 26697), (21, 26700), (23, 26772), (24, 26778), (25, 26784), (26, 26790), (27, 26805), (28, 26811), (30, 26865), (34, 26952), (35, 26973),