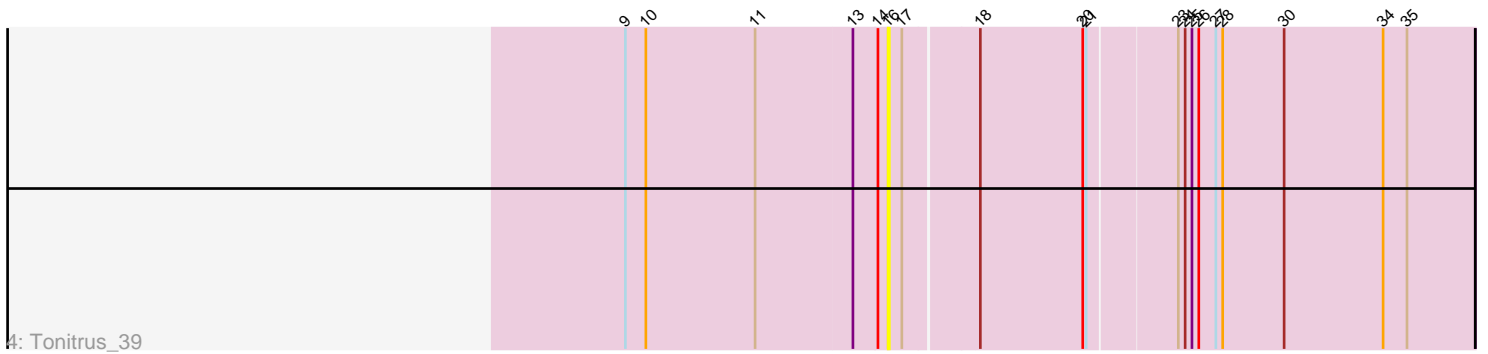
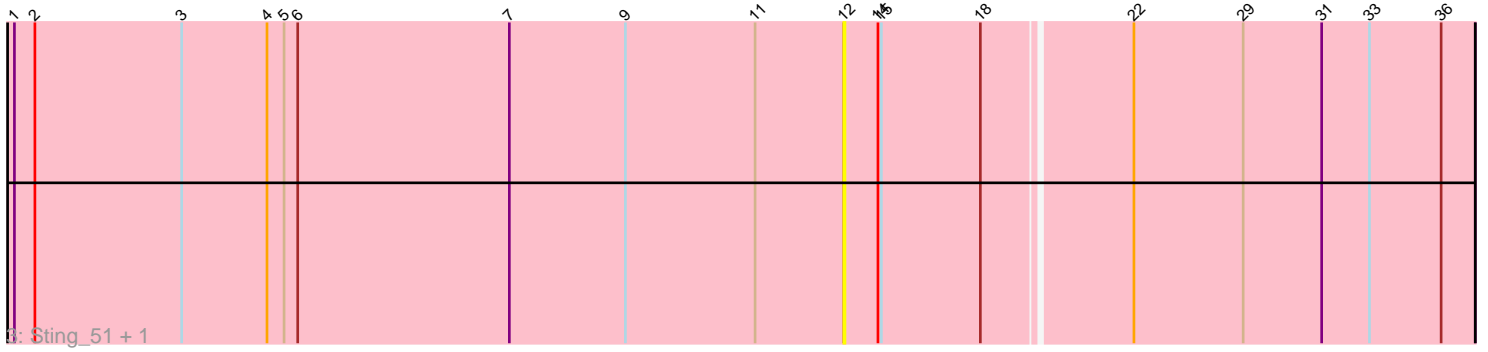
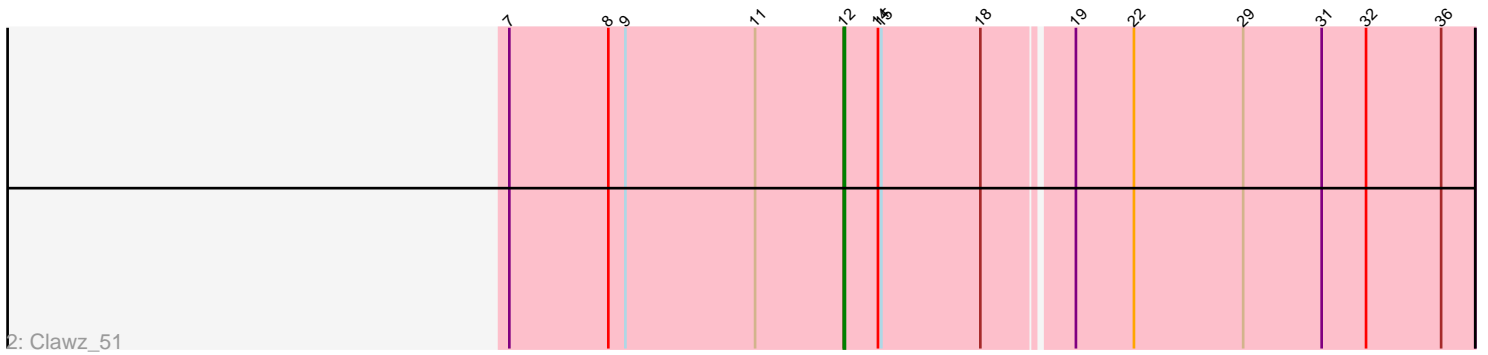
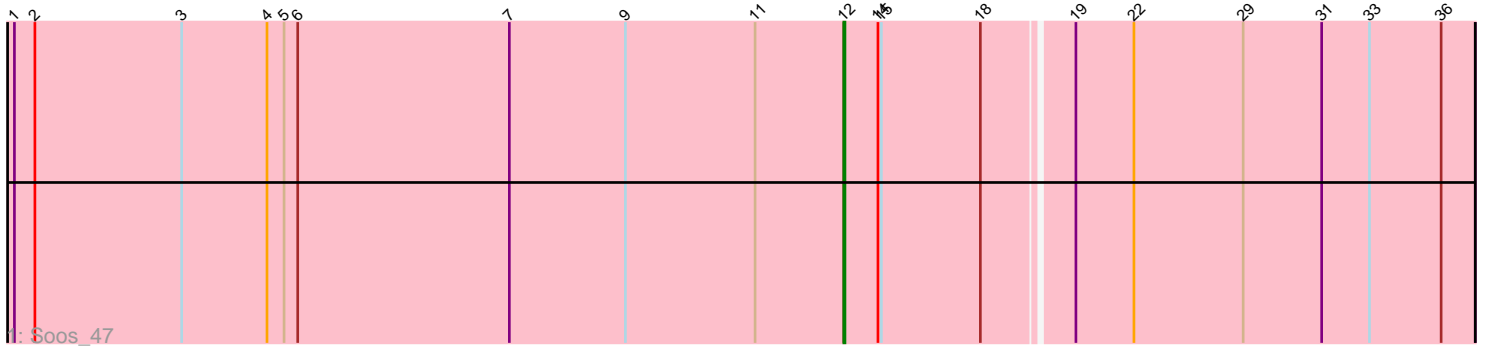


Pham 158521



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 158521 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158521 has 5 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Soos_47
- Track 2 : Clawz_51
- Track 3 : Sting_51, DonTron_51
- Track 4 : Tonitrus_39

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 2 of the 2 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Clawz_51, DonTron_51, Soos_47, Sting_51,

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

-

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

- Tonitrus_39,

Summary by start number:

Start 12:

- Found in 4 of 5 (80.0%) of genes in pham
- Manual Annotations of this start: 2 of 2
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Clawz_51 (CP), DonTron_51 (CP), Soos_47 (CP), Sting_51 (CP),

Start 16:

- Found in 1 of 5 (20.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tonitrus_39 (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 2 times for cluster CP.

Gene Information:

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 2 MA's), (14, 28572), (15, 28575), (18, 28662), (19, 28734), (22, 28785), (29, 28881), (31, 28950), (32, 28989), (36, 29055),

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 2 MA's), (14, 28697), (15, 28700), (18, 28787), (22, 28910), (29, 29006), (31, 29075), (33, 29117), (36, 29180),

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 2 MA's), (14, 27864), (15, 27867), (18, 27954), (19, 28026), (22, 28077), (29, 28173), (31, 28242), (33, 28284), (36, 28347),

Gene: Sting_51 Start: 28273, Stop: 28815, Start Num: 12

Candidate Starts for Sting_51:

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

Gene: Tonitrus_39 Start: 26535, Stop: 27032, Start Num: 16

Candidate Starts for Tonitrus_39:

(9, 26307), (10, 26325), (11, 26421), (13, 26505), (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),