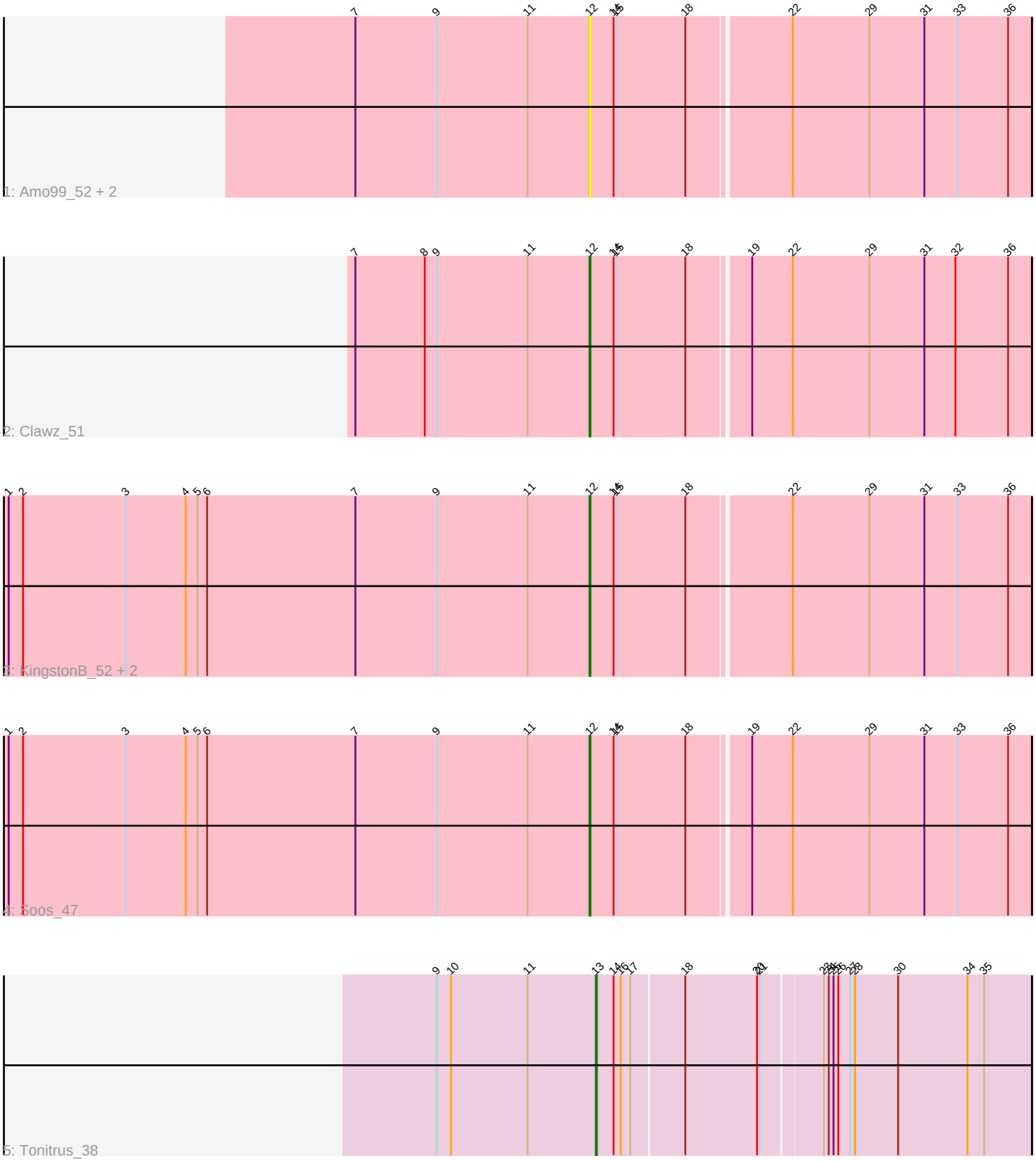
Pham 216804



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 216804 Report

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

Pham number 216804 has 9 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Amo99_52, Jollymon_52, ColdSoup_52
• Track 2 : Clawz_51
• Track 3 : KingstonB_52, Sting_50, DonTron_51
• Track 4 : Soos_47
• Track 5 : 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 3 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amo99_52, Clawz_51, ColdSoup_52, DonTron_51, Jollymon_52, KingstonB_52, Soos_47, 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 8 of 9 (88.9%) of genes in pham
• Manual Annotations of this start: 3 of 4
• 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), Jollymon_52 (CP), KingstonB_52 (CP), Soos_47 (CP), Sting_50 (CP),

Start 13:
• Found in 1 of 9 (11.1%) of genes in pham
• Manual Annotations of this start: 1 of 4

• 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 3 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 3 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 3 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 3 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 3 MA's), (14, 28697), (15, 28700), (18, 28787), (22, 28910), (29, 29006), (31, 29075), (33, 29117), (36, 29180),

Gene: Jollymon_52 Start: 28627, Stop: 29169, Start Num: 12
Candidate Starts for Jollymon_52:
(7, 28333), (9, 28435), (11, 28549), (Start: 12 @28627 has 3 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 3 MA's), (14, 28135), (15, 28138), (18, 28225), (22, 28348), (29, 28444), (31, 28513), (33, 28555), (36, 28618),

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

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 3 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),