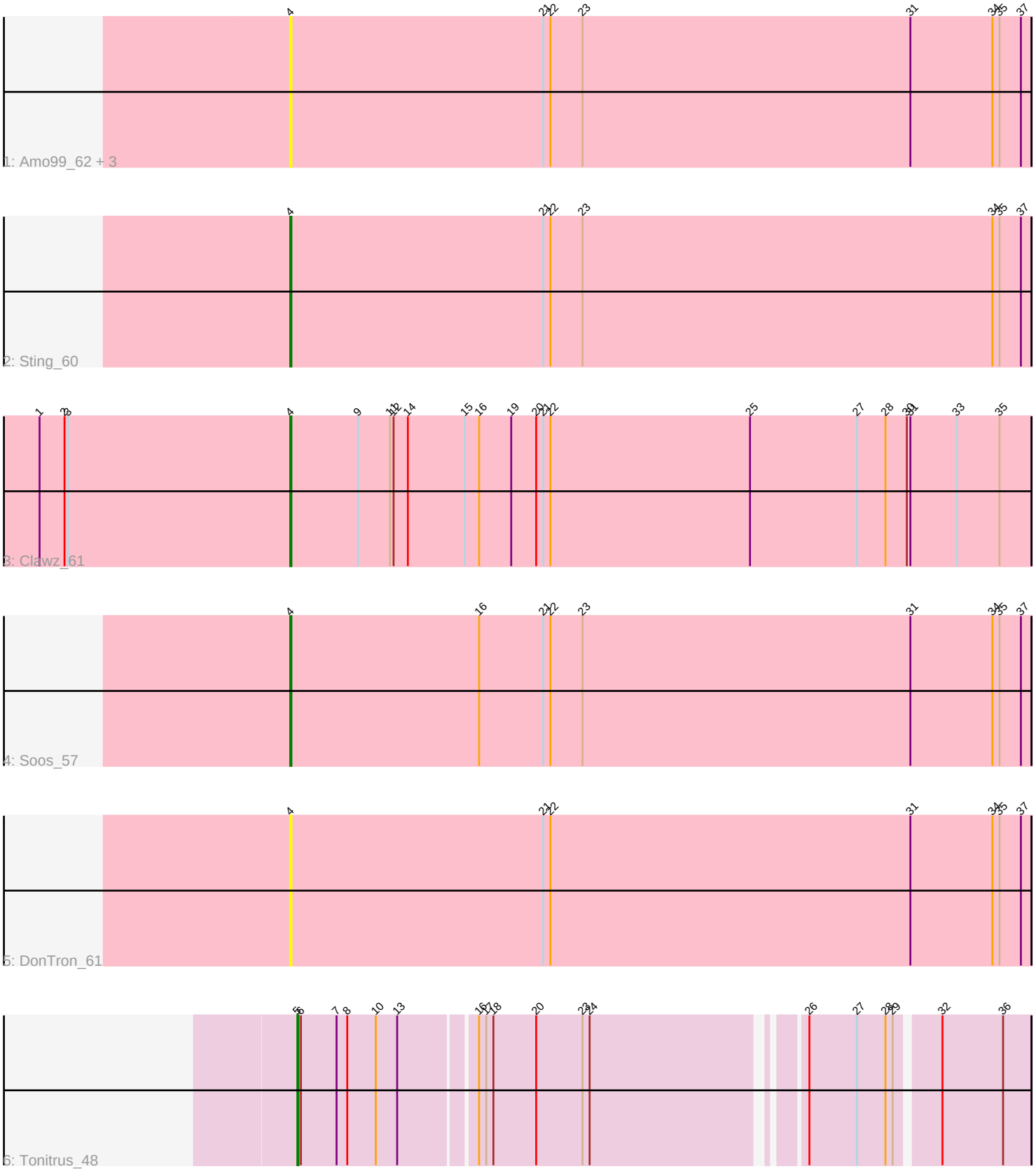
Pham 216809


1: Amo99_62 + 3
2: Sting_60
3: Clawz_61
4: Soos_57
5: DonTron_61
6: Tonitrus_48

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 216809 Report

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

Pham number 216809 has 9 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Amo99_62, KingstonB_62, Jollymon_62, ColdSoup_62
• Track 2 : Sting_60
• Track 3 : Clawz_61
• Track 4 : Soos_57
• Track 5 : DonTron_61
• Track 6 : Tonitrus_48

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

The start number called the most often in the published annotations is 4, it was called in 3 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amo99_62, Clawz_61, ColdSoup_62, DonTron_61, Jollymon_62, KingstonB_62, Soos_57, Sting_60,

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

Genes that do not have the "Most Annotated" start:
• Tonitrus_48,

Summary by start number:

Start 4:
• 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_62 (CP), Clawz_61 (CP), ColdSoup_62 (CP), DonTron_61 (CP), Jollymon_62 (CP), KingstonB_62 (CP), Soos_57 (CP), Sting_60 (CP),

Start 5:
• 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_48 (singleton),

Summary by clusters:

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

Info for manual annotations of cluster CP:
•Start number 4 was manually annotated 3 times for cluster CP.

Gene Information:

Gene: Amo99_62 Start: 39166, Stop: 39789, Start Num: 4
Candidate Starts for Amo99_62:
(Start: 4 @39166 has 3 MA's), (21, 39379), (22, 39385), (23, 39412), (31, 39688), (34, 39757), (35, 39763), (37, 39781),

Gene: Clawz_61 Start: 38961, Stop: 39584, Start Num: 4
Candidate Starts for Clawz_61:
(1, 38751), (2, 38772), (3, 38775), (Start: 4 @38961 has 3 MA's), (9, 39018), (11, 39045), (12, 39048), (14, 39060), (15, 39108), (16, 39120), (19, 39147), (20, 39168), (21, 39174), (22, 39180), (25, 39348), (27, 39438), (28, 39462), (30, 39480), (31, 39483), (33, 39522), (35, 39558),

Gene: ColdSoup_62 Start: 39166, Stop: 39789, Start Num: 4
Candidate Starts for ColdSoup_62:
(Start: 4 @39166 has 3 MA's), (21, 39379), (22, 39385), (23, 39412), (31, 39688), (34, 39757), (35, 39763), (37, 39781),

Gene: DonTron_61 Start: 39207, Stop: 39830, Start Num: 4
Candidate Starts for DonTron_61:
(Start: 4 @39207 has 3 MA's), (21, 39420), (22, 39426), (31, 39729), (34, 39798), (35, 39804), (37, 39822),

Gene: Jollymon_62 Start: 39166, Stop: 39789, Start Num: 4
Candidate Starts for Jollymon_62:
(Start: 4 @39166 has 3 MA's), (21, 39379), (22, 39385), (23, 39412), (31, 39688), (34, 39757), (35, 39763), (37, 39781),

Gene: KingstonB_62 Start: 38645, Stop: 39268, Start Num: 4
Candidate Starts for KingstonB_62:
(Start: 4 @38645 has 3 MA's), (21, 38858), (22, 38864), (23, 38891), (31, 39167), (34, 39236), (35, 39242), (37, 39260),

Gene: Soos_57 Start: 38374, Stop: 38997, Start Num: 4
Candidate Starts for Soos_57:
(Start: 4 @38374 has 3 MA's), (16, 38533), (21, 38587), (22, 38593), (23, 38620), (31, 38896), (34, 38965), (35, 38971), (37, 38989),

Gene: Sting_60 Start: 38813, Stop: 39436, Start Num: 4
Candidate Starts for Sting_60:

(Start: 4 @38813 has 3 MA's), (21, 39026), (22, 39032), (23, 39059), (34, 39404), (35, 39410), (37, 39428),

Gene: Tonitrus_48 Start: 36438, Stop: 37013, Start Num: 5
Candidate Starts for Tonitrus_48:
(Start: 5 @36438 has 1 MA's), (6, 36441), (7, 36471), (8, 36480), (10, 36504), (13, 36522), (16, 36582), (17, 36588), (18, 36594), (20, 36630), (23, 36669), (24, 36675), (26, 36837), (27, 36876), (28, 36900), (29, 36906), (32, 36939), (36, 36990),