Pham 136063

1: Sobs_58 + 1

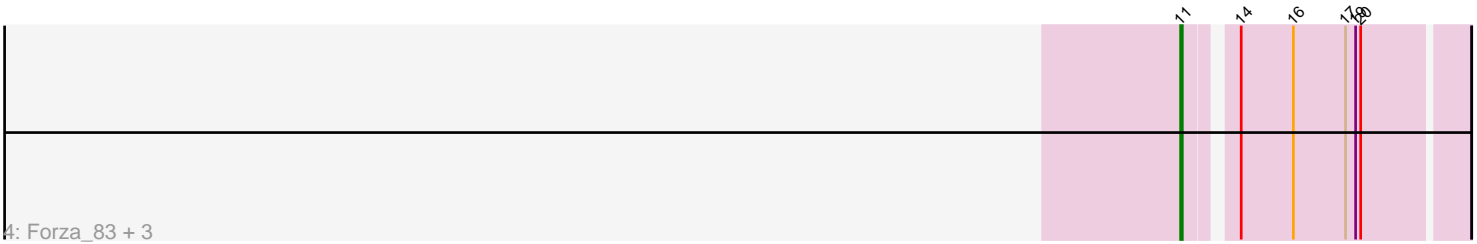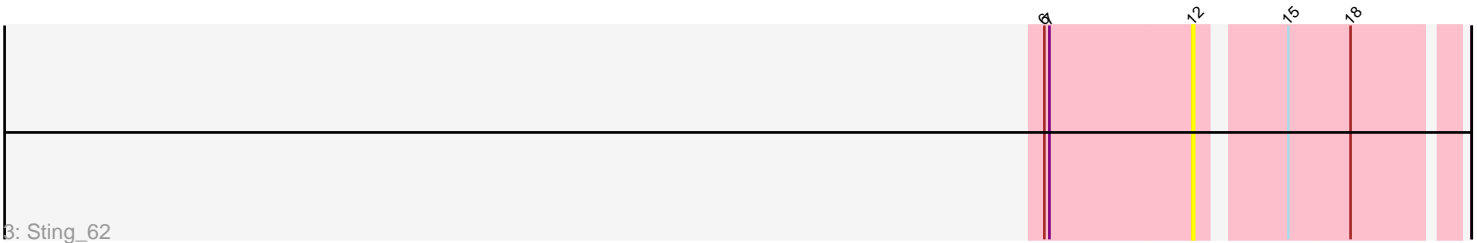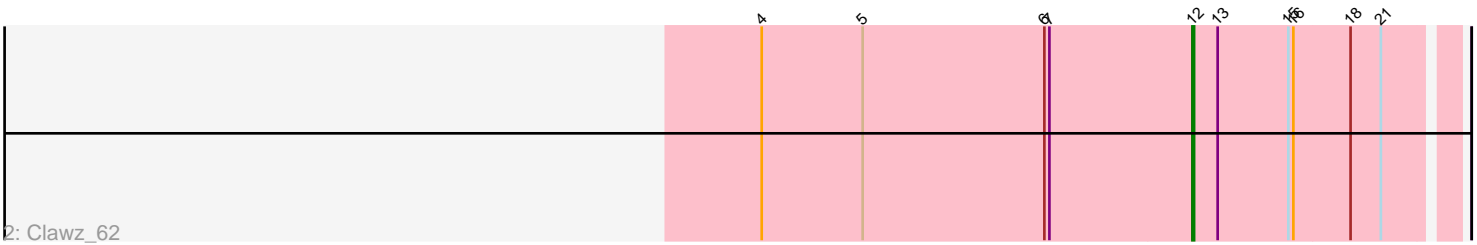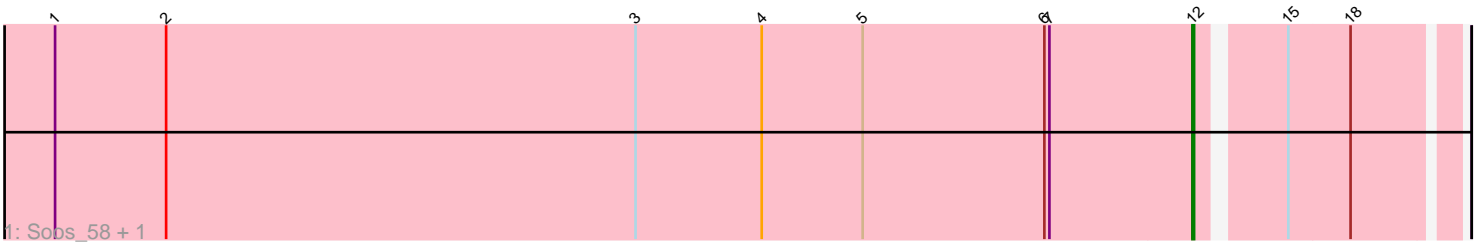2: Clawz_62

3: Sting_62

4: Forza_83 + 3

5: Sixama_78

6: Crestdrop_9

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 136063 Report

This analysis was run 04/28/24 on database version 559.

Pham number 136063 has 10 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Soos_58, DonTron_62
• Track 2 : Clawz_62
• Track 3 : Sting_62
• Track 4 : Forza_83, Boopy_83, BlueNGold_82, Mareelih_82
• Track 5 : Sixama_78
• Track 6 : Crestdrop_9

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

The start number called the most often in the published annotations is 11, it was called in 4 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BlueNGold_82, Boopy_83, Crestdrop_9, Forza_83, Mareelih_82,

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

Genes that do not have the "Most Annotated" start:
• Clawz_62, DonTron_62, Sixama_78, Soos_58, Sting_62,

Summary by start number:

Start 9:
• Found in 1 of 10 (10.0%) of genes in pham
• Manual Annotations of this start: 1 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sixama_78 (DS),

Start 11:
• Found in 5 of 10 (50.0%) of genes in pham
• Manual Annotations of this start: 4 of 7
• Called 100.0% of time when present

• Phage (with cluster) where this start called: BlueNGold_82 (DS), Boopy_83 (DS), Crestdrop_9 (EF), Forza_83 (DS), Mareelih_82 (DS),

Start 12:
• Found in 4 of 10 (40.0%) of genes in pham
• Manual Annotations of this start: 2 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Clawz_62 (CP), DonTron_62 (CP), Soos_58 (CP), Sting_62 (CP),

Summary by clusters:

There are 3 clusters represented in this pham: CP, EF, DS,

Info for manual annotations of cluster CP:
•Start number 12 was manually annotated 2 times for cluster CP.

Info for manual annotations of cluster DS:
•Start number 9 was manually annotated 1 time for cluster DS.
•Start number 11 was manually annotated 4 times for cluster DS.

Gene Information:
Gene: BlueNGold_82 Start: 40254, Stop: 40406, Start Num: 11
Candidate Starts for BlueNGold_82:
(Start: 11 @40254 has 4 MA's), (14, 40278), (16, 40308), (17, 40338), (19, 40344), (20, 40347),

Gene: Boopy_83 Start: 40266, Stop: 40418, Start Num: 11
Candidate Starts for Boopy_83:
(Start: 11 @40266 has 4 MA's), (14, 40290), (16, 40320), (17, 40350), (19, 40356), (20, 40359),

Gene: Clawz_62 Start: 39584, Stop: 39733, Start Num: 12
Candidate Starts for Clawz_62:
(4, 39329), (5, 39389), (6, 39497), (7, 39500), (Start: 12 @39584 has 2 MA's), (13, 39599), (15, 39641), (16, 39644), (18, 39677), (21, 39695),

Gene: Crestdrop_9 Start: 2577, Stop: 2738, Start Num: 11
Candidate Starts for Crestdrop_9:
(8, 2523), (Start: 11 @2577 has 4 MA's), (16, 2634), (19, 2670),

Gene: DonTron_62 Start: 39830, Stop: 39967, Start Num: 12
Candidate Starts for DonTron_62:
(1, 39155), (2, 39221), (3, 39500), (4, 39575), (5, 39635), (6, 39743), (7, 39746), (Start: 12 @39830 has 2 MA's), (15, 39875), (18, 39911),

Gene: Forza_83 Start: 40182, Stop: 40334, Start Num: 11
Candidate Starts for Forza_83:
(Start: 11 @40182 has 4 MA's), (14, 40206), (16, 40236), (17, 40266), (19, 40272), (20, 40275),

Gene: Mareelih_82 Start: 39684, Stop: 39836, Start Num: 11

Candidate Starts for Mareelih_82:
(Start: 11 @39684 has 4 MA's), (14, 39708), (16, 39738), (17, 39768), (19, 39774), (20, 39777),

Gene: Sixama_78 Start: 40037, Stop: 40201, Start Num: 9
Candidate Starts for Sixama_78:
(Start: 9 @40037 has 1 MA's), (10, 40040), (20, 40142), (22, 40193),

Gene: Soos_58 Start: 38997, Stop: 39134, Start Num: 12
Candidate Starts for Soos_58:
(1, 38322), (2, 38388), (3, 38667), (4, 38742), (5, 38802), (6, 38910), (7, 38913), (Start: 12 @38997 has 2 MA's), (15, 39042), (18, 39078),

Gene: Sting_62 Start: 39436, Stop: 39573, Start Num: 12
Candidate Starts for Sting_62:
(6, 39349), (7, 39352), (Start: 12 @39436 has 2 MA's), (15, 39481), (18, 39517),