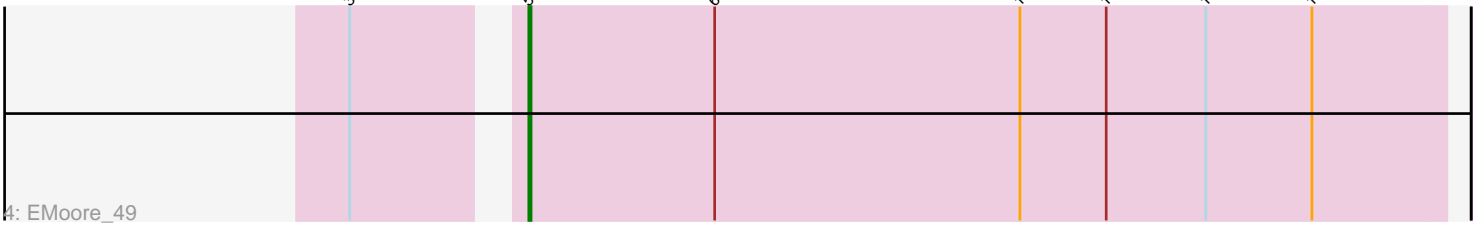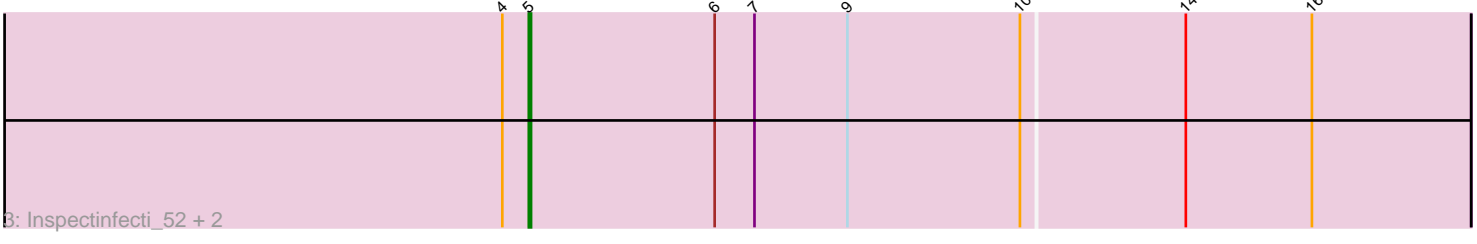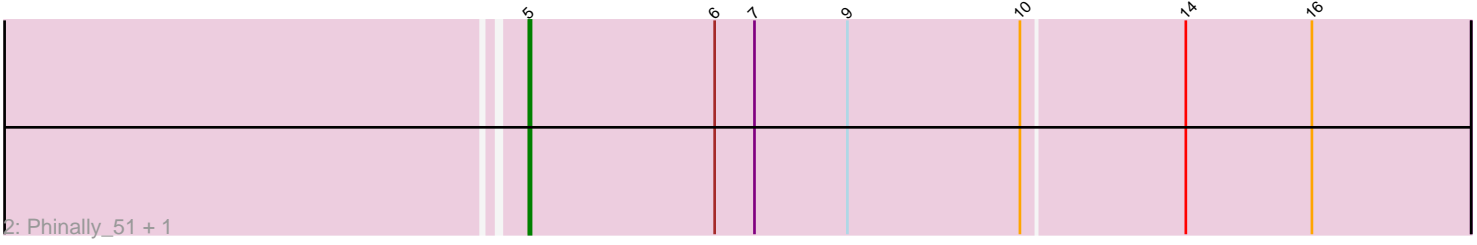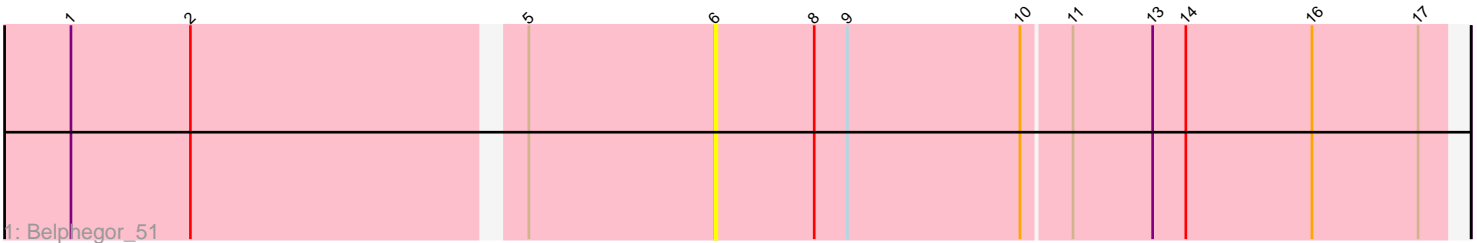# Pham 87823

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 87823 Report

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

Pham number 87823 has 9 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Belphegor_51
• Track 2 : Phinally_51, Leonard_51
• Track 3 : Inspectinfecti_52, Hans_53, Ali17_49
• Track 4 : EMoore_49
• Track 5 : MelBins_52
• Track 6 : Phauci_44

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

The start number called the most often in the published annotations is 5, it was called in 7 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ali17_49, EMoore_49, Hans_53, Inspectinfecti_52, Leonard_51, MelBins_52, Phauci_44, Phinally_51,

Genes that have the "Most Annotated" start but do not call it:
• Belphegor_51,

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

Summary by start number:

Start 5:
• Found in 9 of 9 (100.0%) of genes in pham
• Manual Annotations of this start: 7 of 7
• Called 88.9% of time when present
• Phage (with cluster) where this start called: Ali17_49 (DE2), EMoore_49 (DE2), Hans_53 (DE2), Inspectinfecti_52 (DE2), Leonard_51 (DE2), MelBins_52 (DE2), Phauci_44 (DE2), Phinally_51 (DE2),

Start 6:
• Found in 9 of 9 (100.0%) of genes in pham

• No Manual Annotations of this start.
• Called 11.1% of time when present
• Phage (with cluster) where this start called: Belphegor_51 (DE),

Summary by clusters:

There are 2 clusters represented in this pham: DE2, DE,

Info for manual annotations of cluster DE2:
•Start number 5 was manually annotated 7 times for cluster DE2.

Gene Information:

Gene: Ali17_49 Start: 42792, Stop: 43214, Start Num: 5
Candidate Starts for Ali17_49:
(4, 42780), (Start: 5 @42792 has 7 MA's), (6, 42876), (7, 42894), (9, 42936), (10, 43014), (14, 43086), (16, 43143),

Gene: Belphegor_51 Start: 44728, Stop: 45054, Start Num: 6
Candidate Starts for Belphegor_51:
(1, 44449), (2, 44503), (Start: 5 @44644 has 7 MA's), (6, 44728), (8, 44773), (9, 44788), (10, 44866), (11, 44887), (13, 44923), (14, 44938), (16, 44995), (17, 45043),

Gene: EMoore_49 Start: 43989, Stop: 44402, Start Num: 5
Candidate Starts for EMoore_49:
(3, 43926), (Start: 5 @43989 has 7 MA's), (6, 44073), (10, 44211), (12, 44250), (15, 44295), (16, 44343),

Gene: Hans_53 Start: 43432, Stop: 43854, Start Num: 5
Candidate Starts for Hans_53:
(4, 43420), (Start: 5 @43432 has 7 MA's), (6, 43516), (7, 43534), (9, 43576), (10, 43654), (14, 43726), (16, 43783),

Gene: Inspectinfecti_52 Start: 43878, Stop: 44300, Start Num: 5
Candidate Starts for Inspectinfecti_52:
(4, 43866), (Start: 5 @43878 has 7 MA's), (6, 43962), (7, 43980), (9, 44022), (10, 44100), (14, 44172), (16, 44229),

Gene: Leonard_51 Start: 43516, Stop: 43938, Start Num: 5
Candidate Starts for Leonard_51:
(Start: 5 @43516 has 7 MA's), (6, 43600), (7, 43618), (9, 43660), (10, 43738), (14, 43810), (16, 43867),

Gene: MelBins_52 Start: 43773, Stop: 44189, Start Num: 5
Candidate Starts for MelBins_52:
(Start: 5 @43773 has 7 MA's), (6, 43857), (7, 43875), (9, 43917), (10, 43995), (16, 44124),

Gene: Phauci_44 Start: 40436, Stop: 40852, Start Num: 5
Candidate Starts for Phauci_44:

(Start: 5 @40436 has 7 MA's), (6, 40520), (7, 40538), (9, 40580), (10, 40658), (11, 40679), (14, 40730), (16, 40787),

Gene: Phinally_51 Start: 43513, Stop: 43935, Start Num: 5
Candidate Starts for Phinally_51:
(Start: 5 @43513 has 7 MA's), (6, 43597), (7, 43615), (9, 43657), (10, 43735), (14, 43807), (16, 43864),