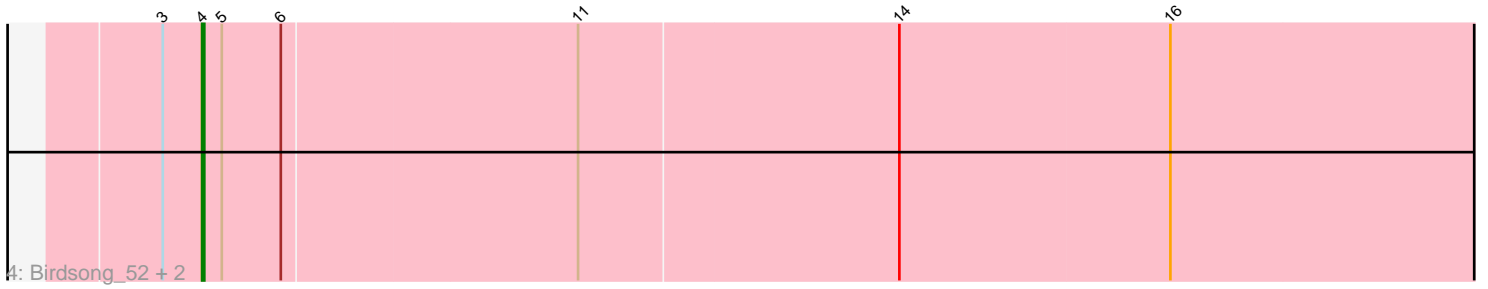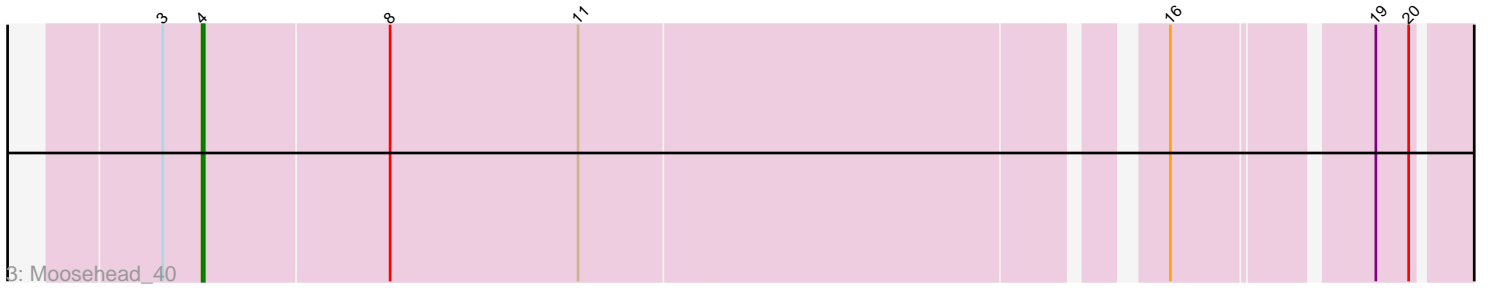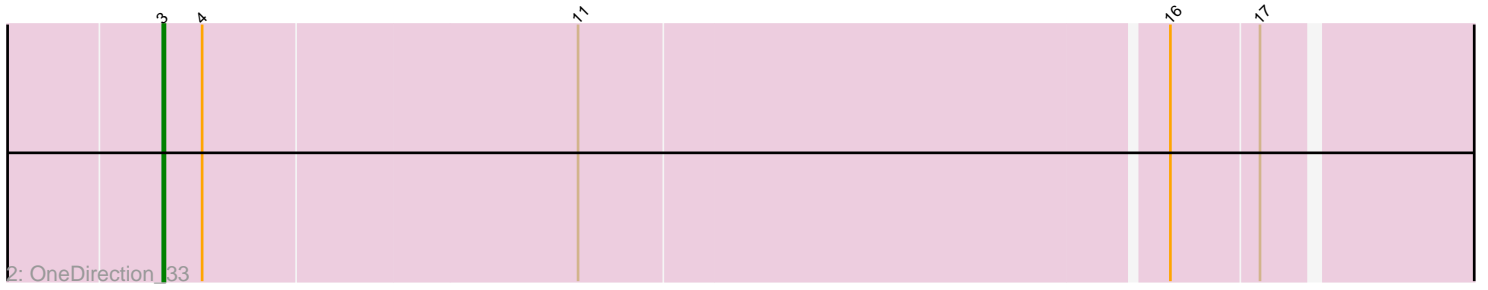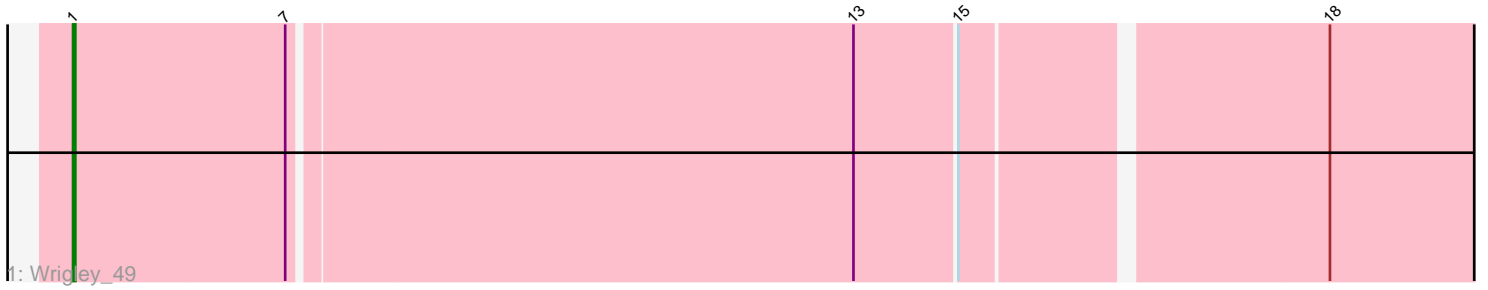# Pham 158441

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 158441 Report

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

Pham number 158441 has 7 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Wrigley_49
• Track 2 : OneDirection_33
• Track 3 : Moosehead_40
• Track 4 : Birdsong_52, Phabuloso_53, Asapag_52
• Track 5 : MortyNRick_47

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 4 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Asapag_52, Birdsong_52, Moosehead_40, MortyNRick_47, Phabuloso_53,

Genes that have the "Most Annotated" start but do not call it:
• OneDirection_33,

Genes that do not have the "Most Annotated" start:
• Wrigley_49,

Summary by start number:

Start 1:
• Found in 1 of 7 (14.3%) of genes in pham
• Manual Annotations of this start: 1 of 6
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Wrigley_49 (CY),

Start 3:
• Found in 5 of 7 (71.4%) of genes in pham
• Manual Annotations of this start: 1 of 6
• Called 20.0% of time when present
• Phage (with cluster) where this start called: OneDirection_33 (CZ6),

Start 4:
• Found in 6 of 7 (85.7%) of genes in pham
• Manual Annotations of this start: 4 of 6
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Asapag_52 (DN1), Birdsong_52 (DN), Moosehead_40 (CZ6), MortyNRick_47 (DN), Phabuloso_53 (DN1),

Summary by clusters:

There are 4 clusters represented in this pham: DN, DN1, CY, CZ6,

Info for manual annotations of cluster CY:
•Start number 1 was manually annotated 1 time for cluster CY.

Info for manual annotations of cluster CZ6:
•Start number 3 was manually annotated 1 time for cluster CZ6.
•Start number 4 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster DN:
•Start number 4 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 4 was manually annotated 2 times for cluster DN1.

Gene Information:

Gene: Asapag_52 Start: 35508, Stop: 34891, Start Num: 4
Candidate Starts for Asapag_52:
(Start: 3 @35526 has 1 MA's), (Start: 4 @35508 has 4 MA's), (5, 35499), (6, 35472), (11, 35340), (14, 35196), (16, 35073),

Gene: Birdsong_52 Start: 35729, Stop: 35112, Start Num: 4
Candidate Starts for Birdsong_52:
(Start: 3 @35747 has 1 MA's), (Start: 4 @35729 has 4 MA's), (5, 35720), (6, 35693), (11, 35561), (14, 35417), (16, 35294),

Gene: Moosehead_40 Start: 28758, Stop: 28216, Start Num: 4
Candidate Starts for Moosehead_40:
(Start: 3 @28776 has 1 MA's), (Start: 4 @28758 has 4 MA's), (8, 28674), (11, 28590), (16, 28344), (19, 28263), (20, 28248),

Gene: MortyNRick_47 Start: 35781, Stop: 35218, Start Num: 4
Candidate Starts for MortyNRick_47:
(2, 35817), (Start: 4 @35781 has 4 MA's), (9, 35694), (10, 35679), (12, 35589),

Gene: OneDirection_33 Start: 27162, Stop: 26563, Start Num: 3
Candidate Starts for OneDirection_33:
(Start: 3 @27162 has 1 MA's), (Start: 4 @27144 has 4 MA's), (11, 26976), (16, 26715), (17, 26676),

Gene: Phabuloso_53 Start: 36106, Stop: 35489, Start Num: 4
Candidate Starts for Phabuloso_53:

(Start: 3 @36124 has 1 MA's), (Start: 4 @36106 has 4 MA's), (5, 36097), (6, 36070), (11, 35938), (14, 35794), (16, 35671),

Gene: Wrigley_49 Start: 35786, Stop: 35133, Start Num: 1
Candidate Starts for Wrigley_49:
(Start: 1 @35786 has 1 MA's), (7, 35690), (13, 35438), (15, 35393), (18, 35237),