Pham 87809

1: Wamburgrxpress_107 + 3

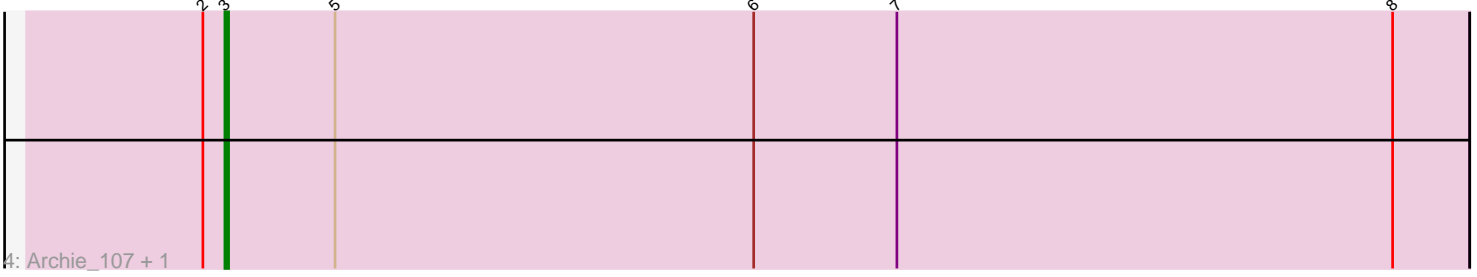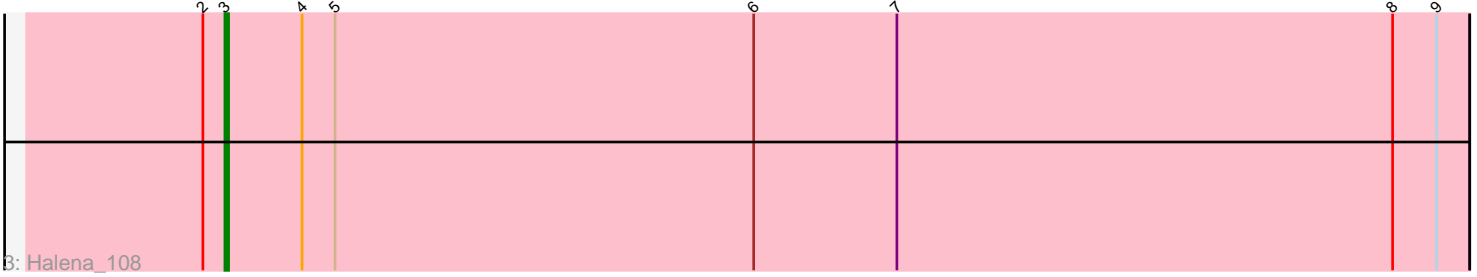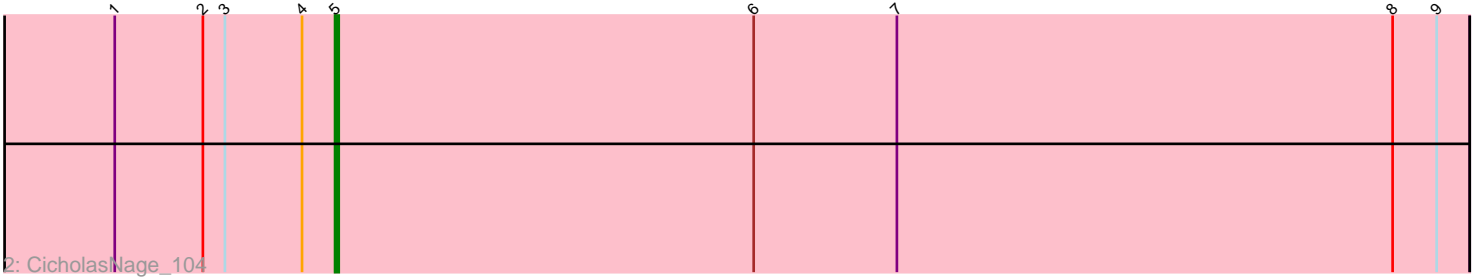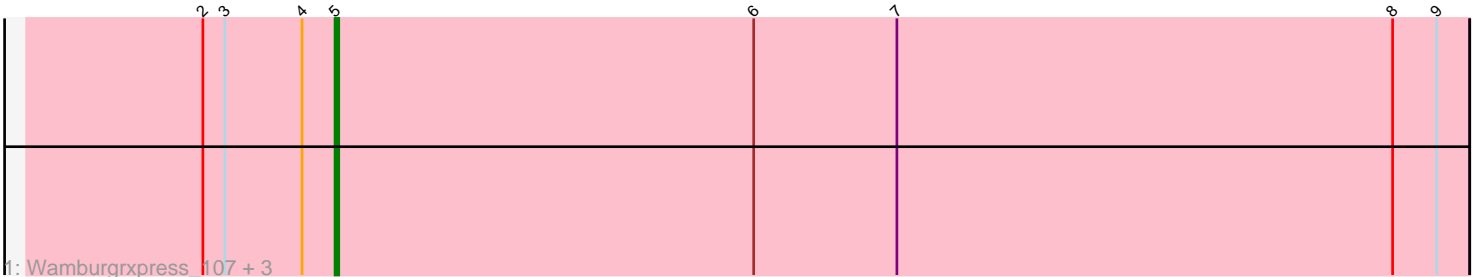2: CicholasNage_104

3: Halena_108

4: Archie_107 + 1

5: Tourach_111

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 87809 Report

This analysis was run 04/05/24 on database version 557.

Pham number 87809 has 9 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Wamburgrxpress_107, JoeDirt_109, MAckerman_106, Appletree2_107
• Track 2 : CicholasNage_104
• Track 3 : Halena_108
• Track 4 : Archie_107, Bazzle_107
• Track 5 : Tourach_111

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 5 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Appletree2_107, CicholasNage_104, JoeDirt_109, MAckerman_106, Tourach_111, Wamburgrxpress_107,

Genes that have the "Most Annotated" start but do not call it:
• Archie_107, Bazzle_107, Halena_108,

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

Summary by start number:

Start 3:
• Found in 9 of 9 (100.0%) of genes in pham
• Manual Annotations of this start: 3 of 8
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Archie_107 (L2), Bazzle_107 (L2), Halena_108 (L1),

Start 5:
• Found in 9 of 9 (100.0%) of genes in pham
• Manual Annotations of this start: 5 of 8
• Called 66.7% of time when present

• Phage (with cluster) where this start called: Appletree2_107 (L1), CicholasNage_104 (L1), JoeDirt_109 (L1), MAckerman_106 (L1), Tourach_111 (L2), Wamburgrxpress_107 (L1),

Summary by clusters:

There are 2 clusters represented in this pham: L2, L1,

Info for manual annotations of cluster L1:
•Start number 3 was manually annotated 1 time for cluster L1.
•Start number 5 was manually annotated 4 times for cluster L1.

Info for manual annotations of cluster L2:
•Start number 3 was manually annotated 2 times for cluster L2.
•Start number 5 was manually annotated 1 time for cluster L2.

Gene Information:
Gene: Appletree2_107 Start: 61493, Stop: 61801, Start Num: 5
Candidate Starts for Appletree2_107:
(2, 61457), (Start: 3 @61463 has 3 MA's), (4, 61484), (Start: 5 @61493 has 5 MA's), (6, 61607), (7, 61646), (8, 61781), (9, 61793),

Gene: Archie_107 Start: 63188, Stop: 63526, Start Num: 3
Candidate Starts for Archie_107:
(2, 63182), (Start: 3 @63188 has 3 MA's), (Start: 5 @63218 has 5 MA's), (6, 63332), (7, 63371), (8, 63506),

Gene: Bazzle_107 Start: 63744, Stop: 64082, Start Num: 3
Candidate Starts for Bazzle_107:
(2, 63738), (Start: 3 @63744 has 3 MA's), (Start: 5 @63774 has 5 MA's), (6, 63888), (7, 63927), (8, 64062),

Gene: CicholasNage_104 Start: 61924, Stop: 62232, Start Num: 5
Candidate Starts for CicholasNage_104:
(1, 61864), (2, 61888), (Start: 3 @61894 has 3 MA's), (4, 61915), (Start: 5 @61924 has 5 MA's), (6, 62038), (7, 62077), (8, 62212), (9, 62224),

Gene: Halena_108 Start: 61411, Stop: 61749, Start Num: 3
Candidate Starts for Halena_108:
(2, 61405), (Start: 3 @61411 has 3 MA's), (4, 61432), (Start: 5 @61441 has 5 MA's), (6, 61555), (7, 61594), (8, 61729), (9, 61741),

Gene: JoeDirt_109 Start: 62527, Stop: 62835, Start Num: 5
Candidate Starts for JoeDirt_109:
(2, 62491), (Start: 3 @62497 has 3 MA's), (4, 62518), (Start: 5 @62527 has 5 MA's), (6, 62641), (7, 62680), (8, 62815), (9, 62827),

Gene: MAckerman_106 Start: 61434, Stop: 61742, Start Num: 5
Candidate Starts for MAckerman_106:

(2, 61398), (Start: 3 @61404 has 3 MA's), (4, 61425), (Start: 5 @61434 has 5 MA's), (6, 61548), (7, 61587), (8, 61722), (9, 61734),

Gene: Tourach_111 Start: 64671, Stop: 64979, Start Num: 5
Candidate Starts for Tourach_111:
(2, 64635), (Start: 3 @64641 has 3 MA's), (Start: 5 @64671 has 5 MA's), (6, 64785), (7, 64824), (8, 64959),

Gene: Wamburgrxpress_107 Start: 61794, Stop: 62102, Start Num: 5
Candidate Starts for Wamburgrxpress_107:
(2, 61758), (Start: 3 @61764 has 3 MA's), (4, 61785), (Start: 5 @61794 has 5 MA's), (6, 61908), (7, 61947), (8, 62082), (9, 62094),