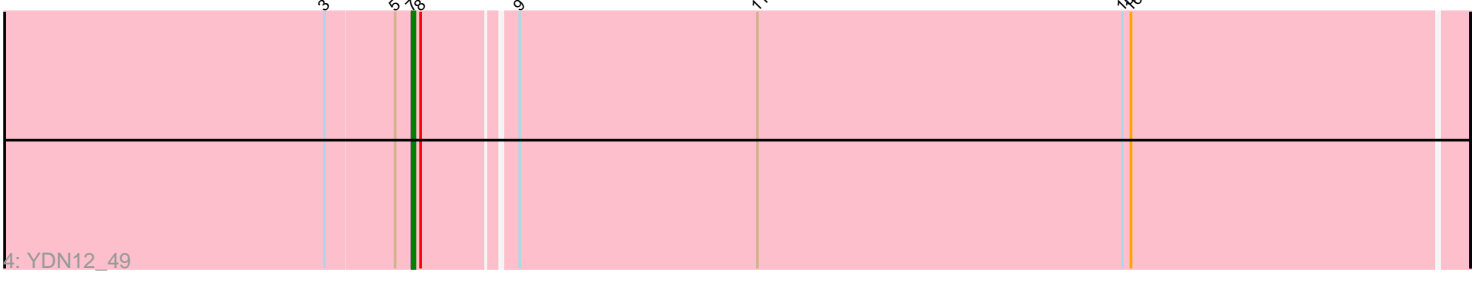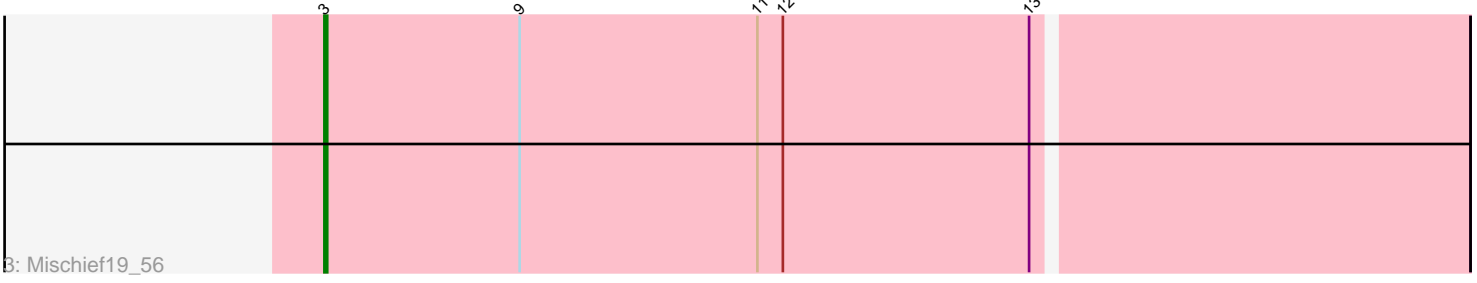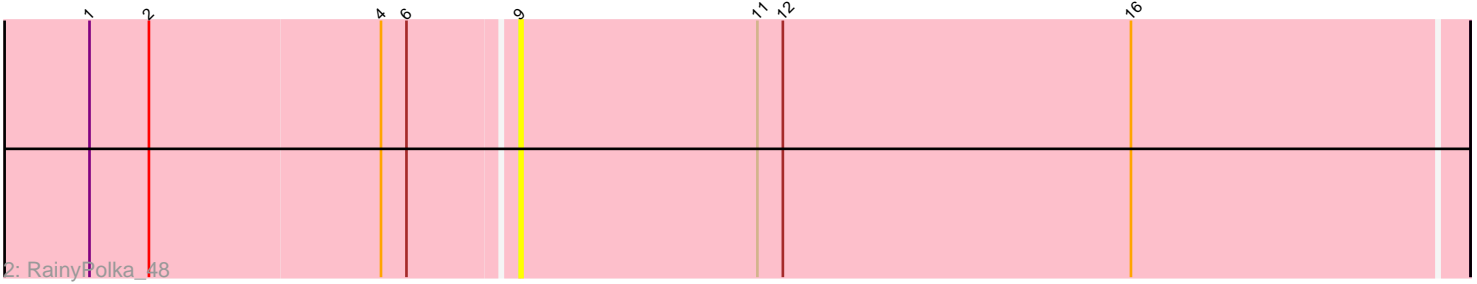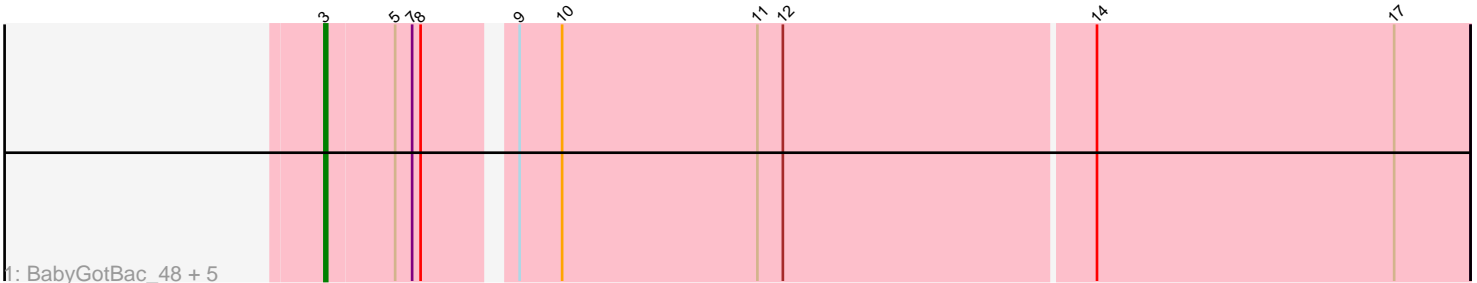# Pham 5821

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 5821 Report

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

Pham number 5821 has 10 members, 1 are drafts.

Phages represented in each track:
• Track 1 : BabyGotBac_48, Asis_47, TP1604_47, Maih_46, BayC_47, Salete_47
• Track 2 : RainyPolka_48
• Track 3 : Mischief19_56
• Track 4 : YDN12_49
• Track 5 : Abt2graduatex2_48

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

The start number called the most often in the published annotations is 3, it was called in 7 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Asis_47, BabyGotBac_48, BayC_47, Maih_46, Mischief19_56, Salete_47, TP1604_47,

Genes that have the "Most Annotated" start but do not call it:
• Abt2graduatex2_48, YDN12_49,

Genes that do not have the "Most Annotated" start:
• RainyPolka_48,

Summary by start number:

Start 3:
• Found in 9 of 10 (90.0%) of genes in pham
• Manual Annotations of this start: 7 of 9
• Called 77.8% of time when present
• Phage (with cluster) where this start called: Asis_47 (BG), BabyGotBac_48 (BG), BayC_47 (BG), Maih_46 (BG), Mischief19_56 (BG), Salete_47 (BG), TP1604_47 (BG),

Start 7:
• Found in 7 of 10 (70.0%) of genes in pham
• Manual Annotations of this start: 1 of 9

• Called 14.3% of time when present
• Phage (with cluster) where this start called: YDN12_49 (BG),

Start 9:
• Found in 10 of 10 (100.0%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Abt2graduatex2_48 (BG), RainyPolka_48 (BG),

Summary by clusters:

There is one cluster represented in this pham: BG

Info for manual annotations of cluster BG:
•Start number 3 was manually annotated 7 times for cluster BG.
•Start number 7 was manually annotated 1 time for cluster BG.
•Start number 9 was manually annotated 1 time for cluster BG.

Gene Information:
Gene: Abt2graduatex2_48 Start: 37553, Stop: 37221, Start Num: 9
Candidate Starts for Abt2graduatex2_48:
(Start: 3 @37619 has 7 MA's), (Start: 9 @37553 has 1 MA's), (11, 37469), (12, 37460), (14, 37349), (15, 37340), (16, 37337),

Gene: Asis_47 Start: 37350, Stop: 36958, Start Num: 3
Candidate Starts for Asis_47:
(Start: 3 @37350 has 7 MA's), (5, 37326), (Start: 7 @37320 has 1 MA's), (8, 37317), (Start: 9 @37290 has 1 MA's), (10, 37275), (11, 37206), (12, 37197), (14, 37089), (17, 36984),

Gene: BabyGotBac_48 Start: 37350, Stop: 36958, Start Num: 3
Candidate Starts for BabyGotBac_48:
(Start: 3 @37350 has 7 MA's), (5, 37326), (Start: 7 @37320 has 1 MA's), (8, 37317), (Start: 9 @37290 has 1 MA's), (10, 37275), (11, 37206), (12, 37197), (14, 37089), (17, 36984),

Gene: BayC_47 Start: 37347, Stop: 36955, Start Num: 3
Candidate Starts for BayC_47:
(Start: 3 @37347 has 7 MA's), (5, 37323), (Start: 7 @37317 has 1 MA's), (8, 37314), (Start: 9 @37287 has 1 MA's), (10, 37272), (11, 37203), (12, 37194), (14, 37086), (17, 36981),

Gene: Maih_46 Start: 37349, Stop: 36957, Start Num: 3
Candidate Starts for Maih_46:
(Start: 3 @37349 has 7 MA's), (5, 37325), (Start: 7 @37319 has 1 MA's), (8, 37316), (Start: 9 @37289 has 1 MA's), (10, 37274), (11, 37205), (12, 37196), (14, 37088), (17, 36983),

Gene: Mischief19_56 Start: 47937, Stop: 47539, Start Num: 3
Candidate Starts for Mischief19_56:
(Start: 3 @47937 has 7 MA's), (Start: 9 @47868 has 1 MA's), (11, 47784), (12, 47775), (13, 47688),

Gene: RainyPolka_48 Start: 37287, Stop: 36955, Start Num: 9

Candidate Starts for RainyPolka_48:
(1, 37434), (2, 37413), (4, 37332), (6, 37323), (Start: 9 @37287 has 1 MA's), (11, 37203), (12, 37194), (16, 37071),

Gene: Salete_47 Start: 37347, Stop: 36955, Start Num: 3
Candidate Starts for Salete_47:
(Start: 3 @37347 has 7 MA's), (5, 37323), (Start: 7 @37317 has 1 MA's), (8, 37314), (Start: 9 @37287 has 1 MA's), (10, 37272), (11, 37203), (12, 37194), (14, 37086), (17, 36981),

Gene: TP1604_47 Start: 37353, Stop: 36961, Start Num: 3
Candidate Starts for TP1604_47:
(Start: 3 @37353 has 7 MA's), (5, 37329), (Start: 7 @37323 has 1 MA's), (8, 37320), (Start: 9 @37293 has 1 MA's), (10, 37278), (11, 37209), (12, 37200), (14, 37092), (17, 36987),

Gene: YDN12_49 Start: 37132, Stop: 36767, Start Num: 7
Candidate Starts for YDN12_49:
(Start: 3 @37162 has 7 MA's), (5, 37138), (Start: 7 @37132 has 1 MA's), (8, 37129), (Start: 9 @37099 has 1 MA's), (11, 37015), (15, 36886), (16, 36883),