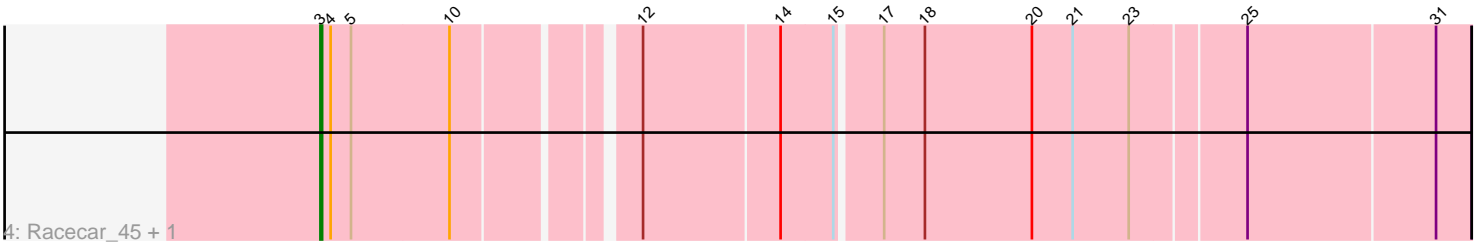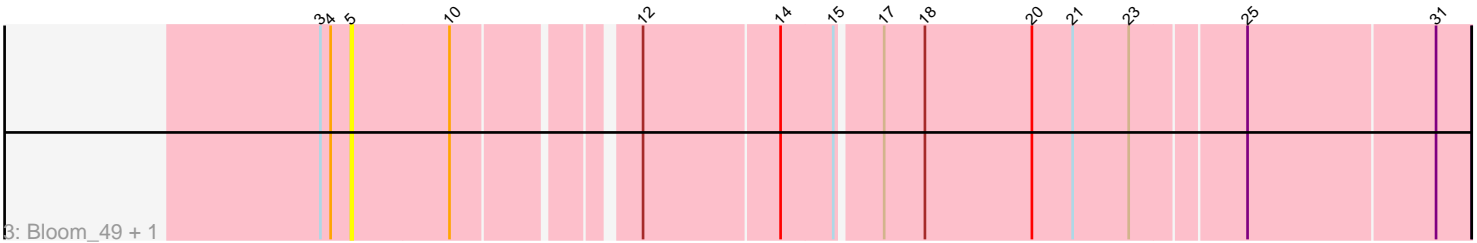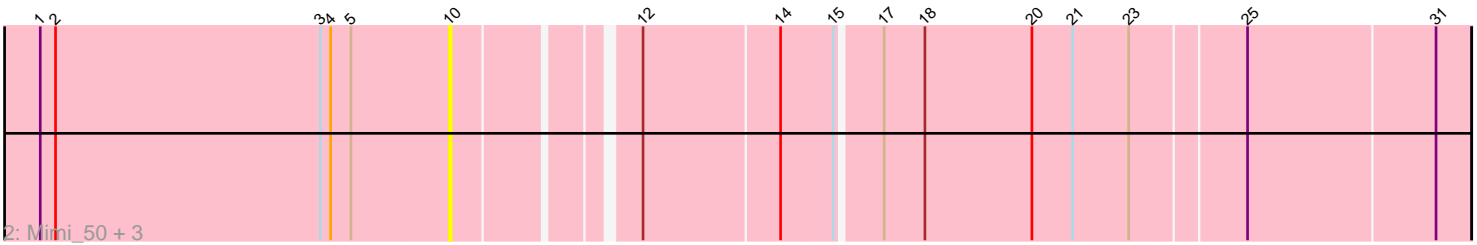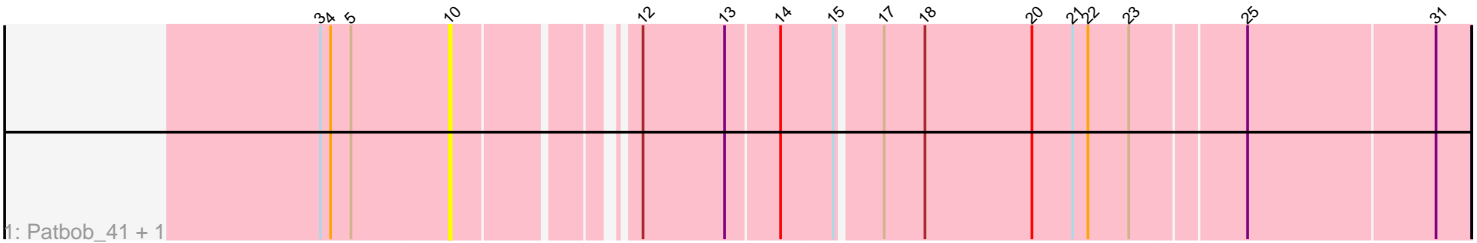# Pham 142951

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 142951 Report

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

Pham number 142951 has 14 members, 12 are drafts.

Phages represented in each track:
• Track 1 : Patbob_41, Patbob_331
• Track 2 : Mimi_50, Talia1610_334, Mimi_340, Talia1610_47
• Track 3 : Bloom_49, Bloom_336
• Track 4 : Racecar_45, Racecar_334
• Track 5 : SJReid_47, SJReid_358
• Track 6 : DunneganBoMo_41, DunneganBoMo_344

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 2 of the 2 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Racecar_334, Racecar_45,

Genes that have the "Most Annotated" start but do not call it:
• Bloom_336, Bloom_49, Mimi_340, Mimi_50, Patbob_331, Patbob_41, Talia1610_334, Talia1610_47,

Genes that do not have the "Most Annotated" start:
• DunneganBoMo_344, DunneganBoMo_41, SJReid_358, SJReid_47,

Summary by start number:

Start 3:
• Found in 10 of 14 (71.4%) of genes in pham
• Manual Annotations of this start: 2 of 2
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Racecar_334 (FC), Racecar_45 (FC),

Start 5:
• Found in 10 of 14 (71.4%) of genes in pham
• No Manual Annotations of this start.
• Called 20.0% of time when present

• Phage (with cluster) where this start called: Bloom_336 (FC), Bloom_49 (FC),

Start 6:
• Found in 2 of 14 (14.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: SJReid_358 (FC), SJReid_47 (FC),

Start 9:
• Found in 2 of 14 (14.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DunneganBoMo_344 (FC), DunneganBoMo_41 (FC),

Start 10:
• Found in 12 of 14 (85.7%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Mimi_340 (FC), Mimi_50 (FC), Patbob_331 (FC), Patbob_41 (FC), Talia1610_334 (FC), Talia1610_47 (FC),

Summary by clusters:

There is one cluster represented in this pham: FC

Info for manual annotations of cluster FC:
•Start number 3 was manually annotated 2 times for cluster FC.

Gene Information:
Gene: Bloom_49 Start: 20379, Stop: 19762, Start Num: 5
Candidate Starts for Bloom_49:
(Start: 3 @20397 has 2 MA's), (4, 20391), (5, 20379), (10, 20322), (12, 20229), (14, 20151), (15, 20121), (17, 20097), (18, 20073), (20, 20010), (21, 19986), (23, 19953), (25, 19890), (31, 19782),

Gene: Bloom_336 Start: 193854, Stop: 193237, Start Num: 5
Candidate Starts for Bloom_336:
(Start: 3 @193872 has 2 MA's), (4, 193866), (5, 193854), (10, 193797), (12, 193704), (14, 193626), (15, 193596), (17, 193572), (18, 193548), (20, 193485), (21, 193461), (23, 193428), (25, 193365), (31, 193257),

Gene: DunneganBoMo_41 Start: 16090, Stop: 15506, Start Num: 9
Candidate Starts for DunneganBoMo_41:
(8, 16102), (9, 16090), (16, 15862), (18, 15820), (21, 15733), (24, 15658), (26, 15622), (27, 15613), (28, 15607),

Gene: DunneganBoMo_344 Start: 195502, Stop: 194918, Start Num: 9
Candidate Starts for DunneganBoMo_344:
(8, 195514), (9, 195502), (16, 195274), (18, 195232), (21, 195145), (24, 195070), (26, 195034), (27, 195025), (28, 195019),

Gene: Mimi_50 Start: 19490, Stop: 18930, Start Num: 10
Candidate Starts for Mimi_50:
(1, 19730), (2, 19721), (Start: 3 @19565 has 2 MA's), (4, 19559), (5, 19547), (10, 19490), (12, 19397), (14, 19319), (15, 19289), (17, 19265), (18, 19241), (20, 19178), (21, 19154), (23, 19121), (25, 19058), (31, 18950),

Gene: Mimi_340 Start: 192150, Stop: 191590, Start Num: 10
Candidate Starts for Mimi_340:
(1, 192390), (2, 192381), (Start: 3 @192225 has 2 MA's), (4, 192219), (5, 192207), (10, 192150), (12, 192057), (14, 191979), (15, 191949), (17, 191925), (18, 191901), (20, 191838), (21, 191814), (23, 191781), (25, 191718), (31, 191610),

Gene: Patbob_41 Start: 19048, Stop: 18494, Start Num: 10
Candidate Starts for Patbob_41:
(Start: 3 @19123 has 2 MA's), (4, 19117), (5, 19105), (10, 19048), (12, 18961), (13, 18913), (14, 18883), (15, 18853), (17, 18829), (18, 18805), (20, 18742), (21, 18718), (22, 18709), (23, 18685), (25, 18622), (31, 18514),

Gene: Patbob_331 Start: 194507, Stop: 193953, Start Num: 10
Candidate Starts for Patbob_331:
(Start: 3 @194582 has 2 MA's), (4, 194576), (5, 194564), (10, 194507), (12, 194420), (13, 194372), (14, 194342), (15, 194312), (17, 194288), (18, 194264), (20, 194201), (21, 194177), (22, 194168), (23, 194144), (25, 194081), (31, 193973),

Gene: Racecar_45 Start: 20165, Stop: 19530, Start Num: 3
Candidate Starts for Racecar_45:
(Start: 3 @20165 has 2 MA's), (4, 20159), (5, 20147), (10, 20090), (12, 19997), (14, 19919), (15, 19889), (17, 19865), (18, 19841), (20, 19778), (21, 19754), (23, 19721), (25, 19658), (31, 19550),

Gene: Racecar_334 Start: 193874, Stop: 193239, Start Num: 3
Candidate Starts for Racecar_334:
(Start: 3 @193874 has 2 MA's), (4, 193868), (5, 193856), (10, 193799), (12, 193706), (14, 193628), (15, 193598), (17, 193574), (18, 193550), (20, 193487), (21, 193463), (23, 193430), (25, 193367), (31, 193259),

Gene: SJReid_47 Start: 19758, Stop: 19144, Start Num: 6
Candidate Starts for SJReid_47:
(6, 19758), (7, 19746), (10, 19713), (11, 19704), (19, 19431), (29, 19209), (30, 19206),

Gene: SJReid_358 Start: 192597, Stop: 191983, Start Num: 6
Candidate Starts for SJReid_358:
(6, 192597), (7, 192585), (10, 192552), (11, 192543), (19, 192270), (29, 192048), (30, 192045),

Gene: Talia1610_334 Start: 193980, Stop: 193420, Start Num: 10
Candidate Starts for Talia1610_334:
(1, 194220), (2, 194211), (Start: 3 @194055 has 2 MA's), (4, 194049), (5, 194037), (10, 193980), (12, 193887), (14, 193809), (15, 193779), (17, 193755), (18, 193731), (20, 193668), (21, 193644), (23, 193611), (25, 193548), (31, 193440),

Gene: Talia1610_47 Start: 19508, Stop: 18948, Start Num: 10
Candidate Starts for Talia1610_47:

(1, 19748), (2, 19739), (Start: 3 @19583 has 2 MA's), (4, 19577), (5, 19565), (10, 19508), (12, 19415), (14, 19337), (15, 19307), (17, 19283), (18, 19259), (20, 19196), (21, 19172), (23, 19139), (25, 19076), (31, 18968),