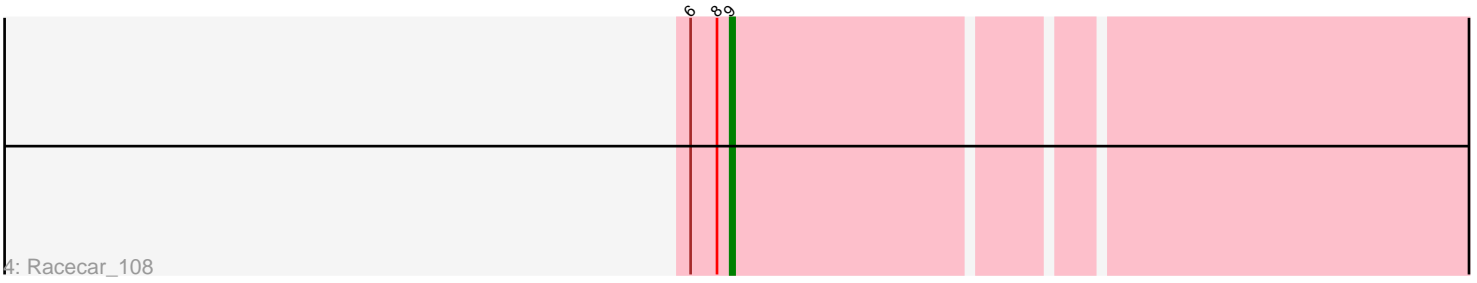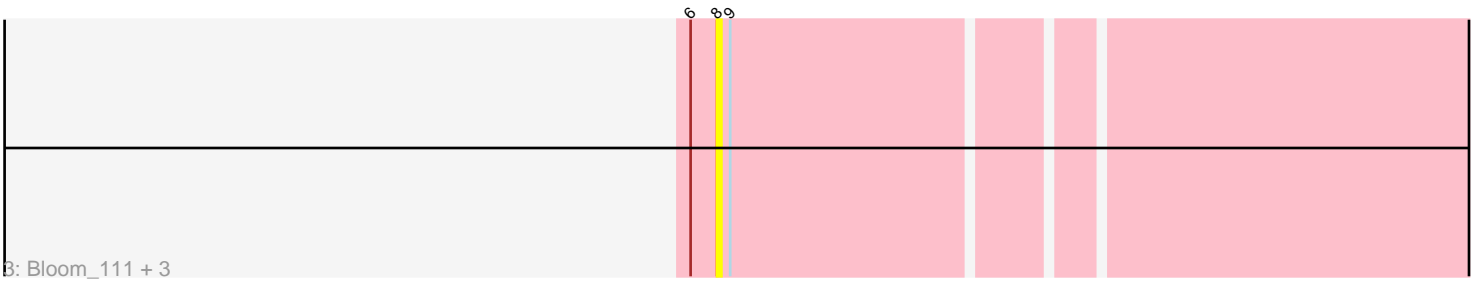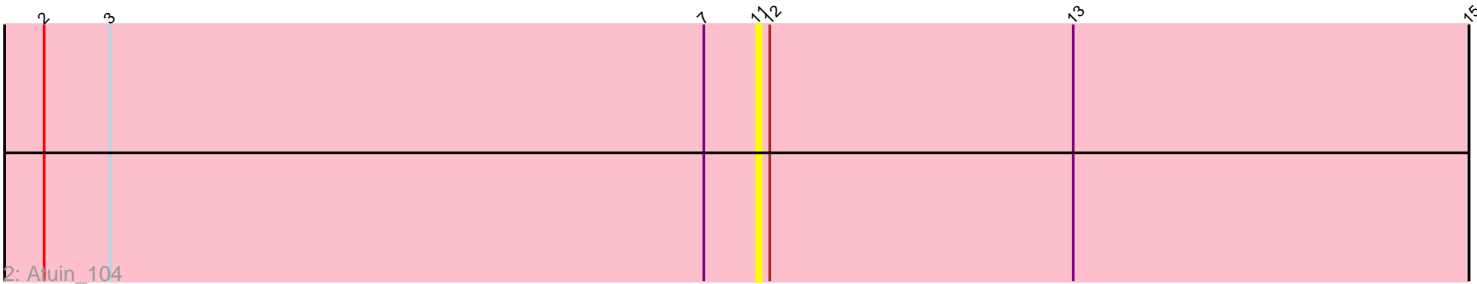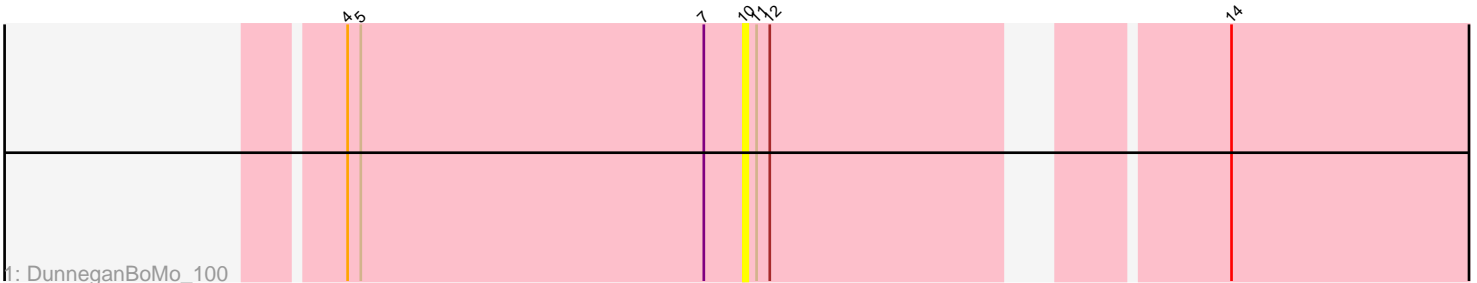# Zoomed Pham 136172

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 136172 Report

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

Pham number 136172 has 8 members, 7 are drafts.

Phages represented in each track:
• Track 1 : DunneganBoMo_100
• Track 2 : Atuin_104
• Track 3 : Bloom_111, Talia1610_109, Mimi_113, Patbob_108
• Track 4 : Racecar_108
• Track 5 : SJReid_114

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

The start number called the most often in the published annotations is 9, it was called in 1 of the 1 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Racecar_108,

Genes that have the "Most Annotated" start but do not call it:
• Bloom_111, Mimi_113, Patbob_108, Talia1610_109,

Genes that do not have the "Most Annotated" start:
• Atuin_104, DunneganBoMo_100, SJReid_114,

Summary by start number:

Start 8:
• Found in 6 of 8 (75.0%) of genes in pham
• No Manual Annotations of this start.
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Bloom_111 (FC), Mimi_113 (FC), Patbob_108 (FC), Talia1610_109 (FC),

Start 9:
• Found in 5 of 8 (62.5%) of genes in pham
• Manual Annotations of this start: 1 of 1
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Racecar_108 (FC),

Start 10:
• Found in 1 of 8 (12.5%) 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_100 (FC),

Start 11:
• Found in 3 of 8 (37.5%) of genes in pham
• No Manual Annotations of this start.
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Atuin_104 (FC), SJReid_114 (FC),

Summary by clusters:

There is one cluster represented in this pham: FC

Info for manual annotations of cluster FC:
•Start number 9 was manually annotated 1 time for cluster FC.

Gene Information:
Gene: Atuin_104 Start: 86578, Stop: 87030, Start Num: 11
Candidate Starts for Atuin_104:
(1, 86398), (2, 86416), (3, 86431), (7, 86566), (11, 86578), (12, 86581), (13, 86650), (15, 86740), (16, 86749), (17, 86785), (19, 86809), (27, 86980),

Gene: Bloom_111 Start: 86660, Stop: 87112, Start Num: 8
Candidate Starts for Bloom_111:
(6, 86654), (8, 86660), (Start: 9 @86663 has 1 MA's), (22, 86987), (26, 87029), (27, 87062), (28, 87074),

Gene: DunneganBoMo_100 Start: 82463, Stop: 82903, Start Num: 10
Candidate Starts for DunneganBoMo_100:
(4, 82373), (5, 82376), (7, 82454), (10, 82463), (11, 82466), (12, 82469), (14, 82559), (16, 82622), (19, 82682), (27, 82853),

Gene: Mimi_113 Start: 86007, Stop: 86459, Start Num: 8
Candidate Starts for Mimi_113:
(6, 86001), (8, 86007), (Start: 9 @86010 has 1 MA's), (22, 86334), (26, 86376), (27, 86409), (28, 86421),

Gene: Patbob_108 Start: 86742, Stop: 87194, Start Num: 8
Candidate Starts for Patbob_108:
(6, 86736), (8, 86742), (Start: 9 @86745 has 1 MA's), (22, 87069), (26, 87111), (27, 87144), (28, 87156),

Gene: Racecar_108 Start: 86663, Stop: 87112, Start Num: 9
Candidate Starts for Racecar_108:
(6, 86654), (8, 86660), (Start: 9 @86663 has 1 MA's), (22, 86987), (26, 87029), (27, 87062), (28, 87074),

Gene: SJReid_114 Start: 78913, Stop: 79359, Start Num: 11
Candidate Starts for SJReid_114:
(8, 78904), (11, 78913), (18, 79135), (20, 79162), (21, 79180), (23, 79237), (24, 79243), (25, 79255), (28, 79321), (29, 79330),

Gene: Talia1610_109 Start: 86026, Stop: 86478, Start Num: 8
Candidate Starts for Talia1610_109:
(6, 86020), (8, 86026), (Start: 9 @86029 has 1 MA's), (22, 86353), (26, 86395), (27, 86428), (28, 86440),