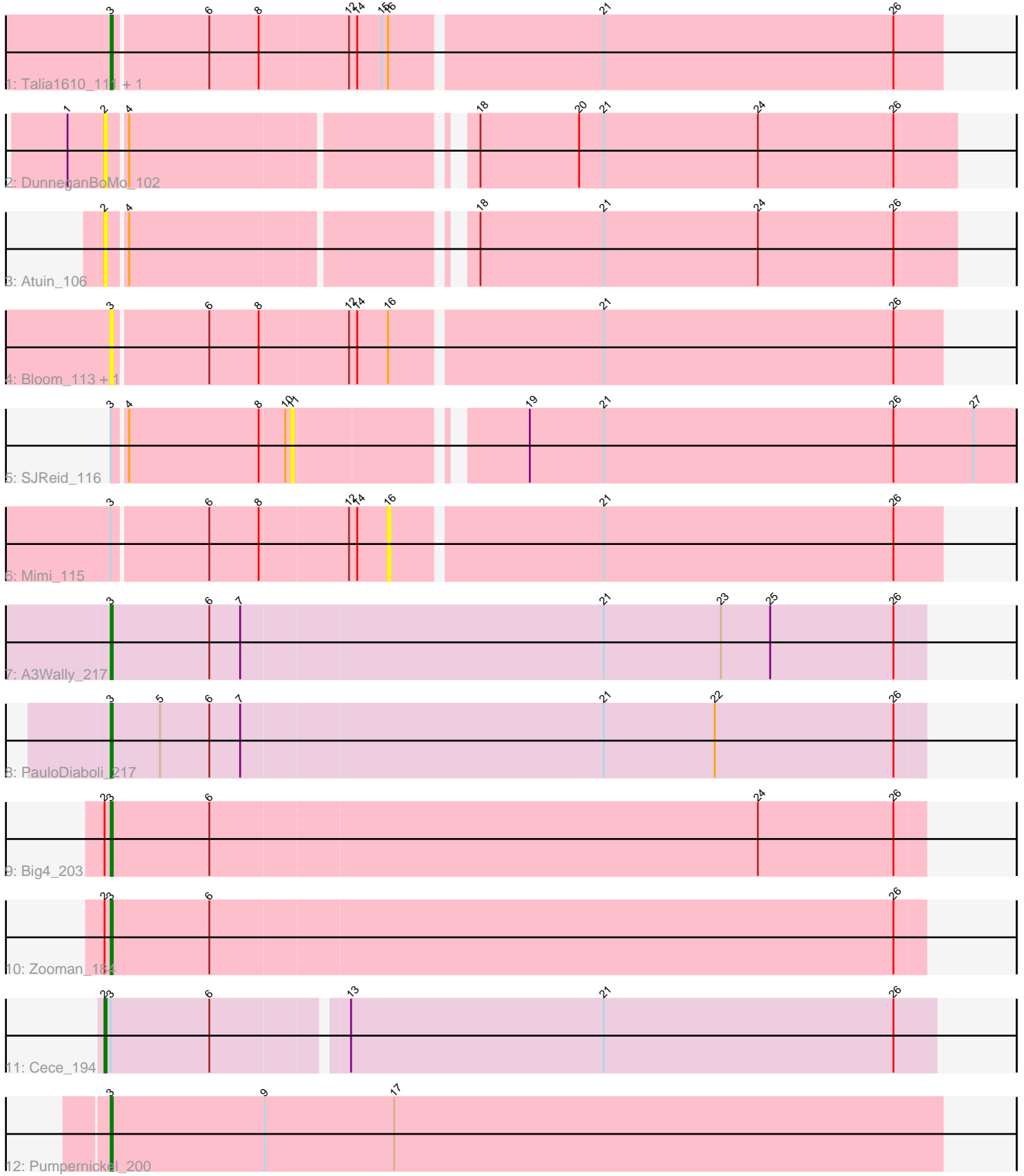# Pham 168643

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 168643 Report

This analysis was run 07/09/24 on database version 566.

Pham number 168643 has 14 members, 7 are drafts.

Phages represented in each track:
• Track 1 : Talia1610_111, Racecar_110
• Track 2 : DunneganBoMo_102
• Track 3 : Atuin_106
• Track 4 : Bloom_113, Patbob_110
• Track 5 : SJReid_116
• Track 6 : Mimi_115
• Track 7 : A3Wally_217
• Track 8 : PauloDiaboli_217
• Track 9 : Big4_203
• Track 10 : Zooman_184
• Track 11 : Cece_194
• Track 12 : Pumpernickel_200

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 6 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• A3Wally_217, Big4_203, Bloom_113, Patbob_110, PauloDiaboli_217, Pumpernickel_200, Racecar_110, Talia1610_111, Zooman_184,

Genes that have the "Most Annotated" start but do not call it:
• Cece_194, Mimi_115, SJReid_116,

Genes that do not have the "Most Annotated" start:
• Atuin_106, DunneganBoMo_102,

Summary by start number:

Start 2:
• Found in 5 of 14 (35.7%) of genes in pham
• Manual Annotations of this start: 1 of 7
• Called 60.0% of time when present

• Phage (with cluster) where this start called: Atuin_106 (FC), Cece_194 (GD3), DunneganBoMo_102 (FC),

Start 3:
• Found in 12 of 14 (85.7%) of genes in pham
• Manual Annotations of this start: 6 of 7
• Called 75.0% of time when present
• Phage (with cluster) where this start called: A3Wally_217 (GD1), Big4_203 (GD2), Bloom_113 (FC), Patbob_110 (FC), PauloDiaboli_217 (GD1), Pumpernickel_200 (GD4), Racecar_110 (FC), Talia1610_111 (FC), Zooman_184 (GD2),

Start 11:
• Found in 1 of 14 (7.1%) 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_116 (FC),

Start 16:
• Found in 5 of 14 (35.7%) of genes in pham
• No Manual Annotations of this start.
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Mimi_115 (FC),

Summary by clusters:

There are 5 clusters represented in this pham: GD3, GD1, GD2, FC, GD4,

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

Info for manual annotations of cluster GD1:
•Start number 3 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:
•Start number 3 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:
•Start number 2 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:
•Start number 3 was manually annotated 1 time for cluster GD4.

Gene Information:
Gene: A3Wally_217 Start: 118051, Stop: 117659, Start Num: 3
Candidate Starts for A3Wally_217:
(Start: 3 @118051 has 6 MA's), (6, 118003), (7, 117988), (21, 117814), (23, 117757), (25, 117733), (26, 117673),

Gene: Atuin_106 Start: 87322, Stop: 87711, Start Num: 2
Candidate Starts for Atuin_106:

(Start: 2 @87322 has 1 MA's), (4, 87331), (18, 87481), (21, 87541), (24, 87616), (26, 87682),

Gene: Big4_203 Start: 114459, Stop: 114067, Start Num: 3
Candidate Starts for Big4_203:
(Start: 2 @114462 has 1 MA's), (Start: 3 @114459 has 6 MA's), (6, 114411), (24, 114147), (26, 114081),

Gene: Bloom_113 Start: 87385, Stop: 87777, Start Num: 3
Candidate Starts for Bloom_113:
(Start: 3 @87385 has 6 MA's), (6, 87430), (8, 87454), (12, 87496), (14, 87499), (16, 87514), (21, 87613), (26, 87754),

Gene: Cece_194 Start: 118974, Stop: 118579, Start Num: 2
Candidate Starts for Cece_194:
(Start: 2 @118974 has 1 MA's), (Start: 3 @118971 has 6 MA's), (6, 118923), (13, 118863), (21, 118740), (26, 118599),

Gene: DunneganBoMo_102 Start: 83192, Stop: 83581, Start Num: 2
Candidate Starts for DunneganBoMo_102:
(1, 83174), (Start: 2 @83192 has 1 MA's), (4, 83201), (18, 83351), (20, 83399), (21, 83411), (24, 83486), (26, 83552),

Gene: Mimi_115 Start: 86861, Stop: 87124, Start Num: 16
Candidate Starts for Mimi_115:
(Start: 3 @86732 has 6 MA's), (6, 86777), (8, 86801), (12, 86843), (14, 86846), (16, 86861), (21, 86960), (26, 87101),

Gene: Patbob_110 Start: 87467, Stop: 87859, Start Num: 3
Candidate Starts for Patbob_110:
(Start: 3 @87467 has 6 MA's), (6, 87512), (8, 87536), (12, 87578), (14, 87581), (16, 87596), (21, 87695), (26, 87836),

Gene: PauloDiaboli_217 Start: 116264, Stop: 115872, Start Num: 3
Candidate Starts for PauloDiaboli_217:
(Start: 3 @116264 has 6 MA's), (5, 116240), (6, 116216), (7, 116201), (21, 116027), (22, 115973), (26, 115886),

Gene: Pumpernickel_200 Start: 115630, Stop: 115226, Start Num: 3
Candidate Starts for Pumpernickel_200:
(Start: 3 @115630 has 6 MA's), (9, 115555), (17, 115492),

Gene: Racecar_110 Start: 87385, Stop: 87777, Start Num: 3
Candidate Starts for Racecar_110:
(Start: 3 @87385 has 6 MA's), (6, 87430), (8, 87454), (12, 87496), (14, 87499), (15, 87511), (16, 87514), (21, 87613), (26, 87754),

Gene: SJReid_116 Start: 79721, Stop: 80056, Start Num: 11
Candidate Starts for SJReid_116:
(Start: 3 @79637 has 6 MA's), (4, 79643), (8, 79706), (10, 79718), (11, 79721), (19, 79820), (21, 79856), (26, 79997), (27, 80036),

Gene: Talia1610_111 Start: 86751, Stop: 87143, Start Num: 3
Candidate Starts for Talia1610_111:

(Start: 3 @86751 has 6 MA's), (6, 86796), (8, 86820), (12, 86862), (14, 86865), (15, 86877), (16, 86880), (21, 86979), (26, 87120),

Gene: Zooman_184 Start: 110682, Stop: 110290, Start Num: 3
Candidate Starts for Zooman_184:
(Start: 2 @110685 has 1 MA's), (Start: 3 @110682 has 6 MA's), (6, 110634), (26, 110304),