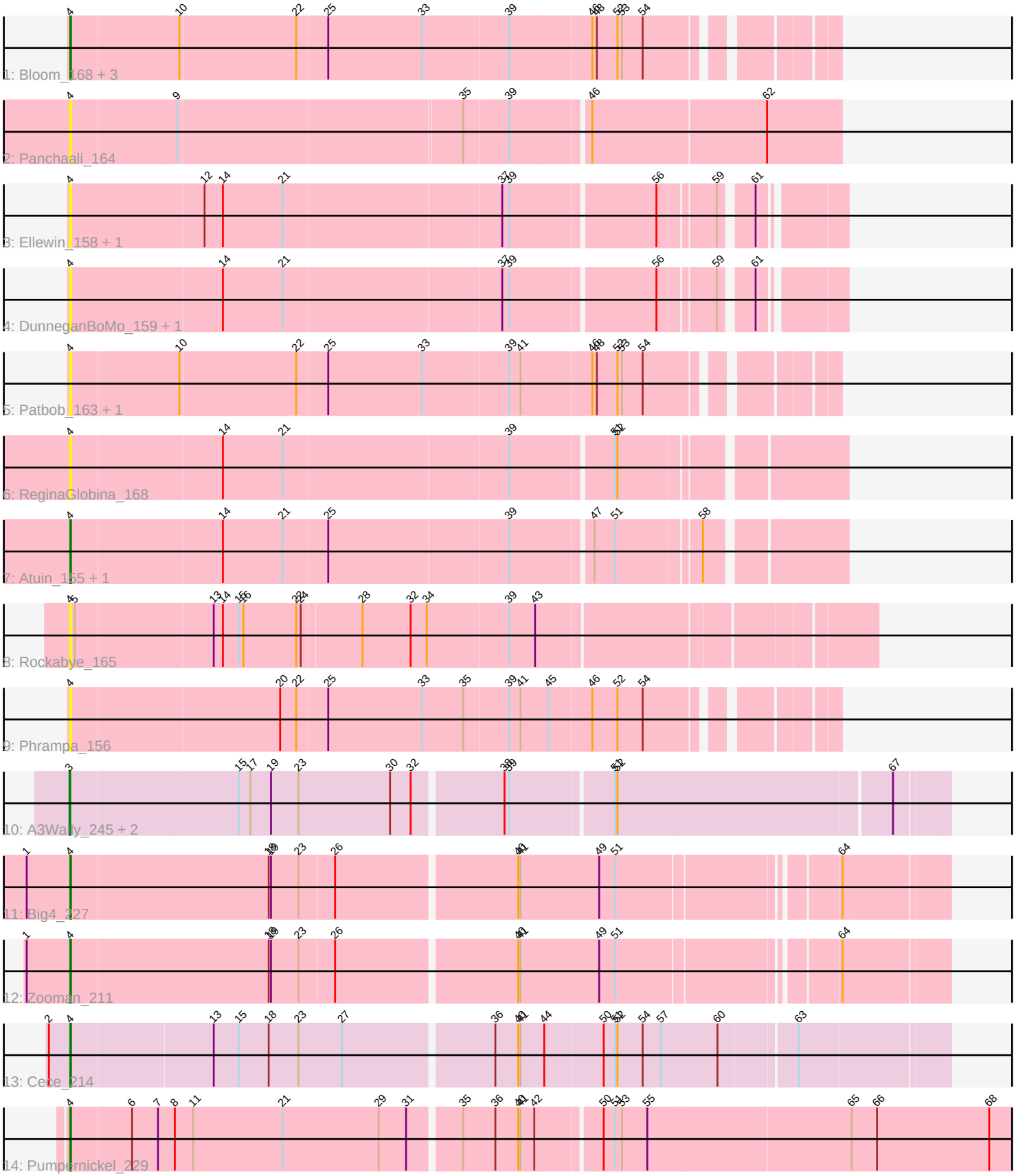
Pham 214616


1: Bloom_168 + 3
2: Panchaali_164
3: Ellewin_158 + 1
4: DunneganBoMo_159 + 1
5: Patbob_163 + 1
6: ReginaGlobina_168
7: Atuin_155 + 1
8: Rockabye_165
9: Phrampa_156
10: A3Wally_245 + 2
11: Big4_227
12: Zooman_211
13: Cece_214
14: Pumpernickel_229

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 214616 Report

This analysis was run 02/22/25 on database version 588.

Pham number 214616 has 23 members, 13 are drafts.

Phages represented in each track:
• Track 1 : Bloom_168, Talia1610_165, Racecar_166, Mimi_165
• Track 2 : Panchaali_164
• Track 3 : Ellewin_158, WaddleDee_158
• Track 4 : DunneganBoMo_159, KSunshine22_157
• Track 5 : Patbob_163, GoldenEssence_151
• Track 6 : ReginaGlobina_168
• Track 7 : Atuin_155, LeoJr_165
• Track 8 : Rockabye_165
• Track 9 : Phrampa_156
• Track 10 : A3Wally_245, PauloDiaboli_245, Dodo_243
• Track 11 : Big4_227
• Track 12 : Zooman_211
• Track 13 : Cece_214
• Track 14 : Pumpernickel_229

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

The start number called the most often in the published annotations is 4, it was called in 8 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Atuin_155, Big4_227, Bloom_168, Cece_214, DunneganBoMo_159, Ellewin_158, GoldenEssence_151, KSunshine22_157, LeoJr_165, Mimi_165, Panchaali_164, Patbob_163, Phrampa_156, Pumpernickel_229, Racecar_166, ReginaGlobina_168, Rockabye_165, Talia1610_165, WaddleDee_158, Zooman_211,

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

Genes that do not have the "Most Annotated" start:
• A3Wally_245, Dodo_243, PauloDiaboli_245,

Summary by start number:

Start 3:
• Found in 3 of 23 (13.0%) of genes in pham
• Manual Annotations of this start: 2 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: A3Wally_245 (GD1), Dodo_243 (GD1), PauloDiaboli_245 (GD1),

Start 4:
• Found in 20 of 23 (87.0%) of genes in pham
• Manual Annotations of this start: 8 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Atuin_155 (FC), Big4_227 (GD2), Bloom_168 (FC), Cece_214 (GD3), DunneganBoMo_159 (FC), Ellewin_158 (FC), GoldenEssence_151 (FC), KSunshine22_157 (FC), LeoJr_165 (FC), Mimi_165 (FC), Panchaali_164 (FC), Patbob_163 (FC), Phrampa_156 (FC), Pumpernickel_229 (GD4), Racecar_166 (FC), ReginaGlobina_168 (FC), Rockabye_165 (FC), Talia1610_165 (FC), WaddleDee_158 (FC), Zooman_211 (GD2),

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 4 was manually annotated 4 times 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 4 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:
•Start number 4 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:
•Start number 4 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: A3Wally_245 Start: 136573, Stop: 137667, Start Num: 3
Candidate Starts for A3Wally_245:
(Start: 3 @136573 has 2 MA's), (15, 136786), (17, 136801), (19, 136828), (23, 136864), (30, 136984), (32, 137011), (38, 137122), (39, 137128), (51, 137254), (52, 137257), (67, 137602),

Gene: Atuin_155 Start: 109227, Stop: 110180, Start Num: 4
Candidate Starts for Atuin_155:
(Start: 4 @109227 has 8 MA's), (14, 109419), (21, 109497), (25, 109554), (39, 109785), (47, 109884), (51, 109911), (58, 110013),

Gene: Big4_227 Start: 130843, Stop: 131916, Start Num: 4
Candidate Starts for Big4_227:

(1, 130786), (Start: 4 @130843 has 8 MA's), (18, 131098), (19, 131101), (23, 131137), (26, 131182), (40, 131410), (41, 131413), (49, 131515), (51, 131536), (64, 131791),

Gene: Bloom_168 Start: 110490, Stop: 111422, Start Num: 4
Candidate Starts for Bloom_168:
(Start: 4 @110490 has 8 MA's), (10, 110628), (22, 110778), (25, 110817), (33, 110940), (39, 111051), (46, 111156), (48, 111162), (52, 111189), (53, 111195), (54, 111222),

Gene: Cece_214 Start: 131006, Stop: 132100, Start Num: 4
Candidate Starts for Cece_214:
(2, 130982), (Start: 4 @131006 has 8 MA's), (13, 131186), (15, 131219), (18, 131258), (23, 131297), (27, 131354), (36, 131543), (40, 131573), (41, 131576), (44, 131606), (50, 131681), (51, 131696), (52, 131699), (54, 131732), (57, 131756), (60, 131828), (63, 131921),

Gene: Dodo_243 Start: 136257, Stop: 137351, Start Num: 3
Candidate Starts for Dodo_243:
(Start: 3 @136257 has 2 MA's), (15, 136470), (17, 136485), (19, 136512), (23, 136548), (30, 136668), (32, 136695), (38, 136806), (39, 136812), (51, 136938), (52, 136941), (67, 137286),

Gene: DunneganBoMo_159 Start: 106136, Stop: 107074, Start Num: 4
Candidate Starts for DunneganBoMo_159:
(Start: 4 @106136 has 8 MA's), (14, 106331), (21, 106409), (37, 106688), (39, 106697), (56, 106877), (59, 106943), (61, 106979),

Gene: Ellewin_158 Start: 106240, Stop: 107178, Start Num: 4
Candidate Starts for Ellewin_158:
(Start: 4 @106240 has 8 MA's), (12, 106411), (14, 106435), (21, 106513), (37, 106792), (39, 106801), (56, 106981), (59, 107047), (61, 107083),

Gene: GoldenEssence_151 Start: 103906, Stop: 104838, Start Num: 4
Candidate Starts for GoldenEssence_151:
(Start: 4 @103906 has 8 MA's), (10, 104044), (22, 104194), (25, 104233), (33, 104356), (39, 104467), (41, 104482), (46, 104572), (48, 104578), (52, 104605), (53, 104611), (54, 104638),

Gene: KSunshine22_157 Start: 107199, Stop: 108137, Start Num: 4
Candidate Starts for KSunshine22_157:
(Start: 4 @107199 has 8 MA's), (14, 107394), (21, 107472), (37, 107751), (39, 107760), (56, 107940), (59, 108006), (61, 108042),

Gene: LeoJr_165 Start: 109835, Stop: 110788, Start Num: 4
Candidate Starts for LeoJr_165:
(Start: 4 @109835 has 8 MA's), (14, 110027), (21, 110105), (25, 110162), (39, 110393), (47, 110492), (51, 110519), (58, 110621),

Gene: Mimi_165 Start: 110115, Stop: 111047, Start Num: 4
Candidate Starts for Mimi_165:
(Start: 4 @110115 has 8 MA's), (10, 110253), (22, 110403), (25, 110442), (33, 110565), (39, 110676), (46, 110781), (48, 110787), (52, 110814), (53, 110820), (54, 110847),

Gene: Panchaali_164 Start: 106936, Stop: 107907, Start Num: 4
Candidate Starts for Panchaali_164:
(Start: 4 @106936 has 8 MA's), (9, 107071), (35, 107434), (39, 107491), (46, 107587), (62, 107812),

Gene: Patbob_163 Start: 110620, Stop: 111552, Start Num: 4
Candidate Starts for Patbob_163:
(Start: 4 @110620 has 8 MA's), (10, 110758), (22, 110908), (25, 110947), (33, 111070), (39, 111181), (41, 111196), (46, 111286), (48, 111292), (52, 111319), (53, 111325), (54, 111352),

Gene: PauloDiaboli_245 Start: 133773, Stop: 134867, Start Num: 3
Candidate Starts for PauloDiaboli_245:
(Start: 3 @133773 has 2 MA's), (15, 133986), (17, 134001), (19, 134028), (23, 134064), (30, 134184), (32, 134211), (38, 134322), (39, 134328), (51, 134454), (52, 134457), (67, 134802),

Gene: Phrampa_156 Start: 111690, Stop: 112622, Start Num: 4
Candidate Starts for Phrampa_156:
(Start: 4 @111690 has 8 MA's), (20, 111957), (22, 111978), (25, 112017), (33, 112140), (35, 112194), (39, 112251), (41, 112266), (45, 112302), (46, 112356), (52, 112389), (54, 112422),

Gene: Pumpernickel_229 Start: 135524, Stop: 136747, Start Num: 4
Candidate Starts for Pumpernickel_229:
(Start: 4 @135524 has 8 MA's), (6, 135602), (7, 135635), (8, 135656), (11, 135680), (21, 135797), (29, 135923), (31, 135959), (35, 136022), (36, 136064), (40, 136094), (41, 136097), (42, 136115), (50, 136193), (51, 136208), (53, 136217), (55, 136250), (65, 136508), (66, 136541), (68, 136688),

Gene: Racecar_166 Start: 111081, Stop: 112013, Start Num: 4
Candidate Starts for Racecar_166:
(Start: 4 @111081 has 8 MA's), (10, 111219), (22, 111369), (25, 111408), (33, 111531), (39, 111642), (46, 111747), (48, 111753), (52, 111780), (53, 111786), (54, 111813),

Gene: ReginaGlobina_168 Start: 111109, Stop: 112062, Start Num: 4
Candidate Starts for ReginaGlobina_168:
(Start: 4 @111109 has 8 MA's), (14, 111301), (21, 111379), (39, 111667), (51, 111793), (52, 111796),

Gene: Rockabye_165 Start: 101877, Stop: 102878, Start Num: 4
Candidate Starts for Rockabye_165:
(Start: 4 @101877 has 8 MA's), (5, 101883), (13, 102057), (14, 102069), (15, 102090), (16, 102096), (22, 102165), (24, 102171), (28, 102246), (32, 102309), (34, 102330), (39, 102435), (43, 102468),

Gene: Talia1610_165 Start: 110492, Stop: 111424, Start Num: 4
Candidate Starts for Talia1610_165:
(Start: 4 @110492 has 8 MA's), (10, 110630), (22, 110780), (25, 110819), (33, 110942), (39, 111053), (46, 111158), (48, 111164), (52, 111191), (53, 111197), (54, 111224),

Gene: WaddleDee_158 Start: 105322, Stop: 106260, Start Num: 4
Candidate Starts for WaddleDee_158:
(Start: 4 @105322 has 8 MA's), (12, 105493), (14, 105517), (21, 105595), (37, 105874), (39, 105883), (56, 106063), (59, 106129), (61, 106165),

Gene: Zooman_211 Start: 129709, Stop: 130782, Start Num: 4
Candidate Starts for Zooman_211:
(1, 129652), (Start: 4 @129709 has 8 MA's), (18, 129964), (19, 129967), (23, 130003), (26, 130048), (40, 130276), (41, 130279), (49, 130381), (51, 130402), (64, 130657),