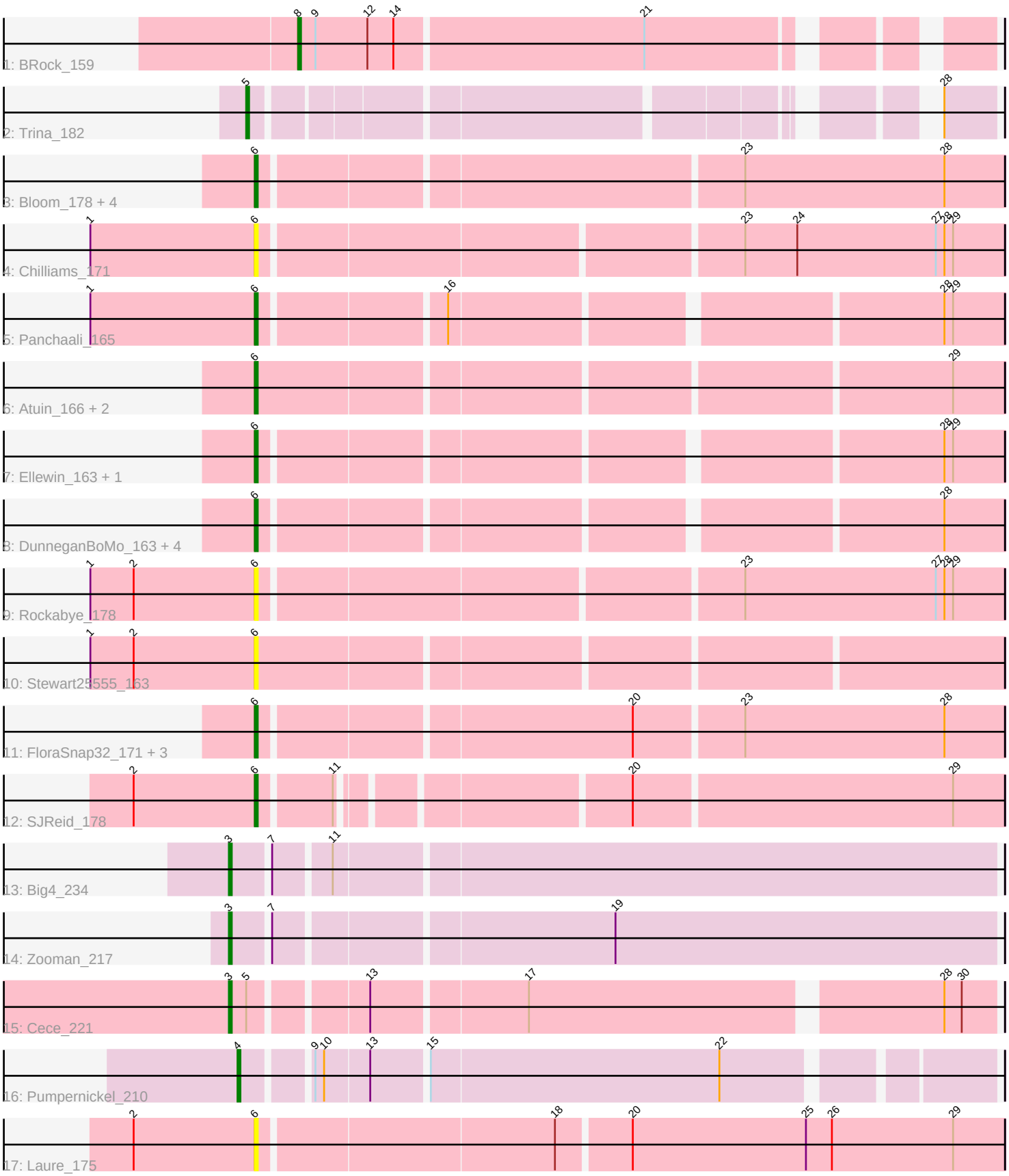
Pham 309030


1: BRock_159
2: Trina_182
3: Bloom_178 + 4
4: Chilliams_171
5: Panchaali_165
6: Atuin_166 + 2
7: Ellewin_163 + 1
8: DunneganBoMo_163 + 4
9: Rockabye_178
10: Stewart25555_163
11: FloraSnap32_171 + 3
12: SJReid_178
13: Big4_234
14: Zooman_217
15: Cece_221
16: Pumpernickel_210
17: Laure_175

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 309030 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309030 has 31 members, 13 are drafts.

Phages represented in each track:
• Track 1 : BRock_159
• Track 2 : Trina_182
• Track 3 : Bloom_178, Racecar_175, Talia1610_175, FrostedClock_177, Mimi_174
• Track 4 : Chilliams_171
• Track 5 : Panchaali_165
• Track 6 : Atuin_166, LeoJr_175, ReginaGlobina_179
• Track 7 : Ellewin_163, Artu_165
• Track 8 : DunneganBoMo_163, Emmetator_166, BooTeria_172, WaddleDee_159, KSunshine22_168
• Track 9 : Rockabye_178
• Track 10 : Stewart25555_163
• Track 11 : FloraSnap32_171, Phrampa_166, Patbob_172, GoldenEssence_161
• Track 12 : SJReid_178
• Track 13 : Big4_234
• Track 14 : Zooman_217
• Track 15 : Cece_221
• Track 16 : Pumpernickel_210
• Track 17 : Laure_175

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

The start number called the most often in the published annotations is 6, it was called in 12 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Artu_165, Atuin_166, Bloom_178, BooTeria_172, Chilliams_171, DunneganBoMo_163, Ellewin_163, Emmetator_166, FloraSnap32_171, FrostedClock_177, GoldenEssence_161, KSunshine22_168, Laure_175, LeoJr_175, Mimi_174, Panchaali_165, Patbob_172, Phrampa_166, Racecar_175, ReginaGlobina_179, Rockabye_178, SJReid_178, Stewart25555_163, Talia1610_175, WaddleDee_159,

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

Genes that do not have the "Most Annotated" start:
• BRock_159, Big4_234, Cece_221, Pumpernickel_210, Trina_182, Zooman_217,

Summary by start number:

Start 3:
• Found in 3 of 31 (9.7%) of genes in pham
• Manual Annotations of this start: 3 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Big4_234 (GD2), Cece_221 (GD3), Zooman_217 (GD2),

Start 4:
• Found in 1 of 31 (3.2%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Pumpernickel_210 (GD4),

Start 5:
• Found in 2 of 31 (6.5%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Trina_182 (CE),

Start 6:
• Found in 25 of 31 (80.6%) of genes in pham
• Manual Annotations of this start: 12 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Artu_165 (FC), Atuin_166 (FC), Bloom_178 (FC), BooTeria_172 (FC), Chilliams_171 (FC), DunneganBoMo_163 (FC), Ellewin_163 (FC), Emmetator_166 (FC), FloraSnap32_171 (FC), FrostedClock_177 (FC), GoldenEssence_161 (FC), KSunshine22_168 (FC), Laure_175 (UNK), LeoJr_175 (FC), Mimi_174 (FC), Panchaali_165 (FC), Patbob_172 (FC), Phrampa_166 (FC), Racecar_175 (FC), ReginaGlobina_179 (FC), Rockabye_178 (FC), SJReid_178 (FC), Stewart25555_163 (FC), Talia1610_175 (FC), WaddleDee_159 (FC),

Start 8:
• Found in 1 of 31 (3.2%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BRock_159 (BS),

Summary by clusters:

There are 7 clusters represented in this pham: GD2, GD3, GD4, CE, FC, BS, UNK,

Info for manual annotations of cluster BS:
•Start number 8 was manually annotated 1 time for cluster BS.

Info for manual annotations of cluster CE:
•Start number 5 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster FC:
•Start number 6 was manually annotated 12 times for cluster FC.

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 3 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: Artu_165 Start: 112577, Stop: 112816, Start Num: 6
Candidate Starts for Artu_165:
(Start: 6 @112577 has 12 MA's), (28, 112796), (29, 112799),

Gene: Atuin_166 Start: 115133, Stop: 115378, Start Num: 6
Candidate Starts for Atuin_166:
(Start: 6 @115133 has 12 MA's), (29, 115361),

Gene: BRock_159 Start: 83813, Stop: 84028, Start Num: 8
Candidate Starts for BRock_159:
(Start: 8 @83813 has 1 MA's), (9, 83819), (12, 83837), (14, 83846), (21, 83930),

Gene: Big4_234 Start: 134767, Stop: 135021, Start Num: 3
Candidate Starts for Big4_234:
(Start: 3 @134767 has 3 MA's), (7, 134779), (11, 134797),

Gene: Bloom_178 Start: 115695, Stop: 115943, Start Num: 6
Candidate Starts for Bloom_178:
(Start: 6 @115695 has 12 MA's), (23, 115854), (28, 115923),

Gene: BooTeria_172 Start: 112744, Stop: 112983, Start Num: 6
Candidate Starts for BooTeria_172:
(Start: 6 @112744 has 12 MA's), (28, 112963),

Gene: Cece_221 Start: 135065, Stop: 135310, Start Num: 3
Candidate Starts for Cece_221:
(Start: 3 @135065 has 3 MA's), (Start: 5 @135071 has 1 MA's), (13, 135107), (17, 135158), (28, 135293), (30, 135299),

Gene: Chilliams_171 Start: 106469, Stop: 106717, Start Num: 6
Candidate Starts for Chilliams_171:
(1, 106412), (Start: 6 @106469 has 12 MA's), (23, 106628), (24, 106646), (27, 106694), (28, 106697), (29, 106700),

Gene: DunneganBoMo_163 Start: 111926, Stop: 112165, Start Num: 6

Candidate Starts for DunneganBoMo_163:
(Start: 6 @111926 has 12 MA's), (28, 112145),

Gene: Ellewin_163 Start: 112033, Stop: 112272, Start Num: 6
Candidate Starts for Ellewin_163:
(Start: 6 @112033 has 12 MA's), (28, 112252), (29, 112255),

Gene: Emmetator_166 Start: 112242, Stop: 112481, Start Num: 6
Candidate Starts for Emmetator_166:
(Start: 6 @112242 has 12 MA's), (28, 112461),

Gene: FloraSnap32_171 Start: 114014, Stop: 114262, Start Num: 6
Candidate Starts for FloraSnap32_171:
(Start: 6 @114014 has 12 MA's), (20, 114137), (23, 114173), (28, 114242),

Gene: FrostedClock_177 Start: 116264, Stop: 116512, Start Num: 6
Candidate Starts for FrostedClock_177:
(Start: 6 @116264 has 12 MA's), (23, 116423), (28, 116492),

Gene: GoldenEssence_161 Start: 109256, Stop: 109504, Start Num: 6
Candidate Starts for GoldenEssence_161:
(Start: 6 @109256 has 12 MA's), (20, 109379), (23, 109415), (28, 109484),

Gene: KSunshine22_168 Start: 112989, Stop: 113228, Start Num: 6
Candidate Starts for KSunshine22_168:
(Start: 6 @112989 has 12 MA's), (28, 113208),

Gene: Laure_175 Start: 107004, Stop: 107255, Start Num: 6
Candidate Starts for Laure_175:
(2, 106962), (Start: 6 @107004 has 12 MA's), (18, 107103), (20, 107127), (25, 107187), (26, 107196), (29, 107238),

Gene: LeoJr_175 Start: 115753, Stop: 115998, Start Num: 6
Candidate Starts for LeoJr_175:
(Start: 6 @115753 has 12 MA's), (29, 115981),

Gene: Mimi_174 Start: 115322, Stop: 115570, Start Num: 6
Candidate Starts for Mimi_174:
(Start: 6 @115322 has 12 MA's), (23, 115481), (28, 115550),

Gene: Panchaali_165 Start: 112850, Stop: 113089, Start Num: 6
Candidate Starts for Panchaali_165:
(1, 112793), (Start: 6 @112850 has 12 MA's), (16, 112910), (28, 113069), (29, 113072),

Gene: Patbob_172 Start: 115878, Stop: 116126, Start Num: 6
Candidate Starts for Patbob_172:
(Start: 6 @115878 has 12 MA's), (20, 116001), (23, 116037), (28, 116106),

Gene: Phrampa_166 Start: 117442, Stop: 117690, Start Num: 6
Candidate Starts for Phrampa_166:
(Start: 6 @117442 has 12 MA's), (20, 117565), (23, 117601), (28, 117670),

Gene: Pumpernickel_210 Start: 119677, Stop: 119916, Start Num: 4

Candidate Starts for Pumpernickel_210:
(Start: 4 @119677 has 1 MA's), (9, 119698), (10, 119701), (13, 119716), (15, 119734), (22, 119833),

Gene: Racecar_175 Start: 116288, Stop: 116536, Start Num: 6
Candidate Starts for Racecar_175:
(Start: 6 @116288 has 12 MA's), (23, 116447), (28, 116516),

Gene: ReginaGlobina_179 Start: 117026, Stop: 117271, Start Num: 6
Candidate Starts for ReginaGlobina_179:
(Start: 6 @117026 has 12 MA's), (29, 117254),

Gene: Rockabye_178 Start: 108370, Stop: 108618, Start Num: 6
Candidate Starts for Rockabye_178:
(1, 108313), (2, 108328), (Start: 6 @108370 has 12 MA's), (23, 108529), (27, 108595), (28, 108598), (29, 108601),

Gene: SJReid_178 Start: 106598, Stop: 106837, Start Num: 6
Candidate Starts for SJReid_178:
(2, 106556), (Start: 6 @106598 has 12 MA's), (11, 106622), (20, 106712), (29, 106820),

Gene: Stewart25555_163 Start: 113522, Stop: 113767, Start Num: 6
Candidate Starts for Stewart25555_163:
(1, 113465), (2, 113480), (Start: 6 @113522 has 12 MA's),

Gene: Talia1610_175 Start: 115699, Stop: 115947, Start Num: 6
Candidate Starts for Talia1610_175:
(Start: 6 @115699 has 12 MA's), (23, 115858), (28, 115927),

Gene: Trina_182 Start: 101568, Stop: 101786, Start Num: 5
Candidate Starts for Trina_182:
(Start: 5 @101568 has 1 MA's), (28, 101769),

Gene: WaddleDee_159 Start: 111199, Stop: 111438, Start Num: 6
Candidate Starts for WaddleDee_159:
(Start: 6 @111199 has 12 MA's), (28, 111418),

Gene: Zooman_217 Start: 133387, Stop: 133641, Start Num: 3
Candidate Starts for Zooman_217:
(Start: 3 @133387 has 3 MA's), (7, 133399), (19, 133510),