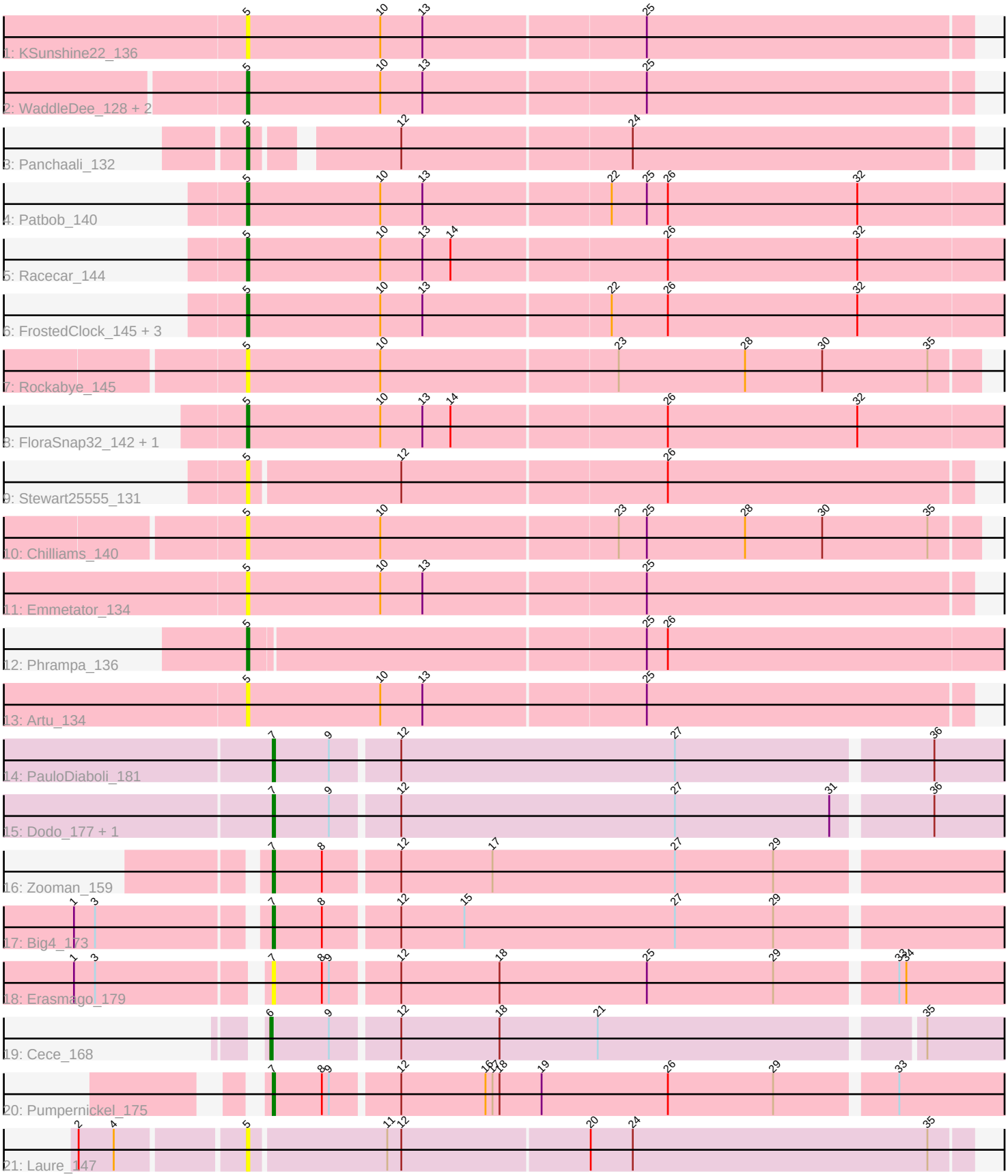
Pham 311898


1: KSunshine22_136
2: WaddleDee_128 + 2
3: Panchaali_132
4: Patbob_140
5: Racecar_144
6: FrostedClock_145 + 3
7: Rockabye_145
8: FloraSnap32_142 + 1
9: Stewart25555_131
10: Chilliams_140
11: Emmetator_134
12: Phrampa_136
13: Artu_134
14: PauloDiaboli_181
15: Dodo_177 + 1
16: Zooman_159
17: Big4_173
18: Erasmago_179
19: Cece_168
20: Pumpernickel_175
21: Laure_147

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 311898 Report

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

Pham number 311898 has 28 members, 12 are drafts.

Phages represented in each track:
• Track 1 : KSunshine22_136
• Track 2 : WaddleDee_128, BooTeria_139, DunneganBoMo_130
• Track 3 : Panchaali_132
• Track 4 : Patbob_140
• Track 5 : Racecar_144
• Track 6 : FrostedClock_145, Mimi_143, Talia1610_145, Bloom_146
• Track 7 : Rockabye_145
• Track 8 : FloraSnap32_142, GoldenEssence_129
• Track 9 : Stewart25555_131
• Track 10 : Chilliams_140
• Track 11 : Emmetator_134
• Track 12 : Phrampa_136
• Track 13 : Artu_134
• Track 14 : PauloDiaboli_181
• Track 15 : Dodo_177, A3Wally_182
• Track 16 : Zooman_159
• Track 17 : Big4_173
• Track 18 : Erasmago_179
• Track 19 : Cece_168
• Track 20 : Pumpernickel_175
• Track 21 : Laure_147

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

The start number called the most often in the published annotations is 5, it was called in 9 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Artu_134, Bloom_146, BooTeria_139, Chilliams_140, DunneganBoMo_130, Emmetator_134, FloraSnap32_142, FrostedClock_145, GoldenEssence_129, KSunshine22_136, Laure_147, Mimi_143, Panchaali_132, Patbob_140, Phrampa_136, Racecar_144, Rockabye_145, Stewart25555_131, Talia1610_145, WaddleDee_128,

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

Genes that do not have the "Most Annotated" start:
• A3Wally_182, Big4_173, Cece_168, Dodo_177, Erasmago_179, PauloDiaboli_181, Pumpernickel_175, Zooman_159,

Summary by start number:

Start 5:
• Found in 20 of 28 (71.4%) of genes in pham
• Manual Annotations of this start: 9 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Artu_134 (FC), Bloom_146 (FC), BooTeria_139 (FC), Chilliams_140 (FC), DunneganBoMo_130 (FC), Emmetator_134 (FC), FloraSnap32_142 (FC), FrostedClock_145 (FC), GoldenEssence_129 (FC), KSunshine22_136 (FC), Laure_147 (UNK), Mimi_143 (FC), Panchaali_132 (FC), Patbob_140 (FC), Phrampa_136 (FC), Racecar_144 (FC), Rockabye_145 (FC), Stewart25555_131 (FC), Talia1610_145 (FC), WaddleDee_128 (FC),

Start 6:
• Found in 1 of 28 (3.6%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cece_168 (GD3),

Start 7:
• Found in 7 of 28 (25.0%) of genes in pham
• Manual Annotations of this start: 6 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: A3Wally_182 (GD1), Big4_173 (GD2), Dodo_177 (GD1), Erasmago_179 (GD2), PauloDiaboli_181 (GD1), Pumpernickel_175 (GD4), Zooman_159 (GD2),

Summary by clusters:

There are 6 clusters represented in this pham: GD1, GD2, GD3, GD4, FC, UNK,

Info for manual annotations of cluster FC:
•Start number 5 was manually annotated 9 times for cluster FC.

Info for manual annotations of cluster GD1:
•Start number 7 was manually annotated 3 times for cluster GD1.

Info for manual annotations of cluster GD2:
•Start number 7 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:
•Start number 6 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:
•Start number 7 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: A3Wally_182 Start: 100432, Stop: 100740, Start Num: 7
Candidate Starts for A3Wally_182:
(Start: 7 @100432 has 6 MA's), (9, 100456), (12, 100483), (27, 100600), (31, 100666), (36, 100705),

Gene: Artu_134 Start: 94411, Stop: 94716, Start Num: 5
Candidate Starts for Artu_134:
(Start: 5 @94411 has 9 MA's), (10, 94468), (13, 94486), (25, 94579),

Gene: Big4_173 Start: 97536, Stop: 97844, Start Num: 7
Candidate Starts for Big4_173:
(1, 97461), (3, 97470), (Start: 7 @97536 has 6 MA's), (8, 97557), (12, 97587), (15, 97614), (27, 97704), (29, 97746),

Gene: Bloom_146 Start: 97813, Stop: 98154, Start Num: 5
Candidate Starts for Bloom_146:
(Start: 5 @97813 has 9 MA's), (10, 97870), (13, 97888), (22, 97966), (26, 97990), (32, 98071),

Gene: BooTeria_139 Start: 94554, Stop: 94859, Start Num: 5
Candidate Starts for BooTeria_139:
(Start: 5 @94554 has 9 MA's), (10, 94611), (13, 94629), (25, 94722),

Gene: Cece_168 Start: 102563, Stop: 102877, Start Num: 6
Candidate Starts for Cece_168:
(Start: 6 @102563 has 1 MA's), (9, 102587), (12, 102614), (18, 102656), (21, 102698), (35, 102830),

Gene: Chilliams_140 Start: 88443, Stop: 88751, Start Num: 5
Candidate Starts for Chilliams_140:
(Start: 5 @88443 has 9 MA's), (10, 88500), (23, 88599), (25, 88611), (28, 88653), (30, 88686), (35, 88731),

Gene: Dodo_177 Start: 100044, Stop: 100352, Start Num: 7
Candidate Starts for Dodo_177:
(Start: 7 @100044 has 6 MA's), (9, 100068), (12, 100095), (27, 100212), (31, 100278), (36, 100317),

Gene: DunneganBoMo_130 Start: 93823, Stop: 94128, Start Num: 5
Candidate Starts for DunneganBoMo_130:
(Start: 5 @93823 has 9 MA's), (10, 93880), (13, 93898), (25, 93991),

Gene: Emmetator_134 Start: 93740, Stop: 94045, Start Num: 5
Candidate Starts for Emmetator_134:
(Start: 5 @93740 has 9 MA's), (10, 93797), (13, 93815), (25, 93908),

Gene: Erasmago_179 Start: 97859, Stop: 98167, Start Num: 7
Candidate Starts for Erasmago_179:
(1, 97784), (3, 97793), (Start: 7 @97859 has 6 MA's), (8, 97880), (9, 97883), (12, 97910), (18, 97952), (25, 98015), (29, 98069), (33, 98117), (34, 98120),

Gene: FloraSnap32_142 Start: 96628, Stop: 96969, Start Num: 5

Candidate Starts for FloraSnap32_142:
(Start: 5 @96628 has 9 MA's), (10, 96685), (13, 96703), (14, 96715), (26, 96805), (32, 96886),

Gene: FrostedClock_145 Start: 97810, Stop: 98151, Start Num: 5
Candidate Starts for FrostedClock_145:
(Start: 5 @97810 has 9 MA's), (10, 97867), (13, 97885), (22, 97963), (26, 97987), (32, 98068),

Gene: GoldenEssence_129 Start: 91511, Stop: 91852, Start Num: 5
Candidate Starts for GoldenEssence_129:
(Start: 5 @91511 has 9 MA's), (10, 91568), (13, 91586), (14, 91598), (26, 91688), (32, 91769),

Gene: KSunshine22_136 Start: 94974, Stop: 95279, Start Num: 5
Candidate Starts for KSunshine22_136:
(Start: 5 @94974 has 9 MA's), (10, 95031), (13, 95049), (25, 95142),

Gene: Laure_147 Start: 91171, Stop: 91473, Start Num: 5
Candidate Starts for Laure_147:
(2, 91105), (4, 91120), (Start: 5 @91171 has 9 MA's), (11, 91228), (12, 91234), (20, 91312), (24, 91330), (35, 91456),

Gene: Mimi_143 Start: 96878, Stop: 97219, Start Num: 5
Candidate Starts for Mimi_143:
(Start: 5 @96878 has 9 MA's), (10, 96935), (13, 96953), (22, 97031), (26, 97055), (32, 97136),

Gene: Panchaali_132 Start: 94170, Stop: 94463, Start Num: 5
Candidate Starts for Panchaali_132:
(Start: 5 @94170 has 9 MA's), (12, 94224), (24, 94320),

Gene: Patbob_140 Start: 97640, Stop: 97981, Start Num: 5
Candidate Starts for Patbob_140:
(Start: 5 @97640 has 9 MA's), (10, 97697), (13, 97715), (22, 97793), (25, 97808), (26, 97817), (32, 97898),

Gene: PauloDiaboli_181 Start: 98479, Stop: 98787, Start Num: 7
Candidate Starts for PauloDiaboli_181:
(Start: 7 @98479 has 6 MA's), (9, 98503), (12, 98530), (27, 98647), (36, 98752),

Gene: Phrampa_136 Start: 99174, Stop: 99506, Start Num: 5
Candidate Starts for Phrampa_136:
(Start: 5 @99174 has 9 MA's), (25, 99339), (26, 99348),

Gene: Pumpernickel_175 Start: 100142, Stop: 100450, Start Num: 7
Candidate Starts for Pumpernickel_175:
(Start: 7 @100142 has 6 MA's), (8, 100163), (9, 100166), (12, 100193), (16, 100229), (17, 100232), (18, 100235), (19, 100253), (26, 100307), (29, 100352), (33, 100400),

Gene: Racecar_144 Start: 97866, Stop: 98207, Start Num: 5
Candidate Starts for Racecar_144:
(Start: 5 @97866 has 9 MA's), (10, 97923), (13, 97941), (14, 97953), (26, 98043), (32, 98124),

Gene: Rockabye_145 Start: 89730, Stop: 90038, Start Num: 5
Candidate Starts for Rockabye_145:
(Start: 5 @89730 has 9 MA's), (10, 89787), (23, 89886), (28, 89940), (30, 89973), (35, 90018),

Gene: Stewart25555_131 Start: 94819, Stop: 95121, Start Num: 5
Candidate Starts for Stewart25555_131:
(Start: 5 @94819 has 9 MA's), (12, 94882), (26, 94993),

Gene: Talia1610_145 Start: 97881, Stop: 98222, Start Num: 5
Candidate Starts for Talia1610_145:
(Start: 5 @97881 has 9 MA's), (10, 97938), (13, 97956), (22, 98034), (26, 98058), (32, 98139),

Gene: WaddleDee_128 Start: 93009, Stop: 93314, Start Num: 5
Candidate Starts for WaddleDee_128:
(Start: 5 @93009 has 9 MA's), (10, 93066), (13, 93084), (25, 93177),

Gene: Zooman_159 Start: 94719, Stop: 95027, Start Num: 7
Candidate Starts for Zooman_159:
(Start: 7 @94719 has 6 MA's), (8, 94740), (12, 94770), (17, 94809), (27, 94887), (29, 94929),