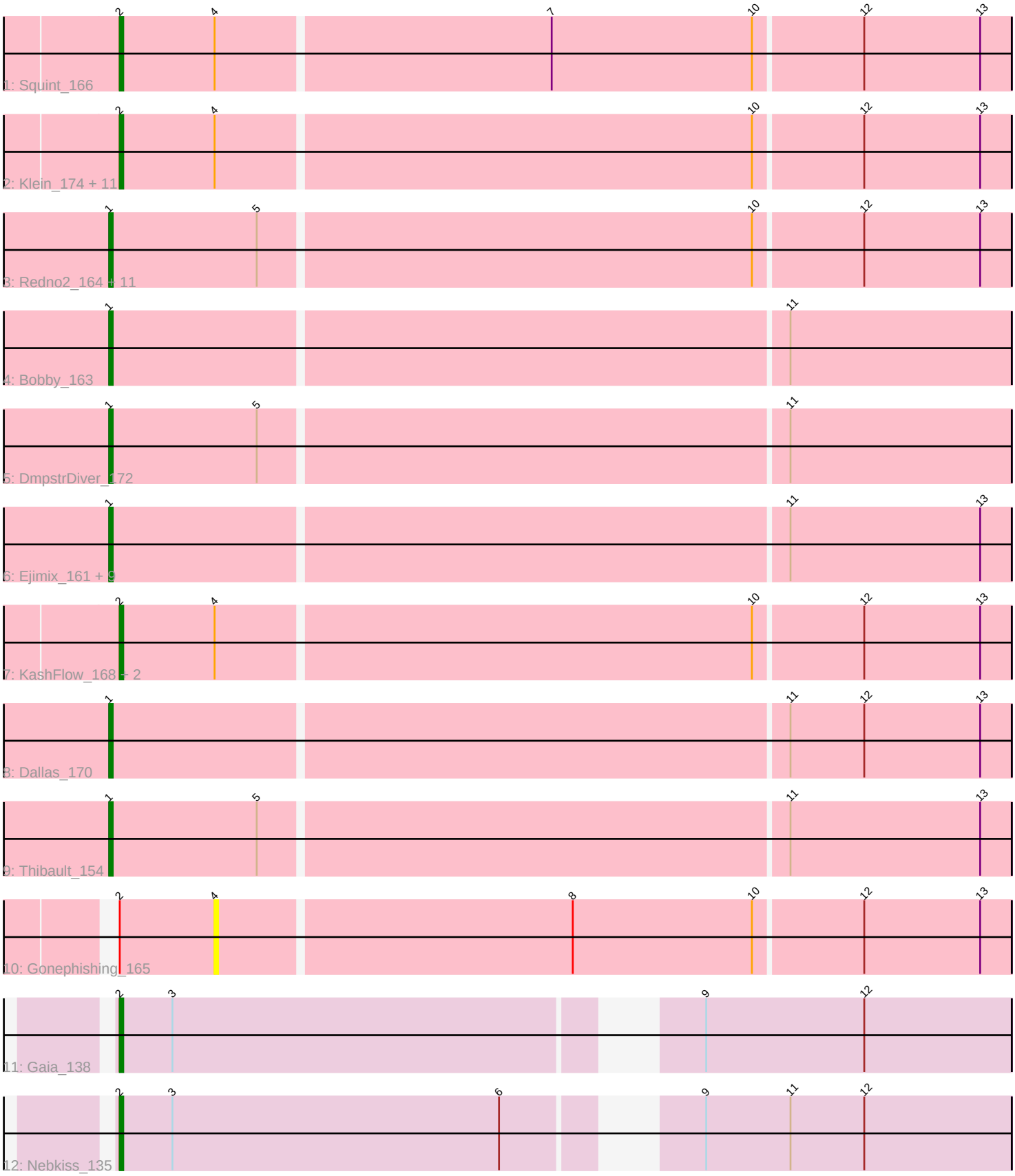
Pham 2151


1: Squint_166
2: Klein_174 + 11
3: Redno2_164 + 11
4: Bobby_163
5: DmpstrDiver_172
6: Ejimix_161 + 9
7: KashFlow_168 + 2
8: Dallas_170
9: Thibault_154
10: Gonephishing_165
11: Gaia_138
12: Nebkiss_135

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 2151 Report

This analysis was run 04/28/24 on database version 559.

Pham number 2151 has 45 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Squint_166
• Track 2 : Klein_174, LittleE_178, Courthouse_168, Porcelain_171, ThreeRngTarjay_167, MiaZeal_174, Superphikiman_169, Bagrid_179, Lucky2013_167, EricMillard_168, Wanda_168, Ariel_171
• Track 3 : Redno2_164, Dove_165, Halley_171, NihilNomen_172, Phoebus_171, Minerva_170, Yeet_162, HokkenD_165, JuicyJay_165, Kalah2_167, Schatzie_165, Bombitas_157
• Track 4 : Bobby_163
• Track 5 : DmpstrDiver_172
• Track 6 : Ejimix_161, Duke13_173, Constella_166, Pound_164, Hughesyang_169, Odette_174, Beem_171, Optimus_169, BAKA_176, Zelink_163
• Track 7 : KashFlow_168, Omega_180, Hannaconda_163
• Track 8 : Dallas_170
• Track 9 : Thibault_154
• Track 10 : Gonephishing_165
• Track 11 : Gaia_138
• Track 12 : Nebkiss_135

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

The start number called the most often in the published annotations is 1, it was called in 24 of the 41 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BAKA_176, Beem_171, Bobby_163, Bombitas_157, Constella_166, Dallas_170, DmpstrDiver_172, Dove_165, Duke13_173, Ejimix_161, Halley_171, HokkenD_165, Hughesyang_169, JuicyJay_165, Kalah2_167, Minerva_170, NihilNomen_172, Odette_174, Optimus_169, Phoebus_171, Pound_164, Redno2_164, Schatzie_165, Thibault_154, Yeet_162, Zelink_163,

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

Genes that do not have the "Most Annotated" start:

• Ariel_171, Bagrid_179, Courthouse_168, EricMillard_168, Gaia_138, Gonephishing_165, Hannaconda_163, KashFlow_168, Klein_174, LittleE_178, Lucky2013_167, MiaZeal_174, Nebkiss_135, Omega_180, Porcelain_171, Squint_166, Superphikiman_169, ThreeRngTarjay_167, Wanda_168,

Summary by start number:

Start 1:
• Found in 26 of 45 (57.8%) of genes in pham
• Manual Annotations of this start: 24 of 41
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BAKA_176 (J), Beem_171 (J), Bobby_163 (J), Bombitas_157 (J), Constella_166 (J), Dallas_170 (J), DmpstrDiver_172 (J), Dove_165 (J), Duke13_173 (J), Ejimix_161 (J), Halley_171 (J), HokkenD_165 (J), Hughesyang_169 (J), JuicyJay_165 (J), Kalah2_167 (J), Minerva_170 (J), NihilNomen_172 (J), Odette_174 (J), Optimus_169 (J), Phoebus_171 (J), Pound_164 (J), Redno2_164 (J), Schatzie_165 (J), Thibault_154 (J), Yeet_162 (J), Zelink_163 (J),

Start 2:
• Found in 19 of 45 (42.2%) of genes in pham
• Manual Annotations of this start: 17 of 41
• Called 94.7% of time when present
• Phage (with cluster) where this start called: Ariel_171 (J), Bagrid_179 (J), Courthouse_168 (J), EricMillard_168 (J), Gaia_138 (X), Hannaconda_163 (J), KashFlow_168 (J), Klein_174 (J), LittleE_178 (J), Lucky2013_167 (J), MiaZeal_174 (J), Nebkiss_135 (X), Omega_180 (J), Porcelain_171 (J), Squint_166 (J), Superphikiman_169 (J), ThreeRngTarjay_167 (J), Wanda_168 (J),

Start 4:
• Found in 17 of 45 (37.8%) of genes in pham
• No Manual Annotations of this start.
• Called 5.9% of time when present
• Phage (with cluster) where this start called: Gonephishing_165 (J),

Summary by clusters:

There are 2 clusters represented in this pham: X, J,

Info for manual annotations of cluster J:
•Start number 1 was manually annotated 24 times for cluster J.
•Start number 2 was manually annotated 15 times for cluster J.

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

Gene Information:

Gene: Ariel_171 Start: 87397, Stop: 87645, Start Num: 2
Candidate Starts for Ariel_171:
(Start: 2 @87397 has 17 MA's), (4, 87424), (10, 87574), (12, 87604), (13, 87637),

Gene: BAKA_176 Start: 92208, Stop: 92459, Start Num: 1
Candidate Starts for BAKA_176:
(Start: 1 @92208 has 24 MA's), (11, 92397), (13, 92451),

Gene: Bagrid_179 Start: 92677, Stop: 92925, Start Num: 2
Candidate Starts for Bagrid_179:
(Start: 2 @92677 has 17 MA's), (4, 92704), (10, 92854), (12, 92884), (13, 92917),

Gene: Beem_171 Start: 91363, Stop: 91614, Start Num: 1
Candidate Starts for Beem_171:
(Start: 1 @91363 has 24 MA's), (11, 91552), (13, 91606),

Gene: Bobby_163 Start: 92355, Stop: 92606, Start Num: 1
Candidate Starts for Bobby_163:
(Start: 1 @92355 has 24 MA's), (11, 92544),

Gene: Bombitas_157 Start: 87593, Stop: 87844, Start Num: 1
Candidate Starts for Bombitas_157:
(Start: 1 @87593 has 24 MA's), (5, 87635), (10, 87773), (12, 87803), (13, 87836),

Gene: Constella_166 Start: 90097, Stop: 90348, Start Num: 1
Candidate Starts for Constella_166:
(Start: 1 @90097 has 24 MA's), (11, 90286), (13, 90340),

Gene: Courthouse_168 Start: 87841, Stop: 88089, Start Num: 2
Candidate Starts for Courthouse_168:
(Start: 2 @87841 has 17 MA's), (4, 87868), (10, 88018), (12, 88048), (13, 88081),

Gene: Dallas_170 Start: 90586, Stop: 90837, Start Num: 1
Candidate Starts for Dallas_170:
(Start: 1 @90586 has 24 MA's), (11, 90775), (12, 90796), (13, 90829),

Gene: DmpstrDiver_172 Start: 90281, Stop: 90532, Start Num: 1
Candidate Starts for DmpstrDiver_172:
(Start: 1 @90281 has 24 MA's), (5, 90323), (11, 90470),

Gene: Dove_165 Start: 85949, Stop: 86200, Start Num: 1
Candidate Starts for Dove_165:
(Start: 1 @85949 has 24 MA's), (5, 85991), (10, 86129), (12, 86159), (13, 86192),

Gene: Duke13_173 Start: 90704, Stop: 90955, Start Num: 1
Candidate Starts for Duke13_173:
(Start: 1 @90704 has 24 MA's), (11, 90893), (13, 90947),

Gene: Ejimix_161 Start: 89574, Stop: 89825, Start Num: 1
Candidate Starts for Ejimix_161:
(Start: 1 @89574 has 24 MA's), (11, 89763), (13, 89817),

Gene: EricMillard_168 Start: 91287, Stop: 91535, Start Num: 2
Candidate Starts for EricMillard_168:
(Start: 2 @91287 has 17 MA's), (4, 91314), (10, 91464), (12, 91494), (13, 91527),

Gene: Gaia_138 Start: 75319, Stop: 75552, Start Num: 2
Candidate Starts for Gaia_138:
(Start: 2 @75319 has 17 MA's), (3, 75334), (9, 75466), (12, 75511),

Gene: Gonephishing_165 Start: 88685, Stop: 88906, Start Num: 4
Candidate Starts for Gonephishing_165:
(Start: 2 @88658 has 17 MA's), (4, 88685), (8, 88784), (10, 88835), (12, 88865), (13, 88898),

Gene: Halley_171 Start: 89890, Stop: 90141, Start Num: 1
Candidate Starts for Halley_171:
(Start: 1 @89890 has 24 MA's), (5, 89932), (10, 90070), (12, 90100), (13, 90133),

Gene: Hannaconda_163 Start: 90579, Stop: 90827, Start Num: 2
Candidate Starts for Hannaconda_163:
(Start: 2 @90579 has 17 MA's), (4, 90606), (10, 90756), (12, 90786), (13, 90819),

Gene: HokkenD_165 Start: 91671, Stop: 91922, Start Num: 1
Candidate Starts for HokkenD_165:
(Start: 1 @91671 has 24 MA's), (5, 91713), (10, 91851), (12, 91881), (13, 91914),

Gene: Hughesyang_169 Start: 90372, Stop: 90623, Start Num: 1
Candidate Starts for Hughesyang_169:
(Start: 1 @90372 has 24 MA's), (11, 90561), (13, 90615),

Gene: JuicyJay_165 Start: 91318, Stop: 91569, Start Num: 1
Candidate Starts for JuicyJay_165:
(Start: 1 @91318 has 24 MA's), (5, 91360), (10, 91498), (12, 91528), (13, 91561),

Gene: Kalah2_167 Start: 91656, Stop: 91907, Start Num: 1
Candidate Starts for Kalah2_167:
(Start: 1 @91656 has 24 MA's), (5, 91698), (10, 91836), (12, 91866), (13, 91899),

Gene: KashFlow_168 Start: 90392, Stop: 90640, Start Num: 2
Candidate Starts for KashFlow_168:
(Start: 2 @90392 has 17 MA's), (4, 90419), (10, 90569), (12, 90599), (13, 90632),

Gene: Klein_174 Start: 90102, Stop: 90350, Start Num: 2
Candidate Starts for Klein_174:
(Start: 2 @90102 has 17 MA's), (4, 90129), (10, 90279), (12, 90309), (13, 90342),

Gene: LittleE_178 Start: 91415, Stop: 91663, Start Num: 2
Candidate Starts for LittleE_178:
(Start: 2 @91415 has 17 MA's), (4, 91442), (10, 91592), (12, 91622), (13, 91655),

Gene: Lucky2013_167 Start: 86912, Stop: 87160, Start Num: 2
Candidate Starts for Lucky2013_167:
(Start: 2 @86912 has 17 MA's), (4, 86939), (10, 87089), (12, 87119), (13, 87152),

Gene: MiaZeal_174 Start: 88059, Stop: 88307, Start Num: 2
Candidate Starts for MiaZeal_174:
(Start: 2 @88059 has 17 MA's), (4, 88086), (10, 88236), (12, 88266), (13, 88299),

Gene: Minerva_170 Start: 89736, Stop: 89987, Start Num: 1

Candidate Starts for Minerva_170:
(Start: 1 @89736 has 24 MA's), (5, 89778), (10, 89916), (12, 89946), (13, 89979),

Gene: Nebkiss_135 Start: 71319, Stop: 71552, Start Num: 2
Candidate Starts for Nebkiss_135:
(Start: 2 @71319 has 17 MA's), (3, 71334), (6, 71427), (9, 71466), (11, 71490), (12, 71511),

Gene: NihilNomen_172 Start: 89444, Stop: 89695, Start Num: 1
Candidate Starts for NihilNomen_172:
(Start: 1 @89444 has 24 MA's), (5, 89486), (10, 89624), (12, 89654), (13, 89687),

Gene: Odette_174 Start: 92125, Stop: 92376, Start Num: 1
Candidate Starts for Odette_174:
(Start: 1 @92125 has 24 MA's), (11, 92314), (13, 92368),

Gene: Omega_180 Start: 92773, Stop: 93021, Start Num: 2
Candidate Starts for Omega_180:
(Start: 2 @92773 has 17 MA's), (4, 92800), (10, 92950), (12, 92980), (13, 93013),

Gene: Optimus_169 Start: 90651, Stop: 90902, Start Num: 1
Candidate Starts for Optimus_169:
(Start: 1 @90651 has 24 MA's), (11, 90840), (13, 90894),

Gene: Phoebus_171 Start: 93131, Stop: 93382, Start Num: 1
Candidate Starts for Phoebus_171:
(Start: 1 @93131 has 24 MA's), (5, 93173), (10, 93311), (12, 93341), (13, 93374),

Gene: Porcelain_171 Start: 87858, Stop: 88106, Start Num: 2
Candidate Starts for Porcelain_171:
(Start: 2 @87858 has 17 MA's), (4, 87885), (10, 88035), (12, 88065), (13, 88098),

Gene: Pound_164 Start: 89180, Stop: 89431, Start Num: 1
Candidate Starts for Pound_164:
(Start: 1 @89180 has 24 MA's), (11, 89369), (13, 89423),

Gene: Redno2_164 Start: 87244, Stop: 87495, Start Num: 1
Candidate Starts for Redno2_164:
(Start: 1 @87244 has 24 MA's), (5, 87286), (10, 87424), (12, 87454), (13, 87487),

Gene: Schatzie_165 Start: 90179, Stop: 90430, Start Num: 1
Candidate Starts for Schatzie_165:
(Start: 1 @90179 has 24 MA's), (5, 90221), (10, 90359), (12, 90389), (13, 90422),

Gene: Squint_166 Start: 88368, Stop: 88616, Start Num: 2
Candidate Starts for Squint_166:
(Start: 2 @88368 has 17 MA's), (4, 88395), (7, 88488), (10, 88545), (12, 88575), (13, 88608),

Gene: Superphikiman_169 Start: 87537, Stop: 87785, Start Num: 2
Candidate Starts for Superphikiman_169:
(Start: 2 @87537 has 17 MA's), (4, 87564), (10, 87714), (12, 87744), (13, 87777),

Gene: Thibault_154 Start: 87059, Stop: 87310, Start Num: 1
Candidate Starts for Thibault_154:

(Start: 1 @87059 has 24 MA's), (5, 87101), (11, 87248), (13, 87302),

Gene: ThreeRngTarjay_167 Start: 91160, Stop: 91408, Start Num: 2
Candidate Starts for ThreeRngTarjay_167:
(Start: 2 @91160 has 17 MA's), (4, 91187), (10, 91337), (12, 91367), (13, 91400),

Gene: Wanda_168 Start: 87751, Stop: 87999, Start Num: 2
Candidate Starts for Wanda_168:
(Start: 2 @87751 has 17 MA's), (4, 87778), (10, 87928), (12, 87958), (13, 87991),

Gene: Yeet_162 Start: 89032, Stop: 89283, Start Num: 1
Candidate Starts for Yeet_162:
(Start: 1 @89032 has 24 MA's), (5, 89074), (10, 89212), (12, 89242), (13, 89275),

Gene: Zelink_163 Start: 89367, Stop: 89618, Start Num: 1
Candidate Starts for Zelink_163:
(Start: 1 @89367 has 24 MA's), (11, 89556), (13, 89610),