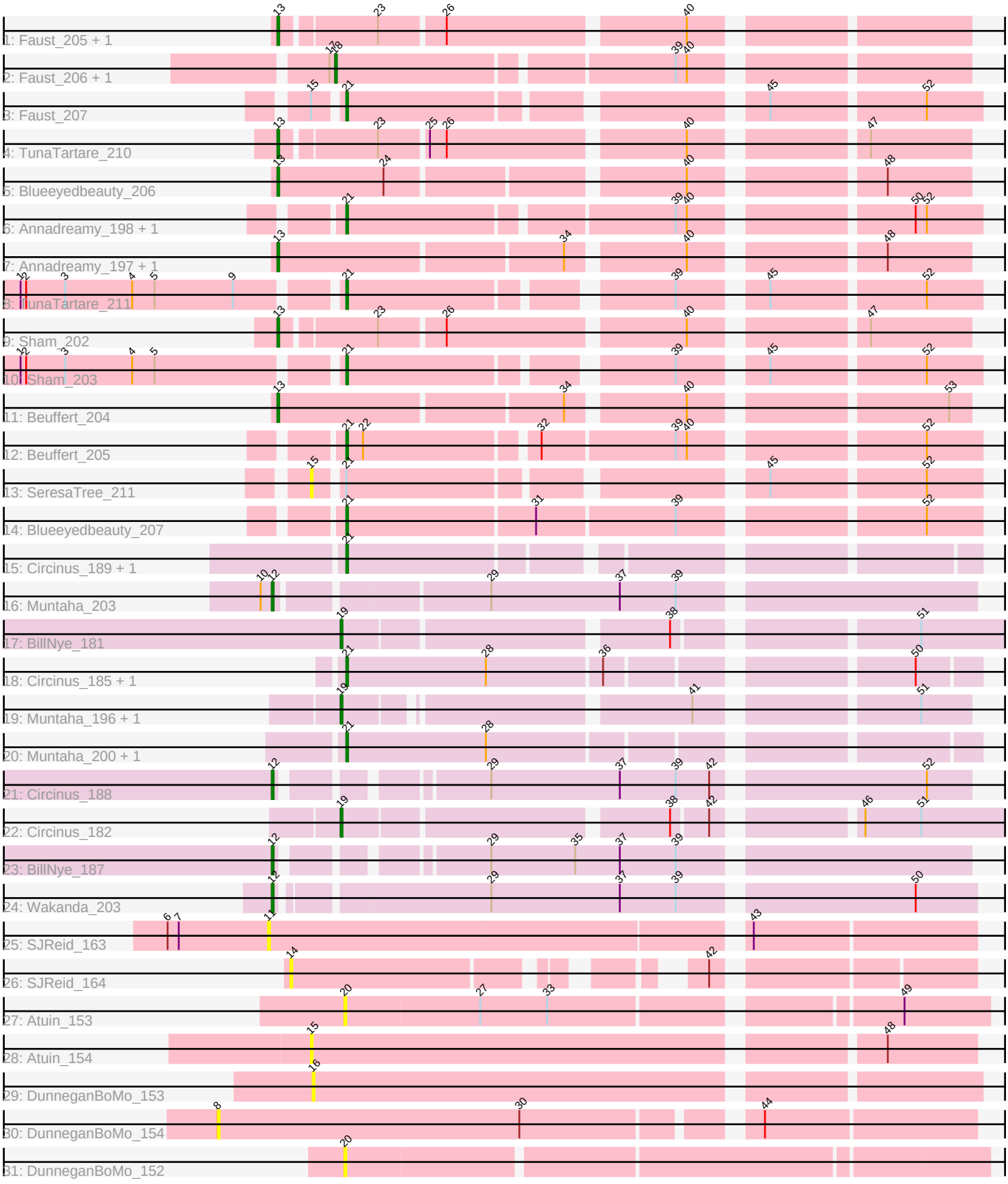
Pham 154847


1: Faust_205 + 1
2: Faust_206 + 1
3: Faust_207
4: TunaTartare_210
5: Blueeyedbeauty_206
6: Annadreamy_198 + 1
7: Annadreamy_197 + 1
8: TunaTartare_211
9: Sham_202
10: Sham_203
11: Beuffert_204
12: Beuffert_205
13: SeresaTree_211
14: Blueeyedbeauty_207
15: Circinus_189 + 1
16: Muntaha_203
17: BillNye_181
18: Circinus_185 + 1
19: Muntaha_196 + 1
20: Muntaha_200 + 1
21: Circinus_188
22: Circinus_182
23: BillNye_187
24: Wakanda_203
25: SJReid_163
26: SJReid_164
27: Atuin_153
28: Atuin_154
29: DunneganBoMo_153
30: DunneganBoMo_154
31: DunneganBoMo_152

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 154847 Report

This analysis was run 04/12/24 on database version 558.

Pham number 154847 has 39 members, 10 are drafts.

Phages represented in each track:
- Track 1 : Faust_205, SeresaTree_209
- Track 2 : Faust_206, SeresaTree_210
- Track 3 : Faust_207
- Track 4 : TunaTartare_210
- Track 5 : Blueeyedbeauty_206
- Track 6 : Annadreamy_198, Limpid_205
- Track 7 : Annadreamy_197, Limpid_204
- Track 8 : TunaTartare_211
- Track 9 : Sham_202
- Track 10 : Sham_203
- Track 11 : Beuffert_204
- Track 12 : Beuffert_205
- Track 13 : SeresaTree_211
- Track 14 : Blueeyedbeauty_207
- Track 15 : Circinus_189, BillNye_188
- Track 16 : Muntaha_203
- Track 17 : BillNye_181
- Track 18 : Circinus_185, BillNye_184
- Track 19 : Muntaha_196, Wakanda_196
- Track 20 : Muntaha_200, Wakanda_200
- Track 21 : Circinus_188
- Track 22 : Circinus_182
- Track 23 : BillNye_187
- Track 24 : Wakanda_203
- Track 25 : SJReid_163
- Track 26 : SJReid_164
- Track 27 : Atuin_153
- Track 28 : Atuin_154
- Track 29 : DunneganBoMo_153
- Track 30 : DunneganBoMo_154
- Track 31 : DunneganBoMo_152

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

The start number called the most often in the published annotations is 21, it was called in 13 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Annadreamy_198, Beuffert_205, BillNye_184, BillNye_188, Blueeyedbeauty_207, Circinus_185, Circinus_189, Faust_207, Limpid_205, Muntaha_200, Sham_203, TunaTartare_211, Wakanda_200,

Genes that have the "Most Annotated" start but do not call it:
• SeresaTree_211,

Genes that do not have the "Most Annotated" start:
• Annadreamy_197, Atuin_153, Atuin_154, Beuffert_204, BillNye_181, BillNye_187, Blueeyedbeauty_206, Circinus_182, Circinus_188, DunneganBoMo_152, DunneganBoMo_153, DunneganBoMo_154, Faust_205, Faust_206, Limpid_204, Muntaha_196, Muntaha_203, SJReid_163, SJReid_164, SeresaTree_209, SeresaTree_210, Sham_202, TunaTartare_210, Wakanda_196, Wakanda_203,

Summary by start number:

Start 8:
• Found in 1 of 39 (2.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DunneganBoMo_154 (FC),

Start 11:
• Found in 1 of 39 (2.6%) 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_163 (FC),

Start 12:
• Found in 4 of 39 (10.3%) of genes in pham
• Manual Annotations of this start: 4 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BillNye_187 (BK2), Circinus_188 (BK2), Muntaha_203 (BK2), Wakanda_203 (BK2),

Start 13:
• Found in 8 of 39 (20.5%) of genes in pham
• Manual Annotations of this start: 7 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Annadreamy_197 (BK1), Beuffert_204 (BK1), Blueeyedbeauty_206 (BK1), Faust_205 (BK1), Limpid_204 (BK1), SeresaTree_209 (BK1), Sham_202 (BK1), TunaTartare_210 (BK1),

Start 14:
• Found in 1 of 39 (2.6%) 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_164 (FC),

Start 15:
• Found in 3 of 39 (7.7%) of genes in pham
• No Manual Annotations of this start.
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Atuin_154 (FC), SeresaTree_211 (BK1),

Start 16:
• Found in 1 of 39 (2.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DunneganBoMo_153 (FC),

Start 18:
• Found in 2 of 39 (5.1%) of genes in pham
• Manual Annotations of this start: 1 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Faust_206 (BK1), SeresaTree_210 (BK1),

Start 19:
• Found in 4 of 39 (10.3%) of genes in pham
• Manual Annotations of this start: 4 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BillNye_181 (BK2), Circinus_182 (BK2), Muntaha_196 (BK2), Wakanda_196 (BK2),

Start 20:
• Found in 2 of 39 (5.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Atuin_153 (FC), DunneganBoMo_152 (FC),

Start 21:
• Found in 14 of 39 (35.9%) of genes in pham
• Manual Annotations of this start: 13 of 29
• Called 92.9% of time when present
• Phage (with cluster) where this start called: Annadreamy_198 (BK1), Beuffert_205 (BK1), BillNye_184 (BK2), BillNye_188 (BK2), Blueeyedbeauty_207 (BK1), Circinus_185 (BK2), Circinus_189 (BK2), Faust_207 (BK1), Limpid_205 (BK1), Muntaha_200 (BK2), Sham_203 (BK1), TunaTartare_211 (BK1), Wakanda_200 (BK2),

Summary by clusters:

There are 3 clusters represented in this pham: FC, BK1, BK2,

Info for manual annotations of cluster BK1:
•Start number 13 was manually annotated 7 times for cluster BK1.
•Start number 18 was manually annotated 1 time for cluster BK1.
•Start number 21 was manually annotated 7 times for cluster BK1.

Info for manual annotations of cluster BK2:

•Start number 12 was manually annotated 4 times for cluster BK2.
•Start number 19 was manually annotated 4 times for cluster BK2.
•Start number 21 was manually annotated 6 times for cluster BK2.

Gene Information:

Gene: Annadreamy_198 Start: 100559, Stop: 100870, Start Num: 21
Candidate Starts for Annadreamy_198:
(Start: 21 @100559 has 13 MA's), (39, 100724), (40, 100730), (50, 100835), (52, 100841),

Gene: Annadreamy_197 Start: 100178, Stop: 100516, Start Num: 13
Candidate Starts for Annadreamy_197:
(Start: 13 @100178 has 7 MA's), (34, 100325), (40, 100382), (48, 100472),

Gene: Atuin_153 Start: 104321, Stop: 104644, Start Num: 20
Candidate Starts for Atuin_153:
(20, 104321), (27, 104393), (33, 104429), (49, 104600),

Gene: Atuin_154 Start: 104650, Stop: 104988, Start Num: 15
Candidate Starts for Atuin_154:
(15, 104650), (48, 104941),

Gene: Beuffert_204 Start: 104170, Stop: 104508, Start Num: 13
Candidate Starts for Beuffert_204:
(Start: 13 @104170 has 7 MA's), (34, 104317), (40, 104374), (53, 104497),

Gene: Beuffert_205 Start: 104551, Stop: 104862, Start Num: 21
Candidate Starts for Beuffert_205:
(Start: 21 @104551 has 13 MA's), (22, 104560), (32, 104647), (39, 104716), (40, 104722), (52, 104833),

Gene: BillNye_181 Start: 99832, Stop: 100167, Start Num: 19
Candidate Starts for BillNye_181:
(Start: 19 @99832 has 4 MA's), (38, 99994), (51, 100108),

Gene: BillNye_184 Start: 100624, Stop: 100935, Start Num: 21
Candidate Starts for BillNye_184:
(Start: 21 @100624 has 13 MA's), (28, 100699), (36, 100759), (50, 100903),

Gene: BillNye_187 Start: 101461, Stop: 101799, Start Num: 12
Candidate Starts for BillNye_187:
(Start: 12 @101461 has 4 MA's), (29, 101554), (35, 101599), (37, 101623), (39, 101653),

Gene: BillNye_188 Start: 101849, Stop: 102151, Start Num: 21
Candidate Starts for BillNye_188:
(Start: 21 @101849 has 13 MA's),

Gene: Blueeyedbeauty_206 Start: 103898, Stop: 104236, Start Num: 13
Candidate Starts for Blueeyedbeauty_206:
(Start: 13 @103898 has 7 MA's), (24, 103955), (40, 104102), (48, 104192),

Gene: Blueeyedbeauty_207 Start: 104279, Stop: 104596, Start Num: 21
Candidate Starts for Blueeyedbeauty_207:
(Start: 21 @104279 has 13 MA's), (31, 104378), (39, 104450), (52, 104567),

Gene: Circinus_189 Start: 101656, Stop: 101958, Start Num: 21
Candidate Starts for Circinus_189:
(Start: 21 @101656 has 13 MA's),

Gene: Circinus_185 Start: 100431, Stop: 100742, Start Num: 21
Candidate Starts for Circinus_185:
(Start: 21 @100431 has 13 MA's), (28, 100506), (36, 100566), (50, 100710),

Gene: Circinus_188 Start: 101268, Stop: 101606, Start Num: 12
Candidate Starts for Circinus_188:
(Start: 12 @101268 has 4 MA's), (29, 101361), (37, 101430), (39, 101460), (42, 101478), (52, 101583),

Gene: Circinus_182 Start: 99644, Stop: 99973, Start Num: 19
Candidate Starts for Circinus_182:
(Start: 19 @99644 has 4 MA's), (38, 99806), (42, 99824), (46, 99890), (51, 99920),

Gene: DunneganBoMo_153 Start: 101601, Stop: 101942, Start Num: 16
Candidate Starts for DunneganBoMo_153:
(16, 101601),

Gene: DunneganBoMo_154 Start: 101944, Stop: 102327, Start Num: 8
Candidate Starts for DunneganBoMo_154:
(8, 101944), (30, 102106), (44, 102217),

Gene: DunneganBoMo_152 Start: 101261, Stop: 101590, Start Num: 20
Candidate Starts for DunneganBoMo_152:
(20, 101261),

Gene: Faust_205 Start: 105087, Stop: 105422, Start Num: 13
Candidate Starts for Faust_205:
(Start: 13 @105087 has 7 MA's), (23, 105135), (26, 105168), (40, 105288),

Gene: Faust_206 Start: 105463, Stop: 105774, Start Num: 18
Candidate Starts for Faust_206:
(17, 105460), (Start: 18 @105463 has 1 MA's), (39, 105634), (40, 105640),

Gene: Faust_207 Start: 105783, Stop: 106088, Start Num: 21
Candidate Starts for Faust_207:
(15, 105771), (Start: 21 @105783 has 13 MA's), (45, 105981), (52, 106059),

Gene: Limpid_205 Start: 105872, Stop: 106183, Start Num: 21
Candidate Starts for Limpid_205:
(Start: 21 @105872 has 13 MA's), (39, 106037), (40, 106043), (50, 106148), (52, 106154),

Gene: Limpid_204 Start: 105491, Stop: 105829, Start Num: 13
Candidate Starts for Limpid_204:
(Start: 13 @105491 has 7 MA's), (34, 105638), (40, 105695), (48, 105785),

Gene: Muntaha_203 Start: 101500, Stop: 101853, Start Num: 12
Candidate Starts for Muntaha_203:
(10, 101494), (Start: 12 @101500 has 4 MA's), (29, 101605), (37, 101674), (39, 101704),

Gene: Muntaha_196 Start: 99557, Stop: 99856, Start Num: 19
Candidate Starts for Muntaha_196:
(Start: 19 @99557 has 4 MA's), (41, 99725), (51, 99830),

Gene: Muntaha_200 Start: 100611, Stop: 100922, Start Num: 21
Candidate Starts for Muntaha_200:
(Start: 21 @100611 has 13 MA's), (28, 100686),

Gene: SJReid_163 Start: 96607, Stop: 96969, Start Num: 11
Candidate Starts for SJReid_163:
(6, 96553), (7, 96559), (11, 96607), (43, 96853),

Gene: SJReid_164 Start: 96973, Stop: 97275, Start Num: 14
Candidate Starts for SJReid_164:
(14, 96973), (42, 97150),

Gene: SeresaTree_210 Start: 105448, Stop: 105759, Start Num: 18
Candidate Starts for SeresaTree_210:
(17, 105445), (Start: 18 @105448 has 1 MA's), (39, 105619), (40, 105625),

Gene: SeresaTree_209 Start: 105072, Stop: 105407, Start Num: 13
Candidate Starts for SeresaTree_209:
(Start: 13 @105072 has 7 MA's), (23, 105120), (26, 105153), (40, 105273),

Gene: SeresaTree_211 Start: 105756, Stop: 106073, Start Num: 15
Candidate Starts for SeresaTree_211:
(15, 105756), (Start: 21 @105768 has 13 MA's), (45, 105966), (52, 106044),

Gene: Sham_202 Start: 106470, Stop: 106805, Start Num: 13
Candidate Starts for Sham_202:
(Start: 13 @106470 has 7 MA's), (23, 106518), (26, 106551), (40, 106671), (47, 106752),

Gene: Sham_203 Start: 106846, Stop: 107148, Start Num: 21
Candidate Starts for Sham_203:
(1, 106684), (2, 106687), (3, 106708), (4, 106744), (5, 106756), (Start: 21 @106846 has 13 MA's), (39, 107002), (45, 107041), (52, 107119),

Gene: TunaTartare_210 Start: 108768, Stop: 109103, Start Num: 13
Candidate Starts for TunaTartare_210:
(Start: 13 @108768 has 7 MA's), (23, 108816), (25, 108840), (26, 108849), (40, 108969), (47, 109050),

Gene: TunaTartare_211 Start: 109144, Stop: 109446, Start Num: 21
Candidate Starts for TunaTartare_211:
(1, 108982), (2, 108985), (3, 109006), (4, 109042), (5, 109054), (9, 109096), (Start: 21 @109144 has 13 MA's), (39, 109300), (45, 109339), (52, 109417),

Gene: Wakanda_203 Start: 101737, Stop: 102090, Start Num: 12

Candidate Starts for Wakanda_203:
(Start: 12 @101737 has 4 MA's), (29, 101842), (37, 101911), (39, 101941), (50, 102058),

Gene: Wakanda_196 Start: 99838, Stop: 100137, Start Num: 19
Candidate Starts for Wakanda_196:
(Start: 19 @99838 has 4 MA's), (41, 100006), (51, 100111),

Gene: Wakanda_200 Start: 100892, Stop: 101203, Start Num: 21
Candidate Starts for Wakanda_200:
(Start: 21 @100892 has 13 MA's), (28, 100967),