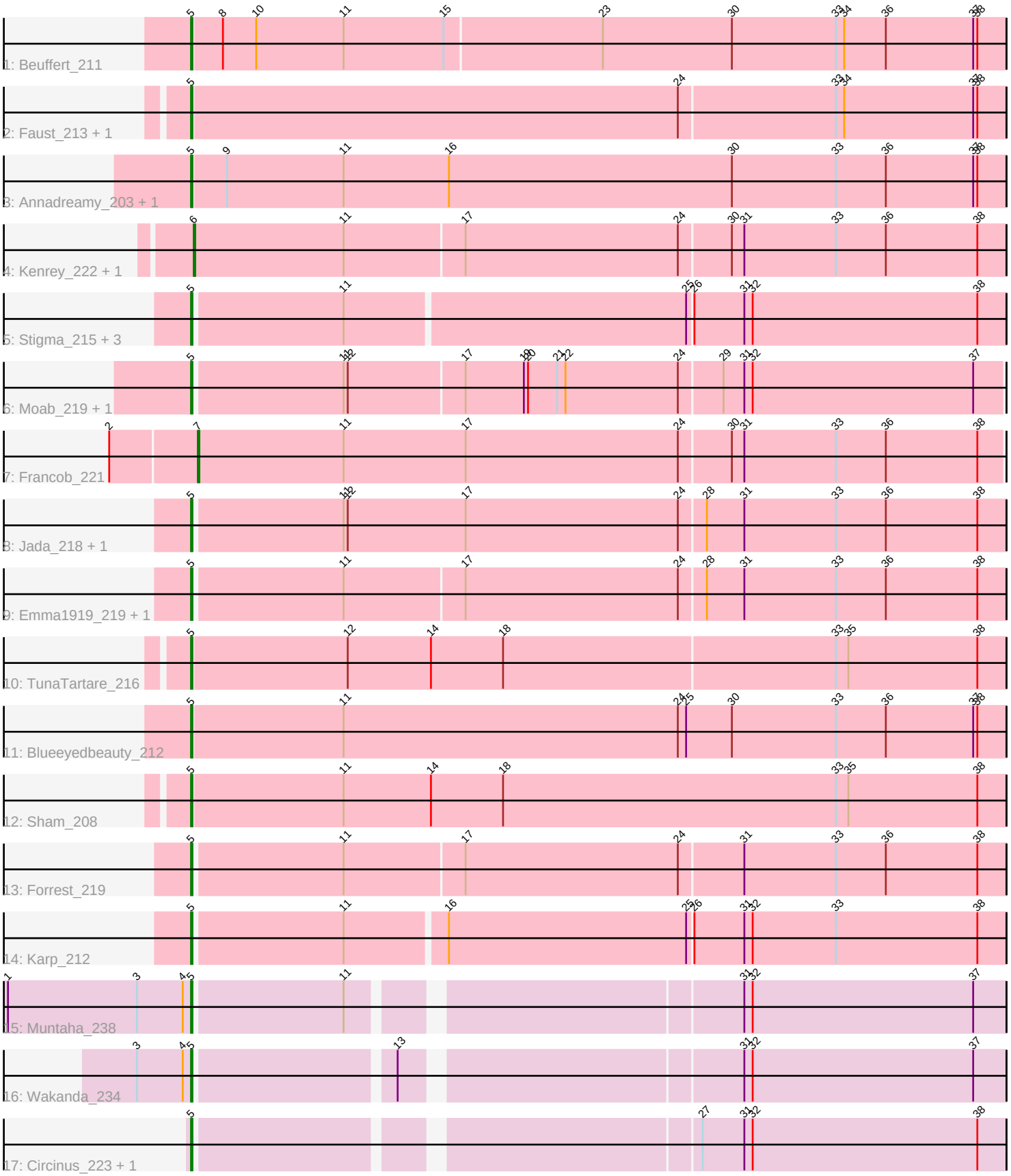
Pham 162103


1: Beuffert_211
2: Faust_213 + 1
3: Annadreamy_203 + 1
4: Kenrey_222 + 1
5: Stigma_215 + 3
6: Moab_219 + 1
7: Francob_221
8: Jada_218 + 1
9: Emma1919_219 + 1
10: TunaTartare_216
11: Blueeyedbeauty_212
12: Sham_208
13: Forrest_219
14: Karp_212
15: Muntaha_238
16: Wakanda_234
17: Circinus_223 + 1

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 162103 Report

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

Pham number 162103 has 27 members, 1 are drafts.

Phages represented in each track:
- Track 1 : Beuffert_211
- Track 2 : Faust_213, SeresaTree_217
- Track 3 : Annadreamy_203, Limpid_210
- Track 4 : Kenrey_222, Phredrick_221
- Track 5 : Stigma_215, Comrade_213, Belfort_216, SparkleGoddess_216
- Track 6 : Moab_219, Patelgo_220
- Track 7 : Francob_221
- Track 8 : Jada_218, Gilson_216
- Track 9 : Emma1919_219, MeganTheeKilla_221
- Track 10 : TunaTartare_216
- Track 11 : Blueeyedbeauty_212
- Track 12 : Sham_208
- Track 13 : Forrest_219
- Track 14 : Karp_212
- Track 15 : Muntaha_238
- Track 16 : Wakanda_234
- Track 17 : Circinus_223, BillNye_223

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 23 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Annadreamy_203, Belfort_216, Beuffert_211, BillNye_223, Blueeyedbeauty_212, Circinus_223, Comrade_213, Emma1919_219, Faust_213, Forrest_219, Gilson_216, Jada_218, Karp_212, Limpid_210, MeganTheeKilla_221, Moab_219, Muntaha_238, Patelgo_220, SeresaTree_217, Sham_208, SparkleGoddess_216, Stigma_215, TunaTartare_216, Wakanda_234,

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

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

• Francob_221, Kenrey_222, Phredrick_221,

Summary by start number:

Start 5:
• Found in 24 of 27 (88.9%) of genes in pham
• Manual Annotations of this start: 23 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Annadreamy_203 (BK1), Belfort_216 (BK1), Beuffert_211 (BK1), BillNye_223 (BK2), Blueeyedbeauty_212 (BK1), Circinus_223 (BK2), Comrade_213 (BK1), Emma1919_219 (BK1), Faust_213 (BK1), Forrest_219 (BK1), Gilson_216 (BK1), Jada_218 (BK1), Karp_212 (BK1), Limpid_210 (BK1), MeganTheeKilla_221 (BK1), Moab_219 (BK1), Muntaha_238 (BK2), Patelgo_220 (BK1), SeresaTree_217 (BK1), Sham_208 (BK1), SparkleGoddess_216 (BK1), Stigma_215 (BK1), TunaTartare_216 (BK1), Wakanda_234 (BK2),

Start 6:
• Found in 2 of 27 (7.4%) of genes in pham
• Manual Annotations of this start: 2 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kenrey_222 (BK1), Phredrick_221 (BK1),

Start 7:
• Found in 1 of 27 (3.7%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Francob_221 (BK1),

Summary by clusters:

There are 2 clusters represented in this pham: BK1, BK2,

Info for manual annotations of cluster BK1:
•Start number 5 was manually annotated 19 times for cluster BK1.
•Start number 6 was manually annotated 2 times for cluster BK1.
•Start number 7 was manually annotated 1 time for cluster BK1.

Info for manual annotations of cluster BK2:
•Start number 5 was manually annotated 4 times for cluster BK2.

Gene Information:

Gene: Annadreamy_203 Start: 102370, Stop: 102954, Start Num: 5
Candidate Starts for Annadreamy_203:
(Start: 5 @102370 has 23 MA's), (9, 102394), (11, 102478), (16, 102553), (30, 102757), (33, 102832), (36, 102868), (37, 102931), (38, 102934),

Gene: Belfort_216 Start: 107020, Stop: 107592, Start Num: 5
Candidate Starts for Belfort_216:

(Start: 5 @107020 has 23 MA's), (11, 107125), (25, 107365), (26, 107368), (31, 107404), (32, 107410), (38, 107572),

Gene: Beuffert_211 Start: 106544, Stop: 107125, Start Num: 5
Candidate Starts for Beuffert_211:
(Start: 5 @106544 has 23 MA's), (8, 106565), (10, 106589), (11, 106652), (15, 106724), (23, 106835), (30, 106928), (33, 107003), (34, 107009), (36, 107039), (37, 107102), (38, 107105),

Gene: BillNye_223 Start: 114572, Stop: 115123, Start Num: 5
Candidate Starts for BillNye_223:
(Start: 5 @114572 has 23 MA's), (27, 114905), (31, 114935), (32, 114941), (38, 115103),

Gene: Blueeyedbeauty_212 Start: 106098, Stop: 106682, Start Num: 5
Candidate Starts for Blueeyedbeauty_212:
(Start: 5 @106098 has 23 MA's), (11, 106206), (24, 106446), (25, 106452), (30, 106485), (33, 106560), (36, 106596), (37, 106659), (38, 106662),

Gene: Circinus_223 Start: 114162, Stop: 114713, Start Num: 5
Candidate Starts for Circinus_223:
(Start: 5 @114162 has 23 MA's), (27, 114495), (31, 114525), (32, 114531), (38, 114693),

Gene: Comrade_213 Start: 107220, Stop: 107792, Start Num: 5
Candidate Starts for Comrade_213:
(Start: 5 @107220 has 23 MA's), (11, 107325), (25, 107565), (26, 107568), (31, 107604), (32, 107610), (38, 107772),

Gene: Emma1919_219 Start: 105779, Stop: 106354, Start Num: 5
Candidate Starts for Emma1919_219:
(Start: 5 @105779 has 23 MA's), (11, 105884), (17, 105968), (24, 106121), (28, 106139), (31, 106166), (33, 106232), (36, 106268), (38, 106334),

Gene: Faust_213 Start: 107734, Stop: 108315, Start Num: 5
Candidate Starts for Faust_213:
(Start: 5 @107734 has 23 MA's), (24, 108082), (33, 108193), (34, 108199), (37, 108292), (38, 108295),

Gene: Forrest_219 Start: 106744, Stop: 107319, Start Num: 5
Candidate Starts for Forrest_219:
(Start: 5 @106744 has 23 MA's), (11, 106849), (17, 106933), (24, 107086), (31, 107131), (33, 107197), (36, 107233), (38, 107299),

Gene: Francob_221 Start: 106785, Stop: 107360, Start Num: 7
Candidate Starts for Francob_221:
(2, 106725), (Start: 7 @106785 has 1 MA's), (11, 106890), (17, 106977), (24, 107130), (30, 107166), (31, 107175), (33, 107241), (36, 107277), (38, 107343),

Gene: Gilson_216 Start: 105302, Stop: 105880, Start Num: 5
Candidate Starts for Gilson_216:
(Start: 5 @105302 has 23 MA's), (11, 105407), (12, 105410), (17, 105494), (24, 105647), (28, 105665), (31, 105692), (33, 105758), (36, 105794), (38, 105860),

Gene: Jada_218 Start: 105978, Stop: 106556, Start Num: 5
Candidate Starts for Jada_218:

(Start: 5 @105978 has 23 MA's), (11, 106083), (12, 106086), (17, 106170), (24, 106323), (28, 106341), (31, 106368), (33, 106434), (36, 106470), (38, 106536),

Gene: Karp_212 Start: 107387, Stop: 107959, Start Num: 5
Candidate Starts for Karp_212:
(Start: 5 @107387 has 23 MA's), (11, 107492), (16, 107561), (25, 107732), (26, 107735), (31, 107771), (32, 107777), (33, 107837), (38, 107939),

Gene: Kenrey_222 Start: 106523, Stop: 107101, Start Num: 6
Candidate Starts for Kenrey_222:
(Start: 6 @106523 has 2 MA's), (11, 106631), (17, 106715), (24, 106868), (30, 106904), (31, 106913), (33, 106979), (36, 107015), (38, 107081),

Gene: Limpid_210 Start: 107683, Stop: 108267, Start Num: 5
Candidate Starts for Limpid_210:
(Start: 5 @107683 has 23 MA's), (9, 107707), (11, 107791), (16, 107866), (30, 108070), (33, 108145), (36, 108181), (37, 108244), (38, 108247),

Gene: MeganTheeKilla_221 Start: 106176, Stop: 106751, Start Num: 5
Candidate Starts for MeganTheeKilla_221:
(Start: 5 @106176 has 23 MA's), (11, 106281), (17, 106365), (24, 106518), (28, 106536), (31, 106563), (33, 106629), (36, 106665), (38, 106731),

Gene: Moab_219 Start: 108643, Stop: 109215, Start Num: 5
Candidate Starts for Moab_219:
(Start: 5 @108643 has 23 MA's), (11, 108748), (12, 108751), (17, 108832), (19, 108874), (20, 108877), (21, 108898), (22, 108904), (24, 108985), (29, 109015), (31, 109030), (32, 109036), (37, 109195),

Gene: Muntaha_238 Start: 114741, Stop: 115292, Start Num: 5
Candidate Starts for Muntaha_238:
(1, 114609), (3, 114702), (4, 114735), (Start: 5 @114741 has 23 MA's), (11, 114846), (31, 115104), (32, 115110), (37, 115269),

Gene: Patelgo_220 Start: 109073, Stop: 109645, Start Num: 5
Candidate Starts for Patelgo_220:
(Start: 5 @109073 has 23 MA's), (11, 109178), (12, 109181), (17, 109262), (19, 109304), (20, 109307), (21, 109328), (22, 109334), (24, 109415), (29, 109445), (31, 109460), (32, 109466), (37, 109625),

Gene: Phredrick_221 Start: 105576, Stop: 106154, Start Num: 6
Candidate Starts for Phredrick_221:
(Start: 6 @105576 has 2 MA's), (11, 105684), (17, 105768), (24, 105921), (30, 105957), (31, 105966), (33, 106032), (36, 106068), (38, 106134),

Gene: SeresaTree_217 Start: 107720, Stop: 108301, Start Num: 5
Candidate Starts for SeresaTree_217:
(Start: 5 @107720 has 23 MA's), (24, 108068), (33, 108179), (34, 108185), (37, 108278), (38, 108281),

Gene: Sham_208 Start: 108598, Stop: 109182, Start Num: 5
Candidate Starts for Sham_208:

(Start: 5 @108598 has 23 MA's), (11, 108706), (14, 108769), (18, 108820), (33, 109060), (35, 109069), (38, 109162),

Gene: SparkleGoddess_216 Start: 107448, Stop: 108020, Start Num: 5
Candidate Starts for SparkleGoddess_216:
(Start: 5 @107448 has 23 MA's), (11, 107553), (25, 107793), (26, 107796), (31, 107832), (32, 107838), (38, 108000),

Gene: Stigma_215 Start: 107654, Stop: 108226, Start Num: 5
Candidate Starts for Stigma_215:
(Start: 5 @107654 has 23 MA's), (11, 107759), (25, 107999), (26, 108002), (31, 108038), (32, 108044), (38, 108206),

Gene: TunaTartare_216 Start: 110896, Stop: 111477, Start Num: 5
Candidate Starts for TunaTartare_216:
(Start: 5 @110896 has 23 MA's), (12, 111007), (14, 111067), (18, 111118), (33, 111355), (35, 111364), (38, 111457),

Gene: Wakanda_234 Start: 113728, Stop: 114279, Start Num: 5
Candidate Starts for Wakanda_234:
(3, 113689), (4, 113722), (Start: 5 @113728 has 23 MA's), (13, 113863), (31, 114091), (32, 114097), (37, 114256),