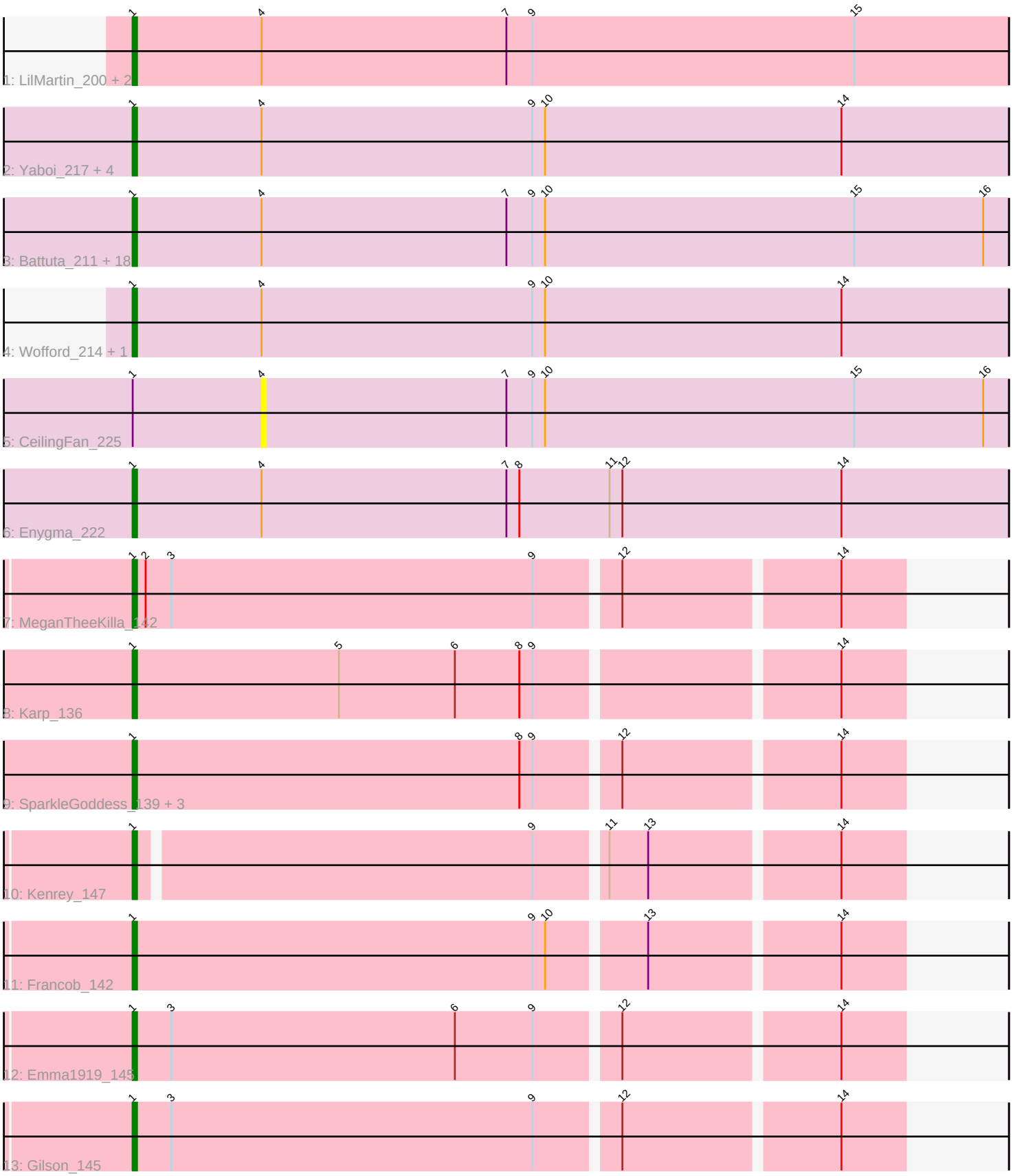
Pham 2635


1: LilMartin_200 + 2
2: Yaboi_217 + 4
3: Battuta_211 + 18
4: Wofford_214 + 1
5: CeilingFan_225
6: Enygma_222
7: MeganTheeKilla_142
8: Karp_136
9: SparkleGoddess_139 + 3
10: Kenrey_147
11: Francob_142
12: Emma1919_145
13: Gilson_145

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 2635 Report

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

Pham number 2635 has 41 members, 5 are drafts.

Phages represented in each track:
• Track 1 : LilMartin_200, Angela_203, MulchMansion_204
• Track 2 : Yaboi_217, Sollertia_213, Genie2_211, BoomerJR_211, Stanimal_212
• Track 3 : Battuta_211, Wipeout_204, Spelly_218, JimJam_220, Gibbi_221, Amabiko_217, Spilled_220, Jollison_217, KentuckyRacer_224, SaltySpitoon_213, MindFlayer_206, Bordeaux_211, PumpkinSpice_216, TomSawyer_217, Starbow_210, Karimac_214, Birchlyn_212, Quaran19_213, IchabodCrane_208
• Track 4 : Wofford_214, Elmer_230
• Track 5 : CeilingFan_225
• Track 6 : Enygma_222
• Track 7 : MeganTheeKilla_142
• Track 8 : Karp_136
• Track 9 : SparkleGoddess_139, Belfort_140, Comrade_136, Stigma_137
• Track 10 : Kenrey_147
• Track 11 : Francob_142
• Track 12 : Emma1919_145
• Track 13 : Gilson_145

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 36 of the 36 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amabiko_217, Angela_203, Battuta_211, Belfort_140, Birchlyn_212, BoomerJR_211, Bordeaux_211, Comrade_136, Elmer_230, Emma1919_145, Enygma_222, Francob_142, Genie2_211, Gibbi_221, Gilson_145, IchabodCrane_208, JimJam_220, Jollison_217, Karimac_214, Karp_136, Kenrey_147, KentuckyRacer_224, LilMartin_200, MeganTheeKilla_142, MindFlayer_206, MulchMansion_204, PumpkinSpice_216, Quaran19_213, SaltySpitoon_213, Sollertia_213, SparkleGoddess_139, Spelly_218, Spilled_220, Stanimal_212, Starbow_210, Stigma_137, TomSawyer_217, Wipeout_204, Wofford_214, Yaboi_217,

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

• CeilingFan_225,

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

Summary by start number:

Start 1:
• Found in 41 of 41 (100.0%) of genes in pham
• Manual Annotations of this start: 36 of 36
• Called 97.6% of time when present
• Phage (with cluster) where this start called: Amabiko_217 (BE2), Angela_203 (BE1), Battuta_211 (BE2), Belfort_140 (BK1), Birchlyn_212 (BE2), BoomerJR_211 (BE2), Bordeaux_211 (BE2), Comrade_136 (BK1), Elmer_230 (BE2), Emma1919_145 (BK1), Enygma_222 (BE2), Francob_142 (BK1), Genie2_211 (BE2), Gibbi_221 (BE2), Gilson_145 (BK1), IchabodCrane_208 (BE2), JimJam_220 (BE2), Jollison_217 (BE2), Karimac_214 (BE2), Karp_136 (BK1), Kenrey_147 (BK1), KentuckyRacer_224 (BE2), LilMartin_200 (BE1), MeganTheeKilla_142 (BK1), MindFlayer_206 (BE2), MulchMansion_204 (BE1), PumpkinSpice_216 (BE2), Quaran19_213 (BE2), SaltySpitoon_213 (BE2), Sollertia_213 (BE2), SparkleGoddess_139 (BK1), Spelly_218 (BE2), Spilled_220 (BE2), Stanimal_212 (BE2), Starbow_210 (BE2), Stigma_137 (BK1), TomSawyer_217 (BE2), Wipeout_204 (BE2), Wofford_214 (BE2), Yaboi_217 (BE2),

Start 4:
• Found in 31 of 41 (75.6%) of genes in pham
• No Manual Annotations of this start.
• Called 3.2% of time when present
• Phage (with cluster) where this start called: CeilingFan_225 (BE2),

Summary by clusters:

There are 3 clusters represented in this pham: BE2, BE1, BK1,

Info for manual annotations of cluster BE1:
•Start number 1 was manually annotated 3 times for cluster BE1.

Info for manual annotations of cluster BE2:
•Start number 1 was manually annotated 23 times for cluster BE2.

Info for manual annotations of cluster BK1:
•Start number 1 was manually annotated 10 times for cluster BK1.

Gene Information:

Gene: Amabiko_217 Start: 105005, Stop: 105208, Start Num: 1
Candidate Starts for Amabiko_217:
(Start: 1 @105005 has 36 MA's), (4, 105035), (7, 105092), (9, 105098), (10, 105101), (15, 105173), (16, 105203),

Gene: Angela_203 Start: 104030, Stop: 104233, Start Num: 1

Candidate Starts for Angela_203:
(Start: 1 @104030 has 36 MA's), (4, 104060), (7, 104117), (9, 104123), (15, 104198),

Gene: Battuta_211 Start: 104321, Stop: 104524, Start Num: 1
Candidate Starts for Battuta_211:
(Start: 1 @104321 has 36 MA's), (4, 104351), (7, 104408), (9, 104414), (10, 104417), (15, 104489), (16, 104519),

Gene: Belfort_140 Start: 81410, Stop: 81583, Start Num: 1
Candidate Starts for Belfort_140:
(Start: 1 @81410 has 36 MA's), (8, 81500), (9, 81503), (12, 81521), (14, 81569),

Gene: Birchlyn_212 Start: 102253, Stop: 102456, Start Num: 1
Candidate Starts for Birchlyn_212:
(Start: 1 @102253 has 36 MA's), (4, 102283), (7, 102340), (9, 102346), (10, 102349), (15, 102421), (16, 102451),

Gene: BoomerJR_211 Start: 105422, Stop: 105625, Start Num: 1
Candidate Starts for BoomerJR_211:
(Start: 1 @105422 has 36 MA's), (4, 105452), (9, 105515), (10, 105518), (14, 105587),

Gene: Bordeaux_211 Start: 104904, Stop: 105107, Start Num: 1
Candidate Starts for Bordeaux_211:
(Start: 1 @104904 has 36 MA's), (4, 104934), (7, 104991), (9, 104997), (10, 105000), (15, 105072), (16, 105102),

Gene: CeilingFan_225 Start: 105728, Stop: 105901, Start Num: 4
Candidate Starts for CeilingFan_225:
(Start: 1 @105698 has 36 MA's), (4, 105728), (7, 105785), (9, 105791), (10, 105794), (15, 105866), (16, 105896),

Gene: Comrade_136 Start: 80729, Stop: 80902, Start Num: 1
Candidate Starts for Comrade_136:
(Start: 1 @80729 has 36 MA's), (8, 80819), (9, 80822), (12, 80840), (14, 80888),

Gene: Elmer_230 Start: 108681, Stop: 108884, Start Num: 1
Candidate Starts for Elmer_230:
(Start: 1 @108681 has 36 MA's), (4, 108711), (9, 108774), (10, 108777), (14, 108846),

Gene: Emma1919_145 Start: 81269, Stop: 81442, Start Num: 1
Candidate Starts for Emma1919_145:
(Start: 1 @81269 has 36 MA's), (3, 81278), (6, 81344), (9, 81362), (12, 81380), (14, 81428),

Gene: Enygma_222 Start: 108437, Stop: 108640, Start Num: 1
Candidate Starts for Enygma_222:
(Start: 1 @108437 has 36 MA's), (4, 108467), (7, 108524), (8, 108527), (11, 108548), (12, 108551), (14, 108602),

Gene: Francob_142 Start: 81189, Stop: 81362, Start Num: 1
Candidate Starts for Francob_142:
(Start: 1 @81189 has 36 MA's), (9, 81282), (10, 81285), (13, 81306), (14, 81348),

Gene: Genie2_211 Start: 105547, Stop: 105750, Start Num: 1

Candidate Starts for Genie2_211:
(Start: 1 @105547 has 36 MA's), (4, 105577), (9, 105640), (10, 105643), (14, 105712),

Gene: Gibbi_221 Start: 105191, Stop: 105394, Start Num: 1
Candidate Starts for Gibbi_221:
(Start: 1 @105191 has 36 MA's), (4, 105221), (7, 105278), (9, 105284), (10, 105287), (15, 105359), (16, 105389),

Gene: Gilson_145 Start: 81231, Stop: 81404, Start Num: 1
Candidate Starts for Gilson_145:
(Start: 1 @81231 has 36 MA's), (3, 81240), (9, 81324), (12, 81342), (14, 81390),

Gene: IchabodCrane_208 Start: 104706, Stop: 104909, Start Num: 1
Candidate Starts for IchabodCrane_208:
(Start: 1 @104706 has 36 MA's), (4, 104736), (7, 104793), (9, 104799), (10, 104802), (15, 104874), (16, 104904),

Gene: JimJam_220 Start: 106627, Stop: 106830, Start Num: 1
Candidate Starts for JimJam_220:
(Start: 1 @106627 has 36 MA's), (4, 106657), (7, 106714), (9, 106720), (10, 106723), (15, 106795), (16, 106825),

Gene: Jollison_217 Start: 104837, Stop: 105040, Start Num: 1
Candidate Starts for Jollison_217:
(Start: 1 @104837 has 36 MA's), (4, 104867), (7, 104924), (9, 104930), (10, 104933), (15, 105005), (16, 105035),

Gene: Karimac_214 Start: 105022, Stop: 105225, Start Num: 1
Candidate Starts for Karimac_214:
(Start: 1 @105022 has 36 MA's), (4, 105052), (7, 105109), (9, 105115), (10, 105118), (15, 105190), (16, 105220),

Gene: Karp_136 Start: 80837, Stop: 81010, Start Num: 1
Candidate Starts for Karp_136:
(Start: 1 @80837 has 36 MA's), (5, 80885), (6, 80912), (8, 80927), (9, 80930), (14, 80996),

Gene: Kenrey_147 Start: 82395, Stop: 82565, Start Num: 1
Candidate Starts for Kenrey_147:
(Start: 1 @82395 has 36 MA's), (9, 82485), (11, 82500), (13, 82509), (14, 82551),

Gene: KentuckyRacer_224 Start: 106542, Stop: 106745, Start Num: 1
Candidate Starts for KentuckyRacer_224:
(Start: 1 @106542 has 36 MA's), (4, 106572), (7, 106629), (9, 106635), (10, 106638), (15, 106710), (16, 106740),

Gene: LilMartin_200 Start: 103394, Stop: 103597, Start Num: 1
Candidate Starts for LilMartin_200:
(Start: 1 @103394 has 36 MA's), (4, 103424), (7, 103481), (9, 103487), (15, 103562),

Gene: MeganTheeKilla_142 Start: 80947, Stop: 81120, Start Num: 1
Candidate Starts for MeganTheeKilla_142:
(Start: 1 @80947 has 36 MA's), (2, 80950), (3, 80956), (9, 81040), (12, 81058), (14, 81106),

Gene: MindFlayer_206 Start: 104222, Stop: 104425, Start Num: 1
Candidate Starts for MindFlayer_206:
(Start: 1 @104222 has 36 MA's), (4, 104252), (7, 104309), (9, 104315), (10, 104318), (15, 104390), (16, 104420),

Gene: MulchMansion_204 Start: 105028, Stop: 105231, Start Num: 1
Candidate Starts for MulchMansion_204:
(Start: 1 @105028 has 36 MA's), (4, 105058), (7, 105115), (9, 105121), (15, 105196),

Gene: PumpkinSpice_216 Start: 105443, Stop: 105646, Start Num: 1
Candidate Starts for PumpkinSpice_216:
(Start: 1 @105443 has 36 MA's), (4, 105473), (7, 105530), (9, 105536), (10, 105539), (15, 105611), (16, 105641),

Gene: Quaran19_213 Start: 104884, Stop: 105087, Start Num: 1
Candidate Starts for Quaran19_213:
(Start: 1 @104884 has 36 MA's), (4, 104914), (7, 104971), (9, 104977), (10, 104980), (15, 105052), (16, 105082),

Gene: SaltySpitoon_213 Start: 104426, Stop: 104629, Start Num: 1
Candidate Starts for SaltySpitoon_213:
(Start: 1 @104426 has 36 MA's), (4, 104456), (7, 104513), (9, 104519), (10, 104522), (15, 104594), (16, 104624),

Gene: Sollertia_213 Start: 105536, Stop: 105739, Start Num: 1
Candidate Starts for Sollertia_213:
(Start: 1 @105536 has 36 MA's), (4, 105566), (9, 105629), (10, 105632), (14, 105701),

Gene: SparkleGoddess_139 Start: 81029, Stop: 81202, Start Num: 1
Candidate Starts for SparkleGoddess_139:
(Start: 1 @81029 has 36 MA's), (8, 81119), (9, 81122), (12, 81140), (14, 81188),

Gene: Spelly_218 Start: 104355, Stop: 104558, Start Num: 1
Candidate Starts for Spelly_218:
(Start: 1 @104355 has 36 MA's), (4, 104385), (7, 104442), (9, 104448), (10, 104451), (15, 104523), (16, 104553),

Gene: Spilled_220 Start: 105559, Stop: 105762, Start Num: 1
Candidate Starts for Spilled_220:
(Start: 1 @105559 has 36 MA's), (4, 105589), (7, 105646), (9, 105652), (10, 105655), (15, 105727), (16, 105757),

Gene: Stanimal_212 Start: 105908, Stop: 106111, Start Num: 1
Candidate Starts for Stanimal_212:
(Start: 1 @105908 has 36 MA's), (4, 105938), (9, 106001), (10, 106004), (14, 106073),

Gene: Starbow_210 Start: 104399, Stop: 104602, Start Num: 1
Candidate Starts for Starbow_210:
(Start: 1 @104399 has 36 MA's), (4, 104429), (7, 104486), (9, 104492), (10, 104495), (15, 104567), (16, 104597),

Gene: Stigma_137 Start: 81174, Stop: 81347, Start Num: 1
Candidate Starts for Stigma_137:

(Start: 1 @81174 has 36 MA's), (8, 81264), (9, 81267), (12, 81285), (14, 81333),

Gene: TomSawyer_217 Start: 106870, Stop: 107073, Start Num: 1
Candidate Starts for TomSawyer_217:
(Start: 1 @106870 has 36 MA's), (4, 106900), (7, 106957), (9, 106963), (10, 106966), (15, 107038), (16, 107068),

Gene: Wipeout_204 Start: 105822, Stop: 106025, Start Num: 1
Candidate Starts for Wipeout_204:
(Start: 1 @105822 has 36 MA's), (4, 105852), (7, 105909), (9, 105915), (10, 105918), (15, 105990), (16, 106020),

Gene: Wofford_214 Start: 108549, Stop: 108752, Start Num: 1
Candidate Starts for Wofford_214:
(Start: 1 @108549 has 36 MA's), (4, 108579), (9, 108642), (10, 108645), (14, 108714),

Gene: Yaboi_217 Start: 105471, Stop: 105674, Start Num: 1
Candidate Starts for Yaboi_217:
(Start: 1 @105471 has 36 MA's), (4, 105501), (9, 105564), (10, 105567), (14, 105636),