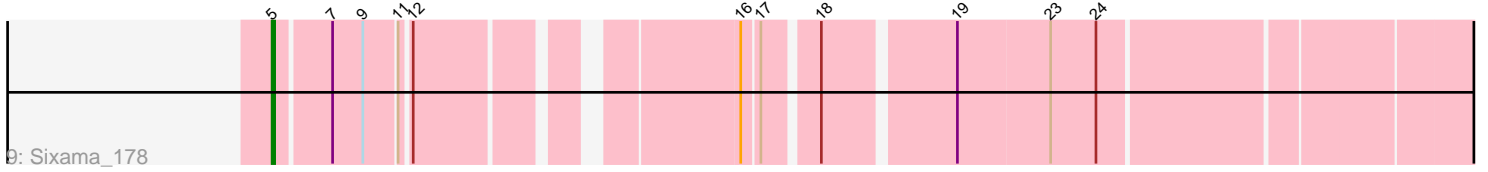
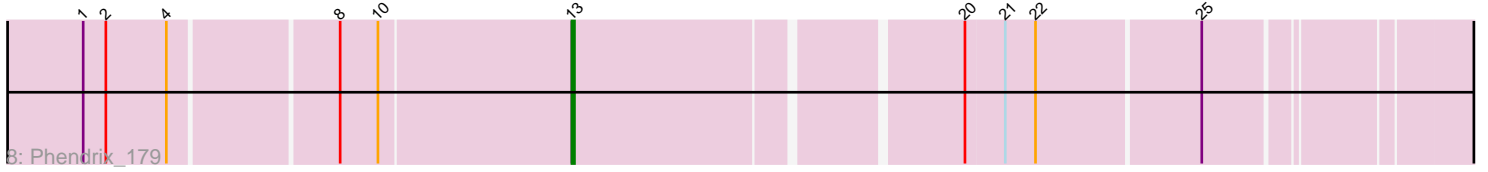
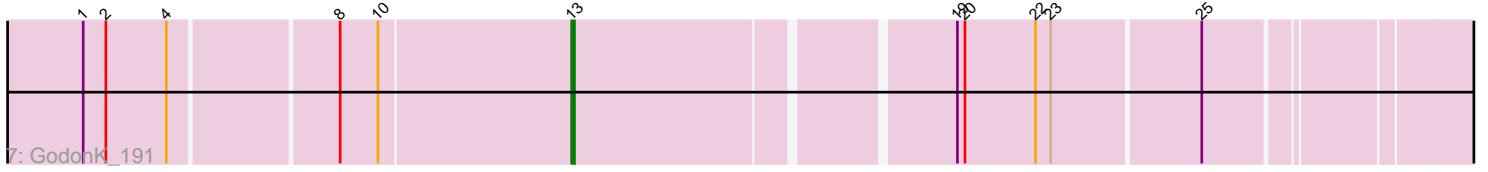
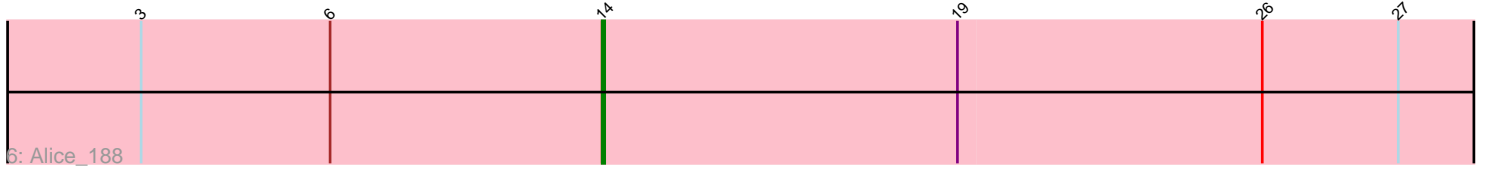
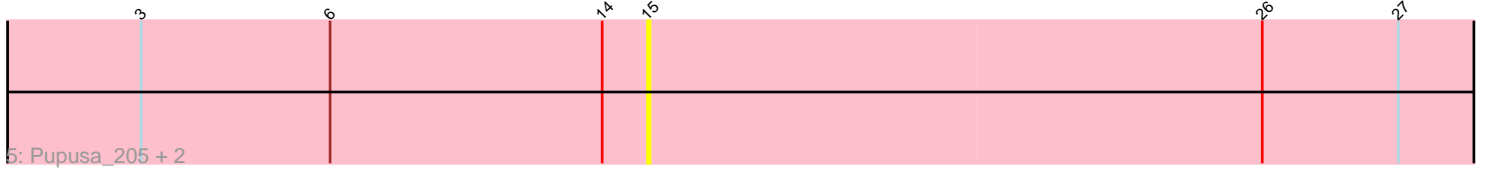
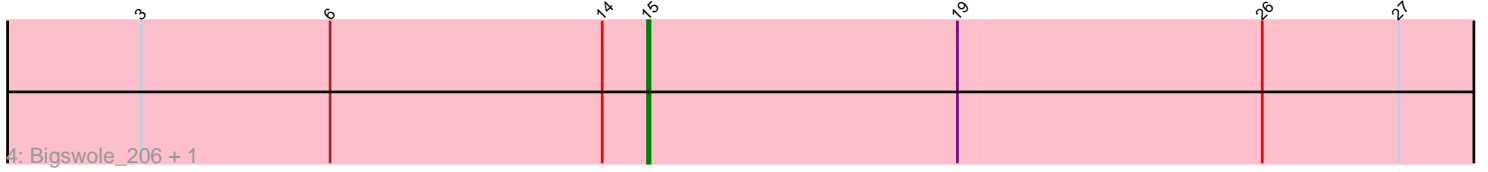
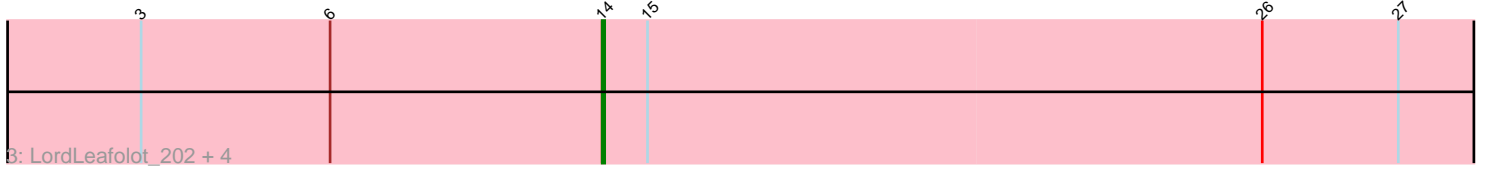
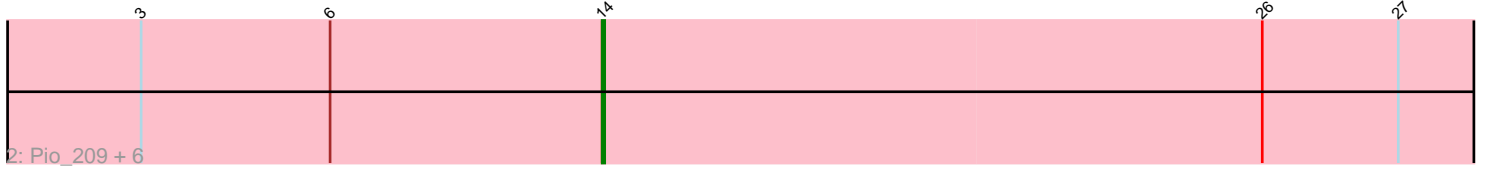
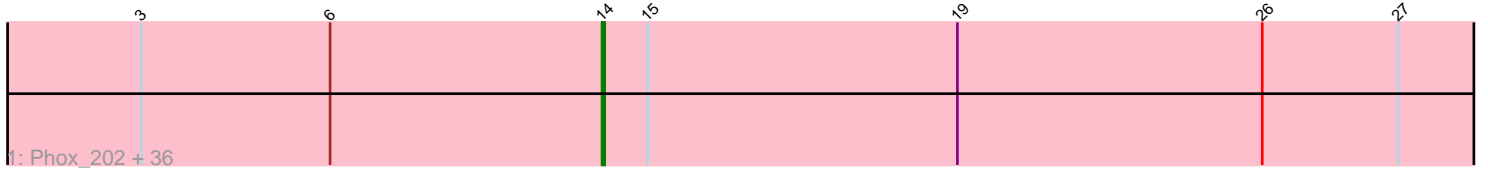


Pham 311636



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 311636 Report

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

Pham number 311636 has 58 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Phox_202, Ading_202, BadAgartude_195, InigoMontoya_204, Yassified_198, Sprinklers_199, StubbySaigey_206, Phlegm_205, Gamgam_202, LRRHood_194, Nappy_202, Amataga_202, Mangeria_202, ET08_189, BeanWater_193, Atlantean_201, NuevoMundo_204, IkeLoa_193, GlutenPhree_202, RoMag_196, Lukilu_192, Jemmno_200, CharlieB_195, Shrimp_203, SilverDipper_205, ValleyTerrace_202, JulietS_192, Pier_202, Momo_202, Latch_201, Koguma_200, Naija_202, Ronan_197, HyRo_189, Delylah_203, Babyland_204, Chomp_201
- Track 2 : Pio_209, Burrough_203, Mikro_197, Gabriel_204, Kamryn_200, Caravan_192, MoMoMixon_199
- Track 3 : LordLeafolot_202, PharkleMinkus_203, Labradorite_199, FrayBell_204, Duckfeet_195
- Track 4 : Bigswole_206, Ngannou_198
- Track 5 : Pupusa_205, Tainan_202, Bowman_199
- Track 6 : Alice_188
- Track 7 : GodonK_191
- Track 8 : Phendrix_179
- Track 9 : Sixama_178

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

The start number called the most often in the published annotations is 14, it was called in 47 of the 52 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ading_202, Alice_188, Amataga_202, Atlantean_201, Babyland_204, BadAgartude_195, BeanWater_193, Burrough_203, Caravan_192, CharlieB_195, Chomp_201, Delylah_203, Duckfeet_195, ET08_189, FrayBell_204, Gabriel_204, Gamgam_202, GlutenPhree_202, HyRo_189, IkeLoa_193, InigoMontoya_204, Jemmno_200, JulietS_192, Kamryn_200, Koguma_200, LRRHood_194, Labradorite_199, Latch_201, LordLeafolot_202, Lukilu_192, Mangeria_202, Mikro_197, MoMoMixon_199, Momo_202, Naija_202, Nappy_202, NuevoMundo_204, PharkleMinkus_203, Phlegm_205, Phox_202, Pier_202, Pio_209, RoMag_196, Ronan_197, Shrimp_203, SilverDipper_205, Sprinklers_199,

StubbySaigey_206, ValleyTerrace_202, Yassified_198,

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

- Bigswole_206, Bowman_199, Ngannou_198, Pupusa_205, Tainan_202,

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

- GodonK_191, Phendrix_179, Sixama_178,

Summary by start number:

Start 5:

- Found in 1 of 58 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 52
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sixama_178 (DS),

Start 13:

- Found in 2 of 58 (3.4%) of genes in pham
- Manual Annotations of this start: 2 of 52
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GodonK_191 (DK), Phendrix_179 (DK),

Start 14:

- Found in 55 of 58 (94.8%) of genes in pham
- Manual Annotations of this start: 47 of 52
- Called 90.9% of time when present
- Phage (with cluster) where this start called: Ading_202 (C1), Alice_188 (C1), Amataga_202 (C1), Atlantean_201 (C1), Babyland_204 (C1), BadAgartude_195 (C1), BeanWater_193 (C1), Burrough_203 (C1), Caravan_192 (C1), CharlieB_195 (C1), Chomp_201 (C1), Delylah_203 (C1), Duckfeet_195 (C1), ET08_189 (C1), FrayBell_204 (C1), Gabriel_204 (C1), Gangam_202 (C1), GlutenPhree_202 (C1), HyRo_189 (C1), IkeLoa_193 (C1), InigoMontoya_204 (C1), Jemmno_200 (C1), JulietS_192 (C1), Kamryn_200 (C1), Koguma_200 (C1), LRRHood_194 (C1), Labradorite_199 (C1), Latch_201 (C1), LordLeafolot_202 (C1), Lukilu_192 (C1), Mangeria_202 (C1), Mikro_197 (C1), MoMoMixon_199 (C1), Momo_202 (C1), Naija_202 (C1), Nappy_202 (C1), NuevoMundo_204 (C1), PharkleMinkus_203 (C1), Phlegm_205 (C1), Phox_202 (C1), Pier_202 (C1), Pio_209 (C1), RoMag_196 (C1), Ronan_197 (C1), Shrimp_203 (C1), SilverDipper_205 (C1), Sprinklers_199 (C1), StubbySaigey_206 (C1), ValleyTerrace_202 (C1), Yassified_198 (C1),

Start 15:

- Found in 47 of 58 (81.0%) of genes in pham
- Manual Annotations of this start: 2 of 52
- Called 10.6% of time when present
- Phage (with cluster) where this start called: Bigswole_206 (C1), Bowman_199 (C1), Ngannou_198 (C1), Pupusa_205 (C1), Tainan_202 (C1),

Summary by clusters:

There are 3 clusters represented in this pham: C1, DS, DK,

Info for manual annotations of cluster C1:

- Start number 14 was manually annotated 47 times for cluster C1.

- Start number 15 was manually annotated 2 times for cluster C1.

Info for manual annotations of cluster DK:

- Start number 13 was manually annotated 2 times for cluster DK.

Info for manual annotations of cluster DS:

- Start number 5 was manually annotated 1 time for cluster DS.

Gene Information:

Gene: Ading_202 Start: 108038, Stop: 108412, Start Num: 14

Candidate Starts for Ading_202:

(3, 107855), (6, 107930), (Start: 14 @108038 has 47 MA's), (Start: 15 @108056 has 2 MA's), (19, 108179), (26, 108299), (27, 108353),

Gene: Alice_188 Start: 106610, Stop: 106984, Start Num: 14

Candidate Starts for Alice_188:

(3, 106427), (6, 106502), (Start: 14 @106610 has 47 MA's), (19, 106751), (26, 106871), (27, 106925),

Gene: Amataga_202 Start: 106454, Stop: 106828, Start Num: 14

Candidate Starts for Amataga_202:

(3, 106271), (6, 106346), (Start: 14 @106454 has 47 MA's), (Start: 15 @106472 has 2 MA's), (19, 106595), (26, 106715), (27, 106769),

Gene: Atlantean_201 Start: 106454, Stop: 106828, Start Num: 14

Candidate Starts for Atlantean_201:

(3, 106271), (6, 106346), (Start: 14 @106454 has 47 MA's), (Start: 15 @106472 has 2 MA's), (19, 106595), (26, 106715), (27, 106769),

Gene: Babyland_204 Start: 107231, Stop: 107605, Start Num: 14

Candidate Starts for Babyland_204:

(3, 107048), (6, 107123), (Start: 14 @107231 has 47 MA's), (Start: 15 @107249 has 2 MA's), (19, 107372), (26, 107492), (27, 107546),

Gene: BadAgartude_195 Start: 106553, Stop: 106927, Start Num: 14

Candidate Starts for BadAgartude_195:

(3, 106370), (6, 106445), (Start: 14 @106553 has 47 MA's), (Start: 15 @106571 has 2 MA's), (19, 106694), (26, 106814), (27, 106868),

Gene: BeanWater_193 Start: 106492, Stop: 106866, Start Num: 14

Candidate Starts for BeanWater_193:

(3, 106309), (6, 106384), (Start: 14 @106492 has 47 MA's), (Start: 15 @106510 has 2 MA's), (19, 106633), (26, 106753), (27, 106807),

Gene: Bigswole_206 Start: 109932, Stop: 110288, Start Num: 15

Candidate Starts for Bigswole_206:

(3, 109731), (6, 109806), (Start: 14 @109914 has 47 MA's), (Start: 15 @109932 has 2 MA's), (19, 110055), (26, 110175), (27, 110229),

Gene: Bowman_199 Start: 107682, Stop: 108038, Start Num: 15

Candidate Starts for Bowman_199:

(3, 107481), (6, 107556), (Start: 14 @107664 has 47 MA's), (Start: 15 @107682 has 2 MA's), (26, 107925), (27, 107979),

Gene: Burrough_203 Start: 108327, Stop: 108701, Start Num: 14

Candidate Starts for Burrough_203:

(3, 108144), (6, 108219), (Start: 14 @108327 has 47 MA's), (26, 108588), (27, 108642),

Gene: Caravan_192 Start: 107274, Stop: 107648, Start Num: 14

Candidate Starts for Caravan_192:

(3, 107091), (6, 107166), (Start: 14 @107274 has 47 MA's), (26, 107535), (27, 107589),

Gene: CharlieB_195 Start: 106694, Stop: 107068, Start Num: 14

Candidate Starts for CharlieB_195:

(3, 106511), (6, 106586), (Start: 14 @106694 has 47 MA's), (Start: 15 @106712 has 2 MA's), (19, 106835), (26, 106955), (27, 107009),

Gene: Chomp_201 Start: 107743, Stop: 108117, Start Num: 14

Candidate Starts for Chomp_201:

(3, 107560), (6, 107635), (Start: 14 @107743 has 47 MA's), (Start: 15 @107761 has 2 MA's), (19, 107884), (26, 108004), (27, 108058),

Gene: Delylah_203 Start: 107864, Stop: 108238, Start Num: 14

Candidate Starts for Delylah_203:

(3, 107681), (6, 107756), (Start: 14 @107864 has 47 MA's), (Start: 15 @107882 has 2 MA's), (19, 108005), (26, 108125), (27, 108179),

Gene: Duckfeet_195 Start: 106663, Stop: 107037, Start Num: 14

Candidate Starts for Duckfeet_195:

(3, 106480), (6, 106555), (Start: 14 @106663 has 47 MA's), (Start: 15 @106681 has 2 MA's), (26, 106924), (27, 106978),

Gene: ET08_189 Start: 106728, Stop: 107102, Start Num: 14

Candidate Starts for ET08_189:

(3, 106545), (6, 106620), (Start: 14 @106728 has 47 MA's), (Start: 15 @106746 has 2 MA's), (19, 106869), (26, 106989), (27, 107043),

Gene: FrayBell_204 Start: 107010, Stop: 107384, Start Num: 14

Candidate Starts for FrayBell_204:

(3, 106827), (6, 106902), (Start: 14 @107010 has 47 MA's), (Start: 15 @107028 has 2 MA's), (26, 107271), (27, 107325),

Gene: Gabriel_204 Start: 106087, Stop: 106461, Start Num: 14

Candidate Starts for Gabriel_204:

(3, 105904), (6, 105979), (Start: 14 @106087 has 47 MA's), (26, 106348), (27, 106402),

Gene: Gamgam_202 Start: 106444, Stop: 106818, Start Num: 14

Candidate Starts for Gamgam_202:

(3, 106261), (6, 106336), (Start: 14 @106444 has 47 MA's), (Start: 15 @106462 has 2 MA's), (19, 106585), (26, 106705), (27, 106759),

Gene: GlutenPhree_202 Start: 106455, Stop: 106829, Start Num: 14

Candidate Starts for GlutenPhree_202:

(3, 106272), (6, 106347), (Start: 14 @106455 has 47 MA's), (Start: 15 @106473 has 2 MA's), (19, 106596), (26, 106716), (27, 106770),

Gene: GodonK_191 Start: 98859, Stop: 98509, Start Num: 13

Candidate Starts for GodonK_191:

(1, 99045), (2, 99036), (4, 99012), (8, 98949), (10, 98934), (Start: 13 @98859 has 2 MA's), (19, 98718), (20, 98715), (22, 98688), (23, 98682), (25, 98625),

Gene: HyRo_189 Start: 106708, Stop: 107082, Start Num: 14

Candidate Starts for HyRo_189:

(3, 106525), (6, 106600), (Start: 14 @106708 has 47 MA's), (Start: 15 @106726 has 2 MA's), (19, 106849), (26, 106969), (27, 107023),

Gene: IkeLoa_193 Start: 106106, Stop: 106480, Start Num: 14

Candidate Starts for IkeLoa_193:

(3, 105923), (6, 105998), (Start: 14 @106106 has 47 MA's), (Start: 15 @106124 has 2 MA's), (19, 106247), (26, 106367), (27, 106421),

Gene: InigoMontoya_204 Start: 107118, Stop: 107492, Start Num: 14

Candidate Starts for InigoMontoya_204:

(3, 106935), (6, 107010), (Start: 14 @107118 has 47 MA's), (Start: 15 @107136 has 2 MA's), (19, 107259), (26, 107379), (27, 107433),

Gene: Jemmno_200 Start: 106046, Stop: 106420, Start Num: 14

Candidate Starts for Jemmno_200:

(3, 105863), (6, 105938), (Start: 14 @106046 has 47 MA's), (Start: 15 @106064 has 2 MA's), (19, 106187), (26, 106307), (27, 106361),

Gene: JulietS_192 Start: 104335, Stop: 104709, Start Num: 14

Candidate Starts for JulietS_192:

(3, 104152), (6, 104227), (Start: 14 @104335 has 47 MA's), (Start: 15 @104353 has 2 MA's), (19, 104476), (26, 104596), (27, 104650),

Gene: Kamryn_200 Start: 107880, Stop: 108254, Start Num: 14

Candidate Starts for Kamryn_200:

(3, 107697), (6, 107772), (Start: 14 @107880 has 47 MA's), (26, 108141), (27, 108195),

Gene: Koguma_200 Start: 106561, Stop: 106935, Start Num: 14

Candidate Starts for Koguma_200:

(3, 106378), (6, 106453), (Start: 14 @106561 has 47 MA's), (Start: 15 @106579 has 2 MA's), (19, 106702), (26, 106822), (27, 106876),

Gene: LRRHood_194 Start: 106906, Stop: 107280, Start Num: 14

Candidate Starts for LRRHood_194:

(3, 106723), (6, 106798), (Start: 14 @106906 has 47 MA's), (Start: 15 @106924 has 2 MA's), (19, 107047), (26, 107167), (27, 107221),

Gene: Labradorite_199 Start: 105654, Stop: 106028, Start Num: 14

Candidate Starts for Labradorite_199:

(3, 105471), (6, 105546), (Start: 14 @105654 has 47 MA's), (Start: 15 @105672 has 2 MA's), (26, 105915), (27, 105969),

Gene: Latch_201 Start: 106454, Stop: 106828, Start Num: 14

Candidate Starts for Latch_201:

(3, 106271), (6, 106346), (Start: 14 @106454 has 47 MA's), (Start: 15 @106472 has 2 MA's), (19, 106595), (26, 106715), (27, 106769),

Gene: LordLeafolot_202 Start: 107858, Stop: 108232, Start Num: 14

Candidate Starts for LordLeafolot_202:

(3, 107675), (6, 107750), (Start: 14 @107858 has 47 MA's), (Start: 15 @107876 has 2 MA's), (26, 108119), (27, 108173),

Gene: Lukilu_192 Start: 107916, Stop: 108290, Start Num: 14

Candidate Starts for Lukilu_192:

(3, 107733), (6, 107808), (Start: 14 @107916 has 47 MA's), (Start: 15 @107934 has 2 MA's), (19, 108057), (26, 108177), (27, 108231),

Gene: Mangeria_202 Start: 108247, Stop: 108621, Start Num: 14

Candidate Starts for Mangeria_202:

(3, 108064), (6, 108139), (Start: 14 @108247 has 47 MA's), (Start: 15 @108265 has 2 MA's), (19, 108388), (26, 108508), (27, 108562),

Gene: Mikro_197 Start: 108888, Stop: 109262, Start Num: 14

Candidate Starts for Mikro_197:

(3, 108705), (6, 108780), (Start: 14 @108888 has 47 MA's), (26, 109149), (27, 109203),

Gene: MoMoMixon_199 Start: 107378, Stop: 107752, Start Num: 14

Candidate Starts for MoMoMixon_199:

(3, 107195), (6, 107270), (Start: 14 @107378 has 47 MA's), (26, 107639), (27, 107693),

Gene: Momo_202 Start: 106454, Stop: 106828, Start Num: 14

Candidate Starts for Momo_202:

(3, 106271), (6, 106346), (Start: 14 @106454 has 47 MA's), (Start: 15 @106472 has 2 MA's), (19, 106595), (26, 106715), (27, 106769),

Gene: Naija_202 Start: 107157, Stop: 107531, Start Num: 14

Candidate Starts for Naija_202:

(3, 106974), (6, 107049), (Start: 14 @107157 has 47 MA's), (Start: 15 @107175 has 2 MA's), (19, 107298), (26, 107418), (27, 107472),

Gene: Nappy_202 Start: 108851, Stop: 109225, Start Num: 14

Candidate Starts for Nappy_202:

(3, 108668), (6, 108743), (Start: 14 @108851 has 47 MA's), (Start: 15 @108869 has 2 MA's), (19, 108992), (26, 109112), (27, 109166),

Gene: Ngannou_198 Start: 105454, Stop: 105810, Start Num: 15

Candidate Starts for Ngannou_198:

(3, 105253), (6, 105328), (Start: 14 @105436 has 47 MA's), (Start: 15 @105454 has 2 MA's), (19, 105577), (26, 105697), (27, 105751),

Gene: NuevoMundo_204 Start: 109444, Stop: 109818, Start Num: 14

Candidate Starts for NuevoMundo_204:

(3, 109261), (6, 109336), (Start: 14 @109444 has 47 MA's), (Start: 15 @109462 has 2 MA's), (19, 109585), (26, 109705), (27, 109759),

Gene: PharkleMinkus_203 Start: 107009, Stop: 107383, Start Num: 14

Candidate Starts for PharkleMinkus_203:

(3, 106826), (6, 106901), (Start: 14 @107009 has 47 MA's), (Start: 15 @107027 has 2 MA's), (26, 107270), (27, 107324),

Gene: Phendrix_179 Start: 97289, Stop: 96939, Start Num: 13

Candidate Starts for Phendrix_179:

(1, 97475), (2, 97466), (4, 97442), (8, 97379), (10, 97364), (Start: 13 @97289 has 2 MA's), (20, 97145), (21, 97130), (22, 97118), (25, 97055),

Gene: Phlegm_205 Start: 107157, Stop: 107531, Start Num: 14

Candidate Starts for Phlegm_205:

(3, 106974), (6, 107049), (Start: 14 @107157 has 47 MA's), (Start: 15 @107175 has 2 MA's), (19, 107298), (26, 107418), (27, 107472),

Gene: Phox_202 Start: 108112, Stop: 108486, Start Num: 14

Candidate Starts for Phox_202:

(3, 107929), (6, 108004), (Start: 14 @108112 has 47 MA's), (Start: 15 @108130 has 2 MA's), (19, 108253), (26, 108373), (27, 108427),

Gene: Pier_202 Start: 108986, Stop: 109360, Start Num: 14

Candidate Starts for Pier_202:

(3, 108803), (6, 108878), (Start: 14 @108986 has 47 MA's), (Start: 15 @109004 has 2 MA's), (19, 109127), (26, 109247), (27, 109301),

Gene: Pio_209 Start: 110181, Stop: 110555, Start Num: 14

Candidate Starts for Pio_209:

(3, 109998), (6, 110073), (Start: 14 @110181 has 47 MA's), (26, 110442), (27, 110496),

Gene: Pupusa_205 Start: 108504, Stop: 108860, Start Num: 15

Candidate Starts for Pupusa_205:

(3, 108303), (6, 108378), (Start: 14 @108486 has 47 MA's), (Start: 15 @108504 has 2 MA's), (26, 108747), (27, 108801),

Gene: RoMag_196 Start: 107203, Stop: 107577, Start Num: 14

Candidate Starts for RoMag_196:

(3, 107020), (6, 107095), (Start: 14 @107203 has 47 MA's), (Start: 15 @107221 has 2 MA's), (19, 107344), (26, 107464), (27, 107518),

Gene: Ronan_197 Start: 105595, Stop: 105969, Start Num: 14

Candidate Starts for Ronan_197:

(3, 105412), (6, 105487), (Start: 14 @105595 has 47 MA's), (Start: 15 @105613 has 2 MA's), (19, 105736), (26, 105856), (27, 105910),

Gene: Shrimp_203 Start: 108221, Stop: 108595, Start Num: 14

Candidate Starts for Shrimp_203:

(3, 108038), (6, 108113), (Start: 14 @108221 has 47 MA's), (Start: 15 @108239 has 2 MA's), (19, 108362), (26, 108482), (27, 108536),

Gene: SilverDipper_205 Start: 107713, Stop: 108087, Start Num: 14

Candidate Starts for SilverDipper_205:

(3, 107530), (6, 107605), (Start: 14 @107713 has 47 MA's), (Start: 15 @107731 has 2 MA's), (19, 107854), (26, 107974), (27, 108028),

Gene: Sixama_178 Start: 102763, Stop: 102323, Start Num: 5

Candidate Starts for Sixama_178:

(Start: 5 @102763 has 1 MA's), (7, 102742), (9, 102730), (11, 102718), (12, 102715), (16, 102607), (17, 102601), (18, 102583), (19, 102535), (23, 102499), (24, 102481),

Gene: Sprinklers_199 Start: 106816, Stop: 107190, Start Num: 14

Candidate Starts for Sprinklers_199:

(3, 106633), (6, 106708), (Start: 14 @106816 has 47 MA's), (Start: 15 @106834 has 2 MA's), (19, 106957), (26, 107077), (27, 107131),

Gene: StubbySaigey_206 Start: 107247, Stop: 107621, Start Num: 14

Candidate Starts for StubbySaigey_206:

(3, 107064), (6, 107139), (Start: 14 @107247 has 47 MA's), (Start: 15 @107265 has 2 MA's), (19, 107388), (26, 107508), (27, 107562),

Gene: Tainan_202 Start: 107603, Stop: 107959, Start Num: 15

Candidate Starts for Tainan_202:

(3, 107402), (6, 107477), (Start: 14 @107585 has 47 MA's), (Start: 15 @107603 has 2 MA's), (26, 107846), (27, 107900),

Gene: ValleyTerrace_202 Start: 106454, Stop: 106828, Start Num: 14

Candidate Starts for ValleyTerrace_202:

(3, 106271), (6, 106346), (Start: 14 @106454 has 47 MA's), (Start: 15 @106472 has 2 MA's), (19, 106595), (26, 106715), (27, 106769),

Gene: Yassified_198 Start: 106793, Stop: 107167, Start Num: 14

Candidate Starts for Yassified_198:

(3, 106610), (6, 106685), (Start: 14 @106793 has 47 MA's), (Start: 15 @106811 has 2 MA's), (19, 106934), (26, 107054), (27, 107108),