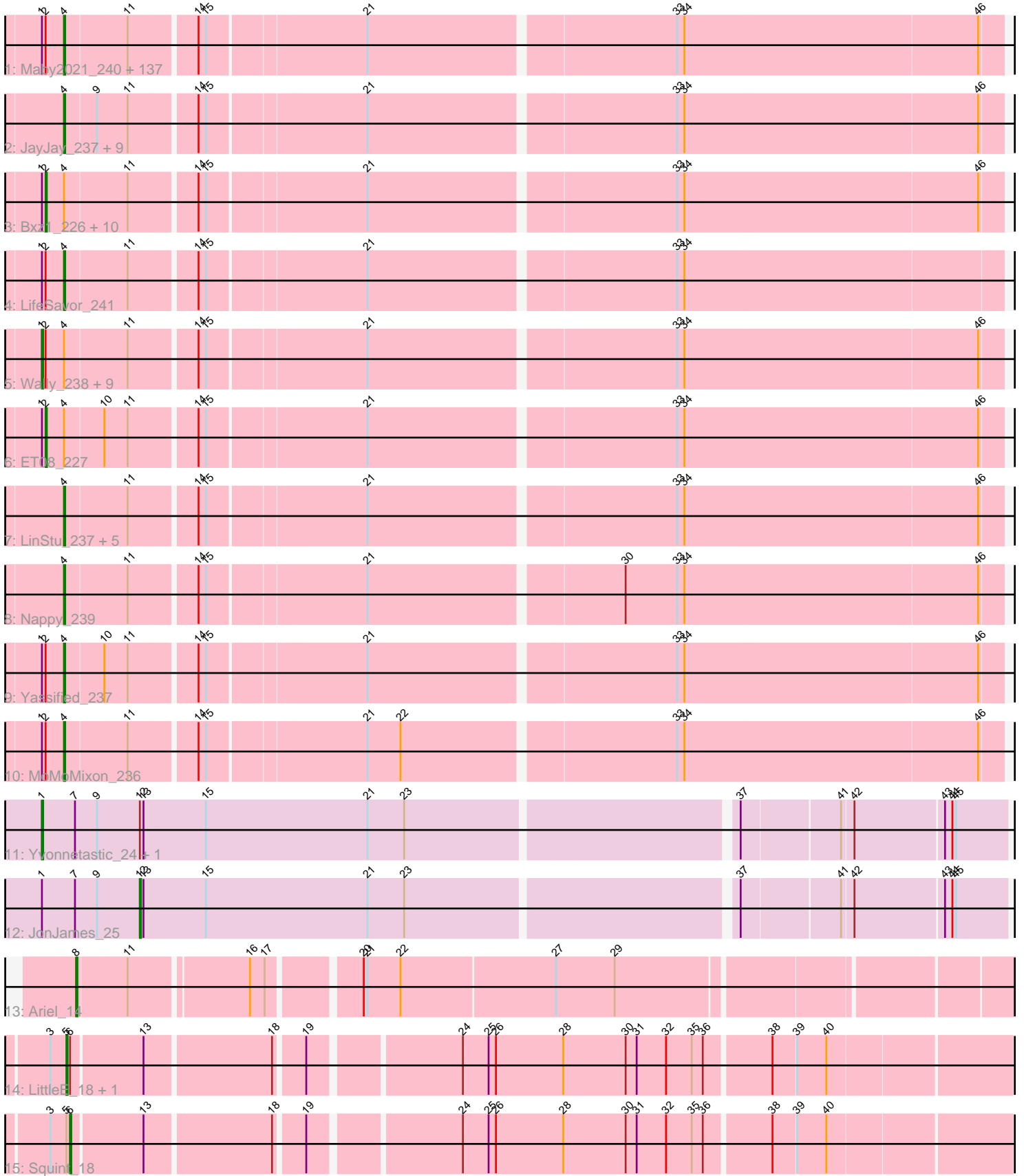


Pham 157614



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 157614 Report

This analysis was run 04/13/24 on database version 558.

Pham number 157614 has 187 members, 16 are drafts.

Phages represented in each track:

- Track 1 : Maby2021_240, Naval22_245, Littleton_244, Breeniome_240, Matsumoto_238, InterFolia_242, Mikro_234, Issimir_235, Jessibeth14_240, TinyTim_238, Fludd_240, ValleyTerrace_241, Grasshills_247, Ghost_240, YemiJoy2021_241, Spec_234, Momo_242, BeanWater_233, Phlegm_245, Burrough_241, Grungle_222, Quasimodo_243, RoMag_235, IkeLoa_234, Kboogie_244, Darko_239, Phusco_239, ScottMcG_232, Atlantean_240, Blackbrain_238, ShiaLabeouf_238, EasyJones_241, Amataga_241, Sprinklers_238, Jaygup_237, Audrick_243, Dietrick_229, Delylah_242, Loanshark_237, EmmaElysia_245, LordLeafolot_242, DrPhinkDaddy_237, Erdmann_241, ChaylaJr_239, Shnickers_239, Teardrop_238, Chargie21_237, Kamryn_239, Bigswole_245, Basquiat_237, Tortoise16_238, MikeLiesIn_241, Adlitam_240, Ronan_236, Sauce_237, ParkTD_239, Gizmo_245, Bread_236, NedWong_239, Bipolarisk_238, Rahel_242, SmallFry_241, BananaFence_237, Ngannou_235, Shaqnato_231, Cali_230, LolaVinca_236, Nidhogg_241, Napoleon13_237, Tyke_237, Norm_240, McWolfish_237, CharlieB_235, ArcherS7_241, Shrimp_242, Ading_242, JulietS_232, Khaleesi_239, Naija_241, Salacia_241, Turret_231, Gabriel_243, Janiyra_243, Jedediah_242, Caravan_230, Gamgam_242, Daffodil_246, Trinitium_236, ChickenPhender_236, YoungMoneyMata_240, Zeenon_241, NuevoMundo_242, EggyFarm_248, Iota_237, Specks_244, Yucca_240, Derek_236, Tonenili_262, Asterius_235, Delilah_238, Bonray_242, InigoMontoya_244, Pio_247, Patter_242, Cactojaque_234, QBert_232, FrayBell_243, Shelob_241, SrishMeg2525_237, BadAgartude_234, JustHall_234, BackyardAgain_235, Essence_238, ZygoTaiga_236, EmToTheThree_240, Lukilu_229, StephanieG_234, FoxtrotP1_238, Willis_241, Latch_240, BigCity_248, Morizzled23_237, Astraea_235, Lee7_239, LRRHood_232, Guwapp_236, SilverDipper_245, I3_250, PurduePete_240, Izajani_236, Melpomini_235, Pivoine_241, Phox_241, Bangla1971_241, Ewok_239, Pier_239, CindyLou_241, Chomp_238
- Track 2 : JayJay_237, Pinkcreek_221, Stubby_223, Sebata_241, Alice_226, DirtMonster_230, Flabslab_235, Shifa_218, Rabinovish_233, HyRo_226
- Track 3 : Bxz1_226, Spud_232, JPickles_237, Catera_229, Megamind_237, Drazdys_237, Jemmno_240, StubbySaigey_246, FudgeTart_235, Dandelion_246, Koguma_239
- Track 4 : LifeSavor_241
- Track 5 : Wally_238, Pleione_244, Roots515_243, Zalkecks_239, McGee_241, ErnieJ_233, Ava3_237, Babyland_243, Rizal_229, DTDevon_241
- Track 6 : ET08_227

- Track 7 : LinStu_237, Mangeria_240, Colt_230, Blubba_235, Cane17_229, Concombre_245
- Track 8 : Nappy_239
- Track 9 : Yassified_237
- Track 10 : MoMoMixon_236
- Track 11 : Yvonnetastic_24, Cardigan_26
- Track 12 : JonJames_25
- Track 13 : Ariel_14
- Track 14 : LittleE_18, Lucky2013_18
- Track 15 : Squint_18

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

The start number called the most often in the published annotations is 4, it was called in 143 of the 171 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ading_242, Adlitam_240, Alice_226, Amataga_241, ArcherS7_241, Asterius_235, Astraea_235, Atlantean_240, Audrick_243, BackyardAgain_235, BadAgartude_234, BananaFence_237, Bangla1971_241, Basquiat_237, BeanWater_233, BigCity_248, Bigswole_245, Bipolarisk_238, Blackbrain_238, Blubba_235, Bonray_242, Bread_236, Breeniome_240, Burrough_241, Cactojaque_234, Cali_230, Cane17_229, Caravan_230, Chargie21_237, CharlieB_235, ChaylaJr_239, ChickenPhender_236, Chomp_238, CindyLou_241, Colt_230, Concombre_245, Daffodil_246, Darko_239, Delilah_238, Delylah_242, Derek_236, Dietrick_229, DirtMonster_230, DrPhinkDaddy_237, EasyJones_241, EggyFarm_248, EmToTheThree_240, EmmaElysia_245, Erdmann_241, Essence_238, Ewok_239, Flabslab_235, Fludd_240, FoxtrotP1_238, FrayBell_243, Gabriel_243, Gangam_242, Ghost_240, Gizmo_245, Grasshills_247, Grungle_222, Guwapp_236, HyRo_226, I3_250, IkeLoa_234, InigoMontoya_244, InterFolia_242, Iota_237, Issimir_235, Izajani_236, Janiyra_243, JayJay_237, Jaygup_237, Jedediah_242, Jessibeth14_240, JulietS_232, JustHall_234, Kamryn_239, Kboogie_244, Khaleesi_239, LRRHood_232, Latch_240, Lee7_239, LifeSavor_241, LinStu_237, Littleton_244, Loanshark_237, LolaVinca_236, LordLeafolot_242, Lukilu_229, Maby2021_240, Mangeria_240, Matsumoto_238, McWolfish_237, Melpomini_235, MikeLiesIn_241, Mikro_234, MoMoMixon_236, Momo_242, Morizzled23_237, Naija_241, Napoleon13_237, Nappy_239, Naval22_245, NedWong_239, Ngannou_235, Nidhogg_241, Norm_240, NuevoMundo_242, ParkTD_239, Patter_242, Phlegm_245, Phox_241, Phusco_239, Pier_239, Pinkcreek_221, Pio_247, Pivoine_241, PurduePete_240, QBert_232, Quasimodo_243, Rabinovish_233, Rahel_242, RoMag_235, Ronan_236, Salacia_241, Sauce_237, ScottMcG_232, Sebata_241, Shaqnato_231, Shelob_241, ShiaLabeouf_238, Shifa_218, Shnickers_239, Shrimp_242, SilverDipper_245, SmallFry_241, Spec_234, Specks_244, Sprinklers_238, SrishMeg2525_237, StephanieG_234, Stubby_223, Teardrop_238, TinyTim_238, Tonenili_262, Tortoise16_238, Trinitium_236, Turret_231, Tyke_237, ValleyTerrace_241, Willis_241, Yassified_237, YemiJoy2021_241, YoungMoneyMata_240, Yucca_240, Zeenon_241, ZygoTaiga_236,

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

- Ava3_237, Babyland_243, Bxz1_226, Catera_229, DTDevon_241, Dandelion_246, Drazdys_237, ET08_227, ErnieJ_233, FudgeTart_235, JPickles_237, Jemmno_240, Koguma_239, McGee_241, Megamind_237, Pleione_244, Rizal_229, Roots515_243, Spud_232, StubbySaigey_246, Wally_238, Zalkecks_239,

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

- Ariel_14, Cardigan_26, JonJames_25, LittleE_18, Lucky2013_18, Squint_18, Yvonnestic_24,

Summary by start number:

Start 1:

- Found in 166 of 187 (88.8%) of genes in pham
- Manual Annotations of this start: 11 of 171
- Called 7.2% of time when present
- Phage (with cluster) where this start called: Ava3_237 (C1), Babyland_243 (C1), Cardigan_26 (DD), DTDevon_241 (C1), ErnieJ_233 (C1), McGee_241 (C1), Pleione_244 (C1), Rizal_229 (C1), Roots515_243 (C1), Wally_238 (C1), Yvonnestic_24 (DD), Zalkecks_239 (C1),

Start 2:

- Found in 163 of 187 (87.2%) of genes in pham
- Manual Annotations of this start: 12 of 171
- Called 7.4% of time when present
- Phage (with cluster) where this start called: Bxz1_226 (C1), Catera_229 (C1), Dandelion_246 (C1), Drazdys_237 (C1), ET08_227 (C1), FudgeTart_235 (C1), JPickles_237 (C1), Jemmno_240 (C1), Koguma_239 (C1), Megamind_237 (C1), Spud_232 (C1), StubbySaigey_246 (C1),

Start 4:

- Found in 180 of 187 (96.3%) of genes in pham
- Manual Annotations of this start: 143 of 171
- Called 87.8% of time when present
- Phage (with cluster) where this start called: Ading_242 (C1), Adlitam_240 (C1), Alice_226 (C1), Amataga_241 (C1), ArcherS7_241 (C1), Asterius_235 (C1), Astraea_235 (C1), Atlantean_240 (C1), Audrick_243 (C1), BackyardAgain_235 (C1), BadAgartude_234 (C1), BananaFence_237 (C1), Bangla1971_241 (C1), Basquiat_237 (C1), BeanWater_233 (C1), BigCity_248 (C1), Bigswole_245 (C1), Bipolarisk_238 (C1), Blackbrain_238 (C1), Blubba_235 (C1), Bonray_242 (C1), Bread_236 (C1), Breeniome_240 (C1), Burrough_241 (C1), Cactojaque_234 (C1), Cali_230 (C1), Cane17_229 (C1), Caravan_230 (C1), Chargie21_237 (C1), CharlieB_235 (C1), ChaylaJr_239 (C1), ChickenPhender_236 (C1), Chomp_238 (C1), CindyLou_241 (C1), Colt_230 (C1), Concombre_245 (C1), Daffodil_246 (C1), Darko_239 (C1), Delilah_238 (C1), Delylah_242 (C1), Derek_236 (C1), Dietrick_229 (C1), DirtMonster_230 (C1), DrPhinkDaddy_237 (C1), EasyJones_241 (C1), EggyFarm_248 (C1), EmToTheThree_240 (C1), EmmaElysia_245 (C1), Erdmann_241 (C1), Essence_238 (C1), Ewok_239 (C1), Flabslab_235 (C1), Fludd_240 (C1), FoxtrotP1_238 (C1), FrayBell_243 (C1), Gabriel_243 (C1), Gamgam_242 (C1), Ghost_240 (C1), Gizmo_245 (C1), Grasshills_247 (C1), Grungle_222 (C1), Guwapp_236 (C1), HyRo_226 (C1), I3_250 (C1), IkeLoa_234 (C1), InigoMontoya_244 (C1), InterFolia_242 (C1), Iota_237 (C1), Issimir_235 (C1), Izajani_236 (C1), Janiyra_243 (C1), JayJay_237 (C1), Jaygup_237 (C1), Jedediah_242 (C1), Jessibeth14_240 (C1), JulietS_232 (C1), JustHall_234 (C1),

Kamryn_239 (C1), Kboogie_244 (C1), Khaleesi_239 (C1), LRRHood_232 (C1), Latch_240 (C1), Lee7_239 (C1), LifeSavor_241 (C1), LinStu_237 (C1), Littleton_244 (C1), Loanshark_237 (C1), LolaVinca_236 (C1), LordLeafolot_242 (C1), Lukilu_229 (C1), Maby2021_240 (C1), Mangeria_240 (C1), Matsumoto_238 (C1), McWolfish_237 (C1), Melpomini_235 (C1), MikeLiesIn_241 (C1), Mikro_234 (C1), MoMoMixon_236 (C1), Momo_242 (C1), Morizzled23_237 (C1), Naija_241 (C1), Napoleon13_237 (C1), Nappy_239 (C1), Naval22_245 (C1), NedWong_239 (C1), Ngannou_235 (C1), Nidhogg_241 (C1), Norm_240 (C1), NuevoMundo_242 (C1), ParkTD_239 (C1), Patter_242 (C1), Phlegm_245 (C1), Phox_241 (C1), Phusco_239 (C1), Pier_239 (C1), Pinkcreek_221 (C1), Pio_247 (C1), Pivoine_241 (C1), PurduePete_240 (C1), QBert_232 (C1), Quasimodo_243 (C1), Rabinovish_233 (C1), Rahel_242 (C1), RoMag_235 (C1), Ronan_236 (C1), Salacia_241 (C1), Sauce_237 (C1), ScottMcG_232 (C1), Sebata_241 (C1), Shaq nato_231 (C1), Shelob_241 (C1), ShiaLabeouf_238 (C1), Shifa_218 (C1), Shnickers_239 (C1), Shrimp_242 (C1), SilverDipper_245 (C1), SmallFry_241 (C1), Spec_234 (C1), Specks_244 (C1), Sprinklers_238 (C1), SrishMeg2525_237 (C1), StephanieG_234 (C1), Stubby_223 (C1), Teardrop_238 (C1), TinyTim_238 (C1), Tonenili_262 (C1), Tortoise16_238 (C1), Trinitium_236 (C1), Turret_231 (C1), Tyke_237 (C1), ValleyTerrace_241 (C1), Willis_241 (C1), Yassified_237 (C1), YemiJoy2021_241 (C1), YoungMoneyMata_240 (C1), Yucca_240 (C1), Zeenon_241 (C1), ZygoTaiga_236 (C1),

Start 5:

- Found in 3 of 187 (1.6%) of genes in pham
- Manual Annotations of this start: 2 of 171
- Called 66.7% of time when present
- Phage (with cluster) where this start called: LittleE_18 (J), Lucky2013_18 (J),

Start 6:

- Found in 3 of 187 (1.6%) of genes in pham
- Manual Annotations of this start: 1 of 171
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Squint_18 (J),

Start 8:

- Found in 1 of 187 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 171
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ariel_14 (J),

Start 12:

- Found in 3 of 187 (1.6%) of genes in pham
- Manual Annotations of this start: 1 of 171
- Called 33.3% of time when present
- Phage (with cluster) where this start called: JonJames_25 (DD),

Summary by clusters:

There are 3 clusters represented in this pham: C1, J, DD,

Info for manual annotations of cluster C1:

- Start number 1 was manually annotated 10 times for cluster C1.
- Start number 2 was manually annotated 12 times for cluster C1.
- Start number 4 was manually annotated 143 times for cluster C1.

Info for manual annotations of cluster DD:

- Start number 1 was manually annotated 1 time for cluster DD.
- Start number 12 was manually annotated 1 time for cluster DD.

Info for manual annotations of cluster J:

- Start number 5 was manually annotated 2 times for cluster J.
- Start number 6 was manually annotated 1 time for cluster J.
- Start number 8 was manually annotated 1 time for cluster J.

Gene Information:

Gene: Ading_242 Start: 134465, Stop: 135193, Start Num: 4

Candidate Starts for Ading_242:

(Start: 1 @134447 has 11 MA's), (Start: 2 @134450 has 12 MA's), (Start: 4 @134465 has 143 MA's), (11, 134513), (14, 134564), (15, 134570), (21, 134693), (33, 134933), (34, 134939), (46, 135176),

Gene: Adlitam_240 Start: 133069, Stop: 133797, Start Num: 4

Candidate Starts for Adlitam_240:

(Start: 1 @133051 has 11 MA's), (Start: 2 @133054 has 12 MA's), (Start: 4 @133069 has 143 MA's), (11, 133117), (14, 133168), (15, 133174), (21, 133297), (33, 133537), (34, 133543), (46, 133780),

Gene: Alice_226 Start: 130563, Stop: 131291, Start Num: 4

Candidate Starts for Alice_226:

(Start: 4 @130563 has 143 MA's), (9, 130587), (11, 130611), (14, 130662), (15, 130668), (21, 130791), (33, 131031), (34, 131037), (46, 131274),

Gene: Amataga_241 Start: 132068, Stop: 132796, Start Num: 4

Candidate Starts for Amataga_241:

(Start: 1 @132050 has 11 MA's), (Start: 2 @132053 has 12 MA's), (Start: 4 @132068 has 143 MA's), (11, 132116), (14, 132167), (15, 132173), (21, 132296), (33, 132536), (34, 132542), (46, 132779),

Gene: ArcherS7_241 Start: 133813, Stop: 134541, Start Num: 4

Candidate Starts for ArcherS7_241:

(Start: 1 @133795 has 11 MA's), (Start: 2 @133798 has 12 MA's), (Start: 4 @133813 has 143 MA's), (11, 133861), (14, 133912), (15, 133918), (21, 134041), (33, 134281), (34, 134287), (46, 134524),

Gene: Ariel_14 Start: 8861, Stop: 9571, Start Num: 8

Candidate Starts for Ariel_14:

(Start: 8 @8861 has 1 MA's), (11, 8900), (16, 8990), (17, 9002), (20, 9068), (21, 9071), (22, 9098), (27, 9221), (29, 9269),

Gene: Asterius_235 Start: 132477, Stop: 133205, Start Num: 4

Candidate Starts for Asterius_235:

(Start: 1 @132459 has 11 MA's), (Start: 2 @132462 has 12 MA's), (Start: 4 @132477 has 143 MA's), (11, 132525), (14, 132576), (15, 132582), (21, 132705), (33, 132945), (34, 132951), (46, 133188),

Gene: Astraea_235 Start: 131672, Stop: 132400, Start Num: 4

Candidate Starts for Astraea_235:

(Start: 1 @131654 has 11 MA's), (Start: 2 @131657 has 12 MA's), (Start: 4 @131672 has 143 MA's), (11, 131720), (14, 131771), (15, 131777), (21, 131900), (33, 132140), (34, 132146), (46, 132383),

Gene: Atlantean_240 Start: 132068, Stop: 132796, Start Num: 4

Candidate Starts for Atlantean_240:

(Start: 1 @132050 has 11 MA's), (Start: 2 @132053 has 12 MA's), (Start: 4 @132068 has 143 MA's), (11, 132116), (14, 132167), (15, 132173), (21, 132296), (33, 132536), (34, 132542), (46, 132779),

Gene: Audrick_243 Start: 131958, Stop: 132686, Start Num: 4

Candidate Starts for Audrick_243:

(Start: 1 @131940 has 11 MA's), (Start: 2 @131943 has 12 MA's), (Start: 4 @131958 has 143 MA's), (11, 132006), (14, 132057), (15, 132063), (21, 132186), (33, 132426), (34, 132432), (46, 132669),

Gene: Ava3_237 Start: 132510, Stop: 133256, Start Num: 1

Candidate Starts for Ava3_237:

(Start: 1 @132510 has 11 MA's), (Start: 2 @132513 has 12 MA's), (Start: 4 @132528 has 143 MA's), (11, 132576), (14, 132627), (15, 132633), (21, 132756), (33, 132996), (34, 133002), (46, 133239),

Gene: Babyland_243 Start: 132827, Stop: 133573, Start Num: 1

Candidate Starts for Babyland_243:

(Start: 1 @132827 has 11 MA's), (Start: 2 @132830 has 12 MA's), (Start: 4 @132845 has 143 MA's), (11, 132893), (14, 132944), (15, 132950), (21, 133073), (33, 133313), (34, 133319), (46, 133556),

Gene: BackyardAgain_235 Start: 130218, Stop: 130946, Start Num: 4

Candidate Starts for BackyardAgain_235:

(Start: 1 @130200 has 11 MA's), (Start: 2 @130203 has 12 MA's), (Start: 4 @130218 has 143 MA's), (11, 130266), (14, 130317), (15, 130323), (21, 130446), (33, 130686), (34, 130692), (46, 130929),

Gene: BadAgartude_234 Start: 132170, Stop: 132898, Start Num: 4

Candidate Starts for BadAgartude_234:

(Start: 1 @132152 has 11 MA's), (Start: 2 @132155 has 12 MA's), (Start: 4 @132170 has 143 MA's), (11, 132218), (14, 132269), (15, 132275), (21, 132398), (33, 132638), (34, 132644), (46, 132881),

Gene: BananaFence_237 Start: 132301, Stop: 133029, Start Num: 4

Candidate Starts for BananaFence_237:

(Start: 1 @132283 has 11 MA's), (Start: 2 @132286 has 12 MA's), (Start: 4 @132301 has 143 MA's), (11, 132349), (14, 132400), (15, 132406), (21, 132529), (33, 132769), (34, 132775), (46, 133012),

Gene: Bangla1971_241 Start: 132777, Stop: 133505, Start Num: 4

Candidate Starts for Bangla1971_241:

(Start: 1 @132759 has 11 MA's), (Start: 2 @132762 has 12 MA's), (Start: 4 @132777 has 143 MA's), (11, 132825), (14, 132876), (15, 132882), (21, 133005), (33, 133245), (34, 133251), (46, 133488),

Gene: Basquiat_237 Start: 130587, Stop: 131315, Start Num: 4

Candidate Starts for Basquiat_237:

(Start: 1 @130569 has 11 MA's), (Start: 2 @130572 has 12 MA's), (Start: 4 @130587 has 143 MA's), (11, 130635), (14, 130686), (15, 130692), (21, 130815), (33, 131055), (34, 131061), (46, 131298),

Gene: BeanWater_233 Start: 131914, Stop: 132642, Start Num: 4

Candidate Starts for BeanWater_233:

(Start: 1 @131896 has 11 MA's), (Start: 2 @131899 has 12 MA's), (Start: 4 @131914 has 143 MA's), (11, 131962), (14, 132013), (15, 132019), (21, 132142), (33, 132382), (34, 132388), (46, 132625),

Gene: BigCity_248 Start: 134674, Stop: 135402, Start Num: 4

Candidate Starts for BigCity_248:

(Start: 1 @134656 has 11 MA's), (Start: 2 @134659 has 12 MA's), (Start: 4 @134674 has 143 MA's), (11, 134722), (14, 134773), (15, 134779), (21, 134902), (33, 135142), (34, 135148), (46, 135385),

Gene: Bigswole_245 Start: 134648, Stop: 135376, Start Num: 4

Candidate Starts for Bigswole_245:

(Start: 1 @134630 has 11 MA's), (Start: 2 @134633 has 12 MA's), (Start: 4 @134648 has 143 MA's), (11, 134696), (14, 134747), (15, 134753), (21, 134876), (33, 135116), (34, 135122), (46, 135359),

Gene: Bipolarisk_238 Start: 132796, Stop: 133524, Start Num: 4

Candidate Starts for Bipolarisk_238:

(Start: 1 @132778 has 11 MA's), (Start: 2 @132781 has 12 MA's), (Start: 4 @132796 has 143 MA's), (11, 132844), (14, 132895), (15, 132901), (21, 133024), (33, 133264), (34, 133270), (46, 133507),

Gene: Blackbrain_238 Start: 132364, Stop: 133092, Start Num: 4

Candidate Starts for Blackbrain_238:

(Start: 1 @132346 has 11 MA's), (Start: 2 @132349 has 12 MA's), (Start: 4 @132364 has 143 MA's), (11, 132412), (14, 132463), (15, 132469), (21, 132592), (33, 132832), (34, 132838), (46, 133075),

Gene: Blubba_235 Start: 135607, Stop: 136335, Start Num: 4

Candidate Starts for Blubba_235:

(Start: 4 @135607 has 143 MA's), (11, 135655), (14, 135706), (15, 135712), (21, 135835), (33, 136075), (34, 136081), (46, 136318),

Gene: Bonray_242 Start: 134164, Stop: 134892, Start Num: 4

Candidate Starts for Bonray_242:

(Start: 1 @134146 has 11 MA's), (Start: 2 @134149 has 12 MA's), (Start: 4 @134164 has 143 MA's), (11, 134212), (14, 134263), (15, 134269), (21, 134392), (33, 134632), (34, 134638), (46, 134875),

Gene: Bread_236 Start: 132171, Stop: 132899, Start Num: 4

Candidate Starts for Bread_236:

(Start: 1 @132153 has 11 MA's), (Start: 2 @132156 has 12 MA's), (Start: 4 @132171 has 143 MA's), (11, 132219), (14, 132270), (15, 132276), (21, 132399), (33, 132639), (34, 132645), (46, 132882),

Gene: Breeniome_240 Start: 131637, Stop: 132365, Start Num: 4

Candidate Starts for Breeniome_240:

(Start: 1 @131619 has 11 MA's), (Start: 2 @131622 has 12 MA's), (Start: 4 @131637 has 143 MA's), (11, 131685), (14, 131736), (15, 131742), (21, 131865), (33, 132105), (34, 132111), (46, 132348),

Gene: Burrough_241 Start: 133941, Stop: 134669, Start Num: 4

Candidate Starts for Burrough_241:

(Start: 1 @133923 has 11 MA's), (Start: 2 @133926 has 12 MA's), (Start: 4 @133941 has 143 MA's), (11, 133989), (14, 134040), (15, 134046), (21, 134169), (33, 134409), (34, 134415), (46, 134652),

Gene: Bxz1_226 Start: 134131, Stop: 134874, Start Num: 2

Candidate Starts for Bxz1_226:

(Start: 1 @134128 has 11 MA's), (Start: 2 @134131 has 12 MA's), (Start: 4 @134146 has 143 MA's), (11, 134194), (14, 134245), (15, 134251), (21, 134374), (33, 134614), (34, 134620), (46, 134857),

Gene: Cactojaque_234 Start: 131310, Stop: 132038, Start Num: 4

Candidate Starts for Cactojaque_234:

(Start: 1 @131292 has 11 MA's), (Start: 2 @131295 has 12 MA's), (Start: 4 @131310 has 143 MA's), (11, 131358), (14, 131409), (15, 131415), (21, 131538), (33, 131778), (34, 131784), (46, 132021),

Gene: Cali_230 Start: 132539, Stop: 133267, Start Num: 4

Candidate Starts for Cali_230:

(Start: 1 @132521 has 11 MA's), (Start: 2 @132524 has 12 MA's), (Start: 4 @132539 has 143 MA's), (11, 132587), (14, 132638), (15, 132644), (21, 132767), (33, 133007), (34, 133013), (46, 133250),

Gene: Cane17_229 Start: 136016, Stop: 136744, Start Num: 4

Candidate Starts for Cane17_229:

(Start: 4 @136016 has 143 MA's), (11, 136064), (14, 136115), (15, 136121), (21, 136244), (33, 136484), (34, 136490), (46, 136727),

Gene: Caravan_230 Start: 132879, Stop: 133607, Start Num: 4

Candidate Starts for Caravan_230:

(Start: 1 @132861 has 11 MA's), (Start: 2 @132864 has 12 MA's), (Start: 4 @132879 has 143 MA's), (11, 132927), (14, 132978), (15, 132984), (21, 133107), (33, 133347), (34, 133353), (46, 133590),

Gene: Cardigan_26 Start: 7617, Stop: 8369, Start Num: 1

Candidate Starts for Cardigan_26:

(Start: 1 @7617 has 11 MA's), (7, 7644), (9, 7662), (Start: 12 @7695 has 1 MA's), (13, 7698), (15, 7749), (21, 7881), (23, 7911), (37, 8166), (41, 8241), (42, 8250), (43, 8319), (44, 8325), (45, 8328),

Gene: Catera_229 Start: 131266, Stop: 132009, Start Num: 2

Candidate Starts for Catera_229:

(Start: 1 @131263 has 11 MA's), (Start: 2 @131266 has 12 MA's), (Start: 4 @131281 has 143 MA's), (11, 131329), (14, 131380), (15, 131386), (21, 131509), (33, 131749), (34, 131755), (46, 131992),

Gene: Chargie21_237 Start: 130587, Stop: 131315, Start Num: 4

Candidate Starts for Chargie21_237:

(Start: 1 @130569 has 11 MA's), (Start: 2 @130572 has 12 MA's), (Start: 4 @130587 has 143 MA's), (11, 130635), (14, 130686), (15, 130692), (21, 130815), (33, 131055), (34, 131061), (46, 131298),

Gene: CharlieB_235 Start: 132305, Stop: 133033, Start Num: 4

Candidate Starts for CharlieB_235:

(Start: 1 @132287 has 11 MA's), (Start: 2 @132290 has 12 MA's), (Start: 4 @132305 has 143 MA's), (11, 132353), (14, 132404), (15, 132410), (21, 132533), (33, 132773), (34, 132779), (46, 133016),

Gene: ChaylaJr_239 Start: 131978, Stop: 132706, Start Num: 4

Candidate Starts for ChaylaJr_239:

(Start: 1 @131960 has 11 MA's), (Start: 2 @131963 has 12 MA's), (Start: 4 @131978 has 143 MA's), (11, 132026), (14, 132077), (15, 132083), (21, 132206), (33, 132446), (34, 132452), (46, 132689),

Gene: ChickenPhender_236 Start: 130734, Stop: 131462, Start Num: 4

Candidate Starts for ChickenPhender_236:

(Start: 1 @130716 has 11 MA's), (Start: 2 @130719 has 12 MA's), (Start: 4 @130734 has 143 MA's), (11, 130782), (14, 130833), (15, 130839), (21, 130962), (33, 131202), (34, 131208), (46, 131445),

Gene: Chomp_238 Start: 134170, Stop: 134898, Start Num: 4

Candidate Starts for Chomp_238:

(Start: 1 @134152 has 11 MA's), (Start: 2 @134155 has 12 MA's), (Start: 4 @134170 has 143 MA's), (11, 134218), (14, 134269), (15, 134275), (21, 134398), (33, 134638), (34, 134644), (46, 134881),

Gene: CindyLou_241 Start: 134430, Stop: 135158, Start Num: 4

Candidate Starts for CindyLou_241:

(Start: 1 @134412 has 11 MA's), (Start: 2 @134415 has 12 MA's), (Start: 4 @134430 has 143 MA's), (11, 134478), (14, 134529), (15, 134535), (21, 134658), (33, 134898), (34, 134904), (46, 135141),

Gene: Colt_230 Start: 135247, Stop: 135975, Start Num: 4

Candidate Starts for Colt_230:

(Start: 4 @135247 has 143 MA's), (11, 135295), (14, 135346), (15, 135352), (21, 135475), (33, 135715), (34, 135721), (46, 135958),

Gene: Concombres_245 Start: 134326, Stop: 135054, Start Num: 4

Candidate Starts for Concombres_245:

(Start: 4 @134326 has 143 MA's), (11, 134374), (14, 134425), (15, 134431), (21, 134554), (33, 134794), (34, 134800), (46, 135037),

Gene: DTDevon_241 Start: 134791, Stop: 135537, Start Num: 1

Candidate Starts for DTDevon_241:

(Start: 1 @134791 has 11 MA's), (Start: 2 @134794 has 12 MA's), (Start: 4 @134809 has 143 MA's), (11, 134857), (14, 134908), (15, 134914), (21, 135037), (33, 135277), (34, 135283), (46, 135520),

Gene: Daffodil_246 Start: 133096, Stop: 133824, Start Num: 4

Candidate Starts for Daffodil_246:

(Start: 1 @133078 has 11 MA's), (Start: 2 @133081 has 12 MA's), (Start: 4 @133096 has 143 MA's), (11, 133144), (14, 133195), (15, 133201), (21, 133324), (33, 133564), (34, 133570), (46, 133807),

Gene: Dandelion_246 Start: 135684, Stop: 136427, Start Num: 2

Candidate Starts for Dandelion_246:

(Start: 1 @135681 has 11 MA's), (Start: 2 @135684 has 12 MA's), (Start: 4 @135699 has 143 MA's), (11, 135747), (14, 135798), (15, 135804), (21, 135927), (33, 136167), (34, 136173), (46, 136410),

Gene: Darko_239 Start: 132305, Stop: 133033, Start Num: 4

Candidate Starts for Darko_239:

(Start: 1 @132287 has 11 MA's), (Start: 2 @132290 has 12 MA's), (Start: 4 @132305 has 143 MA's), (11, 132353), (14, 132404), (15, 132410), (21, 132533), (33, 132773), (34, 132779), (46, 133016),

Gene: Delilah_238 Start: 133189, Stop: 133917, Start Num: 4

Candidate Starts for Delilah_238:

(Start: 1 @133171 has 11 MA's), (Start: 2 @133174 has 12 MA's), (Start: 4 @133189 has 143 MA's), (11, 133237), (14, 133288), (15, 133294), (21, 133417), (33, 133657), (34, 133663), (46, 133900),

Gene: Delylah_242 Start: 133503, Stop: 134231, Start Num: 4

Candidate Starts for Delylah_242:

(Start: 1 @133485 has 11 MA's), (Start: 2 @133488 has 12 MA's), (Start: 4 @133503 has 143 MA's), (11, 133551), (14, 133602), (15, 133608), (21, 133731), (33, 133971), (34, 133977), (46, 134214),

Gene: Derek_236 Start: 133447, Stop: 134175, Start Num: 4

Candidate Starts for Derek_236:

(Start: 1 @133429 has 11 MA's), (Start: 2 @133432 has 12 MA's), (Start: 4 @133447 has 143 MA's), (11, 133495), (14, 133546), (15, 133552), (21, 133675), (33, 133915), (34, 133921), (46, 134158),

Gene: Dietrick_229 Start: 131310, Stop: 132038, Start Num: 4

Candidate Starts for Dietrick_229:

(Start: 1 @131292 has 11 MA's), (Start: 2 @131295 has 12 MA's), (Start: 4 @131310 has 143 MA's), (11, 131358), (14, 131409), (15, 131415), (21, 131538), (33, 131778), (34, 131784), (46, 132021),

Gene: DirtMonster_230 Start: 132321, Stop: 133049, Start Num: 4

Candidate Starts for DirtMonster_230:

(Start: 4 @132321 has 143 MA's), (9, 132345), (11, 132369), (14, 132420), (15, 132426), (21, 132549), (33, 132789), (34, 132795), (46, 133032),

Gene: DrPhinkDaddy_237 Start: 133874, Stop: 134602, Start Num: 4

Candidate Starts for DrPhinkDaddy_237:

(Start: 1 @133856 has 11 MA's), (Start: 2 @133859 has 12 MA's), (Start: 4 @133874 has 143 MA's), (11, 133922), (14, 133973), (15, 133979), (21, 134102), (33, 134342), (34, 134348), (46, 134585),

Gene: Drazdys_237 Start: 133439, Stop: 134182, Start Num: 2

Candidate Starts for Drazdys_237:

(Start: 1 @133436 has 11 MA's), (Start: 2 @133439 has 12 MA's), (Start: 4 @133454 has 143 MA's), (11, 133502), (14, 133553), (15, 133559), (21, 133682), (33, 133922), (34, 133928), (46, 134165),

Gene: ET08_227 Start: 131980, Stop: 132723, Start Num: 2

Candidate Starts for ET08_227:

(Start: 1 @131977 has 11 MA's), (Start: 2 @131980 has 12 MA's), (Start: 4 @131995 has 143 MA's), (10, 132025), (11, 132043), (14, 132094), (15, 132100), (21, 132223), (33, 132463), (34, 132469), (46, 132706),

Gene: EasyJones_241 Start: 131830, Stop: 132558, Start Num: 4

Candidate Starts for EasyJones_241:

(Start: 1 @131812 has 11 MA's), (Start: 2 @131815 has 12 MA's), (Start: 4 @131830 has 143 MA's), (11, 131878), (14, 131929), (15, 131935), (21, 132058), (33, 132298), (34, 132304), (46, 132541),

Gene: EggyFarm_248 Start: 134675, Stop: 135403, Start Num: 4

Candidate Starts for EggyFarm_248:

(Start: 1 @134657 has 11 MA's), (Start: 2 @134660 has 12 MA's), (Start: 4 @134675 has 143 MA's), (11, 134723), (14, 134774), (15, 134780), (21, 134903), (33, 135143), (34, 135149), (46, 135386),

Gene: EmToTheThree_240 Start: 133213, Stop: 133941, Start Num: 4

Candidate Starts for EmToTheThree_240:

(Start: 1 @133195 has 11 MA's), (Start: 2 @133198 has 12 MA's), (Start: 4 @133213 has 143 MA's), (11, 133261), (14, 133312), (15, 133318), (21, 133441), (33, 133681), (34, 133687), (46, 133924),

Gene: EmmaElysia_245 Start: 134325, Stop: 135053, Start Num: 4

Candidate Starts for EmmaElysia_245:

(Start: 1 @134307 has 11 MA's), (Start: 2 @134310 has 12 MA's), (Start: 4 @134325 has 143 MA's), (11, 134373), (14, 134424), (15, 134430), (21, 134553), (33, 134793), (34, 134799), (46, 135036),

Gene: Erdmann_241 Start: 133181, Stop: 133909, Start Num: 4

Candidate Starts for Erdmann_241:

(Start: 1 @133163 has 11 MA's), (Start: 2 @133166 has 12 MA's), (Start: 4 @133181 has 143 MA's), (11, 133229), (14, 133280), (15, 133286), (21, 133409), (33, 133649), (34, 133655), (46, 133892),

Gene: ErnieJ_233 Start: 129991, Stop: 130737, Start Num: 1

Candidate Starts for ErnieJ_233:

(Start: 1 @129991 has 11 MA's), (Start: 2 @129994 has 12 MA's), (Start: 4 @130009 has 143 MA's), (11, 130057), (14, 130108), (15, 130114), (21, 130237), (33, 130477), (34, 130483), (46, 130720),

Gene: Essence_238 Start: 132666, Stop: 133394, Start Num: 4

Candidate Starts for Essence_238:

(Start: 1 @132648 has 11 MA's), (Start: 2 @132651 has 12 MA's), (Start: 4 @132666 has 143 MA's), (11, 132714), (14, 132765), (15, 132771), (21, 132894), (33, 133134), (34, 133140), (46, 133377),

Gene: Ewok_239 Start: 133124, Stop: 133852, Start Num: 4

Candidate Starts for Ewok_239:

(Start: 1 @133106 has 11 MA's), (Start: 2 @133109 has 12 MA's), (Start: 4 @133124 has 143 MA's), (11, 133172), (14, 133223), (15, 133229), (21, 133352), (33, 133592), (34, 133598), (46, 133835),

Gene: Flabslab_235 Start: 130018, Stop: 130746, Start Num: 4

Candidate Starts for Flabslab_235:

(Start: 4 @130018 has 143 MA's), (9, 130042), (11, 130066), (14, 130117), (15, 130123), (21, 130246), (33, 130486), (34, 130492), (46, 130729),

Gene: Fludd_240 Start: 131542, Stop: 132270, Start Num: 4

Candidate Starts for Fludd_240:

(Start: 1 @131524 has 11 MA's), (Start: 2 @131527 has 12 MA's), (Start: 4 @131542 has 143 MA's), (11, 131590), (14, 131641), (15, 131647), (21, 131770), (33, 132010), (34, 132016), (46, 132253),

Gene: FoxtrotP1_238 Start: 133767, Stop: 134495, Start Num: 4

Candidate Starts for FoxtrotP1_238:

(Start: 1 @133749 has 11 MA's), (Start: 2 @133752 has 12 MA's), (Start: 4 @133767 has 143 MA's), (11, 133815), (14, 133866), (15, 133872), (21, 133995), (33, 134235), (34, 134241), (46, 134478),

Gene: FrayBell_243 Start: 131742, Stop: 132470, Start Num: 4

Candidate Starts for FrayBell_243:

(Start: 1 @131724 has 11 MA's), (Start: 2 @131727 has 12 MA's), (Start: 4 @131742 has 143 MA's), (11, 131790), (14, 131841), (15, 131847), (21, 131970), (33, 132210), (34, 132216), (46, 132453),

Gene: FudgeTart_235 Start: 132256, Stop: 132999, Start Num: 2

Candidate Starts for FudgeTart_235:

(Start: 1 @132253 has 11 MA's), (Start: 2 @132256 has 12 MA's), (Start: 4 @132271 has 143 MA's), (11, 132319), (14, 132370), (15, 132376), (21, 132499), (33, 132739), (34, 132745), (46, 132982),

Gene: Gabriel_243 Start: 131701, Stop: 132429, Start Num: 4

Candidate Starts for Gabriel_243:

(Start: 1 @131683 has 11 MA's), (Start: 2 @131686 has 12 MA's), (Start: 4 @131701 has 143 MA's), (11, 131749), (14, 131800), (15, 131806), (21, 131929), (33, 132169), (34, 132175), (46, 132412),

Gene: Gamgam_242 Start: 132058, Stop: 132786, Start Num: 4

Candidate Starts for Gamgam_242:

(Start: 1 @132040 has 11 MA's), (Start: 2 @132043 has 12 MA's), (Start: 4 @132058 has 143 MA's), (11, 132106), (14, 132157), (15, 132163), (21, 132286), (33, 132526), (34, 132532), (46, 132769),

Gene: Ghost_240 Start: 132682, Stop: 133410, Start Num: 4

Candidate Starts for Ghost_240:

(Start: 1 @132664 has 11 MA's), (Start: 2 @132667 has 12 MA's), (Start: 4 @132682 has 143 MA's), (11, 132730), (14, 132781), (15, 132787), (21, 132910), (33, 133150), (34, 133156), (46, 133393),

Gene: Gizmo_245 Start: 135098, Stop: 135826, Start Num: 4

Candidate Starts for Gizmo_245:

(Start: 1 @135080 has 11 MA's), (Start: 2 @135083 has 12 MA's), (Start: 4 @135098 has 143 MA's), (11, 135146), (14, 135197), (15, 135203), (21, 135326), (33, 135566), (34, 135572), (46, 135809),

Gene: Grasshills_247 Start: 134674, Stop: 135402, Start Num: 4

Candidate Starts for Grasshills_247:

(Start: 1 @134656 has 11 MA's), (Start: 2 @134659 has 12 MA's), (Start: 4 @134674 has 143 MA's), (11, 134722), (14, 134773), (15, 134779), (21, 134902), (33, 135142), (34, 135148), (46, 135385),

Gene: Grungle_222 Start: 130016, Stop: 130744, Start Num: 4

Candidate Starts for Grungle_222:

(Start: 1 @129998 has 11 MA's), (Start: 2 @130001 has 12 MA's), (Start: 4 @130016 has 143 MA's), (11, 130064), (14, 130115), (15, 130121), (21, 130244), (33, 130484), (34, 130490), (46, 130727),

Gene: Guwapp_236 Start: 131516, Stop: 132244, Start Num: 4

Candidate Starts for Guwapp_236:

(Start: 1 @131498 has 11 MA's), (Start: 2 @131501 has 12 MA's), (Start: 4 @131516 has 143 MA's), (11, 131564), (14, 131615), (15, 131621), (21, 131744), (33, 131984), (34, 131990), (46, 132227),

Gene: HyRo_226 Start: 132480, Stop: 133208, Start Num: 4

Candidate Starts for HyRo_226:

(Start: 4 @132480 has 143 MA's), (9, 132504), (11, 132528), (14, 132579), (15, 132585), (21, 132708), (33, 132948), (34, 132954), (46, 133191),

Gene: I3_250 Start: 133884, Stop: 134612, Start Num: 4

Candidate Starts for I3_250:

(Start: 1 @133866 has 11 MA's), (Start: 2 @133869 has 12 MA's), (Start: 4 @133884 has 143 MA's), (11, 133932), (14, 133983), (15, 133989), (21, 134112), (33, 134352), (34, 134358), (46, 134595),

Gene: IkeLoa_234 Start: 132414, Stop: 133142, Start Num: 4

Candidate Starts for IkeLoa_234:

(Start: 1 @132396 has 11 MA's), (Start: 2 @132399 has 12 MA's), (Start: 4 @132414 has 143 MA's), (11, 132462), (14, 132513), (15, 132519), (21, 132642), (33, 132882), (34, 132888), (46, 133125),

Gene: InigoMontoya_244 Start: 132732, Stop: 133460, Start Num: 4

Candidate Starts for InigoMontoya_244:

(Start: 1 @132714 has 11 MA's), (Start: 2 @132717 has 12 MA's), (Start: 4 @132732 has 143 MA's), (11, 132780), (14, 132831), (15, 132837), (21, 132960), (33, 133200), (34, 133206), (46, 133443),

Gene: InterFolia_242 Start: 133547, Stop: 134275, Start Num: 4

Candidate Starts for InterFolia_242:

(Start: 1 @133529 has 11 MA's), (Start: 2 @133532 has 12 MA's), (Start: 4 @133547 has 143 MA's), (11, 133595), (14, 133646), (15, 133652), (21, 133775), (33, 134015), (34, 134021), (46, 134258),

Gene: Iota_237 Start: 132444, Stop: 133172, Start Num: 4

Candidate Starts for Iota_237:

(Start: 1 @132426 has 11 MA's), (Start: 2 @132429 has 12 MA's), (Start: 4 @132444 has 143 MA's), (11, 132492), (14, 132543), (15, 132549), (21, 132672), (33, 132912), (34, 132918), (46, 133155),

Gene: Issimir_235 Start: 132370, Stop: 133098, Start Num: 4

Candidate Starts for Issimir_235:

(Start: 1 @132352 has 11 MA's), (Start: 2 @132355 has 12 MA's), (Start: 4 @132370 has 143 MA's), (11, 132418), (14, 132469), (15, 132475), (21, 132598), (33, 132838), (34, 132844), (46, 133081),

Gene: Izajani_236 Start: 133264, Stop: 133992, Start Num: 4

Candidate Starts for Izajani_236:

(Start: 1 @133246 has 11 MA's), (Start: 2 @133249 has 12 MA's), (Start: 4 @133264 has 143 MA's), (11, 133312), (14, 133363), (15, 133369), (21, 133492), (33, 133732), (34, 133738), (46, 133975),

Gene: JPickles_237 Start: 131405, Stop: 132148, Start Num: 2

Candidate Starts for JPickles_237:

(Start: 1 @131402 has 11 MA's), (Start: 2 @131405 has 12 MA's), (Start: 4 @131420 has 143 MA's), (11, 131468), (14, 131519), (15, 131525), (21, 131648), (33, 131888), (34, 131894), (46, 132131),

Gene: Janiyra_243 Start: 132957, Stop: 133685, Start Num: 4

Candidate Starts for Janiyra_243:

(Start: 1 @132939 has 11 MA's), (Start: 2 @132942 has 12 MA's), (Start: 4 @132957 has 143 MA's), (11, 133005), (14, 133056), (15, 133062), (21, 133185), (33, 133425), (34, 133431), (46, 133668),

Gene: JayJay_237 Start: 132520, Stop: 133248, Start Num: 4

Candidate Starts for JayJay_237:

(Start: 4 @132520 has 143 MA's), (9, 132544), (11, 132568), (14, 132619), (15, 132625), (21, 132748), (33, 132988), (34, 132994), (46, 133231),

Gene: Jaygup_237 Start: 132591, Stop: 133319, Start Num: 4

Candidate Starts for Jaygup_237:

(Start: 1 @132573 has 11 MA's), (Start: 2 @132576 has 12 MA's), (Start: 4 @132591 has 143 MA's), (11, 132639), (14, 132690), (15, 132696), (21, 132819), (33, 133059), (34, 133065), (46, 133302),

Gene: Jedediah_242 Start: 133644, Stop: 134372, Start Num: 4

Candidate Starts for Jedediah_242:

(Start: 1 @133626 has 11 MA's), (Start: 2 @133629 has 12 MA's), (Start: 4 @133644 has 143 MA's), (11, 133692), (14, 133743), (15, 133749), (21, 133872), (33, 134112), (34, 134118), (46, 134355),

Gene: Jemmno_240 Start: 132348, Stop: 133091, Start Num: 2

Candidate Starts for Jemmno_240:

(Start: 1 @132345 has 11 MA's), (Start: 2 @132348 has 12 MA's), (Start: 4 @132363 has 143 MA's), (11, 132411), (14, 132462), (15, 132468), (21, 132591), (33, 132831), (34, 132837), (46, 133074),

Gene: Jessibeth14_240 Start: 133839, Stop: 134567, Start Num: 4

Candidate Starts for Jessibeth14_240:

(Start: 1 @133821 has 11 MA's), (Start: 2 @133824 has 12 MA's), (Start: 4 @133839 has 143 MA's), (11, 133887), (14, 133938), (15, 133944), (21, 134067), (33, 134307), (34, 134313), (46, 134550),

Gene: JonJames_25 Start: 8378, Stop: 9052, Start Num: 12

Candidate Starts for JonJames_25:

(Start: 1 @8300 has 11 MA's), (7, 8327), (9, 8345), (Start: 12 @8378 has 1 MA's), (13, 8381), (15, 8432), (21, 8564), (23, 8594), (37, 8849), (41, 8924), (42, 8933), (43, 9002), (44, 9008), (45, 9011),

Gene: JulietS_232 Start: 129943, Stop: 130671, Start Num: 4

Candidate Starts for JulietS_232:

(Start: 1 @129925 has 11 MA's), (Start: 2 @129928 has 12 MA's), (Start: 4 @129943 has 143 MA's), (11, 129991), (14, 130042), (15, 130048), (21, 130171), (33, 130411), (34, 130417), (46, 130654),

Gene: JustHall_234 Start: 131893, Stop: 132621, Start Num: 4

Candidate Starts for JustHall_234:

(Start: 1 @131875 has 11 MA's), (Start: 2 @131878 has 12 MA's), (Start: 4 @131893 has 143 MA's), (11, 131941), (14, 131992), (15, 131998), (21, 132121), (33, 132361), (34, 132367), (46, 132604),

Gene: Kamryn_239 Start: 133483, Stop: 134211, Start Num: 4

Candidate Starts for Kamryn_239:

(Start: 1 @133465 has 11 MA's), (Start: 2 @133468 has 12 MA's), (Start: 4 @133483 has 143 MA's), (11, 133531), (14, 133582), (15, 133588), (21, 133711), (33, 133951), (34, 133957), (46, 134194),

Gene: Kboogie_244 Start: 132522, Stop: 133250, Start Num: 4

Candidate Starts for Kboogie_244:

(Start: 1 @132504 has 11 MA's), (Start: 2 @132507 has 12 MA's), (Start: 4 @132522 has 143 MA's), (11, 132570), (14, 132621), (15, 132627), (21, 132750), (33, 132990), (34, 132996), (46, 133233),

Gene: Khaleesi_239 Start: 133306, Stop: 134034, Start Num: 4

Candidate Starts for Khaleesi_239:

(Start: 1 @133288 has 11 MA's), (Start: 2 @133291 has 12 MA's), (Start: 4 @133306 has 143 MA's), (11, 133354), (14, 133405), (15, 133411), (21, 133534), (33, 133774), (34, 133780), (46, 134017),

Gene: Koguma_239 Start: 132160, Stop: 132903, Start Num: 2

Candidate Starts for Koguma_239:

(Start: 1 @132157 has 11 MA's), (Start: 2 @132160 has 12 MA's), (Start: 4 @132175 has 143 MA's), (11, 132223), (14, 132274), (15, 132280), (21, 132403), (33, 132643), (34, 132649), (46, 132886),

Gene: LRRHood_232 Start: 131515, Stop: 132243, Start Num: 4

Candidate Starts for LRRHood_232:

(Start: 1 @131497 has 11 MA's), (Start: 2 @131500 has 12 MA's), (Start: 4 @131515 has 143 MA's), (11, 131563), (14, 131614), (15, 131620), (21, 131743), (33, 131983), (34, 131989), (46, 132226),

Gene: Latch_240 Start: 132068, Stop: 132796, Start Num: 4

Candidate Starts for Latch_240:

(Start: 1 @132050 has 11 MA's), (Start: 2 @132053 has 12 MA's), (Start: 4 @132068 has 143 MA's), (11, 132116), (14, 132167), (15, 132173), (21, 132296), (33, 132536), (34, 132542), (46, 132779),

Gene: Lee7_239 Start: 134720, Stop: 135448, Start Num: 4

Candidate Starts for Lee7_239:

(Start: 1 @134702 has 11 MA's), (Start: 2 @134705 has 12 MA's), (Start: 4 @134720 has 143 MA's), (11, 134768), (14, 134819), (15, 134825), (21, 134948), (33, 135188), (34, 135194), (46, 135431),

Gene: LifeSavor_241 Start: 133296, Stop: 134024, Start Num: 4

Candidate Starts for LifeSavor_241:

(Start: 1 @133278 has 11 MA's), (Start: 2 @133281 has 12 MA's), (Start: 4 @133296 has 143 MA's), (11, 133344), (14, 133395), (15, 133401), (21, 133524), (33, 133764), (34, 133770),

Gene: LinStu_237 Start: 131474, Stop: 132202, Start Num: 4

Candidate Starts for LinStu_237:

(Start: 4 @131474 has 143 MA's), (11, 131522), (14, 131573), (15, 131579), (21, 131702), (33, 131942), (34, 131948), (46, 132185),

Gene: LittleE_18 Start: 12962, Stop: 13684, Start Num: 5

Candidate Starts for LittleE_18:

(3, 12950), (Start: 5 @12962 has 2 MA's), (Start: 6 @12965 has 1 MA's), (13, 13019), (18, 13118), (19, 13139), (24, 13253), (25, 13274), (26, 13280), (28, 13334), (30, 13385), (31, 13394), (32, 13418), (35, 13439), (36, 13448), (38, 13499), (39, 13517), (40, 13541),

Gene: Littleton_244 Start: 133305, Stop: 134033, Start Num: 4

Candidate Starts for Littleton_244:

(Start: 1 @133287 has 11 MA's), (Start: 2 @133290 has 12 MA's), (Start: 4 @133305 has 143 MA's), (11, 133353), (14, 133404), (15, 133410), (21, 133533), (33, 133773), (34, 133779), (46, 134016),

Gene: Loanshark_237 Start: 132655, Stop: 133383, Start Num: 4

Candidate Starts for Loanshark_237:

(Start: 1 @132637 has 11 MA's), (Start: 2 @132640 has 12 MA's), (Start: 4 @132655 has 143 MA's), (11, 132703), (14, 132754), (15, 132760), (21, 132883), (33, 133123), (34, 133129), (46, 133366),

Gene: LolaVinca_236 Start: 132977, Stop: 133705, Start Num: 4

Candidate Starts for LolaVinca_236:

(Start: 1 @132959 has 11 MA's), (Start: 2 @132962 has 12 MA's), (Start: 4 @132977 has 143 MA's), (11, 133025), (14, 133076), (15, 133082), (21, 133205), (33, 133445), (34, 133451), (46, 133688),

Gene: LordLeafolot_242 Start: 132590, Stop: 133318, Start Num: 4

Candidate Starts for LordLeafolot_242:

(Start: 1 @132572 has 11 MA's), (Start: 2 @132575 has 12 MA's), (Start: 4 @132590 has 143 MA's), (11, 132638), (14, 132689), (15, 132695), (21, 132818), (33, 133058), (34, 133064), (46, 133301),

Gene: Lucky2013_18 Start: 11705, Stop: 12427, Start Num: 5

Candidate Starts for Lucky2013_18:

(3, 11693), (Start: 5 @11705 has 2 MA's), (Start: 6 @11708 has 1 MA's), (13, 11762), (18, 11861), (19, 11882), (24, 11996), (25, 12017), (26, 12023), (28, 12077), (30, 12128), (31, 12137), (32, 12161), (35, 12182), (36, 12191), (38, 12242), (39, 12260), (40, 12284),

Gene: Lukilu_229 Start: 133531, Stop: 134259, Start Num: 4

Candidate Starts for Lukilu_229:

(Start: 1 @133513 has 11 MA's), (Start: 2 @133516 has 12 MA's), (Start: 4 @133531 has 143 MA's), (11, 133579), (14, 133630), (15, 133636), (21, 133759), (33, 133999), (34, 134005), (46, 134242),

Gene: Maby2021_240 Start: 133759, Stop: 134487, Start Num: 4

Candidate Starts for Maby2021_240:

(Start: 1 @133741 has 11 MA's), (Start: 2 @133744 has 12 MA's), (Start: 4 @133759 has 143 MA's), (11, 133807), (14, 133858), (15, 133864), (21, 133987), (33, 134227), (34, 134233), (46, 134470),

Gene: Mangeria_240 Start: 133534, Stop: 134262, Start Num: 4

Candidate Starts for Mangeria_240:

(Start: 4 @133534 has 143 MA's), (11, 133582), (14, 133633), (15, 133639), (21, 133762), (33, 134002), (34, 134008), (46, 134245),

Gene: Matsumoto_238 Start: 132510, Stop: 133238, Start Num: 4

Candidate Starts for Matsumoto_238:

(Start: 1 @132492 has 11 MA's), (Start: 2 @132495 has 12 MA's), (Start: 4 @132510 has 143 MA's), (11, 132558), (14, 132609), (15, 132615), (21, 132738), (33, 132978), (34, 132984), (46, 133221),

Gene: McGee_241 Start: 132389, Stop: 133135, Start Num: 1

Candidate Starts for McGee_241:

(Start: 1 @132389 has 11 MA's), (Start: 2 @132392 has 12 MA's), (Start: 4 @132407 has 143 MA's), (11, 132455), (14, 132506), (15, 132512), (21, 132635), (33, 132875), (34, 132881), (46, 133118),

Gene: McWolfish_237 Start: 132517, Stop: 133245, Start Num: 4

Candidate Starts for McWolfish_237:

(Start: 1 @132499 has 11 MA's), (Start: 2 @132502 has 12 MA's), (Start: 4 @132517 has 143 MA's), (11, 132565), (14, 132616), (15, 132622), (21, 132745), (33, 132985), (34, 132991), (46, 133228),

Gene: Megamind_237 Start: 132827, Stop: 133570, Start Num: 2

Candidate Starts for Megamind_237:

(Start: 1 @132824 has 11 MA's), (Start: 2 @132827 has 12 MA's), (Start: 4 @132842 has 143 MA's), (11, 132890), (14, 132941), (15, 132947), (21, 133070), (33, 133310), (34, 133316), (46, 133553),

Gene: Melpomini_235 Start: 131602, Stop: 132330, Start Num: 4

Candidate Starts for Melpomini_235:

(Start: 1 @131584 has 11 MA's), (Start: 2 @131587 has 12 MA's), (Start: 4 @131602 has 143 MA's), (11, 131650), (14, 131701), (15, 131707), (21, 131830), (33, 132070), (34, 132076), (46, 132313),

Gene: MikeLiesIn_241 Start: 133978, Stop: 134706, Start Num: 4

Candidate Starts for MikeLiesIn_241:

(Start: 1 @133960 has 11 MA's), (Start: 2 @133963 has 12 MA's), (Start: 4 @133978 has 143 MA's), (11, 134026), (14, 134077), (15, 134083), (21, 134206), (33, 134446), (34, 134452), (46, 134689),

Gene: Mikro_234 Start: 134490, Stop: 135218, Start Num: 4

Candidate Starts for Mikro_234:

(Start: 1 @134472 has 11 MA's), (Start: 2 @134475 has 12 MA's), (Start: 4 @134490 has 143 MA's), (11, 134538), (14, 134589), (15, 134595), (21, 134718), (33, 134958), (34, 134964), (46, 135201),

Gene: MoMoMixon_236 Start: 132983, Stop: 133711, Start Num: 4

Candidate Starts for MoMoMixon_236:

(Start: 1 @132965 has 11 MA's), (Start: 2 @132968 has 12 MA's), (Start: 4 @132983 has 143 MA's), (11, 133031), (14, 133082), (15, 133088), (21, 133211), (22, 133238), (33, 133451), (34, 133457), (46, 133694),

Gene: Momo_242 Start: 132068, Stop: 132796, Start Num: 4

Candidate Starts for Momo_242:

(Start: 1 @132050 has 11 MA's), (Start: 2 @132053 has 12 MA's), (Start: 4 @132068 has 143 MA's), (11, 132116), (14, 132167), (15, 132173), (21, 132296), (33, 132536), (34, 132542), (46, 132779),

Gene: Morizzled23_237 Start: 131435, Stop: 132163, Start Num: 4

Candidate Starts for Morizzled23_237:

(Start: 1 @131417 has 11 MA's), (Start: 2 @131420 has 12 MA's), (Start: 4 @131435 has 143 MA's), (11, 131483), (14, 131534), (15, 131540), (21, 131663), (33, 131903), (34, 131909), (46, 132146),

Gene: Naija_241 Start: 132771, Stop: 133499, Start Num: 4

Candidate Starts for Naija_241:

(Start: 1 @132753 has 11 MA's), (Start: 2 @132756 has 12 MA's), (Start: 4 @132771 has 143 MA's), (11, 132819), (14, 132870), (15, 132876), (21, 132999), (33, 133239), (34, 133245), (46, 133482),

Gene: Napoleon13_237 Start: 131800, Stop: 132528, Start Num: 4

Candidate Starts for Napoleon13_237:

(Start: 1 @131782 has 11 MA's), (Start: 2 @131785 has 12 MA's), (Start: 4 @131800 has 143 MA's), (11, 131848), (14, 131899), (15, 131905), (21, 132028), (33, 132268), (34, 132274), (46, 132511),

Gene: Nappy_239 Start: 133946, Stop: 134674, Start Num: 4

Candidate Starts for Nappy_239:

(Start: 4 @133946 has 143 MA's), (11, 133994), (14, 134045), (15, 134051), (21, 134174), (30, 134372), (33, 134414), (34, 134420), (46, 134657),

Gene: Naval22_245 Start: 134551, Stop: 135279, Start Num: 4

Candidate Starts for Naval22_245:

(Start: 1 @134533 has 11 MA's), (Start: 2 @134536 has 12 MA's), (Start: 4 @134551 has 143 MA's), (11, 134599), (14, 134650), (15, 134656), (21, 134779), (33, 135019), (34, 135025), (46, 135262),

Gene: NedWong_239 Start: 133229, Stop: 133957, Start Num: 4

Candidate Starts for NedWong_239:

(Start: 1 @133211 has 11 MA's), (Start: 2 @133214 has 12 MA's), (Start: 4 @133229 has 143 MA's), (11, 133277), (14, 133328), (15, 133334), (21, 133457), (33, 133697), (34, 133703), (46, 133940),

Gene: Ngannou_235 Start: 131753, Stop: 132481, Start Num: 4

Candidate Starts for Ngannou_235:

(Start: 1 @131735 has 11 MA's), (Start: 2 @131738 has 12 MA's), (Start: 4 @131753 has 143 MA's), (11, 131801), (14, 131852), (15, 131858), (21, 131981), (33, 132221), (34, 132227), (46, 132464),

Gene: Nidhogg_241 Start: 133597, Stop: 134325, Start Num: 4

Candidate Starts for Nidhogg_241:

(Start: 1 @133579 has 11 MA's), (Start: 2 @133582 has 12 MA's), (Start: 4 @133597 has 143 MA's), (11, 133645), (14, 133696), (15, 133702), (21, 133825), (33, 134065), (34, 134071), (46, 134308),

Gene: Norm_240 Start: 133498, Stop: 134226, Start Num: 4

Candidate Starts for Norm_240:

(Start: 1 @133480 has 11 MA's), (Start: 2 @133483 has 12 MA's), (Start: 4 @133498 has 143 MA's), (11, 133546), (14, 133597), (15, 133603), (21, 133726), (33, 133966), (34, 133972), (46, 134209),

Gene: NuevoMundo_242 Start: 134053, Stop: 134781, Start Num: 4

Candidate Starts for NuevoMundo_242:

(Start: 1 @134035 has 11 MA's), (Start: 2 @134038 has 12 MA's), (Start: 4 @134053 has 143 MA's), (11, 134101), (14, 134152), (15, 134158), (21, 134281), (33, 134521), (34, 134527), (46, 134764),

Gene: ParkTD_239 Start: 133068, Stop: 133796, Start Num: 4

Candidate Starts for ParkTD_239:

(Start: 1 @133050 has 11 MA's), (Start: 2 @133053 has 12 MA's), (Start: 4 @133068 has 143 MA's), (11, 133116), (14, 133167), (15, 133173), (21, 133296), (33, 133536), (34, 133542), (46, 133779),

Gene: Patter_242 Start: 132797, Stop: 133525, Start Num: 4

Candidate Starts for Patter_242:

(Start: 1 @132779 has 11 MA's), (Start: 2 @132782 has 12 MA's), (Start: 4 @132797 has 143 MA's), (11, 132845), (14, 132896), (15, 132902), (21, 133025), (33, 133265), (34, 133271), (46, 133508),

Gene: Phlegm_245 Start: 133474, Stop: 134202, Start Num: 4

Candidate Starts for Phlegm_245:

(Start: 1 @133456 has 11 MA's), (Start: 2 @133459 has 12 MA's), (Start: 4 @133474 has 143 MA's), (11, 133522), (14, 133573), (15, 133579), (21, 133702), (33, 133942), (34, 133948), (46, 134185),

Gene: Phox_241 Start: 132723, Stop: 133451, Start Num: 4

Candidate Starts for Phox_241:

(Start: 1 @132705 has 11 MA's), (Start: 2 @132708 has 12 MA's), (Start: 4 @132723 has 143 MA's), (11, 132771), (14, 132822), (15, 132828), (21, 132951), (33, 133191), (34, 133197), (46, 133434),

Gene: Phusco_239 Start: 132306, Stop: 133034, Start Num: 4

Candidate Starts for Phusco_239:

(Start: 1 @132288 has 11 MA's), (Start: 2 @132291 has 12 MA's), (Start: 4 @132306 has 143 MA's), (11, 132354), (14, 132405), (15, 132411), (21, 132534), (33, 132774), (34, 132780), (46, 133017),

Gene: Pier_239 Start: 133599, Stop: 134327, Start Num: 4

Candidate Starts for Pier_239:

(Start: 1 @133581 has 11 MA's), (Start: 2 @133584 has 12 MA's), (Start: 4 @133599 has 143 MA's), (11, 133647), (14, 133698), (15, 133704), (21, 133827), (33, 134067), (34, 134073), (46, 134310),

Gene: Pinkcreek_221 Start: 130343, Stop: 131071, Start Num: 4

Candidate Starts for Pinkcreek_221:

(Start: 4 @130343 has 143 MA's), (9, 130367), (11, 130391), (14, 130442), (15, 130448), (21, 130571), (33, 130811), (34, 130817), (46, 131054),

Gene: Pio_247 Start: 134802, Stop: 135530, Start Num: 4

Candidate Starts for Pio_247:

(Start: 1 @134784 has 11 MA's), (Start: 2 @134787 has 12 MA's), (Start: 4 @134802 has 143 MA's), (11, 134850), (14, 134901), (15, 134907), (21, 135030), (33, 135270), (34, 135276), (46, 135513),

Gene: Pivoine_241 Start: 132771, Stop: 133499, Start Num: 4

Candidate Starts for Pivoine_241:

(Start: 1 @132753 has 11 MA's), (Start: 2 @132756 has 12 MA's), (Start: 4 @132771 has 143 MA's), (11, 132819), (14, 132870), (15, 132876), (21, 132999), (33, 133239), (34, 133245), (46, 133482),

Gene: Pleione_244 Start: 133516, Stop: 134262, Start Num: 1

Candidate Starts for Pleione_244:

(Start: 1 @133516 has 11 MA's), (Start: 2 @133519 has 12 MA's), (Start: 4 @133534 has 143 MA's), (11, 133582), (14, 133633), (15, 133639), (21, 133762), (33, 134002), (34, 134008), (46, 134245),

Gene: PurduePete_240 Start: 133799, Stop: 134527, Start Num: 4

Candidate Starts for PurduePete_240:

(Start: 1 @133781 has 11 MA's), (Start: 2 @133784 has 12 MA's), (Start: 4 @133799 has 143 MA's), (11, 133847), (14, 133898), (15, 133904), (21, 134027), (33, 134267), (34, 134273), (46, 134510),

Gene: QBert_232 Start: 131122, Stop: 131850, Start Num: 4

Candidate Starts for QBert_232:

(Start: 1 @131104 has 11 MA's), (Start: 2 @131107 has 12 MA's), (Start: 4 @131122 has 143 MA's), (11, 131170), (14, 131221), (15, 131227), (21, 131350), (33, 131590), (34, 131596), (46, 131833),

Gene: Quasimodo_243 Start: 133107, Stop: 133835, Start Num: 4

Candidate Starts for Quasimodo_243:

(Start: 1 @133089 has 11 MA's), (Start: 2 @133092 has 12 MA's), (Start: 4 @133107 has 143 MA's), (11, 133155), (14, 133206), (15, 133212), (21, 133335), (33, 133575), (34, 133581), (46, 133818),

Gene: Rabinovish_233 Start: 132018, Stop: 132746, Start Num: 4

Candidate Starts for Rabinovish_233:

(Start: 4 @132018 has 143 MA's), (9, 132042), (11, 132066), (14, 132117), (15, 132123), (21, 132246), (33, 132486), (34, 132492), (46, 132729),

Gene: Rahel_242 Start: 133209, Stop: 133937, Start Num: 4

Candidate Starts for Rahel_242:

(Start: 1 @133191 has 11 MA's), (Start: 2 @133194 has 12 MA's), (Start: 4 @133209 has 143 MA's), (11, 133257), (14, 133308), (15, 133314), (21, 133437), (33, 133677), (34, 133683), (46, 133920),

Gene: Rizal_229 Start: 131006, Stop: 131752, Start Num: 1

Candidate Starts for Rizal_229:

(Start: 1 @131006 has 11 MA's), (Start: 2 @131009 has 12 MA's), (Start: 4 @131024 has 143 MA's), (11, 131072), (14, 131123), (15, 131129), (21, 131252), (33, 131492), (34, 131498), (46, 131735),

Gene: RoMag_235 Start: 132805, Stop: 133533, Start Num: 4

Candidate Starts for RoMag_235:

(Start: 1 @132787 has 11 MA's), (Start: 2 @132790 has 12 MA's), (Start: 4 @132805 has 143 MA's), (11, 132853), (14, 132904), (15, 132910), (21, 133033), (33, 133273), (34, 133279), (46, 133516),

Gene: Ronan_236 Start: 131206, Stop: 131934, Start Num: 4

Candidate Starts for Ronan_236:

(Start: 1 @131188 has 11 MA's), (Start: 2 @131191 has 12 MA's), (Start: 4 @131206 has 143 MA's), (11, 131254), (14, 131305), (15, 131311), (21, 131434), (33, 131674), (34, 131680), (46, 131917),

Gene: Roots515_243 Start: 134332, Stop: 135078, Start Num: 1

Candidate Starts for Roots515_243:

(Start: 1 @134332 has 11 MA's), (Start: 2 @134335 has 12 MA's), (Start: 4 @134350 has 143 MA's), (11, 134398), (14, 134449), (15, 134455), (21, 134578), (33, 134818), (34, 134824), (46, 135061),

Gene: Salacia_241 Start: 134225, Stop: 134953, Start Num: 4

Candidate Starts for Salacia_241:

(Start: 1 @134207 has 11 MA's), (Start: 2 @134210 has 12 MA's), (Start: 4 @134225 has 143 MA's), (11, 134273), (14, 134324), (15, 134330), (21, 134453), (33, 134693), (34, 134699), (46, 134936),

Gene: Sauce_237 Start: 132533, Stop: 133261, Start Num: 4

Candidate Starts for Sauce_237:

(Start: 1 @132515 has 11 MA's), (Start: 2 @132518 has 12 MA's), (Start: 4 @132533 has 143 MA's), (11, 132581), (14, 132632), (15, 132638), (21, 132761), (33, 133001), (34, 133007), (46, 133244),

Gene: ScottMcG_232 Start: 131803, Stop: 132531, Start Num: 4

Candidate Starts for ScottMcG_232:

(Start: 1 @131785 has 11 MA's), (Start: 2 @131788 has 12 MA's), (Start: 4 @131803 has 143 MA's), (11, 131851), (14, 131902), (15, 131908), (21, 132031), (33, 132271), (34, 132277), (46, 132514),

Gene: Sebata_241 Start: 133711, Stop: 134439, Start Num: 4

Candidate Starts for Sebata_241:

(Start: 4 @133711 has 143 MA's), (9, 133735), (11, 133759), (14, 133810), (15, 133816), (21, 133939), (33, 134179), (34, 134185), (46, 134422),

Gene: Shaqnato_231 Start: 131943, Stop: 132671, Start Num: 4

Candidate Starts for Shaqnato_231:

(Start: 1 @131925 has 11 MA's), (Start: 2 @131928 has 12 MA's), (Start: 4 @131943 has 143 MA's), (11, 131991), (14, 132042), (15, 132048), (21, 132171), (33, 132411), (34, 132417), (46, 132654),

Gene: Shelob_241 Start: 134668, Stop: 135396, Start Num: 4

Candidate Starts for Shelob_241:

(Start: 1 @134650 has 11 MA's), (Start: 2 @134653 has 12 MA's), (Start: 4 @134668 has 143 MA's), (11, 134716), (14, 134767), (15, 134773), (21, 134896), (33, 135136), (34, 135142), (46, 135379),

Gene: ShiaLabeouf_238 Start: 132527, Stop: 133255, Start Num: 4

Candidate Starts for ShiaLabeouf_238:

(Start: 1 @132509 has 11 MA's), (Start: 2 @132512 has 12 MA's), (Start: 4 @132527 has 143 MA's), (11, 132575), (14, 132626), (15, 132632), (21, 132755), (33, 132995), (34, 133001), (46, 133238),

Gene: Shifa_218 Start: 132448, Stop: 133176, Start Num: 4

Candidate Starts for Shifa_218:

(Start: 4 @132448 has 143 MA's), (9, 132472), (11, 132496), (14, 132547), (15, 132553), (21, 132676), (33, 132916), (34, 132922), (46, 133159),

Gene: Shnickers_239 Start: 132591, Stop: 133319, Start Num: 4

Candidate Starts for Shnickers_239:

(Start: 1 @132573 has 11 MA's), (Start: 2 @132576 has 12 MA's), (Start: 4 @132591 has 143 MA's), (11, 132639), (14, 132690), (15, 132696), (21, 132819), (33, 133059), (34, 133065), (46, 133302),

Gene: Shrimp_242 Start: 133836, Stop: 134564, Start Num: 4

Candidate Starts for Shrimp_242:

(Start: 1 @133818 has 11 MA's), (Start: 2 @133821 has 12 MA's), (Start: 4 @133836 has 143 MA's), (11, 133884), (14, 133935), (15, 133941), (21, 134064), (33, 134304), (34, 134310), (46, 134547),

Gene: SilverDipper_245 Start: 133327, Stop: 134055, Start Num: 4

Candidate Starts for SilverDipper_245:

(Start: 1 @133309 has 11 MA's), (Start: 2 @133312 has 12 MA's), (Start: 4 @133327 has 143 MA's), (11, 133375), (14, 133426), (15, 133432), (21, 133555), (33, 133795), (34, 133801), (46, 134038),

Gene: SmallFry_241 Start: 132685, Stop: 133413, Start Num: 4

Candidate Starts for SmallFry_241:

(Start: 1 @132667 has 11 MA's), (Start: 2 @132670 has 12 MA's), (Start: 4 @132685 has 143 MA's), (11, 132733), (14, 132784), (15, 132790), (21, 132913), (33, 133153), (34, 133159), (46, 133396),

Gene: Spec_234 Start: 132766, Stop: 133494, Start Num: 4

Candidate Starts for Spec_234:

(Start: 1 @132748 has 11 MA's), (Start: 2 @132751 has 12 MA's), (Start: 4 @132766 has 143 MA's), (11, 132814), (14, 132865), (15, 132871), (21, 132994), (33, 133234), (34, 133240), (46, 133477),

Gene: Specks_244 Start: 133176, Stop: 133904, Start Num: 4

Candidate Starts for Specks_244:

(Start: 1 @133158 has 11 MA's), (Start: 2 @133161 has 12 MA's), (Start: 4 @133176 has 143 MA's), (11, 133224), (14, 133275), (15, 133281), (21, 133404), (33, 133644), (34, 133650), (46, 133887),

Gene: Sprinklers_238 Start: 132433, Stop: 133161, Start Num: 4

Candidate Starts for Sprinklers_238:

(Start: 1 @132415 has 11 MA's), (Start: 2 @132418 has 12 MA's), (Start: 4 @132433 has 143 MA's), (11, 132481), (14, 132532), (15, 132538), (21, 132661), (33, 132901), (34, 132907), (46, 133144),

Gene: Spud_232 Start: 132127, Stop: 132870, Start Num: 2

Candidate Starts for Spud_232:

(Start: 1 @132124 has 11 MA's), (Start: 2 @132127 has 12 MA's), (Start: 4 @132142 has 143 MA's), (11, 132190), (14, 132241), (15, 132247), (21, 132370), (33, 132610), (34, 132616), (46, 132853),

Gene: Squint_18 Start: 11525, Stop: 12244, Start Num: 6

Candidate Starts for Squint_18:

(3, 11510), (Start: 5 @11522 has 2 MA's), (Start: 6 @11525 has 1 MA's), (13, 11579), (18, 11678), (19, 11699), (24, 11813), (25, 11834), (26, 11840), (28, 11894), (30, 11945), (31, 11954), (32, 11978), (35, 11999), (36, 12008), (38, 12059), (39, 12077), (40, 12101),

Gene: SrishMeg2525_237 Start: 133331, Stop: 134059, Start Num: 4

Candidate Starts for SrishMeg2525_237:

(Start: 1 @133313 has 11 MA's), (Start: 2 @133316 has 12 MA's), (Start: 4 @133331 has 143 MA's), (11, 133379), (14, 133430), (15, 133436), (21, 133559), (33, 133799), (34, 133805), (46, 134042),

Gene: StephanieG_234 Start: 133328, Stop: 134056, Start Num: 4

Candidate Starts for StephanieG_234:

(Start: 1 @133310 has 11 MA's), (Start: 2 @133313 has 12 MA's), (Start: 4 @133328 has 143 MA's), (11, 133376), (14, 133427), (15, 133433), (21, 133556), (33, 133796), (34, 133802), (46, 134039),

Gene: Stubby_223 Start: 130528, Stop: 131256, Start Num: 4

Candidate Starts for Stubby_223:

(Start: 4 @130528 has 143 MA's), (9, 130552), (11, 130576), (14, 130627), (15, 130633), (21, 130756), (33, 130996), (34, 131002), (46, 131239),

Gene: StubbySaigey_246 Start: 132846, Stop: 133589, Start Num: 2

Candidate Starts for StubbySaigey_246:

(Start: 1 @132843 has 11 MA's), (Start: 2 @132846 has 12 MA's), (Start: 4 @132861 has 143 MA's), (11, 132909), (14, 132960), (15, 132966), (21, 133089), (33, 133329), (34, 133335), (46, 133572),

Gene: Teardrop_238 Start: 132188, Stop: 132916, Start Num: 4

Candidate Starts for Teardrop_238:

(Start: 1 @132170 has 11 MA's), (Start: 2 @132173 has 12 MA's), (Start: 4 @132188 has 143 MA's), (11, 132236), (14, 132287), (15, 132293), (21, 132416), (33, 132656), (34, 132662), (46, 132899),

Gene: TinyTim_238 Start: 132155, Stop: 132883, Start Num: 4

Candidate Starts for TinyTim_238:

(Start: 1 @132137 has 11 MA's), (Start: 2 @132140 has 12 MA's), (Start: 4 @132155 has 143 MA's), (11, 132203), (14, 132254), (15, 132260), (21, 132383), (33, 132623), (34, 132629), (46, 132866),

Gene: Tonenili_262 Start: 137981, Stop: 138709, Start Num: 4

Candidate Starts for Tonenili_262:

(Start: 1 @137963 has 11 MA's), (Start: 2 @137966 has 12 MA's), (Start: 4 @137981 has 143 MA's), (11, 138029), (14, 138080), (15, 138086), (21, 138209), (33, 138449), (34, 138455), (46, 138692),

Gene: Tortoise16_238 Start: 132617, Stop: 133345, Start Num: 4

Candidate Starts for Tortoise16_238:

(Start: 1 @132599 has 11 MA's), (Start: 2 @132602 has 12 MA's), (Start: 4 @132617 has 143 MA's), (11, 132665), (14, 132716), (15, 132722), (21, 132845), (33, 133085), (34, 133091), (46, 133328),

Gene: Trinitium_236 Start: 130909, Stop: 131637, Start Num: 4

Candidate Starts for Trinitium_236:

(Start: 1 @130891 has 11 MA's), (Start: 2 @130894 has 12 MA's), (Start: 4 @130909 has 143 MA's), (11, 130957), (14, 131008), (15, 131014), (21, 131137), (33, 131377), (34, 131383), (46, 131620),

Gene: Turret_231 Start: 130491, Stop: 131219, Start Num: 4

Candidate Starts for Turret_231:

(Start: 1 @130473 has 11 MA's), (Start: 2 @130476 has 12 MA's), (Start: 4 @130491 has 143 MA's), (11, 130539), (14, 130590), (15, 130596), (21, 130719), (33, 130959), (34, 130965), (46, 131202),

Gene: Tyke_237 Start: 134809, Stop: 135537, Start Num: 4

Candidate Starts for Tyke_237:

(Start: 1 @134791 has 11 MA's), (Start: 2 @134794 has 12 MA's), (Start: 4 @134809 has 143 MA's), (11, 134857), (14, 134908), (15, 134914), (21, 135037), (33, 135277), (34, 135283), (46, 135520),

Gene: ValleyTerrace_241 Start: 132068, Stop: 132796, Start Num: 4

Candidate Starts for ValleyTerrace_241:

(Start: 1 @132050 has 11 MA's), (Start: 2 @132053 has 12 MA's), (Start: 4 @132068 has 143 MA's), (11, 132116), (14, 132167), (15, 132173), (21, 132296), (33, 132536), (34, 132542), (46, 132779),

Gene: Wally_238 Start: 132034, Stop: 132780, Start Num: 1

Candidate Starts for Wally_238:

(Start: 1 @132034 has 11 MA's), (Start: 2 @132037 has 12 MA's), (Start: 4 @132052 has 143 MA's), (11, 132100), (14, 132151), (15, 132157), (21, 132280), (33, 132520), (34, 132526), (46, 132763),

Gene: Willis_241 Start: 132991, Stop: 133719, Start Num: 4

Candidate Starts for Willis_241:

(Start: 1 @132973 has 11 MA's), (Start: 2 @132976 has 12 MA's), (Start: 4 @132991 has 143 MA's), (11, 133039), (14, 133090), (15, 133096), (21, 133219), (33, 133459), (34, 133465), (46, 133702),

Gene: Yassified_237 Start: 132404, Stop: 133132, Start Num: 4

Candidate Starts for Yassified_237:

(Start: 1 @132386 has 11 MA's), (Start: 2 @132389 has 12 MA's), (Start: 4 @132404 has 143 MA's), (10, 132434), (11, 132452), (14, 132503), (15, 132509), (21, 132632), (33, 132872), (34, 132878), (46, 133115),

Gene: YemiJoy2021_241 Start: 133722, Stop: 134450, Start Num: 4

Candidate Starts for YemiJoy2021_241:

(Start: 1 @133704 has 11 MA's), (Start: 2 @133707 has 12 MA's), (Start: 4 @133722 has 143 MA's), (11, 133770), (14, 133821), (15, 133827), (21, 133950), (33, 134190), (34, 134196), (46, 134433),

Gene: YoungMoneyMata_240 Start: 133252, Stop: 133980, Start Num: 4

Candidate Starts for YoungMoneyMata_240:

(Start: 1 @133234 has 11 MA's), (Start: 2 @133237 has 12 MA's), (Start: 4 @133252 has 143 MA's), (11, 133300), (14, 133351), (15, 133357), (21, 133480), (33, 133720), (34, 133726), (46, 133963),

Gene: Yucca_240 Start: 133714, Stop: 134442, Start Num: 4

Candidate Starts for Yucca_240:

(Start: 1 @133696 has 11 MA's), (Start: 2 @133699 has 12 MA's), (Start: 4 @133714 has 143 MA's), (11, 133762), (14, 133813), (15, 133819), (21, 133942), (33, 134182), (34, 134188), (46, 134425),

Gene: Yvonnetastic_24 Start: 7369, Stop: 8121, Start Num: 1

Candidate Starts for Yvonnetastic_24:

(Start: 1 @7369 has 11 MA's), (7, 7396), (9, 7414), (Start: 12 @7447 has 1 MA's), (13, 7450), (15, 7501), (21, 7633), (23, 7663), (37, 7918), (41, 7993), (42, 8002), (43, 8071), (44, 8077), (45, 8080),

Gene: Zalkecks_239 Start: 132802, Stop: 133548, Start Num: 1

Candidate Starts for Zalkecks_239:

(Start: 1 @132802 has 11 MA's), (Start: 2 @132805 has 12 MA's), (Start: 4 @132820 has 143 MA's), (11, 132868), (14, 132919), (15, 132925), (21, 133048), (33, 133288), (34, 133294), (46, 133531),

Gene: Zeenon_241 Start: 133354, Stop: 134082, Start Num: 4

Candidate Starts for Zeenon_241:

(Start: 1 @133336 has 11 MA's), (Start: 2 @133339 has 12 MA's), (Start: 4 @133354 has 143 MA's), (11, 133402), (14, 133453), (15, 133459), (21, 133582), (33, 133822), (34, 133828), (46, 134065),

Gene: ZygoTaiga_236 Start: 134011, Stop: 134739, Start Num: 4

Candidate Starts for ZygoTaiga_236:

(Start: 1 @133993 has 11 MA's), (Start: 2 @133996 has 12 MA's), (Start: 4 @134011 has 143 MA's),
(11, 134059), (14, 134110), (15, 134116), (21, 134239), (33, 134479), (34, 134485), (46, 134722),