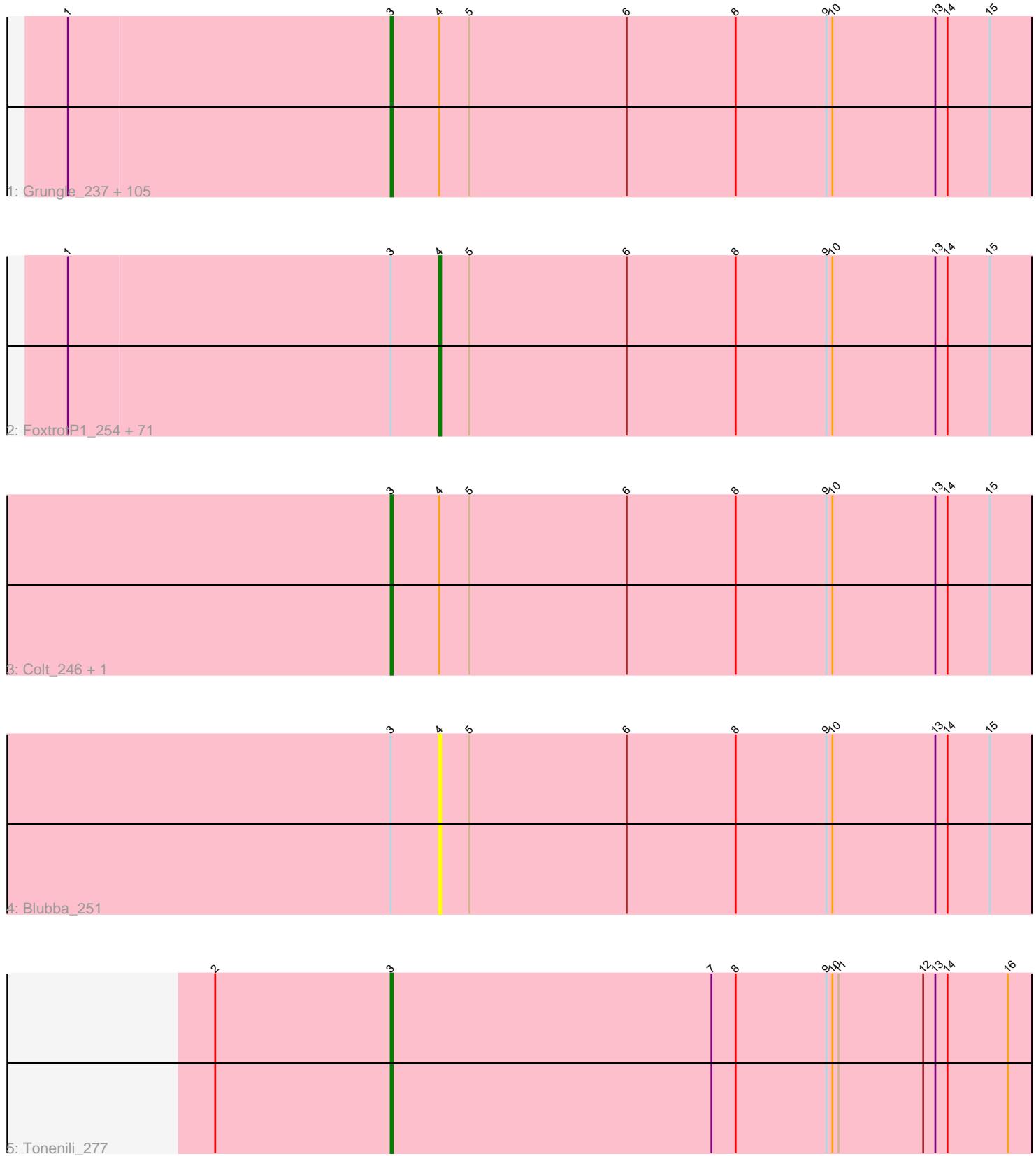


Pham 529



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 529 Report

This analysis was run 04/05/24 on database version 557.

Pham number 529 has 182 members, 15 are drafts.

Phages represented in each track:

- Track 1 : Grungle_237, Jemmno_255, Koguma_254, FrayBell_258, StubbySaigey_262, LinStu_252, JPickles_253, SrishMeg2525_253, I3_265, Spud_247, IkeLoa_249, Alice_241, Daffodil_261, Drazdys_252, Gamgam_257, EmmaElysia_260, Nappy_254, PurduePete_256, ParkTD_254, DTDevon_256, Delylah_257, Bangla1971_256, CindyLou_256, Sebata_255, EasyJones_256, Ewok_254, Roots515_258, Nidhogg_256, ArcherS7_256, LRRHood_247, Catera_244, Audrick_258, Jedediah_257, Pio_262, Kboogie_259, Willis_256, Ghost_255, Latch_255, YoungMoneyMata_255, Cactojaque_250, Cali_245, Yassified_251, Burrough_256, MoMoMixon_251, Iota_252, NedWong_254, ET08_241, CharlieB_250, Janiyra_259, Capablanca_260, Tortoise16_253, ZygоТаiga_252, Trinitium_252, Megamind_252, Bonray_258, Gizmo_261, Phlegm_260, Ronan_251, Shaqnato_246, Specks_260, DirtMonster_244, Turret_246, Astraea_251, Shnickers_254, Erdmann_257, Guwapp_251, Ading_258, ErnieJ_249, BackyardAgain_250, MikeLiesIn_256, Teardrop_254, Bread_252, Zeenon_256, Pier_254, ChaylaJr_254, SmallFry_256, Phusco_254, InigoMontoya_259, Maby2021_256, NoodleTree_251, Norm_255, LifeSavor_256, LolaVinca_251, Shrimp_258, FudgeTart_251, Phox_256, HyRo_240, Ava3_252, Shifa_231, BananaFence_253, Rizal_244, Gabriel_258, Salacia_257, Lukilu_244, Pinkcreek_235, Bxz1_241, Zalkecks_254, Momo_257, Dandelion_261, Yucca_256, Wally_253, Littleton_259, McGee_257, Sauce_252, StephanieG_249, Pleione_259
- Track 2 : FoxtrotP1_254, Blackbrain_254, Atlantean_255, Darko_255, Basquiat_253, Izajani_251, Jaygup_252, Spec_249, McWolfish_252, EmToTheThree_256, Essence_253, JayJay_251, Kamryn_254, Adlitam_255, Pivoine_256, JulietS_247, Issimir_252, Melpomini_250, Loanshark_252, Mikro_249, Stubby_238, Asterius_252, ScottMcG_247, Grasshills_262, QBert_247, RoMag_250, Jessibeth14_255, NuevoMundo_257, ValleyTerrace_256, Sprinklers_253, Breeniome_255, Morizzled23_253, BadAgartude_249, Delilah_253, DrPhinkDaddy_252, Fludd_255, Patter_257, Bigswole_260, Naija_256, Chargie21_253, Amataga_256, ChickenPhender_251, Derek_251, LordLeafolot_257, Napoleon13_252, Bipolarisk_253, Concombre_261, Caravan_245, Khaleesi_254, Flabslab_250, Naval22_260, JustHall_249, Shelob_256, Rabinovish_248, Rahel_257, Ngannou_250, BigCity_263, Dietrick_244, Chomp_253, SilverDipper_260, ShiaLabeouf_253, Quasimodo_258, InterFolia_257, Tyke_252, Lee7_256, Babyland_258, TinyTim_254, Mangeria_255, EggyFarm_263, YemiJoy2021_256, Matsumoto_253, BeanWater_248
- Track 3 : Colt_246, Cane17_245
- Track 4 : Blubba_251

- Track 5 : Tonenili_277

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

The start number called the most often in the published annotations is 3, it was called in 109 of the 167 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ading_258, Alice_241, ArcherS7_256, Astraea_251, Audrick_258, Ava3_252, BackyardAgain_250, BananaFence_253, Bangla1971_256, Bonray_258, Bread_252, Burrough_256, Bxz1_241, Cactojaque_250, Cali_245, Cane17_245, Capablanca_260, Catera_244, CharlieB_250, ChaylaJr_254, CindyLou_256, Colt_246, DTDevon_256, Daffodil_261, Dandelion_261, Delylah_257, DirtMonster_244, Drazdys_252, ET08_241, EasyJones_256, EmmaElysia_260, Erdmann_257, ErnieJ_249, Ewok_254, FrayBell_258, FudgeTart_251, Gabriel_258, Gamgam_257, Ghost_255, Gizmo_261, Grungle_237, Guwapp_251, HyRo_240, I3_265, IkeLoa_249, InigoMontoya_259, Iota_252, JPickles_253, Janiyra_259, Jedediah_257, Jemmno_255, Kboogie_259, Koguma_254, LRRHood_247, Latch_255, LifeSavor_256, LinStu_252, Littleton_259, LolaVinca_251, Lukilu_244, Maby2021_256, McGee_257, Megamind_252, MikeLiesln_256, MoMoMixon_251, Momo_257, Nappy_254, NedWong_254, Nidhogg_256, NoodleTree_251, Norm_255, ParkTD_254, Phlegm_260, Phox_256, Phusco_254, Pier_254, Pinkcreek_235, Pio_262, Pleione_259, PurduePete_256, Rizal_244, Ronan_251, Roots515_258, Salacia_257, Sauce_252, Sebata_255, Shaqnato_246, Shifa_231, Shnickers_254, Shrimp_258, SmallFry_256, Specks_260, Spud_247, SrishMeg2525_253, StephanieG_249, StubbySaigey_262, Teardrop_254, Tonenili_277, Tortoise16_253, Trinitium_252, Turret_246, Wally_253, Willis_256, Yassified_251, YoungMoneyMata_255, Yucca_256, Zalkecks_254, Zeenon_256, ZygoTaiga_252,

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

- Adlitam_255, Amataga_256, Asterius_252, Atlantean_255, Babyland_258, BadAgartude_249, Basquiat_253, BeanWater_248, BigCity_263, Bigswole_260, Bipolarisk_253, Blackbrain_254, Blubba_251, Breenieme_255, Caravan_245, Chargie21_253, ChickenPhender_251, Chomp_253, Concombre_261, Darko_255, Delilah_253, Derek_251, Dietrick_244, DrPhinkDaddy_252, EggyFarm_263, EmToTheThree_256, Essence_253, Flabslab_250, Fludd_255, FoxtrotP1_254, Grasshills_262, InterFolia_257, Issimir_252, Izajani_251, JayJay_251, Jaygup_252, Jessibeth14_255, JulietS_247, JustHall_249, Kamryn_254, Khaleesi_254, Lee7_256, Loanshark_252, LordLeafolot_257, Mangeria_255, Matsumoto_253, McWolfish_252, Melpomini_250, Mikro_249, Morizzled23_253, Naija_256, Napoleon13_252, Naval22_260, Ngannou_250, NuevoMundo_257, Patter_257, Pivoine_256, QBert_247, Quasimodo_258, Rabinovish_248, Rahel_257, RoMag_250, ScottMcG_247, Shelob_256, ShiaLabeouf_253, SilverDipper_260, Spec_249, Sprinklers_253, Stubby_238, TinyTim_254, Tyke_252, ValleyTerrace_256, YemiJoy2021_256,

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

-

Summary by start number:

Start 3:

- Found in 182 of 182 (100.0%) of genes in pham
- Manual Annotations of this start: 109 of 167
- Called 59.9% of time when present
- Phage (with cluster) where this start called: Ading_258 (C1), Alice_241 (C1), ArcherS7_256 (C1), Astraea_251 (C1), Audrick_258 (C1), Ava3_252 (C1), BackyardAgain_250 (C1), BananaFence_253 (C1), Bangla1971_256 (C1), Bonray_258 (C1), Bread_252 (C1), Burrough_256 (C1), Bxz1_241 (C1), Cactojaque_250 (C1), Cali_245 (C1), Cane17_245 (C1), Capablanca_260 (C1), Catera_244 (C1), CharlieB_250 (C1), ChaylaJr_254 (C1), CindyLou_256 (C1), Colt_246 (C1), DTDevon_256 (C1), Daffodil_261 (C1), Dandelion_261 (C1), Delylah_257 (C1), DirtMonster_244 (C1), Drazdys_252 (C1), ET08_241 (C1), EasyJones_256 (C1), EmmaElysia_260 (C1), Erdmann_257 (C1), ErnieJ_249 (C1), Ewok_254 (C1), FrayBell_258 (C1), FudgeTart_251 (C1), Gabriel_258 (C1), Gamgam_257 (C1), Ghost_255 (C1), Gizmo_261 (C1), Grungle_237 (C1), Guwapp_251 (C1), HyRo_240 (C1), I3_265 (C1), IkeLoa_249 (C1), InigoMontoya_259 (C1), Iota_252 (C1), JPickles_253 (C1), Janiyra_259 (C1), Jedediah_257 (C1), Jemmmo_255 (C1), Kboogie_259 (C1), Koguma_254 (C1), LRRHood_247 (C1), Latch_255 (C1), LifeSavor_256 (C1), LinStu_252 (C1), Littleton_259 (C1), LolaVinca_251 (C1), Lukilu_244 (C1), Maby2021_256 (C1), McGee_257 (C1), Megamind_252 (C1), MikeLiesln_256 (C1), MoMoMixon_251 (C1), Momo_257 (C1), Nappy_254 (C1), NedWong_254 (C1), Nidhogg_256 (C1), NoodleTree_251 (C1), Norm_255 (C1), ParkTD_254 (C1), Phlegm_260 (C1), Phox_256 (C1), Phusco_254 (C1), Pier_254 (C1), Pinkcreek_235 (C1), Pio_262 (C1), Pleione_259 (C1), PurduePete_256 (C1), Rizal_244 (C1), Ronan_251 (C1), Roots515_258 (C1), Salacia_257 (C1), Sauce_252 (C1), Sebata_255 (C1), Shaqnato_246 (C1), Shifa_231 (C1), Shnickers_254 (C1), Shrimp_258 (C1), SmallFry_256 (C1), Specks_260 (C1), Spud_247 (C1), SrishMeg2525_253 (C1), StephanieG_249 (C1), StubbySaigey_262 (C1), Teardrop_254 (C1), Tonenili_277 (C1), Tortoise16_253 (C1), Trinitium_252 (C1), Turret_246 (C1), Wally_253 (C1), Willis_256 (C1), Yassified_251 (C1), YoungMoneyMata_255 (C1), Yucca_256 (C1), Zalkecks_254 (C1), Zeenon_256 (C1), ZygoTaiga_252 (C1),

Start 4:

- Found in 181 of 182 (99.5%) of genes in pham
- Manual Annotations of this start: 58 of 167
- Called 40.3% of time when present
- Phage (with cluster) where this start called: Adlitam_255 (C1), Amataga_256 (C1), Asterius_252 (C1), Atlantean_255 (C1), Babyland_258 (C1), BadAgartude_249 (C1), Basquiat_253 (C1), BeanWater_248 (C1), BigCity_263 (C1), Bigswole_260 (C1), Bipolarisk_253 (C1), Blackbrain_254 (C1), Blubba_251 (C1), Breeniome_255 (C1), Caravan_245 (C1), Charge21_253 (C1), ChickenPhender_251 (C1), Chomp_253 (C1), Concombre_261 (C1), Darko_255 (C1), Delilah_253 (C1), Derek_251 (C1), Dietrick_244 (C1), DrPhinkDaddy_252 (C1), EggyFarm_263 (C1), EmToTheThree_256 (C1), Essence_253 (C1), Flabslab_250 (C1), Fludd_255 (C1), FoxtrotP1_254 (C1), Grasshills_262 (C1), InterFolia_257 (C1), Issimir_252 (C1), Izajani_251 (C1), JayJay_251 (C1), Jaygup_252 (C1), Jessibeth14_255 (C1), JulietS_247 (C1), JustHall_249 (C1), Kamryn_254 (C1), Khaleesi_254 (C1), Lee7_256 (C1), Loanshark_252 (C1), LordLeafolot_257 (C1), Mangeria_255 (C1), Matsumoto_253 (C1), McWolfish_252 (C1), Melompini_250 (C1), Mikro_249 (C1), Morizzled23_253 (C1), Naija_256 (C1), Napoleon13_252 (C1), Naval22_260 (C1), Ngannou_250 (C1), NuevoMundo_257 (C1), Patter_257 (C1), Pivoine_256 (C1),

QBert_247 (C1), Quasimodo_258 (C1), Rabinovich_248 (C1), Rahel_257 (C1), RoMag_250 (C1), ScottMcG_247 (C1), Shelob_256 (C1), ShiaLabeouf_253 (C1), SilverDipper_260 (C1), Spec_249 (C1), Sprinklers_253 (C1), Stubby_238 (C1), TinyTim_254 (C1), Tyke_252 (C1), ValleyTerrace_256 (C1), YemiJoy2021_256 (C1),

Summary by clusters:

There is one cluster represented in this pham: C1

Info for manual annotations of cluster C1:

- Start number 3 was manually annotated 109 times for cluster C1.
- Start number 4 was manually annotated 58 times for cluster C1.

Gene Information:

Gene: Ading_258 Start: 150891, Stop: 151208, Start Num: 3

Candidate Starts for Ading_258:

(1, 150732), (Start: 3 @150891 has 109 MA's), (Start: 4 @150915 has 58 MA's), (5, 150930), (6, 151008), (8, 151062), (9, 151107), (10, 151110), (13, 151161), (14, 151167), (15, 151188),

Gene: Adlitam_255 Start: 148263, Stop: 148556, Start Num: 4

Candidate Starts for Adlitam_255:

(1, 148080), (Start: 3 @148239 has 109 MA's), (Start: 4 @148263 has 58 MA's), (5, 148278), (6, 148356), (8, 148410), (9, 148455), (10, 148458), (13, 148509), (14, 148515), (15, 148536),

Gene: Alice_241 Start: 146122, Stop: 146439, Start Num: 3

Candidate Starts for Alice_241:

(1, 145963), (Start: 3 @146122 has 109 MA's), (Start: 4 @146146 has 58 MA's), (5, 146161), (6, 146239), (8, 146293), (9, 146338), (10, 146341), (13, 146392), (14, 146398), (15, 146419),

Gene: Amataga_256 Start: 148069, Stop: 148362, Start Num: 4

Candidate Starts for Amataga_256:

(1, 147886), (Start: 3 @148045 has 109 MA's), (Start: 4 @148069 has 58 MA's), (5, 148084), (6, 148162), (8, 148216), (9, 148261), (10, 148264), (13, 148315), (14, 148321), (15, 148342),

Gene: ArcherS7_256 Start: 149790, Stop: 150107, Start Num: 3

Candidate Starts for ArcherS7_256:

(1, 149631), (Start: 3 @149790 has 109 MA's), (Start: 4 @149814 has 58 MA's), (5, 149829), (6, 149907), (8, 149961), (9, 150006), (10, 150009), (13, 150060), (14, 150066), (15, 150087),

Gene: Asterius_252 Start: 148120, Stop: 148413, Start Num: 4

Candidate Starts for Asterius_252:

(1, 147937), (Start: 3 @148096 has 109 MA's), (Start: 4 @148120 has 58 MA's), (5, 148135), (6, 148213), (8, 148267), (9, 148312), (10, 148315), (13, 148366), (14, 148372), (15, 148393),

Gene: Astraea_251 Start: 148098, Stop: 148415, Start Num: 3

Candidate Starts for Astraea_251:

(1, 147939), (Start: 3 @148098 has 109 MA's), (Start: 4 @148122 has 58 MA's), (5, 148137), (6, 148215), (8, 148269), (9, 148314), (10, 148317), (13, 148368), (14, 148374), (15, 148395),

Gene: Atlantean_255 Start: 148069, Stop: 148362, Start Num: 4

Candidate Starts for Atlantean_255:

(1, 147886), (Start: 3 @148045 has 109 MA's), (Start: 4 @148069 has 58 MA's), (5, 148084), (6, 148162), (8, 148216), (9, 148261), (10, 148264), (13, 148315), (14, 148321), (15, 148342),

Gene: Audrick_258 Start: 147935, Stop: 148252, Start Num: 3

Candidate Starts for Audrick_258:

(1, 147776), (Start: 3 @147935 has 109 MA's), (Start: 4 @147959 has 58 MA's), (5, 147974), (6, 148052), (8, 148106), (9, 148151), (10, 148154), (13, 148205), (14, 148211), (15, 148232),

Gene: Ava3_252 Start: 147698, Stop: 148015, Start Num: 3

Candidate Starts for Ava3_252:

(1, 147539), (Start: 3 @147698 has 109 MA's), (Start: 4 @147722 has 58 MA's), (5, 147737), (6, 147815), (8, 147869), (9, 147914), (10, 147917), (13, 147968), (14, 147974), (15, 147995),

Gene: Babyland_258 Start: 148846, Stop: 149139, Start Num: 4

Candidate Starts for Babyland_258:

(1, 148663), (Start: 3 @148822 has 109 MA's), (Start: 4 @148846 has 58 MA's), (5, 148861), (6, 148939), (8, 148993), (9, 149038), (10, 149041), (13, 149092), (14, 149098), (15, 149119),

Gene: BackyardAgain_250 Start: 146195, Stop: 146512, Start Num: 3

Candidate Starts for BackyardAgain_250:

(1, 146036), (Start: 3 @146195 has 109 MA's), (Start: 4 @146219 has 58 MA's), (5, 146234), (6, 146312), (8, 146366), (9, 146411), (10, 146414), (13, 146465), (14, 146471), (15, 146492),

Gene: BadAgartude_249 Start: 148131, Stop: 148424, Start Num: 4

Candidate Starts for BadAgartude_249:

(1, 147948), (Start: 3 @148107 has 109 MA's), (Start: 4 @148131 has 58 MA's), (5, 148146), (6, 148224), (8, 148278), (9, 148323), (10, 148326), (13, 148377), (14, 148383), (15, 148404),

Gene: BananaFence_253 Start: 148727, Stop: 149044, Start Num: 3

Candidate Starts for BananaFence_253:

(1, 148568), (Start: 3 @148727 has 109 MA's), (Start: 4 @148751 has 58 MA's), (5, 148766), (6, 148844), (8, 148898), (9, 148943), (10, 148946), (13, 148997), (14, 149003), (15, 149024),

Gene: Bangla1971_256 Start: 147947, Stop: 148264, Start Num: 3

Candidate Starts for Bangla1971_256:

(1, 147788), (Start: 3 @147947 has 109 MA's), (Start: 4 @147971 has 58 MA's), (5, 147986), (6, 148064), (8, 148118), (9, 148163), (10, 148166), (13, 148217), (14, 148223), (15, 148244),

Gene: Basquiat_253 Start: 147037, Stop: 147330, Start Num: 4

Candidate Starts for Basquiat_253:

(1, 146854), (Start: 3 @147013 has 109 MA's), (Start: 4 @147037 has 58 MA's), (5, 147052), (6, 147130), (8, 147184), (9, 147229), (10, 147232), (13, 147283), (14, 147289), (15, 147310),

Gene: BeanWater_248 Start: 147107, Stop: 147400, Start Num: 4

Candidate Starts for BeanWater_248:

(1, 146924), (Start: 3 @147083 has 109 MA's), (Start: 4 @147107 has 58 MA's), (5, 147122), (6, 147200), (8, 147254), (9, 147299), (10, 147302), (13, 147353), (14, 147359), (15, 147380),

Gene: BigCity_263 Start: 149862, Stop: 150155, Start Num: 4

Candidate Starts for BigCity_263:

(1, 149679), (Start: 3 @149838 has 109 MA's), (Start: 4 @149862 has 58 MA's), (5, 149877), (6, 149955), (8, 150009), (9, 150054), (10, 150057), (13, 150108), (14, 150114), (15, 150135),

Gene: Bigswole_260 Start: 149773, Stop: 150066, Start Num: 4
Candidate Starts for Bigswole_260:
(1, 149590), (Start: 3 @149749 has 109 MA's), (Start: 4 @149773 has 58 MA's), (5, 149788), (6, 149866), (8, 149920), (9, 149965), (10, 149968), (13, 150019), (14, 150025), (15, 150046),

Gene: Bipolarisk_253 Start: 147990, Stop: 148283, Start Num: 4
Candidate Starts for Bipolarisk_253:
(1, 147807), (Start: 3 @147966 has 109 MA's), (Start: 4 @147990 has 58 MA's), (5, 148005), (6, 148083), (8, 148137), (9, 148182), (10, 148185), (13, 148236), (14, 148242), (15, 148263),

Gene: Blackbrain_254 Start: 148814, Stop: 149107, Start Num: 4
Candidate Starts for Blackbrain_254:
(1, 148631), (Start: 3 @148790 has 109 MA's), (Start: 4 @148814 has 58 MA's), (5, 148829), (6, 148907), (8, 148961), (9, 149006), (10, 149009), (13, 149060), (14, 149066), (15, 149087),

Gene: Blubba_251 Start: 152076, Stop: 152369, Start Num: 4
Candidate Starts for Blubba_251:
(Start: 3 @152052 has 109 MA's), (Start: 4 @152076 has 58 MA's), (5, 152091), (6, 152169), (8, 152223), (9, 152268), (10, 152271), (13, 152322), (14, 152328), (15, 152349),

Gene: Bonray_258 Start: 150590, Stop: 150907, Start Num: 3
Candidate Starts for Bonray_258:
(1, 150431), (Start: 3 @150590 has 109 MA's), (Start: 4 @150614 has 58 MA's), (5, 150629), (6, 150707), (8, 150761), (9, 150806), (10, 150809), (13, 150860), (14, 150866), (15, 150887),

Gene: Bread_252 Start: 147750, Stop: 148067, Start Num: 3
Candidate Starts for Bread_252:
(1, 147591), (Start: 3 @147750 has 109 MA's), (Start: 4 @147774 has 58 MA's), (5, 147789), (6, 147867), (8, 147921), (9, 147966), (10, 147969), (13, 148020), (14, 148026), (15, 148047),

Gene: Breeniome_255 Start: 147569, Stop: 147862, Start Num: 4
Candidate Starts for Breeniome_255:
(1, 147386), (Start: 3 @147545 has 109 MA's), (Start: 4 @147569 has 58 MA's), (5, 147584), (6, 147662), (8, 147716), (9, 147761), (10, 147764), (13, 147815), (14, 147821), (15, 147842),

Gene: Burrough_256 Start: 149111, Stop: 149428, Start Num: 3
Candidate Starts for Burrough_256:
(1, 148952), (Start: 3 @149111 has 109 MA's), (Start: 4 @149135 has 58 MA's), (5, 149150), (6, 149228), (8, 149282), (9, 149327), (10, 149330), (13, 149381), (14, 149387), (15, 149408),

Gene: Bxz1_241 Start: 149315, Stop: 149632, Start Num: 3
Candidate Starts for Bxz1_241:
(1, 149156), (Start: 3 @149315 has 109 MA's), (Start: 4 @149339 has 58 MA's), (5, 149354), (6, 149432), (8, 149486), (9, 149531), (10, 149534), (13, 149585), (14, 149591), (15, 149612),

Gene: Cactojaque_250 Start: 147736, Stop: 148053, Start Num: 3
Candidate Starts for Cactojaque_250:
(1, 147577), (Start: 3 @147736 has 109 MA's), (Start: 4 @147760 has 58 MA's), (5, 147775), (6, 147853), (8, 147907), (9, 147952), (10, 147955), (13, 148006), (14, 148012), (15, 148033),

Gene: Cali_245 Start: 148515, Stop: 148832, Start Num: 3
Candidate Starts for Cali_245:

(1, 148356), (Start: 3 @148515 has 109 MA's), (Start: 4 @148539 has 58 MA's), (5, 148554), (6, 148632), (8, 148686), (9, 148731), (10, 148734), (13, 148785), (14, 148791), (15, 148812),

Gene: Cane17_245 Start: 152461, Stop: 152778, Start Num: 3

Candidate Starts for Cane17_245:

(Start: 3 @152461 has 109 MA's), (Start: 4 @152485 has 58 MA's), (5, 152500), (6, 152578), (8, 152632), (9, 152677), (10, 152680), (13, 152731), (14, 152737), (15, 152758),

Gene: Capablanca_260 Start: 150769, Stop: 151086, Start Num: 3

Candidate Starts for Capablanca_260:

(1, 150610), (Start: 3 @150769 has 109 MA's), (Start: 4 @150793 has 58 MA's), (5, 150808), (6, 150886), (8, 150940), (9, 150985), (10, 150988), (13, 151039), (14, 151045), (15, 151066),

Gene: Caravan_245 Start: 148036, Stop: 148329, Start Num: 4

Candidate Starts for Caravan_245:

(1, 147853), (Start: 3 @148012 has 109 MA's), (Start: 4 @148036 has 58 MA's), (5, 148051), (6, 148129), (8, 148183), (9, 148228), (10, 148231), (13, 148282), (14, 148288), (15, 148309),

Gene: Catera_244 Start: 147258, Stop: 147575, Start Num: 3

Candidate Starts for Catera_244:

(1, 147099), (Start: 3 @147258 has 109 MA's), (Start: 4 @147282 has 58 MA's), (5, 147297), (6, 147375), (8, 147429), (9, 147474), (10, 147477), (13, 147528), (14, 147534), (15, 147555),

Gene: Chargie21_253 Start: 147037, Stop: 147330, Start Num: 4

Candidate Starts for Chargie21_253:

(1, 146854), (Start: 3 @147013 has 109 MA's), (Start: 4 @147037 has 58 MA's), (5, 147052), (6, 147130), (8, 147184), (9, 147229), (10, 147232), (13, 147283), (14, 147289), (15, 147310),

Gene: CharlieB_250 Start: 148281, Stop: 148598, Start Num: 3

Candidate Starts for CharlieB_250:

(1, 148122), (Start: 3 @148281 has 109 MA's), (Start: 4 @148305 has 58 MA's), (5, 148320), (6, 148398), (8, 148452), (9, 148497), (10, 148500), (13, 148551), (14, 148557), (15, 148578),

Gene: ChaylaJr_254 Start: 147955, Stop: 148272, Start Num: 3

Candidate Starts for ChaylaJr_254:

(1, 147796), (Start: 3 @147955 has 109 MA's), (Start: 4 @147979 has 58 MA's), (5, 147994), (6, 148072), (8, 148126), (9, 148171), (10, 148174), (13, 148225), (14, 148231), (15, 148252),

Gene: ChickenPhender_251 Start: 146735, Stop: 147028, Start Num: 4

Candidate Starts for ChickenPhender_251:

(1, 146552), (Start: 3 @146711 has 109 MA's), (Start: 4 @146735 has 58 MA's), (5, 146750), (6, 146828), (8, 146882), (9, 146927), (10, 146930), (13, 146981), (14, 146987), (15, 147008),

Gene: Chomp_253 Start: 150171, Stop: 150464, Start Num: 4

Candidate Starts for Chomp_253:

(1, 149988), (Start: 3 @150147 has 109 MA's), (Start: 4 @150171 has 58 MA's), (5, 150186), (6, 150264), (8, 150318), (9, 150363), (10, 150366), (13, 150417), (14, 150423), (15, 150444),

Gene: CindyLou_256 Start: 150407, Stop: 150724, Start Num: 3

Candidate Starts for CindyLou_256:

(1, 150248), (Start: 3 @150407 has 109 MA's), (Start: 4 @150431 has 58 MA's), (5, 150446), (6, 150524), (8, 150578), (9, 150623), (10, 150626), (13, 150677), (14, 150683), (15, 150704),

Gene: Colt_246 Start: 151653, Stop: 151970, Start Num: 3

Candidate Starts for Colt_246:

(Start: 3 @151653 has 109 MA's), (Start: 4 @151677 has 58 MA's), (5, 151692), (6, 151770), (8, 151824), (9, 151869), (10, 151872), (13, 151923), (14, 151929), (15, 151950),

Gene: Concombre_261 Start: 149969, Stop: 150262, Start Num: 4

Candidate Starts for Concombre_261:

(1, 149786), (Start: 3 @149945 has 109 MA's), (Start: 4 @149969 has 58 MA's), (5, 149984), (6, 150062), (8, 150116), (9, 150161), (10, 150164), (13, 150215), (14, 150221), (15, 150242),

Gene: DTDevon_256 Start: 149979, Stop: 150296, Start Num: 3

Candidate Starts for DTDevon_256:

(1, 149820), (Start: 3 @149979 has 109 MA's), (Start: 4 @150003 has 58 MA's), (5, 150018), (6, 150096), (8, 150150), (9, 150195), (10, 150198), (13, 150249), (14, 150255), (15, 150276),

Gene: Daffodil_261 Start: 148266, Stop: 148583, Start Num: 3

Candidate Starts for Daffodil_261:

(1, 148107), (Start: 3 @148266 has 109 MA's), (Start: 4 @148290 has 58 MA's), (5, 148305), (6, 148383), (8, 148437), (9, 148482), (10, 148485), (13, 148536), (14, 148542), (15, 148563),

Gene: Dandelion_261 Start: 150800, Stop: 151117, Start Num: 3

Candidate Starts for Dandelion_261:

(1, 150641), (Start: 3 @150800 has 109 MA's), (Start: 4 @150824 has 58 MA's), (5, 150839), (6, 150917), (8, 150971), (9, 151016), (10, 151019), (13, 151070), (14, 151076), (15, 151097),

Gene: Darko_255 Start: 148755, Stop: 149048, Start Num: 4

Candidate Starts for Darko_255:

(1, 148572), (Start: 3 @148731 has 109 MA's), (Start: 4 @148755 has 58 MA's), (5, 148770), (6, 148848), (8, 148902), (9, 148947), (10, 148950), (13, 149001), (14, 149007), (15, 149028),

Gene: Delilah_253 Start: 148383, Stop: 148676, Start Num: 4

Candidate Starts for Delilah_253:

(1, 148200), (Start: 3 @148359 has 109 MA's), (Start: 4 @148383 has 58 MA's), (5, 148398), (6, 148476), (8, 148530), (9, 148575), (10, 148578), (13, 148629), (14, 148635), (15, 148656),

Gene: Delylah_257 Start: 148636, Stop: 148953, Start Num: 3

Candidate Starts for Delylah_257:

(1, 148477), (Start: 3 @148636 has 109 MA's), (Start: 4 @148660 has 58 MA's), (5, 148675), (6, 148753), (8, 148807), (9, 148852), (10, 148855), (13, 148906), (14, 148912), (15, 148933),

Gene: Derek_251 Start: 149448, Stop: 149741, Start Num: 4

Candidate Starts for Derek_251:

(1, 149265), (Start: 3 @149424 has 109 MA's), (Start: 4 @149448 has 58 MA's), (5, 149463), (6, 149541), (8, 149595), (9, 149640), (10, 149643), (13, 149694), (14, 149700), (15, 149721),

Gene: Dietrick_244 Start: 147311, Stop: 147604, Start Num: 4

Candidate Starts for Dietrick_244:

(1, 147128), (Start: 3 @147287 has 109 MA's), (Start: 4 @147311 has 58 MA's), (5, 147326), (6, 147404), (8, 147458), (9, 147503), (10, 147506), (13, 147557), (14, 147563), (15, 147584),

Gene: DirtMonster_244 Start: 148019, Stop: 148336, Start Num: 3

Candidate Starts for DirtMonster_244:

(1, 147860), (Start: 3 @148019 has 109 MA's), (Start: 4 @148043 has 58 MA's), (5, 148058), (6, 148136), (8, 148190), (9, 148235), (10, 148238), (13, 148289), (14, 148295), (15, 148316),

Gene: DrPhinkDaddy_252 Start: 149068, Stop: 149361, Start Num: 4

Candidate Starts for DrPhinkDaddy_252:

(1, 148885), (Start: 3 @149044 has 109 MA's), (Start: 4 @149068 has 58 MA's), (5, 149083), (6, 149161), (8, 149215), (9, 149260), (10, 149263), (13, 149314), (14, 149320), (15, 149341),

Gene: Drazdys_252 Start: 149431, Stop: 149748, Start Num: 3

Candidate Starts for Drazdys_252:

(1, 149272), (Start: 3 @149431 has 109 MA's), (Start: 4 @149455 has 58 MA's), (5, 149470), (6, 149548), (8, 149602), (9, 149647), (10, 149650), (13, 149701), (14, 149707), (15, 149728),

Gene: ET08_241 Start: 147755, Stop: 148072, Start Num: 3

Candidate Starts for ET08_241:

(1, 147596), (Start: 3 @147755 has 109 MA's), (Start: 4 @147779 has 58 MA's), (5, 147794), (6, 147872), (8, 147926), (9, 147971), (10, 147974), (13, 148025), (14, 148031), (15, 148052),

Gene: EasyJones_256 Start: 147807, Stop: 148124, Start Num: 3

Candidate Starts for EasyJones_256:

(1, 147648), (Start: 3 @147807 has 109 MA's), (Start: 4 @147831 has 58 MA's), (5, 147846), (6, 147924), (8, 147978), (9, 148023), (10, 148026), (13, 148077), (14, 148083), (15, 148104),

Gene: EggFarm_263 Start: 149863, Stop: 150156, Start Num: 4

Candidate Starts for EggFarm_263:

(1, 149680), (Start: 3 @149839 has 109 MA's), (Start: 4 @149863 has 58 MA's), (5, 149878), (6, 149956), (8, 150010), (9, 150055), (10, 150058), (13, 150109), (14, 150115), (15, 150136),

Gene: EmToTheThree_256 Start: 148856, Stop: 149149, Start Num: 4

Candidate Starts for EmToTheThree_256:

(1, 148673), (Start: 3 @148832 has 109 MA's), (Start: 4 @148856 has 58 MA's), (5, 148871), (6, 148949), (8, 149003), (9, 149048), (10, 149051), (13, 149102), (14, 149108), (15, 149129),

Gene: EmmaElysia_260 Start: 150302, Stop: 150619, Start Num: 3

Candidate Starts for EmmaElysia_260:

(1, 150143), (Start: 3 @150302 has 109 MA's), (Start: 4 @150326 has 58 MA's), (5, 150341), (6, 150419), (8, 150473), (9, 150518), (10, 150521), (13, 150572), (14, 150578), (15, 150599),

Gene: Erdmann_257 Start: 148800, Stop: 149117, Start Num: 3

Candidate Starts for Erdmann_257:

(1, 148641), (Start: 3 @148800 has 109 MA's), (Start: 4 @148824 has 58 MA's), (5, 148839), (6, 148917), (8, 148971), (9, 149016), (10, 149019), (13, 149070), (14, 149076), (15, 149097),

Gene: ErnieJ_249 Start: 146435, Stop: 146752, Start Num: 3

Candidate Starts for ErnieJ_249:

(1, 146276), (Start: 3 @146435 has 109 MA's), (Start: 4 @146459 has 58 MA's), (5, 146474), (6, 146552), (8, 146606), (9, 146651), (10, 146654), (13, 146705), (14, 146711), (15, 146732),

Gene: Essence_253 Start: 148667, Stop: 148960, Start Num: 4

Candidate Starts for Essence_253:

(1, 148484), (Start: 3 @148643 has 109 MA's), (Start: 4 @148667 has 58 MA's), (5, 148682), (6, 148760), (8, 148814), (9, 148859), (10, 148862), (13, 148913), (14, 148919), (15, 148940),

Gene: Ewok_254 Start: 148294, Stop: 148611, Start Num: 3

Candidate Starts for Ewok_254:

(1, 148135), (Start: 3 @148294 has 109 MA's), (Start: 4 @148318 has 58 MA's), (5, 148333), (6, 148411), (8, 148465), (9, 148510), (10, 148513), (13, 148564), (14, 148570), (15, 148591),

Gene: Flabslab_250 Start: 145724, Stop: 146017, Start Num: 4

Candidate Starts for Flabslab_250:

(1, 145541), (Start: 3 @145700 has 109 MA's), (Start: 4 @145724 has 58 MA's), (5, 145739), (6, 145817), (8, 145871), (9, 145916), (10, 145919), (13, 145970), (14, 145976), (15, 145997),

Gene: Fludd_255 Start: 147543, Stop: 147836, Start Num: 4

Candidate Starts for Fludd_255:

(1, 147360), (Start: 3 @147519 has 109 MA's), (Start: 4 @147543 has 58 MA's), (5, 147558), (6, 147636), (8, 147690), (9, 147735), (10, 147738), (13, 147789), (14, 147795), (15, 147816),

Gene: FoxtrotP1_254 Start: 149410, Stop: 149703, Start Num: 4

Candidate Starts for FoxtrotP1_254:

(1, 149227), (Start: 3 @149386 has 109 MA's), (Start: 4 @149410 has 58 MA's), (5, 149425), (6, 149503), (8, 149557), (9, 149602), (10, 149605), (13, 149656), (14, 149662), (15, 149683),

Gene: FrayBell_258 Start: 147650, Stop: 147967, Start Num: 3

Candidate Starts for FrayBell_258:

(1, 147491), (Start: 3 @147650 has 109 MA's), (Start: 4 @147674 has 58 MA's), (5, 147689), (6, 147767), (8, 147821), (9, 147866), (10, 147869), (13, 147920), (14, 147926), (15, 147947),

Gene: FudgeTart_251 Start: 147890, Stop: 148207, Start Num: 3

Candidate Starts for FudgeTart_251:

(1, 147731), (Start: 3 @147890 has 109 MA's), (Start: 4 @147914 has 58 MA's), (5, 147929), (6, 148007), (8, 148061), (9, 148106), (10, 148109), (13, 148160), (14, 148166), (15, 148187),

Gene: Gabriel_258 Start: 147678, Stop: 147995, Start Num: 3

Candidate Starts for Gabriel_258:

(1, 147519), (Start: 3 @147678 has 109 MA's), (Start: 4 @147702 has 58 MA's), (5, 147717), (6, 147795), (8, 147849), (9, 147894), (10, 147897), (13, 147948), (14, 147954), (15, 147975),

Gene: Gamgam_257 Start: 148035, Stop: 148352, Start Num: 3

Candidate Starts for Gamgam_257:

(1, 147876), (Start: 3 @148035 has 109 MA's), (Start: 4 @148059 has 58 MA's), (5, 148074), (6, 148152), (8, 148206), (9, 148251), (10, 148254), (13, 148305), (14, 148311), (15, 148332),

Gene: Ghost_255 Start: 148659, Stop: 148976, Start Num: 3

Candidate Starts for Ghost_255:

(1, 148500), (Start: 3 @148659 has 109 MA's), (Start: 4 @148683 has 58 MA's), (5, 148698), (6, 148776), (8, 148830), (9, 148875), (10, 148878), (13, 148929), (14, 148935), (15, 148956),

Gene: Gizmo_261 Start: 150717, Stop: 151034, Start Num: 3

Candidate Starts for Gizmo_261:

(1, 150558), (Start: 3 @150717 has 109 MA's), (Start: 4 @150741 has 58 MA's), (5, 150756), (6, 150834), (8, 150888), (9, 150933), (10, 150936), (13, 150987), (14, 150993), (15, 151014),

Gene: Grasshills_262 Start: 149862, Stop: 150155, Start Num: 4

Candidate Starts for Grasshills_262:

(1, 149679), (Start: 3 @149838 has 109 MA's), (Start: 4 @149862 has 58 MA's), (5, 149877), (6, 149955), (8, 150009), (9, 150054), (10, 150057), (13, 150108), (14, 150114), (15, 150135),

Gene: Grungle_237 Start: 145924, Stop: 146241, Start Num: 3

Candidate Starts for Grungle_237:

(1, 145765), (Start: 3 @145924 has 109 MA's), (Start: 4 @145948 has 58 MA's), (5, 145963), (6, 146041), (8, 146095), (9, 146140), (10, 146143), (13, 146194), (14, 146200), (15, 146221),

Gene: Guwapp_251 Start: 146686, Stop: 147003, Start Num: 3

Candidate Starts for Guwapp_251:

(1, 146527), (Start: 3 @146686 has 109 MA's), (Start: 4 @146710 has 58 MA's), (5, 146725), (6, 146803), (8, 146857), (9, 146902), (10, 146905), (13, 146956), (14, 146962), (15, 146983),

Gene: HyRo_240 Start: 147203, Stop: 147520, Start Num: 3

Candidate Starts for HyRo_240:

(1, 147044), (Start: 3 @147203 has 109 MA's), (Start: 4 @147227 has 58 MA's), (5, 147242), (6, 147320), (8, 147374), (9, 147419), (10, 147422), (13, 147473), (14, 147479), (15, 147500),

Gene: I3_265 Start: 148994, Stop: 149311, Start Num: 3

Candidate Starts for I3_265:

(1, 148835), (Start: 3 @148994 has 109 MA's), (Start: 4 @149018 has 58 MA's), (5, 149033), (6, 149111), (8, 149165), (9, 149210), (10, 149213), (13, 149264), (14, 149270), (15, 149291),

Gene: IkeLoa_249 Start: 148391, Stop: 148708, Start Num: 3

Candidate Starts for IkeLoa_249:

(1, 148232), (Start: 3 @148391 has 109 MA's), (Start: 4 @148415 has 58 MA's), (5, 148430), (6, 148508), (8, 148562), (9, 148607), (10, 148610), (13, 148661), (14, 148667), (15, 148688),

Gene: InigoMontoya_259 Start: 148709, Stop: 149026, Start Num: 3

Candidate Starts for InigoMontoya_259:

(1, 148550), (Start: 3 @148709 has 109 MA's), (Start: 4 @148733 has 58 MA's), (5, 148748), (6, 148826), (8, 148880), (9, 148925), (10, 148928), (13, 148979), (14, 148985), (15, 149006),

Gene: InterFolia_257 Start: 149479, Stop: 149772, Start Num: 4

Candidate Starts for InterFolia_257:

(1, 149296), (Start: 3 @149455 has 109 MA's), (Start: 4 @149479 has 58 MA's), (5, 149494), (6, 149572), (8, 149626), (9, 149671), (10, 149674), (13, 149725), (14, 149731), (15, 149752),

Gene: Iota_252 Start: 148421, Stop: 148738, Start Num: 3

Candidate Starts for Iota_252:

(1, 148262), (Start: 3 @148421 has 109 MA's), (Start: 4 @148445 has 58 MA's), (5, 148460), (6, 148538), (8, 148592), (9, 148637), (10, 148640), (13, 148691), (14, 148697), (15, 148718),

Gene: Issimir_252 Start: 148820, Stop: 149113, Start Num: 4

Candidate Starts for Issimir_252:

(1, 148637), (Start: 3 @148796 has 109 MA's), (Start: 4 @148820 has 58 MA's), (5, 148835), (6, 148913), (8, 148967), (9, 149012), (10, 149015), (13, 149066), (14, 149072), (15, 149093),

Gene: Izajani_251 Start: 149265, Stop: 149558, Start Num: 4

Candidate Starts for Izajani_251:

(1, 149082), (Start: 3 @149241 has 109 MA's), (Start: 4 @149265 has 58 MA's), (5, 149280), (6, 149358), (8, 149412), (9, 149457), (10, 149460), (13, 149511), (14, 149517), (15, 149538),

Gene: JPickles_253 Start: 147846, Stop: 148163, Start Num: 3

Candidate Starts for JPickles_253:

(1, 147687), (Start: 3 @147846 has 109 MA's), (Start: 4 @147870 has 58 MA's), (5, 147885), (6, 147963), (8, 148017), (9, 148062), (10, 148065), (13, 148116), (14, 148122), (15, 148143),

Gene: Janiyra_259 Start: 149383, Stop: 149700, Start Num: 3

Candidate Starts for Janiyra_259:

(1, 149224), (Start: 3 @149383 has 109 MA's), (Start: 4 @149407 has 58 MA's), (5, 149422), (6, 149500), (8, 149554), (9, 149599), (10, 149602), (13, 149653), (14, 149659), (15, 149680),

Gene: JayJay_251 Start: 147399, Stop: 147692, Start Num: 4

Candidate Starts for JayJay_251:

(1, 147216), (Start: 3 @147375 has 109 MA's), (Start: 4 @147399 has 58 MA's), (5, 147414), (6, 147492), (8, 147546), (9, 147591), (10, 147594), (13, 147645), (14, 147651), (15, 147672),

Gene: Jaygup_252 Start: 148592, Stop: 148885, Start Num: 4

Candidate Starts for Jaygup_252:

(1, 148409), (Start: 3 @148568 has 109 MA's), (Start: 4 @148592 has 58 MA's), (5, 148607), (6, 148685), (8, 148739), (9, 148784), (10, 148787), (13, 148838), (14, 148844), (15, 148865),

Gene: Jedediah_257 Start: 149621, Stop: 149938, Start Num: 3

Candidate Starts for Jedediah_257:

(1, 149462), (Start: 3 @149621 has 109 MA's), (Start: 4 @149645 has 58 MA's), (5, 149660), (6, 149738), (8, 149792), (9, 149837), (10, 149840), (13, 149891), (14, 149897), (15, 149918),

Gene: Jemmnno_255 Start: 148340, Stop: 148657, Start Num: 3

Candidate Starts for Jemmnno_255:

(1, 148181), (Start: 3 @148340 has 109 MA's), (Start: 4 @148364 has 58 MA's), (5, 148379), (6, 148457), (8, 148511), (9, 148556), (10, 148559), (13, 148610), (14, 148616), (15, 148637),

Gene: Jessibeth14_255 Start: 149033, Stop: 149326, Start Num: 4

Candidate Starts for Jessibeth14_255:

(1, 148850), (Start: 3 @149009 has 109 MA's), (Start: 4 @149033 has 58 MA's), (5, 149048), (6, 149126), (8, 149180), (9, 149225), (10, 149228), (13, 149279), (14, 149285), (15, 149306),

Gene: JulietS_247 Start: 145944, Stop: 146237, Start Num: 4

Candidate Starts for JulietS_247:

(1, 145761), (Start: 3 @145920 has 109 MA's), (Start: 4 @145944 has 58 MA's), (5, 145959), (6, 146037), (8, 146091), (9, 146136), (10, 146139), (13, 146190), (14, 146196), (15, 146217),

Gene: JustHall_249 Start: 147894, Stop: 148187, Start Num: 4

Candidate Starts for JustHall_249:

(1, 147711), (Start: 3 @147870 has 109 MA's), (Start: 4 @147894 has 58 MA's), (5, 147909), (6, 147987), (8, 148041), (9, 148086), (10, 148089), (13, 148140), (14, 148146), (15, 148167),

Gene: Kamryn_254 Start: 149484, Stop: 149777, Start Num: 4

Candidate Starts for Kamryn_254:

(1, 149301), (Start: 3 @149460 has 109 MA's), (Start: 4 @149484 has 58 MA's), (5, 149499), (6, 149577), (8, 149631), (9, 149676), (10, 149679), (13, 149730), (14, 149736), (15, 149757),

Gene: Kboogie_259 Start: 148499, Stop: 148816, Start Num: 3

Candidate Starts for Kboogie_259:

(1, 148340), (Start: 3 @148499 has 109 MA's), (Start: 4 @148523 has 58 MA's), (5, 148538), (6, 148616), (8, 148670), (9, 148715), (10, 148718), (13, 148769), (14, 148775), (15, 148796),

Gene: Khaleesi_254 Start: 148500, Stop: 148793, Start Num: 4

Candidate Starts for Khaleesi_254:

(1, 148317), (Start: 3 @148476 has 109 MA's), (Start: 4 @148500 has 58 MA's), (5, 148515), (6, 148593), (8, 148647), (9, 148692), (10, 148695), (13, 148746), (14, 148752), (15, 148773),

Gene: Koguma_254 Start: 148082, Stop: 148399, Start Num: 3

Candidate Starts for Koguma_254:

(1, 147923), (Start: 3 @148082 has 109 MA's), (Start: 4 @148106 has 58 MA's), (5, 148121), (6, 148199), (8, 148253), (9, 148298), (10, 148301), (13, 148352), (14, 148358), (15, 148379),

Gene: LRRHood_247 Start: 147492, Stop: 147809, Start Num: 3

Candidate Starts for LRRHood_247:

(1, 147333), (Start: 3 @147492 has 109 MA's), (Start: 4 @147516 has 58 MA's), (5, 147531), (6, 147609), (8, 147663), (9, 147708), (10, 147711), (13, 147762), (14, 147768), (15, 147789),

Gene: Latch_255 Start: 148045, Stop: 148362, Start Num: 3

Candidate Starts for Latch_255:

(1, 147886), (Start: 3 @148045 has 109 MA's), (Start: 4 @148069 has 58 MA's), (5, 148084), (6, 148162), (8, 148216), (9, 148261), (10, 148264), (13, 148315), (14, 148321), (15, 148342),

Gene: Lee7_256 Start: 151170, Stop: 151463, Start Num: 4

Candidate Starts for Lee7_256:

(1, 150987), (Start: 3 @151146 has 109 MA's), (Start: 4 @151170 has 58 MA's), (5, 151185), (6, 151263), (8, 151317), (9, 151362), (10, 151365), (13, 151416), (14, 151422), (15, 151443),

Gene: LifeSavor_256 Start: 149273, Stop: 149590, Start Num: 3

Candidate Starts for LifeSavor_256:

(1, 149114), (Start: 3 @149273 has 109 MA's), (Start: 4 @149297 has 58 MA's), (5, 149312), (6, 149390), (8, 149444), (9, 149489), (10, 149492), (13, 149543), (14, 149549), (15, 149570),

Gene: LinStu_252 Start: 147374, Stop: 147691, Start Num: 3

Candidate Starts for LinStu_252:

(1, 147215), (Start: 3 @147374 has 109 MA's), (Start: 4 @147398 has 58 MA's), (5, 147413), (6, 147491), (8, 147545), (9, 147590), (10, 147593), (13, 147644), (14, 147650), (15, 147671),

Gene: Littleton_259 Start: 149282, Stop: 149599, Start Num: 3

Candidate Starts for Littleton_259:

(1, 149123), (Start: 3 @149282 has 109 MA's), (Start: 4 @149306 has 58 MA's), (5, 149321), (6, 149399), (8, 149453), (9, 149498), (10, 149501), (13, 149552), (14, 149558), (15, 149579),

Gene: Loanshark_252 Start: 147849, Stop: 148142, Start Num: 4

Candidate Starts for Loanshark_252:

(1, 147666), (Start: 3 @147825 has 109 MA's), (Start: 4 @147849 has 58 MA's), (5, 147864), (6, 147942), (8, 147996), (9, 148041), (10, 148044), (13, 148095), (14, 148101), (15, 148122),

Gene: LolaVinca_251 Start: 148885, Stop: 149202, Start Num: 3

Candidate Starts for LolaVinca_251:

(1, 148726), (Start: 3 @148885 has 109 MA's), (Start: 4 @148909 has 58 MA's), (5, 148924), (6, 149002), (8, 149056), (9, 149101), (10, 149104), (13, 149155), (14, 149161), (15, 149182),

Gene: LordLeafolot_257 Start: 148522, Stop: 148815, Start Num: 4

Candidate Starts for LordLeafolot_257:

(1, 148339), (Start: 3 @148498 has 109 MA's), (Start: 4 @148522 has 58 MA's), (5, 148537), (6, 148615), (8, 148669), (9, 148714), (10, 148717), (13, 148768), (14, 148774), (15, 148795),

Gene: Lukilu_244 Start: 149501, Stop: 149818, Start Num: 3

Candidate Starts for Lukilu_244:

(1, 149342), (Start: 3 @149501 has 109 MA's), (Start: 4 @149525 has 58 MA's), (5, 149540), (6, 149618), (8, 149672), (9, 149717), (10, 149720), (13, 149771), (14, 149777), (15, 149798),

Gene: Maby2021_256 Start: 149378, Stop: 149695, Start Num: 3

Candidate Starts for Maby2021_256:

(1, 149219), (Start: 3 @149378 has 109 MA's), (Start: 4 @149402 has 58 MA's), (5, 149417), (6, 149495), (8, 149549), (9, 149594), (10, 149597), (13, 149648), (14, 149654), (15, 149675),

Gene: Mangeria_255 Start: 149420, Stop: 149713, Start Num: 4

Candidate Starts for Mangeria_255:

(1, 149237), (Start: 3 @149396 has 109 MA's), (Start: 4 @149420 has 58 MA's), (5, 149435), (6, 149513), (8, 149567), (9, 149612), (10, 149615), (13, 149666), (14, 149672), (15, 149693),

Gene: Matsumoto_253 Start: 148511, Stop: 148804, Start Num: 4

Candidate Starts for Matsumoto_253:

(1, 148328), (Start: 3 @148487 has 109 MA's), (Start: 4 @148511 has 58 MA's), (5, 148526), (6, 148604), (8, 148658), (9, 148703), (10, 148706), (13, 148757), (14, 148763), (15, 148784),

Gene: McGee_257 Start: 148833, Stop: 149150, Start Num: 3

Candidate Starts for McGee_257:

(1, 148674), (Start: 3 @148833 has 109 MA's), (Start: 4 @148857 has 58 MA's), (5, 148872), (6, 148950), (8, 149004), (9, 149049), (10, 149052), (13, 149103), (14, 149109), (15, 149130),

Gene: McWolfish_252 Start: 147711, Stop: 148004, Start Num: 4

Candidate Starts for McWolfish_252:

(1, 147528), (Start: 3 @147687 has 109 MA's), (Start: 4 @147711 has 58 MA's), (5, 147726), (6, 147804), (8, 147858), (9, 147903), (10, 147906), (13, 147957), (14, 147963), (15, 147984),

Gene: Megamind_252 Start: 148012, Stop: 148329, Start Num: 3

Candidate Starts for Megamind_252:

(1, 147853), (Start: 3 @148012 has 109 MA's), (Start: 4 @148036 has 58 MA's), (5, 148051), (6, 148129), (8, 148183), (9, 148228), (10, 148231), (13, 148282), (14, 148288), (15, 148309),

Gene: Melpomini_250 Start: 147603, Stop: 147896, Start Num: 4

Candidate Starts for Melpomini_250:

(1, 147420), (Start: 3 @147579 has 109 MA's), (Start: 4 @147603 has 58 MA's), (5, 147618), (6, 147696), (8, 147750), (9, 147795), (10, 147798), (13, 147849), (14, 147855), (15, 147876),

Gene: MikeLiesIn_256 Start: 149148, Stop: 149465, Start Num: 3

Candidate Starts for MikeLiesIn_256:

(1, 148989), (Start: 3 @149148 has 109 MA's), (Start: 4 @149172 has 58 MA's), (5, 149187), (6, 149265), (8, 149319), (9, 149364), (10, 149367), (13, 149418), (14, 149424), (15, 149445),

Gene: Mikro_249 Start: 150422, Stop: 150715, Start Num: 4

Candidate Starts for Mikro_249:

(1, 150239), (Start: 3 @150398 has 109 MA's), (Start: 4 @150422 has 58 MA's), (5, 150437), (6, 150515), (8, 150569), (9, 150614), (10, 150617), (13, 150668), (14, 150674), (15, 150695),

Gene: MoMoMixon_251 Start: 148107, Stop: 148424, Start Num: 3

Candidate Starts for MoMoMixon_251:

(1, 147948), (Start: 3 @148107 has 109 MA's), (Start: 4 @148131 has 58 MA's), (5, 148146), (6, 148224), (8, 148278), (9, 148323), (10, 148326), (13, 148377), (14, 148383), (15, 148404),

Gene: Momo_257 Start: 148045, Stop: 148362, Start Num: 3

Candidate Starts for Momo_257:

(1, 147886), (Start: 3 @148045 has 109 MA's), (Start: 4 @148069 has 58 MA's), (5, 148084), (6, 148162), (8, 148216), (9, 148261), (10, 148264), (13, 148315), (14, 148321), (15, 148342),

Gene: Morizzled23_253 Start: 147885, Stop: 148178, Start Num: 4

Candidate Starts for Morizzled23_253:

(1, 147702), (Start: 3 @147861 has 109 MA's), (Start: 4 @147885 has 58 MA's), (5, 147900), (6, 147978), (8, 148032), (9, 148077), (10, 148080), (13, 148131), (14, 148137), (15, 148158),

Gene: Naija_256 Start: 148772, Stop: 149065, Start Num: 4

Candidate Starts for Naija_256:

(1, 148589), (Start: 3 @148748 has 109 MA's), (Start: 4 @148772 has 58 MA's), (5, 148787), (6, 148865), (8, 148919), (9, 148964), (10, 148967), (13, 149018), (14, 149024), (15, 149045),

Gene: Napoleon13_252 Start: 147801, Stop: 148094, Start Num: 4

Candidate Starts for Napoleon13_252:

(1, 147618), (Start: 3 @147777 has 109 MA's), (Start: 4 @147801 has 58 MA's), (5, 147816), (6, 147894), (8, 147948), (9, 147993), (10, 147996), (13, 148047), (14, 148053), (15, 148074),

Gene: Nappy_254 Start: 149047, Stop: 149364, Start Num: 3

Candidate Starts for Nappy_254:

(1, 148888), (Start: 3 @149047 has 109 MA's), (Start: 4 @149071 has 58 MA's), (5, 149086), (6, 149164), (8, 149218), (9, 149263), (10, 149266), (13, 149317), (14, 149323), (15, 149344),

Gene: Naval22_260 Start: 150552, Stop: 150845, Start Num: 4

Candidate Starts for Naval22_260:

(1, 150369), (Start: 3 @150528 has 109 MA's), (Start: 4 @150552 has 58 MA's), (5, 150567), (6, 150645), (8, 150699), (9, 150744), (10, 150747), (13, 150798), (14, 150804), (15, 150825),

Gene: NedWong_254 Start: 148399, Stop: 148716, Start Num: 3

Candidate Starts for NedWong_254:

(1, 148240), (Start: 3 @148399 has 109 MA's), (Start: 4 @148423 has 58 MA's), (5, 148438), (6, 148516), (8, 148570), (9, 148615), (10, 148618), (13, 148669), (14, 148675), (15, 148696),

Gene: Ngannou_250 Start: 147754, Stop: 148047, Start Num: 4

Candidate Starts for Ngannou_250:

(1, 147571), (Start: 3 @147730 has 109 MA's), (Start: 4 @147754 has 58 MA's), (5, 147769), (6, 147847), (8, 147901), (9, 147946), (10, 147949), (13, 148000), (14, 148006), (15, 148027),

Gene: Nidhogg_256 Start: 149574, Stop: 149891, Start Num: 3

Candidate Starts for Nidhogg_256:

(1, 149415), (Start: 3 @149574 has 109 MA's), (Start: 4 @149598 has 58 MA's), (5, 149613), (6, 149691), (8, 149745), (9, 149790), (10, 149793), (13, 149844), (14, 149850), (15, 149871),

Gene: NoodleTree_251 Start: 144325, Stop: 144642, Start Num: 3

Candidate Starts for NoodleTree_251:

(1, 144166), (Start: 3 @144325 has 109 MA's), (Start: 4 @144349 has 58 MA's), (5, 144364), (6, 144442), (8, 144496), (9, 144541), (10, 144544), (13, 144595), (14, 144601), (15, 144622),

Gene: Norm_255 Start: 148668, Stop: 148985, Start Num: 3

Candidate Starts for Norm_255:

(1, 148509), (Start: 3 @148668 has 109 MA's), (Start: 4 @148692 has 58 MA's), (5, 148707), (6, 148785), (8, 148839), (9, 148884), (10, 148887), (13, 148938), (14, 148944), (15, 148965),

Gene: NuevoMundo_257 Start: 149178, Stop: 149471, Start Num: 4

Candidate Starts for NuevoMundo_257:

(1, 148995), (Start: 3 @149154 has 109 MA's), (Start: 4 @149178 has 58 MA's), (5, 149193), (6, 149271), (8, 149325), (9, 149370), (10, 149373), (13, 149424), (14, 149430), (15, 149451),

Gene: ParkTD_254 Start: 148238, Stop: 148555, Start Num: 3

Candidate Starts for ParkTD_254:

(1, 148079), (Start: 3 @148238 has 109 MA's), (Start: 4 @148262 has 58 MA's), (5, 148277), (6, 148355), (8, 148409), (9, 148454), (10, 148457), (13, 148508), (14, 148514), (15, 148535),

Gene: Patter_257 Start: 148729, Stop: 149022, Start Num: 4

Candidate Starts for Patter_257:

(1, 148546), (Start: 3 @148705 has 109 MA's), (Start: 4 @148729 has 58 MA's), (5, 148744), (6, 148822), (8, 148876), (9, 148921), (10, 148924), (13, 148975), (14, 148981), (15, 149002),

Gene: Phlegm_260 Start: 149451, Stop: 149768, Start Num: 3

Candidate Starts for Phlegm_260:

(1, 149292), (Start: 3 @149451 has 109 MA's), (Start: 4 @149475 has 58 MA's), (5, 149490), (6, 149568), (8, 149622), (9, 149667), (10, 149670), (13, 149721), (14, 149727), (15, 149748),

Gene: Phox_256 Start: 147893, Stop: 148210, Start Num: 3

Candidate Starts for Phox_256:

(1, 147734), (Start: 3 @147893 has 109 MA's), (Start: 4 @147917 has 58 MA's), (5, 147932), (6, 148010), (8, 148064), (9, 148109), (10, 148112), (13, 148163), (14, 148169), (15, 148190),

Gene: Phusco_254 Start: 148283, Stop: 148600, Start Num: 3

Candidate Starts for Phusco_254:

(1, 148124), (Start: 3 @148283 has 109 MA's), (Start: 4 @148307 has 58 MA's), (5, 148322), (6, 148400), (8, 148454), (9, 148499), (10, 148502), (13, 148553), (14, 148559), (15, 148580),

Gene: Pier_254 Start: 149576, Stop: 149893, Start Num: 3

Candidate Starts for Pier_254:

(1, 149417), (Start: 3 @149576 has 109 MA's), (Start: 4 @149600 has 58 MA's), (5, 149615), (6, 149693), (8, 149747), (9, 149792), (10, 149795), (13, 149846), (14, 149852), (15, 149873),

Gene: Pinkcreek_235 Start: 145902, Stop: 146219, Start Num: 3

Candidate Starts for Pinkcreek_235:

(1, 145743), (Start: 3 @145902 has 109 MA's), (Start: 4 @145926 has 58 MA's), (5, 145941), (6, 146019), (8, 146073), (9, 146118), (10, 146121), (13, 146172), (14, 146178), (15, 146199),

Gene: Pio_262 Start: 149972, Stop: 150289, Start Num: 3

Candidate Starts for Pio_262:

(1, 149813), (Start: 3 @149972 has 109 MA's), (Start: 4 @149996 has 58 MA's), (5, 150011), (6, 150089), (8, 150143), (9, 150188), (10, 150191), (13, 150242), (14, 150248), (15, 150269),

Gene: Pivoine_256 Start: 148772, Stop: 149065, Start Num: 4

Candidate Starts for Pivoine_256:

(1, 148589), (Start: 3 @148748 has 109 MA's), (Start: 4 @148772 has 58 MA's), (5, 148787), (6, 148865), (8, 148919), (9, 148964), (10, 148967), (13, 149018), (14, 149024), (15, 149045),

Gene: Pleione_259 Start: 148704, Stop: 149021, Start Num: 3

Candidate Starts for Pleione_259:

(1, 148545), (Start: 3 @148704 has 109 MA's), (Start: 4 @148728 has 58 MA's), (5, 148743), (6, 148821), (8, 148875), (9, 148920), (10, 148923), (13, 148974), (14, 148980), (15, 149001),

Gene: PurduePete_256 Start: 149418, Stop: 149735, Start Num: 3

Candidate Starts for PurduePete_256:

(1, 149259), (Start: 3 @149418 has 109 MA's), (Start: 4 @149442 has 58 MA's), (5, 149457), (6, 149535), (8, 149589), (9, 149634), (10, 149637), (13, 149688), (14, 149694), (15, 149715),

Gene: QBert_247 Start: 147122, Stop: 147415, Start Num: 4

Candidate Starts for QBert_247:

(1, 146939), (Start: 3 @147098 has 109 MA's), (Start: 4 @147122 has 58 MA's), (5, 147137), (6, 147215), (8, 147269), (9, 147314), (10, 147317), (13, 147368), (14, 147374), (15, 147395),

Gene: Quasimodo_258 Start: 149108, Stop: 149401, Start Num: 4

Candidate Starts for Quasimodo_258:

(1, 148925), (Start: 3 @149084 has 109 MA's), (Start: 4 @149108 has 58 MA's), (5, 149123), (6, 149201), (8, 149255), (9, 149300), (10, 149303), (13, 149354), (14, 149360), (15, 149381),

Gene: Rabinovish_248 Start: 147612, Stop: 147905, Start Num: 4

Candidate Starts for Rabinovish_248:

(1, 147429), (Start: 3 @147588 has 109 MA's), (Start: 4 @147612 has 58 MA's), (5, 147627), (6, 147705), (8, 147759), (9, 147804), (10, 147807), (13, 147858), (14, 147864), (15, 147885),

Gene: Rahel_257 Start: 149210, Stop: 149503, Start Num: 4

Candidate Starts for Rahel_257:

(1, 149027), (Start: 3 @149186 has 109 MA's), (Start: 4 @149210 has 58 MA's), (5, 149225), (6, 149303), (8, 149357), (9, 149402), (10, 149405), (13, 149456), (14, 149462), (15, 149483),

Gene: Rizal_244 Start: 147001, Stop: 147318, Start Num: 3

Candidate Starts for Rizal_244:

(1, 146842), (Start: 3 @147001 has 109 MA's), (Start: 4 @147025 has 58 MA's), (5, 147040), (6, 147118), (8, 147172), (9, 147217), (10, 147220), (13, 147271), (14, 147277), (15, 147298),

Gene: RoMag_250 Start: 148806, Stop: 149099, Start Num: 4

Candidate Starts for RoMag_250:

(1, 148623), (Start: 3 @148782 has 109 MA's), (Start: 4 @148806 has 58 MA's), (5, 148821), (6, 148899), (8, 148953), (9, 148998), (10, 149001), (13, 149052), (14, 149058), (15, 149079),

Gene: Ronan_251 Start: 147163, Stop: 147480, Start Num: 3

Candidate Starts for Ronan_251:

(1, 147004), (Start: 3 @147163 has 109 MA's), (Start: 4 @147187 has 58 MA's), (5, 147202), (6, 147280), (8, 147334), (9, 147379), (10, 147382), (13, 147433), (14, 147439), (15, 147460),

Gene: Roots515_258 Start: 149520, Stop: 149837, Start Num: 3

Candidate Starts for Roots515_258:

(1, 149361), (Start: 3 @149520 has 109 MA's), (Start: 4 @149544 has 58 MA's), (5, 149559), (6, 149637), (8, 149691), (9, 149736), (10, 149739), (13, 149790), (14, 149796), (15, 149817),

Gene: Salacia_257 Start: 149844, Stop: 150161, Start Num: 3

Candidate Starts for Salacia_257:

(1, 149685), (Start: 3 @149844 has 109 MA's), (Start: 4 @149868 has 58 MA's), (5, 149883), (6, 149961), (8, 150015), (9, 150060), (10, 150063), (13, 150114), (14, 150120), (15, 150141),

Gene: Sauce_252 Start: 148510, Stop: 148827, Start Num: 3

Candidate Starts for Sauce_252:

(1, 148351), (Start: 3 @148510 has 109 MA's), (Start: 4 @148534 has 58 MA's), (5, 148549), (6, 148627), (8, 148681), (9, 148726), (10, 148729), (13, 148780), (14, 148786), (15, 148807),

Gene: ScottMcG_247 Start: 147735, Stop: 148028, Start Num: 4

Candidate Starts for ScottMcG_247:

(1, 147552), (Start: 3 @147711 has 109 MA's), (Start: 4 @147735 has 58 MA's), (5, 147750), (6, 147828), (8, 147882), (9, 147927), (10, 147930), (13, 147981), (14, 147987), (15, 148008),

Gene: Sebata_255 Start: 148563, Stop: 148880, Start Num: 3

Candidate Starts for Sebata_255:

(1, 148404), (Start: 3 @148563 has 109 MA's), (Start: 4 @148587 has 58 MA's), (5, 148602), (6, 148680), (8, 148734), (9, 148779), (10, 148782), (13, 148833), (14, 148839), (15, 148860),

Gene: Shaqnato_246 Start: 147919, Stop: 148236, Start Num: 3

Candidate Starts for Shaqnato_246:

(1, 147760), (Start: 3 @147919 has 109 MA's), (Start: 4 @147943 has 58 MA's), (5, 147958), (6, 148036), (8, 148090), (9, 148135), (10, 148138), (13, 148189), (14, 148195), (15, 148216),

Gene: Shelob_256 Start: 149862, Stop: 150155, Start Num: 4

Candidate Starts for Shelob_256:

(1, 149679), (Start: 3 @149838 has 109 MA's), (Start: 4 @149862 has 58 MA's), (5, 149877), (6, 149955), (8, 150009), (9, 150054), (10, 150057), (13, 150108), (14, 150114), (15, 150135),

Gene: ShiaLabeouf_253 Start: 147721, Stop: 148014, Start Num: 4

Candidate Starts for ShiaLabeouf_253:

(1, 147538), (Start: 3 @147697 has 109 MA's), (Start: 4 @147721 has 58 MA's), (5, 147736), (6, 147814), (8, 147868), (9, 147913), (10, 147916), (13, 147967), (14, 147973), (15, 147994),

Gene: Shifa_231 Start: 147171, Stop: 147488, Start Num: 3

Candidate Starts for Shifa_231:

(1, 147012), (Start: 3 @147171 has 109 MA's), (Start: 4 @147195 has 58 MA's), (5, 147210), (6, 147288), (8, 147342), (9, 147387), (10, 147390), (13, 147441), (14, 147447), (15, 147468),

Gene: Shnickers_254 Start: 147761, Stop: 148078, Start Num: 3

Candidate Starts for Shnickers_254:

(1, 147602), (Start: 3 @147761 has 109 MA's), (Start: 4 @147785 has 58 MA's), (5, 147800), (6, 147878), (8, 147932), (9, 147977), (10, 147980), (13, 148031), (14, 148037), (15, 148058),

Gene: Shrimp_258 Start: 149455, Stop: 149772, Start Num: 3

Candidate Starts for Shrimp_258:

(1, 149296), (Start: 3 @149455 has 109 MA's), (Start: 4 @149479 has 58 MA's), (5, 149494), (6, 149572), (8, 149626), (9, 149671), (10, 149674), (13, 149725), (14, 149731), (15, 149752),

Gene: SilverDipper_260 Start: 149328, Stop: 149621, Start Num: 4

Candidate Starts for SilverDipper_260:

(1, 149145), (Start: 3 @149304 has 109 MA's), (Start: 4 @149328 has 58 MA's), (5, 149343), (6, 149421), (8, 149475), (9, 149520), (10, 149523), (13, 149574), (14, 149580), (15, 149601),

Gene: SmallFry_256 Start: 148662, Stop: 148979, Start Num: 3

Candidate Starts for SmallFry_256:

(1, 148503), (Start: 3 @148662 has 109 MA's), (Start: 4 @148686 has 58 MA's), (5, 148701), (6, 148779), (8, 148833), (9, 148878), (10, 148881), (13, 148932), (14, 148938), (15, 148959),

Gene: Spec_249 Start: 148698, Stop: 148991, Start Num: 4

Candidate Starts for Spec_249:

(1, 148515), (Start: 3 @148674 has 109 MA's), (Start: 4 @148698 has 58 MA's), (5, 148713), (6, 148791), (8, 148845), (9, 148890), (10, 148893), (13, 148944), (14, 148950), (15, 148971),

Gene: Specks_260 Start: 149602, Stop: 149919, Start Num: 3

Candidate Starts for Specks_260:

(1, 149443), (Start: 3 @149602 has 109 MA's), (Start: 4 @149626 has 58 MA's), (5, 149641), (6, 149719), (8, 149773), (9, 149818), (10, 149821), (13, 149872), (14, 149878), (15, 149899),

Gene: Sprinklers_253 Start: 148394, Stop: 148687, Start Num: 4

Candidate Starts for Sprinklers_253:

(1, 148211), (Start: 3 @148370 has 109 MA's), (Start: 4 @148394 has 58 MA's), (5, 148409), (6, 148487), (8, 148541), (9, 148586), (10, 148589), (13, 148640), (14, 148646), (15, 148667),

Gene: Spud_247 Start: 148119, Stop: 148436, Start Num: 3

Candidate Starts for Spud_247:

(1, 147960), (Start: 3 @148119 has 109 MA's), (Start: 4 @148143 has 58 MA's), (5, 148158), (6, 148236), (8, 148290), (9, 148335), (10, 148338), (13, 148389), (14, 148395), (15, 148416),

Gene: SrishMeg2525_253 Start: 148950, Stop: 149267, Start Num: 3

Candidate Starts for SrishMeg2525_253:

(1, 148791), (Start: 3 @148950 has 109 MA's), (Start: 4 @148974 has 58 MA's), (5, 148989), (6, 149067), (8, 149121), (9, 149166), (10, 149169), (13, 149220), (14, 149226), (15, 149247),

Gene: StephanieG_249 Start: 149305, Stop: 149622, Start Num: 3

Candidate Starts for StephanieG_249:

(1, 149146), (Start: 3 @149305 has 109 MA's), (Start: 4 @149329 has 58 MA's), (5, 149344), (6, 149422), (8, 149476), (9, 149521), (10, 149524), (13, 149575), (14, 149581), (15, 149602),

Gene: Stubby_238 Start: 146114, Stop: 146407, Start Num: 4

Candidate Starts for Stubby_238:

(1, 145931), (Start: 3 @146090 has 109 MA's), (Start: 4 @146114 has 58 MA's), (5, 146129), (6, 146207), (8, 146261), (9, 146306), (10, 146309), (13, 146360), (14, 146366), (15, 146387),

Gene: StubbySaigey_262 Start: 149287, Stop: 149604, Start Num: 3

Candidate Starts for StubbySaigey_262:

(1, 149128), (Start: 3 @149287 has 109 MA's), (Start: 4 @149311 has 58 MA's), (5, 149326), (6, 149404), (8, 149458), (9, 149503), (10, 149506), (13, 149557), (14, 149563), (15, 149584),

Gene: Teardrop_254 Start: 148614, Stop: 148931, Start Num: 3

Candidate Starts for Teardrop_254:

(1, 148455), (Start: 3 @148614 has 109 MA's), (Start: 4 @148638 has 58 MA's), (5, 148653), (6, 148731), (8, 148785), (9, 148830), (10, 148833), (13, 148884), (14, 148890), (15, 148911),

Gene: TinyTim_254 Start: 147798, Stop: 148091, Start Num: 4

Candidate Starts for TinyTim_254:

(1, 147615), (Start: 3 @147774 has 109 MA's), (Start: 4 @147798 has 58 MA's), (5, 147813), (6, 147891), (8, 147945), (9, 147990), (10, 147993), (13, 148044), (14, 148050), (15, 148071),

Gene: Tonenili_277 Start: 153108, Stop: 153425, Start Num: 3

Candidate Starts for Tonenili_277:

(2, 153021), (Start: 3 @153108 has 109 MA's), (7, 153267), (8, 153279), (9, 153324), (10, 153327), (11, 153330), (12, 153372), (13, 153378), (14, 153384), (16, 153414),

Gene: Tortoise16_253 Start: 147787, Stop: 148104, Start Num: 3

Candidate Starts for Tortoise16_253:

(1, 147628), (Start: 3 @147787 has 109 MA's), (Start: 4 @147811 has 58 MA's), (5, 147826), (6, 147904), (8, 147958), (9, 148003), (10, 148006), (13, 148057), (14, 148063), (15, 148084),

Gene: Trinitium_252 Start: 147335, Stop: 147652, Start Num: 3

Candidate Starts for Trinitium_252:

(1, 147176), (Start: 3 @147335 has 109 MA's), (Start: 4 @147359 has 58 MA's), (5, 147374), (6, 147452), (8, 147506), (9, 147551), (10, 147554), (13, 147605), (14, 147611), (15, 147632),

Gene: Turret_246 Start: 146468, Stop: 146785, Start Num: 3

Candidate Starts for Turret_246:

(1, 146309), (Start: 3 @146468 has 109 MA's), (Start: 4 @146492 has 58 MA's), (5, 146507), (6, 146585), (8, 146639), (9, 146684), (10, 146687), (13, 146738), (14, 146744), (15, 146765),

Gene: Tyke_252 Start: 149934, Stop: 150227, Start Num: 4

Candidate Starts for Tyke_252:

(1, 149751), (Start: 3 @149910 has 109 MA's), (Start: 4 @149934 has 58 MA's), (5, 149949), (6, 150027), (8, 150081), (9, 150126), (10, 150129), (13, 150180), (14, 150186), (15, 150207),

Gene: ValleyTerrace_256 Start: 148069, Stop: 148362, Start Num: 4

Candidate Starts for ValleyTerrace_256:

(1, 147886), (Start: 3 @148045 has 109 MA's), (Start: 4 @148069 has 58 MA's), (5, 148084), (6, 148162), (8, 148216), (9, 148261), (10, 148264), (13, 148315), (14, 148321), (15, 148342),

Gene: Wally_253 Start: 148029, Stop: 148346, Start Num: 3

Candidate Starts for Wally_253:

(1, 147870), (Start: 3 @148029 has 109 MA's), (Start: 4 @148053 has 58 MA's), (5, 148068), (6, 148146), (8, 148200), (9, 148245), (10, 148248), (13, 148299), (14, 148305), (15, 148326),

Gene: Willis_256 Start: 148968, Stop: 149285, Start Num: 3

Candidate Starts for Willis_256:

(1, 148809), (Start: 3 @148968 has 109 MA's), (Start: 4 @148992 has 58 MA's), (5, 149007), (6, 149085), (8, 149139), (9, 149184), (10, 149187), (13, 149238), (14, 149244), (15, 149265),

Gene: Yassified_251 Start: 148164, Stop: 148481, Start Num: 3

Candidate Starts for Yassified_251:

(1, 148005), (Start: 3 @148164 has 109 MA's), (Start: 4 @148188 has 58 MA's), (5, 148203), (6, 148281), (8, 148335), (9, 148380), (10, 148383), (13, 148434), (14, 148440), (15, 148461),

Gene: YemiJoy2021_256 Start: 148916, Stop: 149209, Start Num: 4

Candidate Starts for YemiJoy2021_256:

(1, 148733), (Start: 3 @148892 has 109 MA's), (Start: 4 @148916 has 58 MA's), (5, 148931), (6, 149009), (8, 149063), (9, 149108), (10, 149111), (13, 149162), (14, 149168), (15, 149189),

Gene: YoungMoneyMata_255 Start: 149160, Stop: 149477, Start Num: 3

Candidate Starts for YoungMoneyMata_255:

(1, 149001), (Start: 3 @149160 has 109 MA's), (Start: 4 @149184 has 58 MA's), (5, 149199), (6, 149277), (8, 149331), (9, 149376), (10, 149379), (13, 149430), (14, 149436), (15, 149457),

Gene: Yucca_256 Start: 149333, Stop: 149650, Start Num: 3

Candidate Starts for Yucca_256:

(1, 149174), (Start: 3 @149333 has 109 MA's), (Start: 4 @149357 has 58 MA's), (5, 149372), (6, 149450), (8, 149504), (9, 149549), (10, 149552), (13, 149603), (14, 149609), (15, 149630),

Gene: Zalkecks_254 Start: 147990, Stop: 148307, Start Num: 3

Candidate Starts for Zalkecks_254:

(1, 147831), (Start: 3 @147990 has 109 MA's), (Start: 4 @148014 has 58 MA's), (5, 148029), (6, 148107), (8, 148161), (9, 148206), (10, 148209), (13, 148260), (14, 148266), (15, 148287),

Gene: Zeenon_256 Start: 148524, Stop: 148841, Start Num: 3

Candidate Starts for Zeenon_256:

(1, 148365), (Start: 3 @148524 has 109 MA's), (Start: 4 @148548 has 58 MA's), (5, 148563), (6, 148641), (8, 148695), (9, 148740), (10, 148743), (13, 148794), (14, 148800), (15, 148821),

Gene: ZygoTaiga_252 Start: 150437, Stop: 150754, Start Num: 3

Candidate Starts for ZygoTaiga_252:

(1, 150278), (Start: 3 @150437 has 109 MA's), (Start: 4 @150461 has 58 MA's), (5, 150476), (6, 150554), (8, 150608), (9, 150653), (10, 150656), (13, 150707), (14, 150713), (15, 150734),