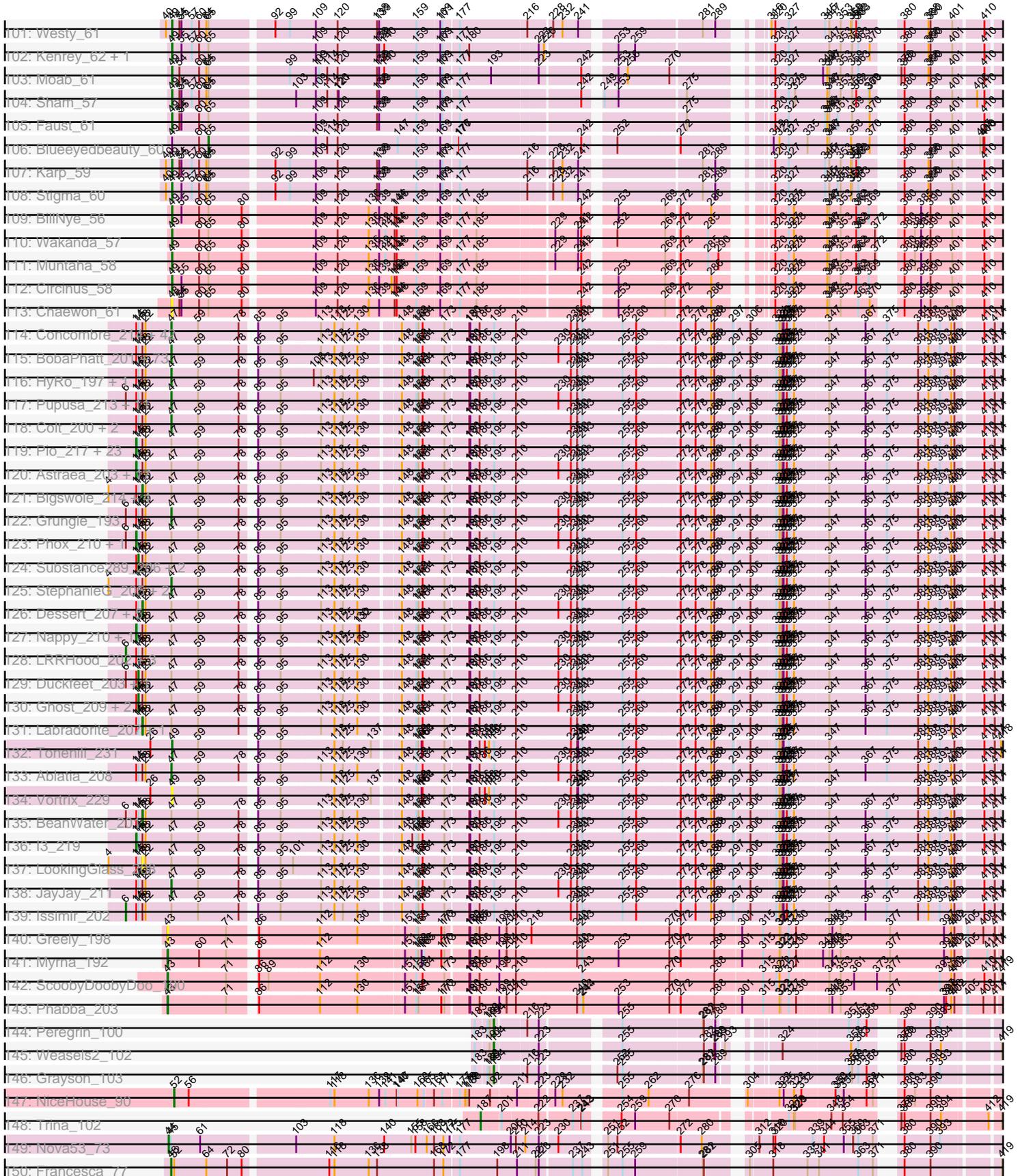
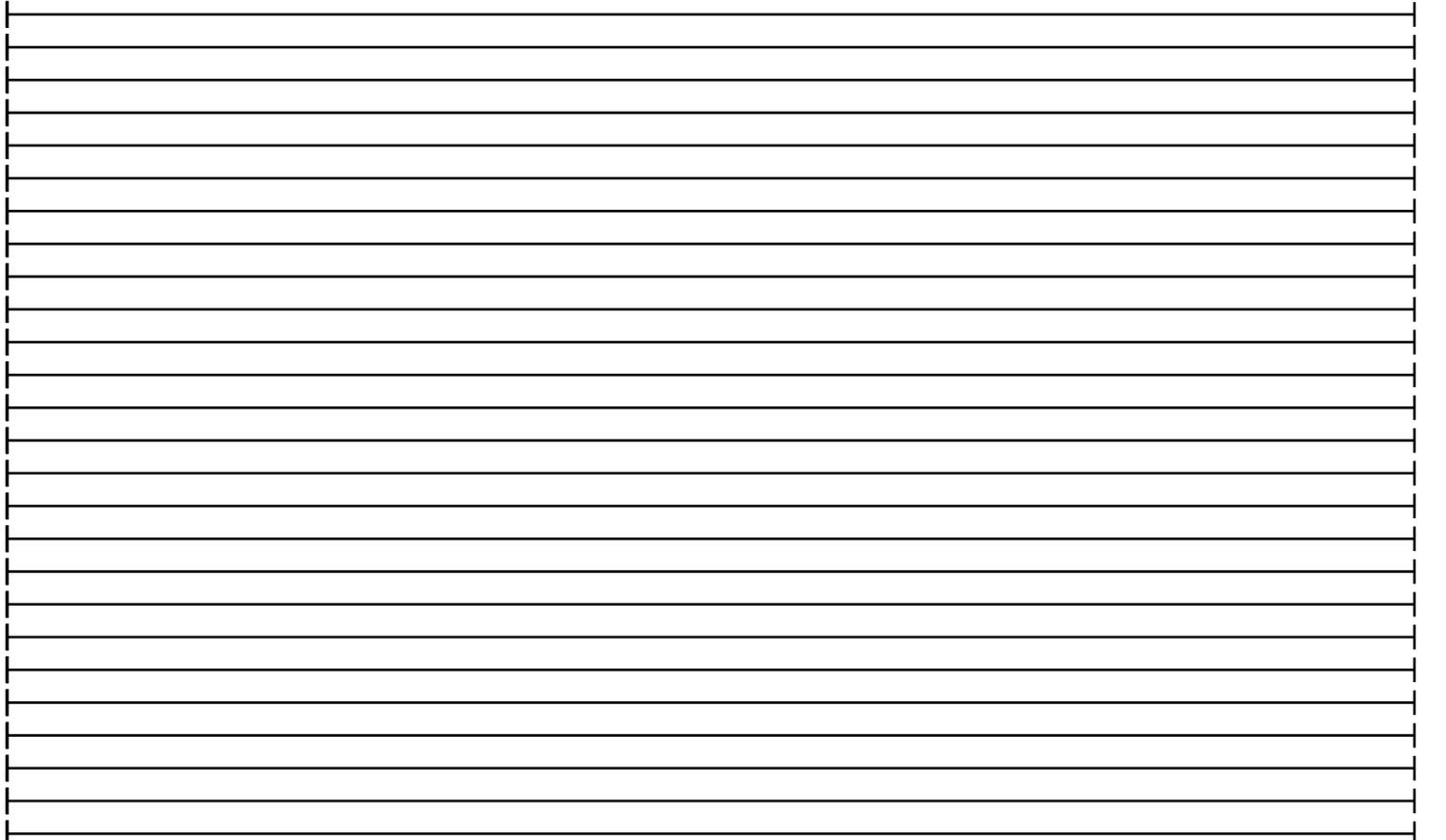
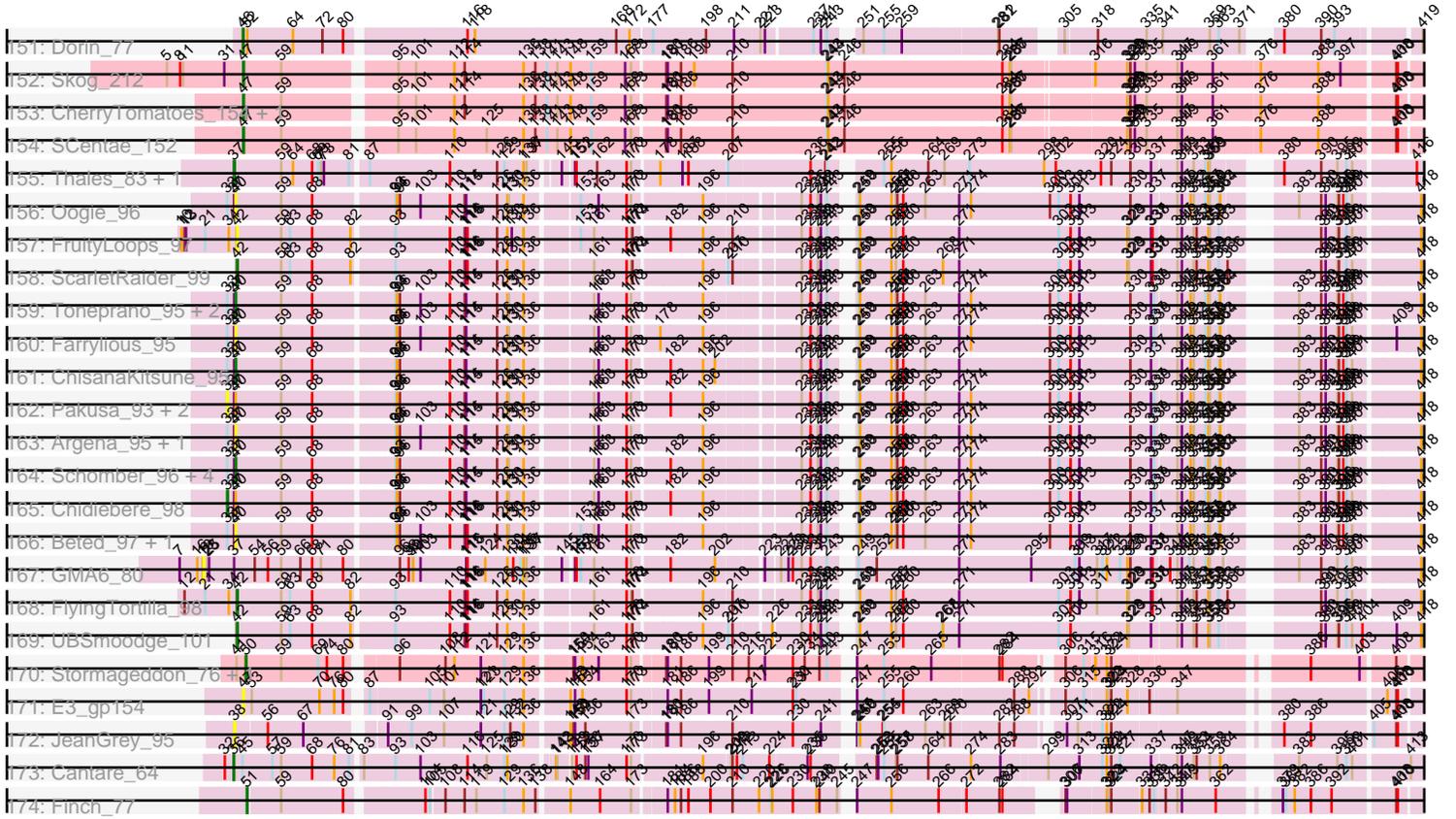


Zoomed Pham 283375



Zoomed Pham 283375



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 283375 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283375 has 441 members, 66 are drafts.

Phages represented in each track:

- Track 1 : Phrappuccino_119, Settecandela_119
- Track 2 : Leviticus_53
- Track 3 : Lika_54
- Track 4 : Legacy_52
- Track 5 : Danzina_56
- Track 6 : Triste_55, Chucky_54, Emaanora_57, Whatever_54, TagePhighter_56
- Track 7 : Lannister_54
- Track 8 : Goby_55, Toma_55
- Track 9 : BryanRecycles_55, Rusticus_55, Izzy_55, Jash_55, Oliynyk_55
- Track 10 : Hippo_54
- Track 11 : Bovely_53, Nerdos_52, Indigo_52, Phettuccine_53, Aaronocolus_53
- Track 12 : Snorlax_54, Dwayne_54, Ejemplo_52, TuanPN_52
- Track 13 : Katalie_54, RedBear_55, South40_54
- Track 14 : Sujidade_55
- Track 15 : Lorelei_55
- Track 16 : BeardedLady_53
- Track 17 : Celeste_56
- Track 18 : Maneekul_54
- Track 19 : Esperer_53
- Track 20 : SunsetPointe_52, Ozzie_52
- Track 21 : Godpower_56
- Track 22 : Zemlya_55
- Track 23 : BarryBee_57
- Track 24 : Nabi_55
- Track 25 : SarahRose_54
- Track 26 : Brataylor_57
- Track 27 : Yasdnil_54
- Track 28 : Dattran_57
- Track 29 : Caliburn_52
- Track 30 : Asten_54
- Track 31 : EnochSoames_57
- Track 32 : Nanodon_56
- Track 33 : Werner_54
- Track 34 : OzzyJ_56
- Track 35 : Hydra_54
- Track 36 : Eddasa_55
- Track 37 : Unstoppable_53

- Track 38 : Rana_55
- Track 39 : VieEnRose_54
- Track 40 : Urza_53, Itza_54, Celia_53
- Track 41 : Daubenski_81, Cadmus_78
- Track 42 : Cursive_78, PacManQ_79, Cross_80, Coogler_80, HangryHippo_80, Watermoore_80, BlueOtter_80, Lululemon_79, Leo04_81
- Track 43 : Larnav_80, Tribute_78
- Track 44 : Paradiddles_75
- Track 45 : Evy_80
- Track 46 : Braelyn_79
- Track 47 : Deutsch_80
- Track 48 : Squillium_79, Bartholomune_78, Eliot67_77, Liandry_78, Persimmon_77, FreddyDRoo_77, PinkiePie_78
- Track 49 : Bmoc_78
- Track 50 : Shuckle_78
- Track 51 : LilSaint_83
- Track 52 : Scheme_81
- Track 53 : EGole_81
- Track 54 : LilMartin_77, MulchMansion_77, Angela_76
- Track 55 : Pepperwood_80
- Track 56 : Jay2Jay_84
- Track 57 : Anedea_78
- Track 58 : NootNoot_75
- Track 59 : Navo_77
- Track 60 : Peebs_79
- Track 61 : WhereRU_77, Davielle_78
- Track 62 : Sushi23_79
- Track 63 : Warpy_83
- Track 64 : Marsus_78
- Track 65 : Mildred21_78
- Track 66 : Targaryen_80
- Track 67 : Samisti12_80
- Track 68 : Riptide_76
- Track 69 : Battuta_80, Starbow_80
- Track 70 : Birchlyn_79
- Track 71 : Elmer_84
- Track 72 : PumpkinSpice_81, Jollison_81, Quaran19_81, Rikishi_82
- Track 73 : Brizzy_81, IchabodCrane_79, Spilled_83
- Track 74 : Wofford_81
- Track 75 : Genie2_82, BoomerJR_82, Stanimal_82, AngryGiraffe_81
- Track 76 : Gibbi_86, JimJam_82, CeilingFan_81, Karimac_81
- Track 77 : Tomas_84
- Track 78 : Spelly_82, AcciDwight_85
- Track 79 : KentuckyRacer_82
- Track 80 : Sollertia_82
- Track 81 : TomSawyer_80
- Track 82 : Mugiwara_81
- Track 83 : MindFlayer_79, Amabiko_82
- Track 84 : Wipeout_79
- Track 85 : StarPlatinum_82
- Track 86 : LukeCage_81
- Track 87 : Bordeaux_80
- Track 88 : Enygma_82

- Track 89 : SaltySpittoon_81
- Track 90 : Yaboi_82
- Track 91 : Annadreamy_58, Limpid_57
- Track 92 : Belfort_62, SparkleGoddess_61
- Track 93 : SeresaTree_61
- Track 94 : Patelgo_60
- Track 95 : Forrest_62, Gilson_61, Maupel_60, Jada_60, MeganTheeKilla_59
- Track 96 : Comrade_61
- Track 97 : Francob_59
- Track 98 : TunaTartare_59
- Track 99 : DeluluLabubu_59, Emma1919_62
- Track 100 : Beuffert_58
- Track 101 : Westy_61
- Track 102 : Kenrey_62, Phredrick_60
- Track 103 : Moab_61
- Track 104 : Sham_57
- Track 105 : Faust_61
- Track 106 : Blueeyedbeauty_60
- Track 107 : Karp_59
- Track 108 : Stigma_60
- Track 109 : BillNye_56
- Track 110 : Wakanda_57
- Track 111 : Muntaha_58
- Track 112 : Circinus_58
- Track 113 : Chaewon_61
- Track 114 : Concombre_214, Bxz1_199, LolaVinca_207, Phusco_207, NoodleTree_215, Asterius_211, DirtMonster_202, Kamryn_208, Essence_206, Rahel_210, RoMag_204, SmallFry_209, Teardrop_206, FrayBell_212, Demodog_215, TinyTim_207, Domi_203, Iota_204, SrishMeg2525_206, ShiaLabeouf_206, Primadonna_204, Blackbrain_206, Melpomini_204, Darko_208, Shnickers_207, BananaFence_206, Specks_213, Phlegm_213, Fongie_210, Tortoise16_207, LordLeafolot_210, JigglyPuff_216, CindyLou_210, PharkleMinkus_211, NuevoMundo_212, Tainan_210, Spec_204, Gabriel_212, Mikro_205, Maby2021_209, Capablanca_214, FoxtrotP1_207, Bowman_207
- Track 115 : BobaPhatt_201, Shelob_210, MikeLiesIn_211, Basquiat_206, Naval22_214, Ngannou_206, Turret_202, ChickenPhender_205, Cleatunium_202, EmToTheThree_209, Bonray_211, Gamgam_210, InigoMontoya_212, Atlantean_209, Lee7_209, Janiyra_212, Flabslab_204, Nidhogg_210, Stubby_193, Morizzled23_206, JustHall_203, Bipolarisk_207, Delilah_207, Ading_210, Momo_210, Babyland_212, NedWong_208, InterFolia_212, Lunareta_207, ParkTD_208, Fludd_209, Matsumoto_207, Willis_210, Montpel_207, Khaleesi_208, Belieber_202, Lethe_209, Kboogie_213, ScottMcG_202, Quasimodo_211, Naija_210, Catera_201, DrPhinkDaddy_206, Cactojaque_204, EmmaElysia_212, StubbySaigey_214, Ewok_208, Trinitium_205, YoungMoneyMata_207, Fixie_209, McWolfish_206, ValleyTerrace_210, OrediggerDelux_205, Amataga_210, Napoleon13_206, Loanshark_206, Patter_210, Latch_209, Chomp_209, YemiJoy2021_210, Audrick_211, DeejaClivia_197, Zeenon_211, Izajani_207, Ava3_208, Maturis_206, ChaylaJr_206, Pivoine_210, Chargie21_206, Jessibeth14_209, PurduePete_209, Rocha_206, Moiqah_204, Spud_203
- Track 116 : HyRo_197, Shifa_186
- Track 117 : Pupusa_213, Halldule_202, Shaqnato_200, Bezza_198, Yassified_206, Norm_209, Sauce_205, QBert_201, Ronan_205, JulietS_200, Blackdragon_204, Sprinklers_207

- Track 118 : Colt_200, Cane17_200, Blubba_198
- Track 119 : Pio_217, Erdmann_210, Bangla1971_209, Shrimp_211, ArcherS7_209, Jezreel_206, Delylah_211, Derek_206, LifeSavor_208, EasyJones_212, Drazdys_207, Breeniome_208, SVoro_205, Gizmo_215, Mangeria_210, Tyke_207, DTDevon_211, Jedediah_209, Guwapp_204, Burrough_211, Bread_204, JPickles_205, Salacia_209, Caravan_200
- Track 120 : Astraea_203, Littleton_212, ZygoTaiga_206, Roots515_211, McGee_208, FudgeTart_204, Daffodil_214, Rizal_201, ErnieJ_202, Wally_207, GlutenPhree_210, Pinkcreek_193, Megamind_206, Zalkecks_208, Yucca_209, BackyardAgain_204, Rabinovish_202, SilverDipper_213
- Track 121 : Bigswole_214, Grasshills_217, EggyFarm_218, BigCity_218, Pier_210
- Track 122 : Grungle_193
- Track 123 : Phox_210, Koguma_208
- Track 124 : Substance289_206, MoMoMixon_207, Sebata_210
- Track 125 : StephanieG_205, IkeLoa_201, BadAgartude_203
- Track 126 : Dessert_207, LinStu_208, Adlitam_208, Dietrick_198, Moby_205, Jemmno_208
- Track 127 : Nappy_210, Dandelion_217
- Track 128 : LRRHood_202, CharlieB_203, Lukilu_200, ET08_197
- Track 129 : Duckfeet_203, Cali_202
- Track 130 : Ghost_209, Alice_196, Pleione_213
- Track 131 : Labradorite_207, Jaygup_205
- Track 132 : Tonenili_231
- Track 133 : Ablatia_208
- Track 134 : Vortrix_229
- Track 135 : BeanWater_201
- Track 136 : I3_219
- Track 137 : LookingGlass_208
- Track 138 : JayJay_211
- Track 139 : Issimir_202
- Track 140 : Greely_198
- Track 141 : Myrna_192
- Track 142 : ScoobyDoobyDoo_190
- Track 143 : Phabba_203
- Track 144 : Peregrin_100
- Track 145 : Weasels2_102
- Track 146 : Grayson_103
- Track 147 : NiceHouse_90
- Track 148 : Trina_102
- Track 149 : Nova53_73
- Track 150 : Francesca_77
- Track 151 : Dorin_77
- Track 152 : Skog_212
- Track 153 : CherryTomatoes_154, Pupper_153
- Track 154 : SCentae_152
- Track 155 : Thales_83, DalanDe_85
- Track 156 : Oogie_96
- Track 157 : FruityLoops_97
- Track 158 : ScarletRaider_99
- Track 159 : Toneprano_95, Gray_98, Amoonguss_95
- Track 160 : Farrylious_95
- Track 161 : ChisanaKitsune_95
- Track 162 : Pakusa_93, Twin_92, Mikronejon_93

- Track 163 : Argena_95, MintFritos_93
- Track 164 : Schomber_96, Aloki_92, Hanem_97, Kabocha_99, EmoNemo_92
- Track 165 : Chidiebere_98
- Track 166 : Beted_97, Lenoshki_97
- Track 167 : GMA6_80
- Track 168 : FlyingTortilla_98
- Track 169 : UBSmoodge_101
- Track 170 : Stormageddon_76, RedWattleHog_79
- Track 171 : E3_gp154
- Track 172 : JeanGrey_95
- Track 173 : Cantare_64
- Track 174 : Finch_77

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

The start number called the most often in the published annotations is 47, it was called in 171 of the 375 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aaronocolus_53, Ablatia_208, Ading_210, Amataga_210, Asten_54, Asterius_211, Atlantean_209, Audrick_211, Ava3_208, Babyland_212, BadAgartude_203, BananaFence_206, BarryBee_57, Basquiat_206, BeardedLady_53, Belieber_202, Bezza_198, Bipolarisk_207, Blackbrain_206, Blackdragon_204, Blubba_198, BobaPhatt_201, Bonray_211, Bovely_53, Bowman_207, Brataylor_57, BryanRecycles_55, Bxz1_199, Cactojaque_204, Caliburn_52, Cane17_200, Capablanca_214, Catera_201, Celeste_56, Celia_53, Chargie21_206, ChaylaJr_206, CherryTomatoes_154, ChickenPhender_205, Chomp_209, Chucky_54, CindyLou_210, Cleatunium_202, Colt_200, Concombre_214, Danzina_56, Darko_208, Dattran_57, DeejaClivia_197, Delilah_207, Demodog_215, DirtMonster_202, Domi_203, DrPhinkDaddy_206, Dwayne_54, E3_gp154, Eddasa_55, Ejemplo_52, EmToTheThree_209, Emaanora_57, EmmaElysia_212, EnochSoames_57, Esperer_53, Essence_206, Ewok_208, Fixie_209, Flabslab_204, Fludd_209, Fongie_210, FoxtrotP1_207, FrayBell_212, Gabriel_212, Gangam_210, Goby_55, Godpower_56, Grungle_193, Halldule_202, Hippo_54, HyRo_197, Hydra_54, IkeLoa_201, Indigo_52, InigoMontoya_212, InterFolia_212, Iota_204, Itza_54, Izajani_207, Izzy_55, Janiyra_212, Jash_55, JayJay_211, Jessibeth14_209, JigglyPuff_216, JulietS_200, JustHall_203, Kamryn_208, Katalie_54, Kboogie_213, Khaleesi_208, Lannister_54, Latch_209, Lee7_209, Legacy_52, Lethe_209, Leviticus_53, Loanshark_206, LolaVinca_207, LordLeafolot_210, Lunareta_207, Maby2021_209, Maneekul_54, Matsumoto_207, Maturis_206, McWolfish_206, Melpomini_204, MikeLiesIn_211, Mikro_205, Moiqah_204, Momo_210, Montpel_207, Morizzled23_206, Nabi_55, Naija_210, Nanodon_56, Napoleon13_206, Naval22_214, NedWong_208, Nerdos_52, Ngannou_206, Nidhogg_210, NoodleTree_215, Norm_209, NuevoMundo_212, Oliynyk_55, OrediggerDelux_205, Ozzie_52, OzzyJ_56, ParkTD_208, Patter_210, PharkleMinkus_211, Phettuccine_53, Phlegm_213, Phusco_207, Pivoine_210, Primadonna_204, Pupper_153, Pupusa_213, PurduePete_209, QBert_201, Quasimodo_211, Rahel_210, RedBear_55, RoMag_204, Rocha_206, Ronan_205, Rusticus_55, SCentae_152, SarahRose_54, Sauce_205, ScottMcG_202, Shaq nato_200, Shelob_210, ShiaLabeouf_206, Shifa_186, Shnickers_207, Skog_212, SmallFry_209, Snorlax_54,

South40_54, Spec_204, Specks_213, Sprinklers_207, Spud_203, SrishMeg2525_206, StephanieG_205, StubbySaigey_214, Stubby_193, Sujidade_55, SunsetPointe_52, TagePhighter_56, Tainan_210, Teardrop_206, TinyTim_207, Toma_55, Tortoise16_207, Trinitium_205, Triste_55, TuanPN_52, Turret_202, Unstoppable_53, Urza_53, ValleyTerrace_210, VieEnRose_54, Werner_54, Whatever_54, Willis_210, Yassified_206, YemiJoy2021_210, YoungMoneyMata_207, Zeenon_211,

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

- Adlitam_208, Alice_196, ArcherS7_209, Astraea_203, BackyardAgain_204, Bangla1971_209, BeanWater_201, BigCity_218, Bigswole_214, Bread_204, Breeniome_208, Burrough_211, Cali_202, Caravan_200, CharlieB_203, DTDevon_211, Daffodil_214, Dandelion_217, Delylah_211, Derek_206, Dessert_207, Dietrick_198, Drazdys_207, Duckfeet_203, ET08_197, EasyJones_212, EggyFarm_218, Erdmann_210, ErnieJ_202, FudgeTart_204, Ghost_209, Gizmo_215, GlutenPhree_210, Grasshills_217, Guwapp_204, I3_219, Issimir_202, JPickles_205, Jaygup_205, Jedediah_209, Jemmno_208, Jezreel_206, Koguma_208, LRRHood_202, Labradorite_207, LifeSavor_208, LinStu_208, Littleton_212, LookingGlass_208, Lorelei_55, Lukilu_200, Mangeria_210, McGee_208, Megamind_206, MoMoMixon_207, Moby_205, Nappy_210, Phox_210, Phrappuccino_119, Pier_210, Pinkcreek_193, Pio_217, Pleione_213, Rabinovish_202, Rizal_201, Roots515_211, SVoro_205, Salacia_209, Sebata_210, Settecandela_119, Shrimp_211, SilverDipper_213, Substance289_206, Tyke_207, Wally_207, Yasdnil_54, Yucca_209, Zalkecks_208, ZygoTaiga_206,

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

- AcciDwight_85, Alok_92, Amabiko_82, Amoonguss_95, Anedea_78, Angela_76, AngryGiraffe_81, Annadreamy_58, Argena_95, Bartholomune_78, Battuta_80, Belfort_62, Beted_97, Beuffert_58, BillNye_56, Birchlyn_79, BlueOtter_80, Blueeyedbeauty_60, Bmoc_78, BoomerJR_82, Bordeaux_80, Braelyn_79, Brizzy_81, Cadmus_78, Cantare_64, CeilingFan_81, Chaewon_61, Chidiebere_98, ChisanaKitsune_95, Circinus_58, Comrade_61, Coogler_80, Cross_80, Cursive_78, DalanDe_85, Daubenski_81, Davielle_78, DeluluLabubu_59, Dorin_77, EGole_81, Eliot67_77, Elmer_84, Emma1919_62, EmoNemo_92, Enygma_82, Evy_80, Farrylous_95, Faust_61, Finch_77, FlyingTortilla_98, Forrest_62, Francesca_77, Francob_59, FreddyDRoo_77, FruityLoops_97, GMA6_80, Genie2_82, Gibbi_86, Gilson_61, Gray_98, Grayson_103, Greely_198, Hanem_97, HangryHippo_80, IchabodCrane_79, Jada_60, Jay2Jay_84, JeanGrey_95, JimJam_82, Jollison_81, Kabocha_99, Karimac_81, Karp_59, Kenrey_62, KentuckyRacer_82, Larnav_80, Lenoshki_97, Leo04_81, Liandry_78, Lika_54, LilMartin_77, LilSaint_83, Limpid_57, LukeCage_81, Lululemon_79, Marsus_78, Maupel_60, MeganTheeKilla_59, Mikronejon_93, Mildred21_78, MindFlayer_79, MintFritos_93, Moab_61, Mugiwara_81, MulchMansion_77, Muntaha_58, Myrna_192, Navo_77, NiceHouse_90, NootNoot_75, Nova53_73, Oogie_96, PacManQ_79, Pakusa_93, Paradiddles_75, Patelgo_60, Peebs_79, Pepperwood_80, Peregrin_100, Persimmon_77, Phabba_203, Phredrick_60, PinkiePie_78, PumpkinSpice_81, Quarant19_81, Rana_55, RedWattleHog_79, Rikishi_82, Riptide_76, SaltySpittoon_81, Samisti12_80, ScarletRaider_99, Scheme_81, Schomber_96, ScoobyDoobyDoo_190, SeresaTree_61, Sham_57, Shuckle_78, Sollertia_82, SparkleGoddess_61, Spelly_82, Spilled_83, Squillium_79, Stanimal_82, StarPlatinum_82, Starbow_80, Stigma_60, Stormageddon_76, Sushi23_79, Targaryen_80, Teutsch_80, Thales_83, TomSawyer_80, Tomas_84, Tonenili_231, Toneprano_95, Tribute_78, Trina_102, TunaTartare_59, Twin_92, UBSmoodge_101,

Vortrix_229, Wakanda_57, Warpy_83, Watermoore_80, Weasels2_102, Westy_61, WhereRU_77, Wipeout_79, Wofford_81, Yaboi_82, Zemlya_55,

Summary by start number:

Start 6:

- Found in 23 of 441 (5.2%) of genes in pham
- Manual Annotations of this start: 5 of 375
- Called 21.7% of time when present
- Phage (with cluster) where this start called: CharlieB_203 (C1), ET08_197 (C1), Issimir_202 (C1), LRRHood_202 (C1), Lukilu_200 (C1),

Start 14:

- Found in 215 of 441 (48.8%) of genes in pham
- Manual Annotations of this start: 47 of 375
- Called 21.9% of time when present
- Phage (with cluster) where this start called: ArcherS7_209 (C1), Astraea_203 (C1), BackyardAgain_204 (C1), Bangla1971_209 (C1), Bread_204 (C1), Breeniome_208 (C1), Burrough_211 (C1), Caravan_200 (C1), DTDevon_211 (C1), Daffodil_214 (C1), Dandelion_217 (C1), Delylah_211 (C1), Derek_206 (C1), Drazdys_207 (C1), EasyJones_212 (C1), Erdmann_210 (C1), ErnieJ_202 (C1), FudgeTart_204 (C1), Gizmo_215 (C1), GlutenPhree_210 (C1), Guwapp_204 (C1), I3_219 (C1), JPickles_205 (C1), Jedediah_209 (C1), Jezreel_206 (C1), Koguma_208 (C1), LifeSavor_208 (C1), Littleton_212 (C1), Mangeria_210 (C1), McGee_208 (C1), Megamind_206 (C1), Nappy_210 (C1), Phox_210 (C1), Pinkcreek_193 (C1), Pio_217 (C1), Rabinovish_202 (C1), Rizal_201 (C1), Roots515_211 (C1), SVoro_205 (C1), Salacia_209 (C1), Shrimp_211 (C1), SilverDipper_213 (C1), Tyke_207 (C1), Wally_207 (C1), Yucca_209 (C1), Zalkecks_208 (C1), ZygoTaiga_206 (C1),

Start 15:

- Found in 215 of 441 (48.8%) of genes in pham
- Manual Annotations of this start: 6 of 375
- Called 3.7% of time when present
- Phage (with cluster) where this start called: Alice_196 (C1), Cali_202 (C1), Duckfeet_203 (C1), Ghost_209 (C1), MoMoMixon_207 (C1), Pleione_213 (C1), Sebata_210 (C1), Substance289_206 (C1),

Start 18:

- Found in 215 of 441 (48.8%) of genes in pham
- Manual Annotations of this start: 8 of 375
- Called 7.0% of time when present
- Phage (with cluster) where this start called: Adlitam_208 (C1), BeanWater_201 (C1), BigCity_218 (C1), Bigswole_214 (C1), Dessert_207 (C1), Dietrick_198 (C1), EggyFarm_218 (C1), Grasshills_217 (C1), Jaygup_205 (C1), Jemmno_208 (C1), Labradorite_207 (C1), LinStu_208 (C1), LookingGlass_208 (C1), Moby_205 (C1), Pier_210 (C1),

Start 19:

- Found in 5 of 441 (1.1%) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: GMA6_80 (DQ),

Start 21:

- Found in 36 of 441 (8.2%) of genes in pham
- Manual Annotations of this start: 1 of 375
- Called 2.8% of time when present
- Phage (with cluster) where this start called: Lorelei_55 (BD1),

Start 27:

- Found in 2 of 441 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 375
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phrappuccino_119 (AA), Settecandela_119 (AA),

Start 33:

- Found in 19 of 441 (4.3%) of genes in pham
- Manual Annotations of this start: 1 of 375
- Called 21.1% of time when present
- Phage (with cluster) where this start called: Chidiebere_98 (DQ), Mikronejon_93 (DQ), Pakusa_93 (DQ), Twin_92 (DQ),

Start 36:

- Found in 1 of 441 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 375
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cantare_64 (singleton),

Start 37:

- Found in 22 of 441 (5.0%) of genes in pham
- Manual Annotations of this start: 1 of 375
- Called 9.1% of time when present
- Phage (with cluster) where this start called: DalanDe_85 (DQ), Thales_83 (DQ),

Start 38:

- Found in 1 of 441 (0.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JeanGrey_95 (singleton),

Start 40:

- Found in 25 of 441 (5.7%) of genes in pham
- Manual Annotations of this start: 5 of 375
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Aloki_92 (DQ), Amoonguss_95 (DQ), Argena_95 (DQ), Beted_97 (DQ), ChisanaKitsune_95 (DQ), EmoNemo_92 (DQ), Farrylious_95 (DQ), Gray_98 (DQ), Hanem_97 (DQ), Kabocha_99 (DQ), Lenoshki_97 (DQ), MintFritos_93 (DQ), Oogie_96 (DQ), Schomber_96 (DQ), Toneprano_95 (DQ),

Start 42:

- Found in 4 of 441 (0.9%) of genes in pham
- Manual Annotations of this start: 3 of 375
- Called 100.0% of time when present
- Phage (with cluster) where this start called: FlyingTortilla_98 (DQ), FruityLoops_97 (DQ), ScarletRaider_99 (DQ), UBSmoodge_101 (DQ),

Start 43:

- Found in 4 of 441 (0.9%) of genes in pham
- Manual Annotations of this start: 3 of 375
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Greely_198 (C2), Myrna_192 (C2), Phabba_203 (C2), ScoobyDoobyDoo_190 (C2),

Start 44:

- Found in 1 of 441 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 375
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nova53_73 (CG),

Start 46:

- Found in 2 of 441 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 375
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dorin_77 (CG), Francesca_77 (CG),

Start 47:

- Found in 279 of 441 (63.3%) of genes in pham
- Manual Annotations of this start: 171 of 375
- Called 71.7% of time when present
- Phage (with cluster) where this start called: Aaronocolus_53 (BD1), Ablatia_208 (C1), Ading_210 (C1), Amataga_210 (C1), Asten_54 (BD1), Asterius_211 (C1), Atlantean_209 (C1), Audrick_211 (C1), Ava3_208 (C1), Babyland_212 (C1), BadAgartude_203 (C1), BananaFence_206 (C1), BarryBee_57 (BD1), Basquiat_206 (C1), BeardedLady_53 (BD1), Belieber_202 (C1), Bezza_198 (C1), Bipolarisk_207 (C1), Blackbrain_206 (C1), Blackdragon_204 (C1), Blubba_198 (C1), BobaPhatt_201 (C1), Bonray_211 (C1), Bovely_53 (BD1), Bowman_207 (C1), Brataylor_57 (BD1), BryanRecycles_55 (BD1), Bxz1_199 (C1), Cactojaque_204 (C1), Caliburn_52 (BD1), Cane17_200 (C1), Capablanca_214 (C1), Catera_201 (C1), Celeste_56 (BD1), Celia_53 (BD6), Chargie21_206 (C1), ChaylaJr_206 (C1), CherryTomatoes_154 (DO), ChickenPhender_205 (C1), Chomp_209 (C1), Chucky_54 (BD1), CindyLou_210 (C1), Cleatunium_202 (C1), Colt_200 (C1), Concombre_214 (C1), Danzina_56 (BD1), Darko_208 (C1), Dattran_57 (BD1), DeejaClivia_197 (C1), Delilah_207 (C1), Demodog_215 (C1), DirtMonster_202 (C1), Domi_203 (C1), DrPhinkDaddy_206 (C1), Dwayne_54 (BD1), E3_gp154 (singleton), Eddasa_55 (BD1), Ejemplo_52 (BD1), EmToTheThree_209 (C1), Emaanora_57 (BD1), EmmaElysia_212 (C1), EnochSoames_57 (BD1), Esperer_53 (BD1), Essence_206 (C1), Ewok_208 (C1), Fixie_209 (C1), Flabslab_204 (C1), Fludd_209 (C1), Fongie_210 (C1), FoxtrotP1_207 (C1), FrayBell_212 (C1), Gabriel_212 (C1), Gamgam_210 (C1), Goby_55 (BD1), Godpower_56 (BD1), Grungle_193 (C1), Halldule_202 (C1), Hippo_54 (BD1), HyRo_197 (C1), Hydra_54 (BD1), IkeLoa_201 (C1), Indigo_52 (BD1), InigoMontoya_212 (C1), InterFolia_212 (C1), Iota_204 (C1), Itza_54 (BD6), Izajani_207 (C1), Izzy_55 (BD1), Janiyra_212 (C1), Jash_55 (BD1), JayJay_211 (C1), Jessibeth14_209 (C1), JigglyPuff_216 (C1), JulietS_200 (C1), JustHall_203 (C1), Kamryn_208 (C1), Katalie_54 (BD1), Kboogie_213 (C1), Khaleesi_208 (C1), Lannister_54 (BD1), Latch_209 (C1), Lee7_209 (C1), Legacy_52 (BD1), Lethe_209 (C1), Leviticus_53 (BD1), Loanshark_206 (C1), LolaVinca_207 (C1), LordLeafolot_210 (C1), Lunareta_207 (C1), Maby2021_209 (C1), Maneekul_54 (BD1), Matsumoto_207 (C1), Maturis_206 (C1), McWolfish_206 (C1), Melpomini_204

(C1), MikeLiesIn_211 (C1), Mikro_205 (C1), Moiqah_204 (C1), Momo_210 (C1), Montpel_207 (C1), Morizzled23_206 (C1), Nabi_55 (BD1), Naija_210 (C1), Nanodon_56 (BD1), Napoleon13_206 (C1), Naval22_214 (C1), NedWong_208 (C1), Nerdos_52 (BD1), Ngannou_206 (C1), Nidhogg_210 (C1), NoodleTree_215 (C1), Norm_209 (C1), NuevoMundo_212 (C1), Oliynyk_55 (BD1), OrediggerDelux_205 (C1), Ozzie_52 (BD1), OzzyJ_56 (BD1), ParkTD_208 (C1), Patter_210 (C1), PharkleMinkus_211 (C1), Phettuccine_53 (BD1), Phlegm_213 (C1), Phusco_207 (C1), Pivoine_210 (C1), Primadonna_204 (C1), Pupper_153 (DO), Pupusa_213 (C1), PurduePete_209 (C1), QBert_201 (C1), Quasimodo_211 (C1), Rahel_210 (C1), RedBear_55 (BD1), RoMag_204 (C1), Rocha_206 (C1), Ronan_205 (C1), Rusticus_55 (BD1), SCentae_152 (DO), SarahRose_54 (BD1), Sauce_205 (C1), ScottMcG_202 (C1), Shaqnato_200 (C1), Shelob_210 (C1), ShiaLabeouf_206 (C1), Shifa_186 (C1), Shnickers_207 (C1), Skog_212 (DO), SmallFry_209 (C1), Snorlax_54 (BD1), South40_54 (BD1), Spec_204 (C1), Specks_213 (C1), Sprinklers_207 (C1), Spud_203 (C1), SrishMeg2525_206 (C1), StephanieG_205 (C1), StubbySaigey_214 (C1), Stubby_193 (C1), Sujidade_55 (BD1), SunsetPointe_52 (BD1), TagePhighter_56 (BD1), Tainan_210 (C1), Teardrop_206 (C1), TinyTim_207 (C1), Toma_55 (BD1), Tortoise16_207 (C1), Trinitium_205 (C1), Triste_55 (BD1), TuanPN_52 (BD1), Turret_202 (C1), Unstoppable_53 (BD1), Urza_53 (BD6), ValleyTerrace_210 (C1), VieEnRose_54 (BD6), Werner_54 (BD1), Whatever_54 (BD1), Willis_210 (C1), Yassified_206 (C1), YemiJoy2021_210 (C1), YoungMoneyMata_207 (C1), Zeenon_211 (C1),

Start 48:

- Found in 37 of 441 (8.4%) of genes in pham
- Manual Annotations of this start: 34 of 375
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AcciDwight_85 (BE2), Amabiko_82 (BE2), AngryGiraffe_81 (BE2), Battuta_80 (BE2), Birchlyn_79 (BE2), BoomerJR_82 (BE2), Bordeaux_80 (BE2), Brizzy_81 (BE2), CeilingFan_81 (BE2), Chaewon_61 (BK2), Elmer_84 (BE2), Enygma_82 (BE2), Genie2_82 (BE2), Gibbi_86 (BE2), IchabodCrane_79 (BE2), JimJam_82 (BE2), Jollison_81 (BE2), Karimac_81 (BE2), KentuckyRacer_82 (BE2), LukeCage_81 (BE2), MindFlayer_79 (BE2), Mugiwara_81 (BE2), PumpkinSpice_81 (BE2), Quarant19_81 (BE2), Rikishi_82 (BE2), SaltySpittoon_81 (BE2), Sollertia_82 (BE2), Spelly_82 (BE2), Spilled_83 (BE2), Stanimal_82 (BE2), StarPlatinum_82 (BE2), Starbow_80 (BE2), TomSawyer_80 (BE2), Tomas_84 (BE2), Wipeout_79 (BE2), Wofford_81 (BE2), Yaboi_82 (BE2),

Start 49:

- Found in 79 of 441 (17.9%) of genes in pham
- Manual Annotations of this start: 71 of 375
- Called 98.7% of time when present
- Phage (with cluster) where this start called: Anedea_78 (BE1), Angela_76 (BE1), Annadreamy_58 (BK1), Bartholomune_78 (BE1), Belfort_62 (BK1), Beuffert_58 (BK1), BillNye_56 (BK2), BlueOtter_80 (BE1), Bmoc_78 (BE1), Braelyn_79 (BE1), Cadmus_78 (BE1), Circinus_58 (BK2), Comrade_61 (BK1), Coogler_80 (BE1), Cross_80 (BE1), Cursive_78 (BE1), Daubenski_81 (BE1), Davielle_78 (BE1), DeluluLabubu_59 (BK1), EGole_81 (BE1), Eliot67_77 (BE1), Emma1919_62 (BK1), Evy_80 (BE1), Faust_61 (BK1), Forrest_62 (BK1), Francob_59 (BK1), FreddyDRoo_77 (BE1), Gilson_61 (BK1), HangryHippo_80 (BE1), Jada_60 (BK1), Jay2Jay_84 (BE1), Karp_59 (BK1), Kenrey_62 (BK1), Larnav_80 (BE1), Leo04_81 (BE1), Liandry_78 (BE1), LilMartin_77 (BE1), LilSaint_83 (BE1), Limpid_57 (BK1), Lululemon_79 (BE1), Marsus_78 (BE1), Maupel_60 (BK1), MeganTheeKilla_59

(BK1), Mildred21_78 (BE1), Moab_61 (BK1), MulchMansion_77 (BE1), Muntaha_58 (BK2), Navo_77 (BE1), NootNoot_75 (BE1), PacManQ_79 (BE1), Paradiddles_75 (BE1), Patelgo_60 (BK1), Peebs_79 (BE1), Pepperwood_80 (BE1), Persimmon_77 (BE1), Phredrick_60 (BK1), PinkiePie_78 (BE1), Riptide_76 (BE1), Samisti12_80 (BE1), Scheme_81 (BE1), SeresaTree_61 (BK1), Sham_57 (BK1), Shuckle_78 (BE1), SparkleGoddess_61 (BK1), Squillium_79 (BE1), Stigma_60 (BK1), Sushi23_79 (BE1), Targaryen_80 (BE1), Teutsch_80 (BE1), Tonenili_231 (C1), Tribute_78 (BE1), TunaTartare_59 (BK1), Vortex_229 (C1), Wakanda_57 (BK2), Warpy_83 (BE1), Watermoore_80 (BE1), Westy_61 (BK1), WhereRU_77 (BE1),

Start 50:

- Found in 4 of 441 (0.9%) of genes in pham
- Manual Annotations of this start: 4 of 375
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Rana_55 (BD1), RedWattleHog_79 (DX), Stormageddon_76 (DX), Zemlya_55 (BD1),

Start 51:

- Found in 1 of 441 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 375
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Finch_77 (singleton),

Start 52:

- Found in 4 of 441 (0.9%) of genes in pham
- Manual Annotations of this start: 2 of 375
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Lika_54 (BD1), NiceHouse_90 (CE),

Start 58:

- Found in 32 of 441 (7.3%) of genes in pham
- Manual Annotations of this start: 1 of 375
- Called 3.1% of time when present
- Phage (with cluster) where this start called: Yasdnii_54 (BD1),

Start 65:

- Found in 138 of 441 (31.3%) of genes in pham
- Manual Annotations of this start: 1 of 375
- Called 0.7% of time when present
- Phage (with cluster) where this start called: Blueeyedbeauty_60 (BK1),

Start 187:

- Found in 3 of 441 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 375
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Trina_102 (CE),

Start 194:

- Found in 3 of 441 (0.7%) of genes in pham
- Manual Annotations of this start: 3 of 375
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Grayson_103 (CB), Peregrin_100 (CB), Weasels2_102 (CB),

Summary by clusters:

There are 16 clusters represented in this pham: AA, DO, singleton, DX, CB, CG, CE, BD6, BD1, BK1, BK2, BE2, C2, C1, BE1, DQ,

Info for manual annotations of cluster AA:

- Start number 27 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster BD1:

- Start number 21 was manually annotated 1 time for cluster BD1.
- Start number 47 was manually annotated 50 times for cluster BD1.
- Start number 50 was manually annotated 2 times for cluster BD1.
- Start number 52 was manually annotated 1 time for cluster BD1.
- Start number 58 was manually annotated 1 time for cluster BD1.

Info for manual annotations of cluster BD6:

- Start number 47 was manually annotated 4 times for cluster BD6.

Info for manual annotations of cluster BE1:

- Start number 49 was manually annotated 44 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 48 was manually annotated 34 times for cluster BE2.

Info for manual annotations of cluster BK1:

- Start number 49 was manually annotated 22 times for cluster BK1.
- Start number 65 was manually annotated 1 time for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 49 was manually annotated 4 times for cluster BK2.

Info for manual annotations of cluster C1:

- Start number 6 was manually annotated 5 times for cluster C1.
- Start number 14 was manually annotated 47 times for cluster C1.
- Start number 15 was manually annotated 6 times for cluster C1.
- Start number 18 was manually annotated 8 times for cluster C1.
- Start number 47 was manually annotated 113 times for cluster C1.
- Start number 49 was manually annotated 1 time for cluster C1.

Info for manual annotations of cluster C2:

- Start number 43 was manually annotated 3 times for cluster C2.

Info for manual annotations of cluster CB:

- Start number 194 was manually annotated 3 times for cluster CB.

Info for manual annotations of cluster CE:

- Start number 52 was manually annotated 1 time for cluster CE.
- Start number 187 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster CG:

- Start number 44 was manually annotated 1 time for cluster CG.
- Start number 46 was manually annotated 2 times for cluster CG.

Info for manual annotations of cluster DO:

- Start number 47 was manually annotated 4 times for cluster DO.

Info for manual annotations of cluster DQ:

- Start number 33 was manually annotated 1 time for cluster DQ.
- Start number 37 was manually annotated 1 time for cluster DQ.
- Start number 40 was manually annotated 5 times for cluster DQ.
- Start number 42 was manually annotated 3 times for cluster DQ.

Info for manual annotations of cluster DX:

- Start number 50 was manually annotated 2 times for cluster DX.

Gene Information:

Gene: *Aaronocolus_53* Start: 40236, Stop: 36757, Start Num: 47

Candidate Starts for *Aaronocolus_53*:

(2, 40446), (Start: 47 @40236 has 171 MA's), (59, 40164), (Start: 65 @40137 has 1 MA's), (67, 40122), (90, 39960), (94, 39933), (96, 39927), (108, 39837), (112, 39822), (121, 39768), (122, 39765), (138, 39669), (163, 39591), (184, 39444), (192, 39405), (203, 39360), (208, 39339), (212, 39324), (220, 39282), (223, 39270), (233, 39204), (235, 39192), (247, 39129), (262, 39000), (263, 38991), (269, 38955), (279, 38871), (281, 38853), (291, 38796), (292, 38793), (296, 38781), (326, 38643), (327, 38637), (328, 38622), (330, 38616), (336, 38583), (353, 38505), (359, 38472), (386, 38331), (397, 38274), (401, 38250), (402, 38244), (410, 38175), (420, 38112), (433, 38046), (437, 38025), (442, 38007), (454, 37950), (455, 37941), (474, 37833), (475, 37824), (480, 37812), (483, 37791), (492, 37761), (499, 37734), (513, 37668), (515, 37659), (517, 37647), (534, 37560), (539, 37536), (548, 37488), (578, 37344), (595, 37269), (638, 37095), (643, 37059), (654, 37011), (663, 36978),

Gene: *Ablatia_208* Start: 113334, Stop: 116729, Start Num: 47

Candidate Starts for *Ablatia_208*:

(Start: 14 @113241 has 47 MA's), (Start: 15 @113247 has 6 MA's), (Start: 18 @113259 has 8 MA's), (22, 113268), (Start: 47 @113334 has 171 MA's), (59, 113409), (78, 113523), (85, 113547), (95, 113607), (113, 113718), (118, 113757), (125, 113781), (130, 113823), (148, 113922), (159, 113964), (164, 113982), (173, 114045), (180, 114105), (181, 114108), (186, 114135), (195, 114177), (210, 114240), (230, 114360), (236, 114396), (240, 114414), (243, 114429), (255, 114546), (260, 114585), (272, 114705), (278, 114747), (286, 114792), (288, 114801), (297, 114852), (306, 114894), (321, 114960), (322, 114969), (323, 114972), (324, 114978), (325, 114981), (326, 114990), (327, 114996), (328, 115011), (347, 115098), (367, 115203), (375, 115257), (384, 115344), (388, 115374), (393, 115404), (400, 115437), (402, 115446), (410, 115518), (414, 115548), (436, 115665), (443, 115710), (453, 115752), (479, 115896), (496, 115956), (518, 116058), (537, 116145), (538, 116148), (541, 116166), (547, 116202), (548, 116205), (568, 116265), (572, 116283), (591, 116379), (598, 116409), (602, 116427), (610, 116457), (635, 116550), (640, 116565), (656, 116646), (657, 116652), (661, 116664),

Gene: *AcciDwight_85* Start: 58398, Stop: 61718, Start Num: 48

Candidate Starts for *AcciDwight_85*:

(Start: 48 @58398 has 34 MA's), (57, 58449), (60, 58470), (Start: 65 @58494 has 1 MA's), (77, 58575), (109, 58773), (139, 58953), (146, 59001), (159, 59058), (160, 59061), (168, 59109), (169, 59127), (172, 59136), (177, 59172), (198, 59280), (200, 59289), (242, 59499), (253, 59568), (272, 59733), (285, 59811), (326, 59973), (347, 60096), (351, 60120), (363, 60180), (378, 60243), (380, 60252), (410, 60456), (421, 60510), (423, 60519), (427, 60537), (429, 60543), (461, 60726), (463, 60735),

(469, 60759), (474, 60786), (499, 60894), (539, 61083), (555, 61161), (565, 61203), (569, 61221), (577, 61263), (587, 61302), (588, 61308), (594, 61335), (603, 61374), (616, 61422), (617, 61431), (633, 61503), (640, 61524), (643, 61551), (644, 61554), (648, 61569), (653, 61602), (668, 61671),

Gene: Ading_210 Start: 113961, Stop: 117356, Start Num: 47

Candidate Starts for Ading_210:

(Start: 14 @113868 has 47 MA's), (Start: 15 @113874 has 6 MA's), (Start: 18 @113886 has 8 MA's), (22, 113895), (Start: 47 @113961 has 171 MA's), (59, 114036), (78, 114150), (85, 114174), (95, 114234), (113, 114345), (118, 114384), (125, 114408), (130, 114450), (148, 114549), (159, 114591), (161, 114597), (164, 114609), (173, 114672), (180, 114732), (181, 114735), (186, 114762), (195, 114804), (210, 114867), (230, 114987), (236, 115023), (240, 115041), (243, 115056), (255, 115173), (260, 115212), (272, 115332), (278, 115374), (286, 115419), (288, 115428), (297, 115479), (306, 115521), (321, 115587), (322, 115596), (323, 115599), (324, 115605), (325, 115608), (326, 115617), (327, 115623), (328, 115638), (347, 115725), (367, 115830), (375, 115884), (384, 115971), (388, 116001), (393, 116031), (400, 116064), (402, 116073), (410, 116145), (414, 116175), (436, 116292), (443, 116337), (453, 116379), (479, 116523), (496, 116583), (518, 116685), (537, 116772), (538, 116775), (541, 116793), (547, 116829), (548, 116832), (568, 116892), (572, 116910), (591, 117006), (598, 117036), (602, 117054), (610, 117084), (635, 117177), (640, 117192), (656, 117273), (657, 117279), (661, 117291),

Gene: Adlitam_208 Start: 112490, Stop: 115960, Start Num: 18

Candidate Starts for Adlitam_208:

(Start: 14 @112472 has 47 MA's), (Start: 15 @112478 has 6 MA's), (Start: 18 @112490 has 8 MA's), (22, 112499), (Start: 47 @112565 has 171 MA's), (59, 112640), (78, 112754), (85, 112778), (95, 112838), (113, 112949), (118, 112988), (125, 113012), (130, 113054), (148, 113153), (159, 113195), (161, 113201), (164, 113213), (173, 113276), (180, 113336), (181, 113339), (186, 113366), (195, 113408), (210, 113471), (230, 113591), (236, 113627), (240, 113645), (243, 113660), (255, 113777), (260, 113816), (272, 113936), (278, 113978), (286, 114023), (288, 114032), (297, 114083), (306, 114125), (321, 114191), (322, 114200), (323, 114203), (324, 114209), (325, 114212), (326, 114221), (327, 114227), (328, 114242), (347, 114329), (367, 114434), (375, 114488), (384, 114575), (388, 114605), (393, 114635), (400, 114668), (402, 114677), (410, 114749), (414, 114779), (436, 114896), (443, 114941), (453, 114983), (479, 115127), (496, 115187), (518, 115289), (537, 115376), (538, 115379), (541, 115397), (547, 115433), (548, 115436), (568, 115496), (572, 115514), (591, 115610), (598, 115640), (602, 115658), (610, 115688), (635, 115781), (640, 115796), (656, 115877), (657, 115883), (661, 115895),

Gene: Alice_196 Start: 112446, Stop: 115928, Start Num: 15

Candidate Starts for Alice_196:

(Start: 14 @112440 has 47 MA's), (Start: 15 @112446 has 6 MA's), (Start: 18 @112458 has 8 MA's), (22, 112467), (Start: 47 @112533 has 171 MA's), (59, 112608), (78, 112722), (85, 112746), (95, 112806), (113, 112917), (118, 112956), (125, 112980), (130, 113022), (148, 113121), (159, 113163), (161, 113169), (164, 113181), (173, 113244), (180, 113304), (181, 113307), (186, 113334), (195, 113376), (210, 113439), (230, 113559), (236, 113595), (240, 113613), (243, 113628), (255, 113745), (260, 113784), (272, 113904), (278, 113946), (286, 113991), (288, 114000), (297, 114051), (306, 114093), (321, 114159), (322, 114168), (323, 114171), (324, 114177), (325, 114180), (326, 114189), (327, 114195), (328, 114210), (347, 114297), (367, 114402), (375, 114456), (384, 114543), (388, 114573), (393, 114603), (400, 114636), (402, 114645), (410, 114717), (414, 114747), (436, 114864), (443, 114909), (453, 114951), (479, 115095), (496, 115155), (518, 115257), (537, 115344), (538, 115347), (541, 115365), (547, 115401), (548, 115404), (568, 115464), (572, 115482), (591, 115578), (598, 115608), (602, 115626), (610, 115656), (635, 115749), (640, 115764), (656, 115845), (657, 115851), (661, 115863),

Gene: Alok_i_92 Start: 70036, Stop: 72849, Start Num: 40

Candidate Starts for Aloki_92:

(Start: 33 @70021 has 1 MA's), (Start: 37 @70033 has 1 MA's), (Start: 40 @70036 has 5 MA's), (59, 70129), (68, 70189), (93, 70339), (94, 70342), (96, 70348), (110, 70447), (114, 70477), (115, 70480), (126, 70543), (130, 70564), (131, 70567), (136, 70594), (161, 70711), (163, 70720), (170, 70777), (173, 70786), (182, 70852), (196, 70918), (233, 71083), (236, 71101), (239, 71116), (241, 71122), (243, 71134), (249, 71161), (250, 71164), (256, 71224), (257, 71233), (258, 71236), (260, 71248), (263, 71293), (271, 71362), (274, 71386), (300, 71542), (303, 71560), (308, 71584), (313, 71602), (330, 71698), (337, 71740), (339, 71746), (347, 71782), (349, 71791), (352, 71809), (353, 71815), (357, 71839), (358, 71845), (359, 71848), (363, 71866), (364, 71869), (383, 71962), (390, 72007), (391, 72013), (395, 72037), (396, 72040), (398, 72049), (399, 72055), (401, 72067), (418, 72184), (420, 72202), (421, 72205), (423, 72214), (446, 72328), (449, 72343), (474, 72490), (478, 72502), (480, 72508), (489, 72541), (497, 72574), (500, 72592), (503, 72604), (506, 72613), (525, 72727), (528, 72739), (532, 72754), (546, 72829), (547, 72838),

Gene: Amabiko_82 Start: 58443, Stop: 61763, Start Num: 48

Candidate Starts for Amabiko_82:

(Start: 48 @58443 has 34 MA's), (57, 58494), (60, 58515), (Start: 65 @58539 has 1 MA's), (77, 58620), (109, 58818), (139, 58998), (146, 59046), (147, 59049), (159, 59103), (168, 59154), (169, 59172), (172, 59181), (177, 59217), (198, 59325), (200, 59334), (242, 59544), (253, 59613), (272, 59778), (285, 59856), (326, 60018), (340, 60105), (347, 60141), (363, 60225), (378, 60288), (380, 60297), (410, 60501), (421, 60555), (423, 60564), (427, 60582), (429, 60588), (461, 60771), (463, 60780), (469, 60804), (474, 60831), (499, 60939), (523, 61038), (539, 61128), (555, 61206), (565, 61248), (569, 61266), (577, 61308), (587, 61347), (588, 61353), (594, 61380), (603, 61419), (616, 61467), (617, 61476), (633, 61548), (640, 61569), (643, 61596), (644, 61599), (648, 61614), (653, 61647), (668, 61716),

Gene: Amataga_210 Start: 112377, Stop: 115772, Start Num: 47

Candidate Starts for Amataga_210:

(Start: 14 @112284 has 47 MA's), (Start: 15 @112290 has 6 MA's), (Start: 18 @112302 has 8 MA's), (22, 112311), (Start: 47 @112377 has 171 MA's), (59, 112452), (78, 112566), (85, 112590), (95, 112650), (113, 112761), (118, 112800), (125, 112824), (130, 112866), (148, 112965), (159, 113007), (161, 113013), (164, 113025), (173, 113088), (180, 113148), (181, 113151), (186, 113178), (195, 113220), (210, 113283), (230, 113403), (236, 113439), (240, 113457), (243, 113472), (255, 113589), (260, 113628), (272, 113748), (278, 113790), (286, 113835), (288, 113844), (297, 113895), (306, 113937), (321, 114003), (322, 114012), (323, 114015), (324, 114021), (325, 114024), (326, 114033), (327, 114039), (328, 114054), (347, 114141), (367, 114246), (375, 114300), (384, 114387), (388, 114417), (393, 114447), (400, 114480), (402, 114489), (410, 114561), (414, 114591), (436, 114708), (443, 114753), (453, 114795), (479, 114939), (496, 114999), (518, 115101), (537, 115188), (538, 115191), (541, 115209), (547, 115245), (548, 115248), (568, 115308), (572, 115326), (591, 115422), (598, 115452), (602, 115470), (610, 115500), (635, 115593), (640, 115608), (656, 115689), (657, 115695), (661, 115707),

Gene: Amoonguss_95 Start: 69991, Stop: 72804, Start Num: 40

Candidate Starts for Amoonguss_95:

(Start: 33 @69976 has 1 MA's), (Start: 37 @69988 has 1 MA's), (Start: 40 @69991 has 5 MA's), (59, 70084), (68, 70144), (93, 70294), (94, 70297), (96, 70303), (103, 70345), (110, 70402), (114, 70432), (115, 70435), (126, 70498), (130, 70519), (131, 70522), (136, 70549), (161, 70666), (163, 70675), (170, 70732), (173, 70741), (196, 70873), (233, 71038), (236, 71056), (239, 71071), (241, 71077), (243, 71089), (249, 71116), (250, 71119), (256, 71179), (257, 71188), (258, 71191), (260, 71203), (263, 71248), (271, 71317), (274, 71341), (300, 71497), (303, 71515), (308, 71539), (313, 71557), (330, 71653), (337, 71695), (339, 71701), (347, 71737), (349, 71746), (352, 71764), (353, 71770), (357, 71794), (358, 71800), (359, 71803), (363, 71821), (364, 71824), (383, 71917), (390, 71962), (391, 71968), (395, 71992), (396, 71995), (398, 72004), (399, 72010), (401, 72022), (418, 72139),

(420, 72157), (421, 72160), (423, 72169), (446, 72283), (449, 72298), (474, 72445), (478, 72457), (480, 72463), (489, 72496), (497, 72529), (500, 72547), (503, 72559), (506, 72568), (525, 72682), (528, 72694), (532, 72709), (546, 72784), (547, 72793),

Gene: Anedea_78 Start: 57982, Stop: 61266, Start Num: 49

Candidate Starts for Anedea_78:

(Start: 49 @57982 has 71 MA's), (56, 58027), (60, 58057), (Start: 65 @58081 has 1 MA's), (109, 58360), (117, 58399), (127, 58462), (139, 58540), (140, 58552), (159, 58645), (169, 58708), (171, 58714), (177, 58753), (200, 58870), (223, 58969), (242, 59080), (253, 59149), (258, 59188), (286, 59401), (327, 59536), (328, 59551), (345, 59641), (346, 59647), (347, 59653), (363, 59737), (378, 59800), (380, 59809), (383, 59836), (390, 59881), (401, 59944), (410, 60016), (421, 60070), (423, 60079), (425, 60088), (427, 60097), (429, 60103), (474, 60346), (489, 60397), (493, 60415), (496, 60427), (497, 60430), (577, 60811), (594, 60883), (603, 60922), (616, 60970), (633, 61051), (636, 61060), (644, 61102), (653, 61150), (657, 61165), (665, 61204),

Gene: Angela_76 Start: 57448, Stop: 60732, Start Num: 49

Candidate Starts for Angela_76:

(19, 57364), (28, 57391), (Start: 49 @57448 has 71 MA's), (56, 57493), (60, 57523), (64, 57541), (Start: 65 @57547 has 1 MA's), (109, 57826), (127, 57928), (139, 58006), (140, 58018), (159, 58111), (169, 58174), (171, 58180), (177, 58219), (200, 58336), (208, 58375), (223, 58435), (242, 58546), (249, 58576), (258, 58654), (281, 58843), (286, 58867), (290, 58888), (327, 59002), (328, 59017), (345, 59107), (346, 59113), (347, 59119), (351, 59143), (352, 59146), (363, 59203), (370, 59236), (378, 59266), (380, 59275), (390, 59347), (391, 59356), (401, 59410), (410, 59482), (421, 59536), (423, 59545), (425, 59554), (427, 59563), (429, 59569), (445, 59650), (474, 59812), (493, 59881), (496, 59893), (523, 60007), (575, 60268), (577, 60277), (603, 60388), (616, 60436), (633, 60517), (644, 60568), (653, 60616), (657, 60631),

Gene: AngryGiraffe_81 Start: 58389, Stop: 61709, Start Num: 48

Candidate Starts for AngryGiraffe_81:

(Start: 48 @58389 has 34 MA's), (60, 58461), (Start: 65 @58485 has 1 MA's), (77, 58566), (109, 58764), (139, 58944), (146, 58992), (159, 59049), (168, 59100), (169, 59118), (172, 59127), (177, 59163), (198, 59271), (200, 59280), (216, 59352), (242, 59490), (253, 59559), (272, 59724), (285, 59802), (326, 59964), (329, 59988), (347, 60087), (363, 60171), (380, 60243), (410, 60447), (421, 60501), (423, 60510), (427, 60528), (429, 60534), (453, 60648), (463, 60726), (469, 60750), (474, 60777), (528, 61029), (529, 61032), (533, 61050), (537, 61062), (555, 61152), (569, 61212), (577, 61254), (587, 61293), (588, 61299), (594, 61326), (603, 61365), (616, 61413), (617, 61422), (633, 61494), (637, 61506), (640, 61515), (643, 61542), (644, 61545), (648, 61560), (653, 61593), (665, 61647), (668, 61662),

Gene: Annadreamy_58 Start: 47706, Stop: 50996, Start Num: 49

Candidate Starts for Annadreamy_58:

(Start: 49 @47706 has 71 MA's), (60, 47778), (64, 47796), (Start: 65 @47802 has 1 MA's), (109, 48081), (120, 48141), (159, 48366), (169, 48429), (175, 48456), (176, 48471), (177, 48474), (242, 48801), (322, 49230), (327, 49257), (335, 49311), (346, 49368), (347, 49374), (380, 49530), (383, 49557), (390, 49602), (401, 49665), (408, 49734), (410, 49737), (421, 49791), (423, 49800), (425, 49809), (427, 49818), (429, 49824), (453, 49938), (463, 50016), (469, 50040), (476, 50076), (493, 50136), (495, 50142), (520, 50259), (533, 50328), (561, 50457), (564, 50469), (576, 50526), (577, 50532), (603, 50643), (606, 50652), (611, 50673), (618, 50703), (625, 50727), (627, 50736), (644, 50823), (654, 50874), (657, 50886), (674, 50973),

Gene: ArcherS7_209 Start: 113326, Stop: 116814, Start Num: 14

Candidate Starts for ArcherS7_209:

(Start: 14 @113326 has 47 MA's), (Start: 15 @113332 has 6 MA's), (Start: 18 @113344 has 8 MA's), (22, 113353), (Start: 47 @113419 has 171 MA's), (59, 113494), (78, 113608), (85, 113632), (95, 113692), (113, 113803), (118, 113842), (125, 113866), (130, 113908), (148, 114007), (159, 114049), (161, 114055), (164, 114067), (173, 114130), (180, 114190), (181, 114193), (186, 114220), (195, 114262), (210, 114325), (236, 114481), (240, 114499), (243, 114514), (255, 114631), (260, 114670), (272, 114790), (278, 114832), (286, 114877), (288, 114886), (297, 114937), (306, 114979), (321, 115045), (322, 115054), (323, 115057), (324, 115063), (325, 115066), (326, 115075), (327, 115081), (328, 115096), (347, 115183), (367, 115288), (375, 115342), (384, 115429), (388, 115459), (393, 115489), (400, 115522), (402, 115531), (410, 115603), (414, 115633), (436, 115750), (443, 115795), (453, 115837), (479, 115981), (496, 116041), (518, 116143), (537, 116230), (538, 116233), (541, 116251), (547, 116287), (548, 116290), (568, 116350), (572, 116368), (591, 116464), (598, 116494), (602, 116512), (610, 116542), (635, 116635), (640, 116650), (656, 116731), (657, 116737), (661, 116749),

Gene: Argena_95 Start: 70003, Stop: 72816, Start Num: 40

Candidate Starts for Argena_95:

(Start: 33 @69988 has 1 MA's), (Start: 37 @70000 has 1 MA's), (Start: 40 @70003 has 5 MA's), (59, 70096), (68, 70156), (93, 70306), (94, 70309), (96, 70315), (103, 70357), (110, 70414), (114, 70444), (115, 70447), (126, 70510), (130, 70531), (131, 70534), (136, 70561), (161, 70678), (163, 70687), (170, 70744), (173, 70753), (196, 70885), (233, 71050), (236, 71068), (239, 71083), (241, 71089), (243, 71101), (249, 71128), (250, 71131), (256, 71191), (257, 71200), (258, 71203), (260, 71215), (263, 71260), (271, 71329), (274, 71353), (300, 71509), (303, 71527), (308, 71551), (313, 71569), (330, 71665), (337, 71707), (339, 71713), (347, 71749), (349, 71758), (352, 71776), (353, 71782), (357, 71806), (358, 71812), (359, 71815), (363, 71833), (364, 71836), (383, 71929), (390, 71974), (391, 71980), (395, 72004), (396, 72007), (398, 72016), (399, 72022), (401, 72034), (418, 72151), (420, 72169), (421, 72172), (423, 72181), (446, 72295), (449, 72310), (474, 72457), (478, 72469), (480, 72475), (489, 72508), (497, 72541), (500, 72559), (503, 72571), (506, 72580), (526, 72697), (532, 72721),

Gene: Asten_54 Start: 42455, Stop: 38970, Start Num: 47

Candidate Starts for Asten_54:

(Start: 21 @42524 has 1 MA's), (Start: 47 @42455 has 171 MA's), (Start: 58 @42392 has 1 MA's), (59, 42383), (67, 42341), (81, 42248), (90, 42179), (102, 42110), (108, 42056), (122, 41984), (127, 41948), (138, 41888), (184, 41663), (192, 41624), (199, 41597), (203, 41579), (208, 41558), (212, 41543), (220, 41501), (233, 41423), (235, 41411), (261, 41225), (262, 41219), (269, 41174), (279, 41090), (281, 41072), (291, 41015), (292, 41012), (296, 41000), (326, 40862), (327, 40856), (328, 40841), (330, 40835), (336, 40802), (353, 40724), (359, 40691), (386, 40550), (389, 40532), (401, 40469), (402, 40463), (410, 40394), (420, 40331), (425, 40310), (433, 40265), (454, 40169), (455, 40160), (457, 40154), (474, 40052), (475, 40043), (480, 40031), (483, 40010), (492, 39980), (499, 39953), (513, 39887), (515, 39878), (517, 39866), (534, 39779), (570, 39611), (578, 39563), (604, 39452), (638, 39314), (640, 39305), (643, 39278), (654, 39230), (663, 39197), (666, 39170), (680, 39065), (681, 39053),

Gene: Asterius_211 Start: 112786, Stop: 116181, Start Num: 47

Candidate Starts for Asterius_211:

(Start: 14 @112693 has 47 MA's), (Start: 15 @112699 has 6 MA's), (Start: 18 @112711 has 8 MA's), (22, 112720), (Start: 47 @112786 has 171 MA's), (59, 112861), (78, 112975), (85, 112999), (95, 113059), (113, 113170), (118, 113209), (125, 113233), (130, 113275), (148, 113374), (159, 113416), (161, 113422), (164, 113434), (173, 113497), (180, 113557), (181, 113560), (186, 113587), (195, 113629), (210, 113692), (236, 113848), (240, 113866), (243, 113881), (255, 113998), (260, 114037), (272, 114157), (278, 114199), (286, 114244), (288, 114253), (297, 114304), (306, 114346), (321, 114412), (322, 114421), (323, 114424), (324, 114430), (325, 114433), (326, 114442), (327, 114448), (328, 114463), (347, 114550), (367, 114655), (375, 114709), (384, 114796), (388, 114826), (393,

114856), (400, 114889), (402, 114898), (410, 114970), (414, 115000), (436, 115117), (443, 115162), (453, 115204), (479, 115348), (496, 115408), (518, 115510), (537, 115597), (538, 115600), (541, 115618), (547, 115654), (548, 115657), (568, 115717), (572, 115735), (591, 115831), (598, 115861), (602, 115879), (610, 115909), (635, 116002), (640, 116017), (656, 116098), (657, 116104), (661, 116116),

Gene: *Astraea_203* Start: 111888, Stop: 115376, Start Num: 14

Candidate Starts for *Astraea_203*:

(Start: 14 @111888 has 47 MA's), (Start: 15 @111894 has 6 MA's), (Start: 18 @111906 has 8 MA's), (22, 111915), (Start: 47 @111981 has 171 MA's), (59, 112056), (78, 112170), (85, 112194), (95, 112254), (113, 112365), (118, 112404), (125, 112428), (130, 112470), (148, 112569), (159, 112611), (161, 112617), (164, 112629), (173, 112692), (180, 112752), (181, 112755), (186, 112782), (195, 112824), (210, 112887), (230, 113007), (236, 113043), (240, 113061), (243, 113076), (255, 113193), (260, 113232), (272, 113352), (278, 113394), (286, 113439), (288, 113448), (297, 113499), (306, 113541), (321, 113607), (322, 113616), (323, 113619), (324, 113625), (325, 113628), (326, 113637), (327, 113643), (328, 113658), (347, 113745), (367, 113850), (375, 113904), (384, 113991), (388, 114021), (393, 114051), (400, 114084), (402, 114093), (410, 114165), (414, 114195), (436, 114312), (443, 114357), (453, 114399), (479, 114543), (496, 114603), (518, 114705), (537, 114792), (538, 114795), (541, 114813), (547, 114849), (548, 114852), (568, 114912), (572, 114930), (591, 115026), (598, 115056), (602, 115074), (610, 115104), (635, 115197), (640, 115212), (656, 115293), (657, 115299), (661, 115311),

Gene: *Atlantean_209* Start: 112377, Stop: 115772, Start Num: 47

Candidate Starts for *Atlantean_209*:

(Start: 14 @112284 has 47 MA's), (Start: 15 @112290 has 6 MA's), (Start: 18 @112302 has 8 MA's), (22, 112311), (Start: 47 @112377 has 171 MA's), (59, 112452), (78, 112566), (85, 112590), (95, 112650), (113, 112761), (118, 112800), (125, 112824), (130, 112866), (148, 112965), (159, 113007), (161, 113013), (164, 113025), (173, 113088), (180, 113148), (181, 113151), (186, 113178), (195, 113220), (210, 113283), (230, 113403), (236, 113439), (240, 113457), (243, 113472), (255, 113589), (260, 113628), (272, 113748), (278, 113790), (286, 113835), (288, 113844), (297, 113895), (306, 113937), (321, 114003), (322, 114012), (323, 114015), (324, 114021), (325, 114024), (326, 114033), (327, 114039), (328, 114054), (347, 114141), (367, 114246), (375, 114300), (384, 114387), (388, 114417), (393, 114447), (400, 114480), (402, 114489), (410, 114561), (414, 114591), (436, 114708), (443, 114753), (453, 114795), (479, 114939), (496, 114999), (518, 115101), (537, 115188), (538, 115191), (541, 115209), (547, 115245), (548, 115248), (568, 115308), (572, 115326), (591, 115422), (598, 115452), (602, 115470), (610, 115500), (635, 115593), (640, 115608), (656, 115689), (657, 115695), (661, 115707),

Gene: *Audrick_211* Start: 112267, Stop: 115662, Start Num: 47

Candidate Starts for *Audrick_211*:

(Start: 14 @112174 has 47 MA's), (Start: 15 @112180 has 6 MA's), (Start: 18 @112192 has 8 MA's), (22, 112201), (Start: 47 @112267 has 171 MA's), (59, 112342), (78, 112456), (85, 112480), (95, 112540), (113, 112651), (118, 112690), (125, 112714), (130, 112756), (148, 112855), (159, 112897), (161, 112903), (164, 112915), (173, 112978), (180, 113038), (181, 113041), (186, 113068), (195, 113110), (210, 113173), (230, 113293), (236, 113329), (240, 113347), (243, 113362), (255, 113479), (260, 113518), (272, 113638), (278, 113680), (286, 113725), (288, 113734), (297, 113785), (306, 113827), (321, 113893), (322, 113902), (323, 113905), (324, 113911), (325, 113914), (326, 113923), (327, 113929), (328, 113944), (347, 114031), (367, 114136), (375, 114190), (384, 114277), (388, 114307), (393, 114337), (400, 114370), (402, 114379), (410, 114451), (414, 114481), (436, 114598), (443, 114643), (453, 114685), (479, 114829), (496, 114889), (518, 114991), (537, 115078), (538, 115081), (541, 115099), (547, 115135), (548, 115138), (568, 115198), (572, 115216), (591, 115312), (598, 115342), (602, 115360), (610, 115390), (635, 115483), (640, 115498), (656, 115579), (657, 115585), (661, 115597),

Gene: Ava3_208 Start: 112811, Stop: 116206, Start Num: 47

Candidate Starts for Ava3_208:

(Start: 14 @112718 has 47 MA's), (Start: 15 @112724 has 6 MA's), (Start: 18 @112736 has 8 MA's), (22, 112745), (Start: 47 @112811 has 171 MA's), (59, 112886), (78, 113000), (85, 113024), (95, 113084), (113, 113195), (118, 113234), (125, 113258), (130, 113300), (148, 113399), (159, 113441), (161, 113447), (164, 113459), (173, 113522), (180, 113582), (181, 113585), (186, 113612), (195, 113654), (210, 113717), (230, 113837), (236, 113873), (240, 113891), (243, 113906), (255, 114023), (260, 114062), (272, 114182), (278, 114224), (286, 114269), (288, 114278), (297, 114329), (306, 114371), (321, 114437), (322, 114446), (323, 114449), (324, 114455), (325, 114458), (326, 114467), (327, 114473), (328, 114488), (347, 114575), (367, 114680), (375, 114734), (384, 114821), (388, 114851), (393, 114881), (400, 114914), (402, 114923), (410, 114995), (414, 115025), (436, 115142), (443, 115187), (453, 115229), (479, 115373), (496, 115433), (518, 115535), (537, 115622), (538, 115625), (541, 115643), (547, 115679), (548, 115682), (568, 115742), (572, 115760), (591, 115856), (598, 115886), (602, 115904), (610, 115934), (635, 116027), (640, 116042), (656, 116123), (657, 116129), (661, 116141),

Gene: Babyland_212 Start: 113154, Stop: 116549, Start Num: 47

Candidate Starts for Babyland_212:

(Start: 14 @113061 has 47 MA's), (Start: 15 @113067 has 6 MA's), (Start: 18 @113079 has 8 MA's), (22, 113088), (Start: 47 @113154 has 171 MA's), (59, 113229), (78, 113343), (85, 113367), (95, 113427), (113, 113538), (118, 113577), (125, 113601), (130, 113643), (148, 113742), (159, 113784), (161, 113790), (164, 113802), (173, 113865), (180, 113925), (181, 113928), (186, 113955), (195, 113997), (210, 114060), (230, 114180), (236, 114216), (240, 114234), (243, 114249), (255, 114366), (260, 114405), (272, 114525), (278, 114567), (286, 114612), (288, 114621), (297, 114672), (306, 114714), (321, 114780), (322, 114789), (323, 114792), (324, 114798), (325, 114801), (326, 114810), (327, 114816), (328, 114831), (347, 114918), (367, 115023), (375, 115077), (384, 115164), (388, 115194), (393, 115224), (400, 115257), (402, 115266), (410, 115338), (414, 115368), (436, 115485), (443, 115530), (453, 115572), (479, 115716), (496, 115776), (518, 115878), (537, 115965), (538, 115968), (541, 115986), (547, 116022), (548, 116025), (568, 116085), (572, 116103), (591, 116199), (598, 116229), (602, 116247), (610, 116277), (635, 116370), (640, 116385), (656, 116466), (657, 116472), (661, 116484),

Gene: BackyardAgain_204 Start: 110970, Stop: 114458, Start Num: 14

Candidate Starts for BackyardAgain_204:

(Start: 14 @110970 has 47 MA's), (Start: 15 @110976 has 6 MA's), (Start: 18 @110988 has 8 MA's), (22, 110997), (Start: 47 @111063 has 171 MA's), (59, 111138), (78, 111252), (85, 111276), (95, 111336), (113, 111447), (118, 111486), (125, 111510), (130, 111552), (148, 111651), (159, 111693), (161, 111699), (164, 111711), (173, 111774), (180, 111834), (181, 111837), (186, 111864), (195, 111906), (210, 111969), (230, 112089), (236, 112125), (240, 112143), (243, 112158), (255, 112275), (260, 112314), (272, 112434), (278, 112476), (286, 112521), (288, 112530), (297, 112581), (306, 112623), (321, 112689), (322, 112698), (323, 112701), (324, 112707), (325, 112710), (326, 112719), (327, 112725), (328, 112740), (347, 112827), (367, 112932), (375, 112986), (384, 113073), (388, 113103), (393, 113133), (400, 113166), (402, 113175), (410, 113247), (414, 113277), (436, 113394), (443, 113439), (453, 113481), (479, 113625), (496, 113685), (518, 113787), (537, 113874), (538, 113877), (541, 113895), (547, 113931), (548, 113934), (568, 113994), (572, 114012), (591, 114108), (598, 114138), (602, 114156), (610, 114186), (635, 114279), (640, 114294), (656, 114375), (657, 114381), (661, 114393),

Gene: BadAgartude_203 Start: 112479, Stop: 115874, Start Num: 47

Candidate Starts for BadAgartude_203:

(4, 112311), (Start: 14 @112386 has 47 MA's), (Start: 15 @112392 has 6 MA's), (Start: 18 @112404 has 8 MA's), (22, 112413), (Start: 47 @112479 has 171 MA's), (59, 112554), (78, 112668), (85,

112692), (95, 112752), (113, 112863), (118, 112902), (125, 112926), (130, 112968), (148, 113067), (159, 113109), (161, 113115), (164, 113127), (173, 113190), (180, 113250), (181, 113253), (186, 113280), (195, 113322), (210, 113385), (236, 113541), (240, 113559), (243, 113574), (255, 113691), (260, 113730), (272, 113850), (278, 113892), (286, 113937), (288, 113946), (297, 113997), (306, 114039), (321, 114105), (322, 114114), (323, 114117), (324, 114123), (325, 114126), (326, 114135), (327, 114141), (328, 114156), (347, 114243), (367, 114348), (375, 114402), (384, 114489), (388, 114519), (393, 114549), (400, 114582), (402, 114591), (410, 114663), (414, 114693), (436, 114810), (443, 114855), (453, 114897), (479, 115041), (496, 115101), (518, 115203), (537, 115290), (538, 115293), (541, 115311), (547, 115347), (548, 115350), (568, 115410), (572, 115428), (591, 115524), (598, 115554), (602, 115572), (610, 115602), (635, 115695), (640, 115710), (656, 115791), (657, 115797), (661, 115809),

Gene: BananaFence_206 Start: 112610, Stop: 116005, Start Num: 47

Candidate Starts for BananaFence_206:

(Start: 14 @112517 has 47 MA's), (Start: 15 @112523 has 6 MA's), (Start: 18 @112535 has 8 MA's), (22, 112544), (Start: 47 @112610 has 171 MA's), (59, 112685), (78, 112799), (85, 112823), (95, 112883), (113, 112994), (118, 113033), (125, 113057), (130, 113099), (148, 113198), (159, 113240), (161, 113246), (164, 113258), (173, 113321), (180, 113381), (181, 113384), (186, 113411), (195, 113453), (210, 113516), (236, 113672), (240, 113690), (243, 113705), (255, 113822), (260, 113861), (272, 113981), (278, 114023), (286, 114068), (288, 114077), (297, 114128), (306, 114170), (321, 114236), (322, 114245), (323, 114248), (324, 114254), (325, 114257), (326, 114266), (327, 114272), (328, 114287), (347, 114374), (367, 114479), (375, 114533), (384, 114620), (388, 114650), (393, 114680), (400, 114713), (402, 114722), (410, 114794), (414, 114824), (436, 114941), (443, 114986), (453, 115028), (479, 115172), (496, 115232), (518, 115334), (537, 115421), (538, 115424), (541, 115442), (547, 115478), (548, 115481), (568, 115541), (572, 115559), (591, 115655), (598, 115685), (602, 115703), (610, 115733), (635, 115826), (640, 115841), (656, 115922), (657, 115928), (661, 115940),

Gene: Bangla1971_209 Start: 112290, Stop: 115778, Start Num: 14

Candidate Starts for Bangla1971_209:

(Start: 14 @112290 has 47 MA's), (Start: 15 @112296 has 6 MA's), (Start: 18 @112308 has 8 MA's), (22, 112317), (Start: 47 @112383 has 171 MA's), (59, 112458), (78, 112572), (85, 112596), (95, 112656), (113, 112767), (118, 112806), (125, 112830), (130, 112872), (148, 112971), (159, 113013), (161, 113019), (164, 113031), (173, 113094), (180, 113154), (181, 113157), (186, 113184), (195, 113226), (210, 113289), (236, 113445), (240, 113463), (243, 113478), (255, 113595), (260, 113634), (272, 113754), (278, 113796), (286, 113841), (288, 113850), (297, 113901), (306, 113943), (321, 114009), (322, 114018), (323, 114021), (324, 114027), (325, 114030), (326, 114039), (327, 114045), (328, 114060), (347, 114147), (367, 114252), (375, 114306), (384, 114393), (388, 114423), (393, 114453), (400, 114486), (402, 114495), (410, 114567), (414, 114597), (436, 114714), (443, 114759), (453, 114801), (479, 114945), (496, 115005), (518, 115107), (537, 115194), (538, 115197), (541, 115215), (547, 115251), (548, 115254), (568, 115314), (572, 115332), (591, 115428), (598, 115458), (602, 115476), (610, 115506), (635, 115599), (640, 115614), (656, 115695), (657, 115701), (661, 115713),

Gene: BarryBee_57 Start: 42477, Stop: 38992, Start Num: 47

Candidate Starts for BarryBee_57:

(Start: 21 @42546 has 1 MA's), (Start: 47 @42477 has 171 MA's), (Start: 58 @42414 has 1 MA's), (59, 42405), (67, 42363), (81, 42270), (90, 42201), (102, 42132), (108, 42078), (122, 42006), (127, 41970), (138, 41910), (184, 41685), (192, 41646), (199, 41619), (203, 41601), (208, 41580), (212, 41565), (220, 41523), (233, 41445), (235, 41433), (261, 41247), (262, 41241), (269, 41196), (279, 41112), (281, 41094), (291, 41037), (292, 41034), (296, 41022), (326, 40884), (327, 40878), (328, 40863), (330, 40857), (336, 40824), (353, 40746), (359, 40713), (383, 40596), (386, 40572), (401, 40491), (402, 40485), (410, 40416), (420, 40353), (425, 40332), (433, 40287), (454, 40191), (455, 40182),

(457, 40176), (474, 40074), (475, 40065), (480, 40053), (483, 40032), (492, 40002), (499, 39975), (513, 39909), (515, 39900), (517, 39888), (534, 39801), (570, 39633), (578, 39585), (604, 39474), (638, 39336), (640, 39327), (643, 39300), (654, 39252), (663, 39219), (680, 39087), (681, 39075),

Gene: Bartholomune_78 Start: 57817, Stop: 61101, Start Num: 49

Candidate Starts for Bartholomune_78:

(Start: 49 @57817 has 71 MA's), (56, 57862), (60, 57892), (64, 57910), (Start: 65 @57916 has 1 MA's), (75, 57982), (109, 58195), (111, 58201), (127, 58297), (139, 58375), (159, 58480), (169, 58543), (171, 58549), (177, 58588), (200, 58705), (223, 58804), (242, 58915), (249, 58945), (253, 58984), (285, 59227), (327, 59371), (328, 59386), (346, 59482), (347, 59488), (351, 59512), (363, 59572), (378, 59635), (380, 59644), (390, 59716), (401, 59779), (410, 59851), (421, 59905), (423, 59914), (425, 59923), (427, 59932), (429, 59938), (445, 60019), (460, 60118), (474, 60181), (493, 60250), (496, 60262), (535, 60448), (539, 60466), (559, 60562), (567, 60595), (577, 60646), (587, 60685), (588, 60691), (603, 60757), (611, 60787), (616, 60805), (625, 60841), (633, 60886), (636, 60895), (642, 60916), (644, 60937), (653, 60985), (657, 61000),

Gene: Basquiat_206 Start: 111889, Stop: 115284, Start Num: 47

Candidate Starts for Basquiat_206:

(Start: 14 @111796 has 47 MA's), (Start: 15 @111802 has 6 MA's), (Start: 18 @111814 has 8 MA's), (22, 111823), (Start: 47 @111889 has 171 MA's), (59, 111964), (78, 112078), (85, 112102), (95, 112162), (113, 112273), (118, 112312), (125, 112336), (130, 112378), (148, 112477), (159, 112519), (161, 112525), (164, 112537), (173, 112600), (180, 112660), (181, 112663), (186, 112690), (195, 112732), (210, 112795), (230, 112915), (236, 112951), (240, 112969), (243, 112984), (255, 113101), (260, 113140), (272, 113260), (278, 113302), (286, 113347), (288, 113356), (297, 113407), (306, 113449), (321, 113515), (322, 113524), (323, 113527), (324, 113533), (325, 113536), (326, 113545), (327, 113551), (328, 113566), (347, 113653), (367, 113758), (375, 113812), (384, 113899), (388, 113929), (393, 113959), (400, 113992), (402, 114001), (410, 114073), (414, 114103), (436, 114220), (443, 114265), (453, 114307), (479, 114451), (496, 114511), (518, 114613), (537, 114700), (538, 114703), (541, 114721), (547, 114757), (548, 114760), (568, 114820), (572, 114838), (591, 114934), (598, 114964), (602, 114982), (610, 115012), (635, 115105), (640, 115120), (656, 115201), (657, 115207), (661, 115219),

Gene: Battuta_80 Start: 58417, Stop: 61737, Start Num: 48

Candidate Starts for Battuta_80:

(Start: 48 @58417 has 34 MA's), (57, 58468), (60, 58489), (Start: 65 @58513 has 1 MA's), (77, 58594), (109, 58792), (139, 58972), (146, 59020), (159, 59077), (160, 59080), (168, 59128), (169, 59146), (172, 59155), (177, 59191), (198, 59299), (200, 59308), (242, 59518), (253, 59587), (272, 59752), (285, 59830), (326, 59992), (347, 60115), (363, 60199), (378, 60262), (380, 60271), (410, 60475), (421, 60529), (423, 60538), (427, 60556), (429, 60562), (461, 60745), (463, 60754), (469, 60778), (474, 60805), (499, 60913), (539, 61102), (555, 61180), (565, 61222), (569, 61240), (577, 61282), (587, 61321), (588, 61327), (594, 61354), (603, 61393), (616, 61441), (617, 61450), (633, 61522), (640, 61543), (643, 61570), (644, 61573), (648, 61588), (653, 61621), (668, 61690),

Gene: BeanWater_201 Start: 112340, Stop: 115810, Start Num: 18

Candidate Starts for BeanWater_201:

(Start: 6 @112292 has 5 MA's), (Start: 14 @112322 has 47 MA's), (Start: 15 @112328 has 6 MA's), (Start: 18 @112340 has 8 MA's), (22, 112349), (Start: 47 @112415 has 171 MA's), (59, 112490), (78, 112604), (85, 112628), (95, 112688), (113, 112799), (118, 112838), (125, 112862), (130, 112904), (148, 113003), (159, 113045), (161, 113051), (164, 113063), (173, 113126), (180, 113186), (181, 113189), (186, 113216), (195, 113258), (210, 113321), (230, 113441), (236, 113477), (240, 113495), (243, 113510), (255, 113627), (260, 113666), (272, 113786), (278, 113828), (286, 113873), (288, 113882), (297, 113933), (306, 113975), (321, 114041), (322, 114050), (323, 114053), (324, 114059), (325, 114062), (326, 114071), (327, 114077), (328, 114092), (347, 114179), (367, 114284), (375,

114338), (384, 114425), (388, 114455), (393, 114485), (400, 114518), (402, 114527), (410, 114599), (414, 114629), (436, 114746), (443, 114791), (453, 114833), (479, 114977), (496, 115037), (518, 115139), (537, 115226), (538, 115229), (541, 115247), (547, 115283), (548, 115286), (568, 115346), (572, 115364), (591, 115460), (598, 115490), (602, 115508), (610, 115538), (635, 115631), (640, 115646), (656, 115727), (657, 115733), (661, 115745),

Gene: BeardedLady_53 Start: 40610, Stop: 37131, Start Num: 47

Candidate Starts for BeardedLady_53:

(2, 40820), (Start: 47 @40610 has 171 MA's), (59, 40538), (Start: 65 @40511 has 1 MA's), (67, 40496), (90, 40334), (94, 40307), (96, 40301), (108, 40211), (112, 40196), (121, 40142), (122, 40139), (138, 40043), (163, 39965), (171, 39905), (184, 39818), (192, 39779), (203, 39734), (208, 39713), (212, 39698), (220, 39656), (223, 39644), (233, 39578), (235, 39566), (247, 39503), (262, 39374), (263, 39365), (269, 39329), (279, 39245), (281, 39227), (291, 39170), (292, 39167), (296, 39155), (326, 39017), (327, 39011), (328, 38996), (330, 38990), (336, 38957), (353, 38879), (359, 38846), (386, 38705), (397, 38648), (401, 38624), (402, 38618), (410, 38549), (420, 38486), (433, 38420), (442, 38381), (454, 38324), (455, 38315), (474, 38207), (475, 38198), (480, 38186), (483, 38165), (492, 38135), (499, 38108), (513, 38042), (515, 38033), (517, 38021), (534, 37934), (539, 37910), (548, 37862), (578, 37718), (595, 37643), (638, 37469), (640, 37460), (643, 37433), (654, 37385), (663, 37352),

Gene: Belfort_62 Start: 50235, Stop: 53525, Start Num: 49

Candidate Starts for Belfort_62:

(Start: 40 @50217 has 5 MA's), (Start: 49 @50235 has 71 MA's), (54, 50250), (55, 50256), (57, 50286), (60, 50307), (64, 50325), (Start: 65 @50331 has 1 MA's), (92, 50499), (99, 50541), (109, 50610), (120, 50670), (138, 50784), (139, 50790), (159, 50895), (169, 50958), (171, 50964), (177, 51003), (216, 51192), (228, 51249), (232, 51276), (241, 51321), (281, 51627), (289, 51663), (320, 51747), (327, 51786), (345, 51891), (347, 51903), (353, 51936), (358, 51966), (359, 51969), (362, 51981), (363, 51987), (380, 52059), (388, 52125), (390, 52131), (401, 52194), (410, 52266), (421, 52320), (423, 52329), (427, 52347), (429, 52353), (453, 52467), (460, 52533), (463, 52545), (469, 52569), (476, 52605), (478, 52608), (493, 52665), (495, 52671), (498, 52683), (508, 52719), (520, 52788), (561, 52986), (569, 53019), (576, 53055), (577, 53061), (582, 53073), (603, 53172), (606, 53181), (611, 53202), (618, 53232), (630, 53289), (644, 53352), (654, 53403), (657, 53415),

Gene: Belieber_202 Start: 111203, Stop: 114598, Start Num: 47

Candidate Starts for Belieber_202:

(Start: 14 @111110 has 47 MA's), (Start: 15 @111116 has 6 MA's), (Start: 18 @111128 has 8 MA's), (22, 111137), (Start: 47 @111203 has 171 MA's), (59, 111278), (78, 111392), (85, 111416), (95, 111476), (113, 111587), (118, 111626), (125, 111650), (130, 111692), (148, 111791), (159, 111833), (161, 111839), (164, 111851), (173, 111914), (180, 111974), (181, 111977), (186, 112004), (195, 112046), (210, 112109), (230, 112229), (236, 112265), (240, 112283), (243, 112298), (255, 112415), (260, 112454), (272, 112574), (278, 112616), (286, 112661), (288, 112670), (297, 112721), (306, 112763), (321, 112829), (322, 112838), (323, 112841), (324, 112847), (325, 112850), (326, 112859), (327, 112865), (328, 112880), (347, 112967), (367, 113072), (375, 113126), (384, 113213), (388, 113243), (393, 113273), (400, 113306), (402, 113315), (410, 113387), (414, 113417), (436, 113534), (443, 113579), (453, 113621), (479, 113765), (496, 113825), (518, 113927), (537, 114014), (538, 114017), (541, 114035), (547, 114071), (548, 114074), (568, 114134), (572, 114152), (591, 114248), (598, 114278), (602, 114296), (610, 114326), (635, 114419), (640, 114434), (656, 114515), (657, 114521), (661, 114533),

Gene: Beted_97 Start: 71922, Stop: 74735, Start Num: 40

Candidate Starts for Beted_97:

(Start: 33 @71907 has 1 MA's), (Start: 37 @71919 has 1 MA's), (Start: 40 @71922 has 5 MA's), (59, 72015), (68, 72075), (93, 72225), (94, 72228), (96, 72234), (103, 72276), (110, 72333), (114, 72363),

(115, 72366), (116, 72369), (126, 72429), (130, 72450), (131, 72453), (136, 72480), (153, 72570), (161, 72597), (163, 72606), (170, 72663), (173, 72672), (196, 72804), (233, 72969), (236, 72987), (239, 73002), (241, 73008), (243, 73020), (249, 73047), (250, 73050), (256, 73110), (257, 73119), (258, 73122), (260, 73134), (263, 73179), (271, 73248), (274, 73272), (300, 73428), (308, 73470), (313, 73488), (330, 73584), (337, 73626), (347, 73668), (349, 73677), (352, 73695), (353, 73701), (357, 73725), (358, 73731), (359, 73734), (363, 73752), (364, 73755), (383, 73848), (390, 73893), (391, 73899), (395, 73923), (396, 73926), (398, 73935), (399, 73941), (401, 73953), (418, 74070), (420, 74088), (421, 74091), (423, 74100), (446, 74214), (449, 74229), (474, 74376), (478, 74388), (480, 74394), (497, 74460), (500, 74478), (503, 74490), (506, 74499), (525, 74613), (528, 74625), (532, 74640), (546, 74715), (547, 74724),

Gene: Beuffert_58 Start: 48843, Stop: 52133, Start Num: 49

Candidate Starts for Beuffert_58:

(Start: 49 @48843 has 71 MA's), (60, 48915), (Start: 65 @48939 has 1 MA's), (109, 49218), (120, 49278), (146, 49446), (159, 49503), (169, 49566), (176, 49608), (177, 49611), (242, 49938), (252, 50004), (253, 50007), (322, 50367), (327, 50394), (335, 50448), (346, 50505), (347, 50511), (380, 50667), (383, 50694), (390, 50739), (401, 50802), (410, 50874), (421, 50928), (423, 50937), (425, 50946), (427, 50955), (429, 50961), (453, 51075), (463, 51153), (476, 51213), (493, 51273), (495, 51279), (498, 51291), (520, 51396), (533, 51465), (561, 51594), (574, 51657), (575, 51660), (576, 51663), (577, 51669), (603, 51780), (606, 51789), (611, 51810), (618, 51840), (625, 51864), (627, 51873), (644, 51960), (647, 51972), (654, 52011), (657, 52023), (674, 52110),

Gene: Bezza_198 Start: 112927, Stop: 116322, Start Num: 47

Candidate Starts for Bezza_198:

(Start: 6 @112804 has 5 MA's), (Start: 14 @112834 has 47 MA's), (Start: 15 @112840 has 6 MA's), (Start: 18 @112852 has 8 MA's), (22, 112861), (Start: 47 @112927 has 171 MA's), (59, 113002), (78, 113116), (85, 113140), (95, 113200), (113, 113311), (118, 113350), (125, 113374), (130, 113416), (148, 113515), (159, 113557), (161, 113563), (164, 113575), (173, 113638), (180, 113698), (181, 113701), (186, 113728), (195, 113770), (210, 113833), (230, 113953), (236, 113989), (240, 114007), (243, 114022), (255, 114139), (260, 114178), (272, 114298), (278, 114340), (286, 114385), (288, 114394), (297, 114445), (306, 114487), (321, 114553), (322, 114562), (323, 114565), (324, 114571), (325, 114574), (326, 114583), (327, 114589), (328, 114604), (347, 114691), (367, 114796), (375, 114850), (384, 114937), (388, 114967), (393, 114997), (400, 115030), (402, 115039), (410, 115111), (414, 115141), (436, 115258), (443, 115303), (453, 115345), (479, 115489), (496, 115549), (518, 115651), (537, 115738), (538, 115741), (541, 115759), (547, 115795), (548, 115798), (568, 115858), (572, 115876), (591, 115972), (598, 116002), (602, 116020), (610, 116050), (635, 116143), (640, 116158), (656, 116239), (657, 116245), (661, 116257),

Gene: BigCity_218 Start: 115911, Stop: 119381, Start Num: 18

Candidate Starts for BigCity_218:

(4, 115818), (Start: 14 @115893 has 47 MA's), (Start: 15 @115899 has 6 MA's), (Start: 18 @115911 has 8 MA's), (22, 115920), (Start: 47 @115986 has 171 MA's), (59, 116061), (78, 116175), (85, 116199), (95, 116259), (113, 116370), (118, 116409), (125, 116433), (130, 116475), (148, 116574), (159, 116616), (161, 116622), (164, 116634), (173, 116697), (180, 116757), (181, 116760), (186, 116787), (195, 116829), (210, 116892), (236, 117048), (240, 117066), (243, 117081), (255, 117198), (260, 117237), (272, 117357), (278, 117399), (286, 117444), (288, 117453), (297, 117504), (306, 117546), (321, 117612), (322, 117621), (323, 117624), (324, 117630), (325, 117633), (326, 117642), (327, 117648), (328, 117663), (347, 117750), (367, 117855), (375, 117909), (384, 117996), (388, 118026), (393, 118056), (400, 118089), (402, 118098), (410, 118170), (414, 118200), (436, 118317), (443, 118362), (453, 118404), (479, 118548), (496, 118608), (518, 118710), (537, 118797), (538, 118800), (541, 118818), (547, 118854), (548, 118857), (568, 118917), (572, 118935), (591, 119031), (598, 119061), (602, 119079), (610, 119109), (635, 119202), (640, 119217), (656, 119298), (657, 119304), (661, 119316),

Gene: Bigswole_214 Start: 115765, Stop: 119235, Start Num: 18

Candidate Starts for Bigswole_214:

(4, 115672), (Start: 14 @115747 has 47 MA's), (Start: 15 @115753 has 6 MA's), (Start: 18 @115765 has 8 MA's), (22, 115774), (Start: 47 @115840 has 171 MA's), (59, 115915), (78, 116029), (85, 116053), (95, 116113), (113, 116224), (118, 116263), (125, 116287), (130, 116329), (148, 116428), (159, 116470), (161, 116476), (164, 116488), (173, 116551), (180, 116611), (181, 116614), (186, 116641), (195, 116683), (210, 116746), (236, 116902), (240, 116920), (243, 116935), (255, 117052), (260, 117091), (272, 117211), (278, 117253), (286, 117298), (288, 117307), (297, 117358), (306, 117400), (321, 117466), (322, 117475), (323, 117478), (324, 117484), (325, 117487), (326, 117496), (327, 117502), (328, 117517), (347, 117604), (367, 117709), (375, 117763), (384, 117850), (388, 117880), (393, 117910), (400, 117943), (402, 117952), (410, 118024), (414, 118054), (436, 118171), (443, 118216), (453, 118258), (479, 118402), (496, 118462), (518, 118564), (537, 118651), (538, 118654), (541, 118672), (547, 118708), (548, 118711), (568, 118771), (572, 118789), (591, 118885), (598, 118915), (602, 118933), (610, 118963), (635, 119056), (640, 119071), (656, 119152), (657, 119158), (661, 119170),

Gene: BillNye_56 Start: 51723, Stop: 55010, Start Num: 49

Candidate Starts for BillNye_56:

(Start: 49 @51723 has 71 MA's), (55, 51744), (60, 51795), (Start: 65 @51819 has 1 MA's), (80, 51915), (109, 52098), (120, 52158), (136, 52248), (139, 52278), (144, 52320), (146, 52326), (159, 52383), (169, 52446), (177, 52491), (185, 52539), (242, 52818), (253, 52887), (269, 53019), (272, 53052), (286, 53139), (320, 53235), (327, 53274), (328, 53289), (346, 53385), (347, 53391), (353, 53424), (362, 53469), (363, 53475), (369, 53505), (380, 53547), (385, 53592), (390, 53619), (401, 53682), (410, 53754), (421, 53808), (423, 53817), (427, 53835), (429, 53841), (454, 53967), (460, 54021), (463, 54033), (474, 54084), (496, 54165), (498, 54171), (529, 54327), (577, 54549), (579, 54552), (603, 54660), (606, 54669), (616, 54708), (636, 54798), (644, 54840), (648, 54855), (657, 54903), (673, 54981),

Gene: Bipolarisk_207 Start: 113080, Stop: 116475, Start Num: 47

Candidate Starts for Bipolarisk_207:

(Start: 14 @112987 has 47 MA's), (Start: 15 @112993 has 6 MA's), (Start: 18 @113005 has 8 MA's), (22, 113014), (Start: 47 @113080 has 171 MA's), (59, 113155), (78, 113269), (85, 113293), (95, 113353), (113, 113464), (118, 113503), (125, 113527), (130, 113569), (148, 113668), (159, 113710), (161, 113716), (164, 113728), (173, 113791), (180, 113851), (181, 113854), (186, 113881), (195, 113923), (210, 113986), (230, 114106), (236, 114142), (240, 114160), (243, 114175), (255, 114292), (260, 114331), (272, 114451), (278, 114493), (286, 114538), (288, 114547), (297, 114598), (306, 114640), (321, 114706), (322, 114715), (323, 114718), (324, 114724), (325, 114727), (326, 114736), (327, 114742), (328, 114757), (347, 114844), (367, 114949), (375, 115003), (384, 115090), (388, 115120), (393, 115150), (400, 115183), (402, 115192), (410, 115264), (414, 115294), (436, 115411), (443, 115456), (453, 115498), (479, 115642), (496, 115702), (518, 115804), (537, 115891), (538, 115894), (541, 115912), (547, 115948), (548, 115951), (568, 116011), (572, 116029), (591, 116125), (598, 116155), (602, 116173), (610, 116203), (635, 116296), (640, 116311), (656, 116392), (657, 116398), (661, 116410),

Gene: Birchlyn_79 Start: 56300, Stop: 59620, Start Num: 48

Candidate Starts for Birchlyn_79:

(Start: 48 @56300 has 34 MA's), (57, 56351), (60, 56372), (Start: 65 @56396 has 1 MA's), (77, 56477), (109, 56675), (139, 56855), (146, 56903), (159, 56960), (168, 57011), (169, 57029), (172, 57038), (177, 57074), (198, 57182), (200, 57191), (242, 57401), (253, 57470), (272, 57635), (285, 57713), (326, 57875), (347, 57998), (363, 58082), (378, 58145), (380, 58154), (410, 58358), (421, 58412), (423, 58421), (427, 58439), (429, 58445), (461, 58628), (463, 58637), (469, 58661), (474, 58688), (499, 58796), (539, 58985), (555, 59063), (565, 59105), (569, 59123), (577, 59165), (587, 59204),

(588, 59210), (594, 59237), (603, 59276), (616, 59324), (617, 59333), (633, 59405), (640, 59426), (643, 59453), (644, 59456), (648, 59471), (653, 59504), (668, 59573),

Gene: Blackbrain_206 Start: 112974, Stop: 116369, Start Num: 47

Candidate Starts for Blackbrain_206:

(Start: 14 @112881 has 47 MA's), (Start: 15 @112887 has 6 MA's), (Start: 18 @112899 has 8 MA's), (22, 112908), (Start: 47 @112974 has 171 MA's), (59, 113049), (78, 113163), (85, 113187), (95, 113247), (113, 113358), (118, 113397), (125, 113421), (130, 113463), (148, 113562), (159, 113604), (161, 113610), (164, 113622), (173, 113685), (180, 113745), (181, 113748), (186, 113775), (195, 113817), (210, 113880), (236, 114036), (240, 114054), (243, 114069), (255, 114186), (260, 114225), (272, 114345), (278, 114387), (286, 114432), (288, 114441), (297, 114492), (306, 114534), (321, 114600), (322, 114609), (323, 114612), (324, 114618), (325, 114621), (326, 114630), (327, 114636), (328, 114651), (347, 114738), (367, 114843), (375, 114897), (384, 114984), (388, 115014), (393, 115044), (400, 115077), (402, 115086), (410, 115158), (414, 115188), (436, 115305), (443, 115350), (453, 115392), (479, 115536), (496, 115596), (518, 115698), (537, 115785), (538, 115788), (541, 115806), (547, 115842), (548, 115845), (568, 115905), (572, 115923), (591, 116019), (598, 116049), (602, 116067), (610, 116097), (635, 116190), (640, 116205), (656, 116286), (657, 116292), (661, 116304),

Gene: Blackdragon_204 Start: 112713, Stop: 116108, Start Num: 47

Candidate Starts for Blackdragon_204:

(Start: 6 @112590 has 5 MA's), (Start: 14 @112620 has 47 MA's), (Start: 15 @112626 has 6 MA's), (Start: 18 @112638 has 8 MA's), (22, 112647), (Start: 47 @112713 has 171 MA's), (59, 112788), (78, 112902), (85, 112926), (95, 112986), (113, 113097), (118, 113136), (125, 113160), (130, 113202), (148, 113301), (159, 113343), (161, 113349), (164, 113361), (173, 113424), (180, 113484), (181, 113487), (186, 113514), (195, 113556), (210, 113619), (230, 113739), (236, 113775), (240, 113793), (243, 113808), (255, 113925), (260, 113964), (272, 114084), (278, 114126), (286, 114171), (288, 114180), (297, 114231), (306, 114273), (321, 114339), (322, 114348), (323, 114351), (324, 114357), (325, 114360), (326, 114369), (327, 114375), (328, 114390), (347, 114477), (367, 114582), (375, 114636), (384, 114723), (388, 114753), (393, 114783), (400, 114816), (402, 114825), (410, 114897), (414, 114927), (436, 115044), (443, 115089), (453, 115131), (479, 115275), (496, 115335), (518, 115437), (537, 115524), (538, 115527), (541, 115545), (547, 115581), (548, 115584), (568, 115644), (572, 115662), (591, 115758), (598, 115788), (602, 115806), (610, 115836), (635, 115929), (640, 115944), (656, 116025), (657, 116031), (661, 116043),

Gene: Blubba_198 Start: 116099, Stop: 119494, Start Num: 47

Candidate Starts for Blubba_198:

(Start: 14 @116006 has 47 MA's), (Start: 15 @116012 has 6 MA's), (Start: 18 @116024 has 8 MA's), (22, 116033), (Start: 47 @116099 has 171 MA's), (59, 116174), (78, 116288), (85, 116312), (95, 116372), (113, 116483), (118, 116522), (125, 116546), (130, 116588), (148, 116687), (159, 116729), (161, 116735), (164, 116747), (173, 116810), (180, 116870), (181, 116873), (186, 116900), (195, 116942), (210, 117005), (236, 117161), (240, 117179), (243, 117194), (255, 117311), (260, 117350), (272, 117470), (278, 117512), (286, 117557), (288, 117566), (297, 117617), (306, 117659), (321, 117725), (322, 117734), (323, 117737), (324, 117743), (325, 117746), (326, 117755), (327, 117761), (328, 117776), (347, 117863), (367, 117968), (375, 118022), (384, 118109), (388, 118139), (393, 118169), (400, 118202), (402, 118211), (410, 118283), (414, 118313), (436, 118430), (443, 118475), (453, 118517), (479, 118661), (496, 118721), (518, 118823), (537, 118910), (538, 118913), (541, 118931), (547, 118967), (548, 118970), (568, 119030), (572, 119048), (591, 119144), (598, 119174), (602, 119192), (610, 119222), (635, 119315), (640, 119330), (657, 119417), (661, 119429), (668, 119468),

Gene: BlueOtter_80 Start: 59162, Stop: 62446, Start Num: 49

Candidate Starts for BlueOtter_80:

(Start: 49 @59162 has 71 MA's), (56, 59207), (60, 59237), (64, 59255), (Start: 65 @59261 has 1 MA's), (109, 59540), (127, 59642), (139, 59720), (159, 59825), (169, 59888), (171, 59894), (177, 59933), (200, 60050), (219, 60134), (242, 60260), (249, 60290), (253, 60329), (254, 60338), (278, 60536), (327, 60716), (345, 60821), (346, 60827), (347, 60833), (363, 60917), (369, 60947), (380, 60989), (383, 61016), (387, 61049), (390, 61061), (401, 61124), (410, 61196), (421, 61250), (423, 61259), (425, 61268), (427, 61277), (429, 61283), (474, 61526), (493, 61595), (496, 61607), (519, 61712), (559, 61907), (567, 61940), (577, 61991), (587, 62030), (588, 62036), (603, 62102), (616, 62150), (625, 62186), (633, 62231), (636, 62240), (644, 62282), (652, 62327), (653, 62330), (657, 62345),

Gene: Blueeyedbeauty_60 Start: 48314, Stop: 51508, Start Num: 65

Candidate Starts for Blueeyedbeauty_60:

(Start: 49 @48218 has 71 MA's), (60, 48290), (Start: 65 @48314 has 1 MA's), (109, 48593), (114, 48623), (120, 48653), (147, 48824), (159, 48878), (169, 48941), (176, 48983), (177, 48986), (242, 49313), (252, 49379), (272, 49547), (319, 49727), (322, 49742), (327, 49769), (335, 49823), (346, 49880), (347, 49886), (358, 49949), (370, 50003), (380, 50042), (390, 50114), (401, 50177), (407, 50237), (408, 50246), (410, 50249), (421, 50303), (423, 50312), (425, 50321), (427, 50330), (429, 50336), (453, 50450), (463, 50528), (469, 50552), (476, 50588), (493, 50648), (495, 50654), (498, 50666), (520, 50771), (561, 50969), (575, 51035), (576, 51038), (577, 51044), (603, 51155), (605, 51161), (606, 51164), (611, 51185), (618, 51215), (627, 51248), (630, 51272), (644, 51335), (647, 51347), (654, 51386), (657, 51398), (674, 51485),

Gene: Bmoc_78 Start: 57819, Stop: 61103, Start Num: 49

Candidate Starts for Bmoc_78:

(Start: 49 @57819 has 71 MA's), (56, 57864), (60, 57894), (Start: 65 @57918 has 1 MA's), (109, 58197), (127, 58299), (139, 58377), (159, 58482), (169, 58545), (171, 58551), (177, 58590), (200, 58707), (223, 58806), (242, 58917), (253, 58986), (258, 59025), (277, 59190), (286, 59238), (290, 59259), (327, 59373), (328, 59388), (345, 59478), (346, 59484), (347, 59490), (363, 59574), (378, 59637), (380, 59646), (383, 59673), (390, 59718), (401, 59781), (410, 59853), (421, 59907), (423, 59916), (425, 59925), (427, 59934), (429, 59940), (474, 60183), (493, 60252), (496, 60264), (497, 60267), (523, 60378), (577, 60648), (594, 60720), (603, 60759), (616, 60807), (633, 60888), (636, 60897), (644, 60939), (653, 60987), (657, 61002), (665, 61041),

Gene: BobaPhatt_201 Start: 111088, Stop: 114483, Start Num: 47

Candidate Starts for BobaPhatt_201:

(Start: 14 @110995 has 47 MA's), (Start: 15 @111001 has 6 MA's), (Start: 18 @111013 has 8 MA's), (22, 111022), (Start: 47 @111088 has 171 MA's), (59, 111163), (78, 111277), (85, 111301), (95, 111361), (113, 111472), (118, 111511), (125, 111535), (130, 111577), (148, 111676), (159, 111718), (161, 111724), (164, 111736), (173, 111799), (180, 111859), (181, 111862), (186, 111889), (195, 111931), (210, 111994), (230, 112114), (236, 112150), (240, 112168), (243, 112183), (255, 112300), (260, 112339), (272, 112459), (278, 112501), (286, 112546), (288, 112555), (297, 112606), (306, 112648), (321, 112714), (322, 112723), (323, 112726), (324, 112732), (325, 112735), (326, 112744), (327, 112750), (328, 112765), (347, 112852), (367, 112957), (375, 113011), (384, 113098), (388, 113128), (393, 113158), (400, 113191), (402, 113200), (410, 113272), (414, 113302), (436, 113419), (443, 113464), (453, 113506), (479, 113650), (496, 113710), (518, 113812), (537, 113899), (538, 113902), (541, 113920), (547, 113956), (548, 113959), (568, 114019), (572, 114037), (591, 114133), (598, 114163), (602, 114181), (610, 114211), (635, 114304), (640, 114319), (656, 114400), (657, 114406), (661, 114418),

Gene: Bonray_211 Start: 114482, Stop: 117877, Start Num: 47

Candidate Starts for Bonray_211:

(Start: 14 @114389 has 47 MA's), (Start: 15 @114395 has 6 MA's), (Start: 18 @114407 has 8 MA's), (22, 114416), (Start: 47 @114482 has 171 MA's), (59, 114557), (78, 114671), (85, 114695), (95, 114755), (113, 114866), (118, 114905), (125, 114929), (130, 114971), (148, 115070), (159, 115112),

(161, 115118), (164, 115130), (173, 115193), (180, 115253), (181, 115256), (186, 115283), (195, 115325), (210, 115388), (230, 115508), (236, 115544), (240, 115562), (243, 115577), (255, 115694), (260, 115733), (272, 115853), (278, 115895), (286, 115940), (288, 115949), (297, 116000), (306, 116042), (321, 116108), (322, 116117), (323, 116120), (324, 116126), (325, 116129), (326, 116138), (327, 116144), (328, 116159), (347, 116246), (367, 116351), (375, 116405), (384, 116492), (388, 116522), (393, 116552), (400, 116585), (402, 116594), (410, 116666), (414, 116696), (436, 116813), (443, 116858), (453, 116900), (479, 117044), (496, 117104), (518, 117206), (537, 117293), (538, 117296), (541, 117314), (547, 117350), (548, 117353), (568, 117413), (572, 117431), (591, 117527), (598, 117557), (602, 117575), (610, 117605), (635, 117698), (640, 117713), (656, 117794), (657, 117800), (661, 117812),

Gene: BoomerJR_82 Start: 58278, Stop: 61598, Start Num: 48

Candidate Starts for BoomerJR_82:

(Start: 48 @58278 has 34 MA's), (60, 58350), (Start: 65 @58374 has 1 MA's), (77, 58455), (109, 58653), (139, 58833), (146, 58881), (159, 58938), (168, 58989), (169, 59007), (172, 59016), (177, 59052), (198, 59160), (200, 59169), (216, 59241), (242, 59379), (253, 59448), (272, 59613), (285, 59691), (326, 59853), (329, 59877), (347, 59976), (363, 60060), (380, 60132), (410, 60336), (421, 60390), (423, 60399), (427, 60417), (429, 60423), (453, 60537), (463, 60615), (469, 60639), (474, 60666), (528, 60918), (529, 60921), (533, 60939), (537, 60951), (555, 61041), (569, 61101), (577, 61143), (587, 61182), (588, 61188), (594, 61215), (603, 61254), (616, 61302), (617, 61311), (633, 61383), (637, 61395), (640, 61404), (643, 61431), (644, 61434), (648, 61449), (653, 61482), (665, 61536), (668, 61551),

Gene: Bordeaux_80 Start: 58572, Stop: 61892, Start Num: 48

Candidate Starts for Bordeaux_80:

(Start: 48 @58572 has 34 MA's), (57, 58623), (60, 58644), (Start: 65 @58668 has 1 MA's), (77, 58749), (109, 58947), (139, 59127), (142, 59160), (146, 59175), (159, 59232), (168, 59283), (169, 59301), (172, 59310), (177, 59346), (198, 59454), (200, 59463), (242, 59673), (253, 59742), (272, 59907), (285, 59985), (326, 60147), (347, 60270), (351, 60294), (363, 60354), (380, 60426), (410, 60630), (421, 60684), (423, 60693), (427, 60711), (429, 60717), (461, 60900), (463, 60909), (469, 60933), (474, 60960), (499, 61068), (539, 61257), (555, 61335), (565, 61377), (569, 61395), (577, 61437), (587, 61476), (588, 61482), (594, 61509), (603, 61548), (616, 61596), (617, 61605), (633, 61677), (640, 61698), (643, 61725), (644, 61728), (648, 61743), (653, 61776), (668, 61845),

Gene: Bovely_53 Start: 40239, Stop: 36760, Start Num: 47

Candidate Starts for Bovely_53:

(2, 40449), (Start: 47 @40239 has 171 MA's), (59, 40167), (Start: 65 @40140 has 1 MA's), (67, 40125), (90, 39963), (94, 39936), (96, 39930), (108, 39840), (112, 39825), (121, 39771), (122, 39768), (138, 39672), (163, 39594), (184, 39447), (192, 39408), (203, 39363), (208, 39342), (212, 39327), (220, 39285), (223, 39273), (233, 39207), (235, 39195), (247, 39132), (262, 39003), (263, 38994), (269, 38958), (279, 38874), (281, 38856), (291, 38799), (292, 38796), (296, 38784), (326, 38646), (327, 38640), (328, 38625), (330, 38619), (336, 38586), (353, 38508), (359, 38475), (386, 38334), (397, 38277), (401, 38253), (402, 38247), (410, 38178), (420, 38115), (433, 38049), (437, 38028), (442, 38010), (454, 37953), (455, 37944), (474, 37836), (475, 37827), (480, 37815), (483, 37794), (492, 37764), (499, 37737), (513, 37671), (515, 37662), (517, 37650), (534, 37563), (539, 37539), (548, 37491), (578, 37347), (595, 37272), (638, 37098), (643, 37062), (654, 37014), (663, 36981),

Gene: Bowman_207 Start: 113588, Stop: 116983, Start Num: 47

Candidate Starts for Bowman_207:

(Start: 14 @113495 has 47 MA's), (Start: 15 @113501 has 6 MA's), (Start: 18 @113513 has 8 MA's), (22, 113522), (Start: 47 @113588 has 171 MA's), (59, 113663), (78, 113777), (85, 113801), (95, 113861), (113, 113972), (118, 114011), (125, 114035), (130, 114077), (148, 114176), (159, 114218), (161, 114224), (164, 114236), (173, 114299), (180, 114359), (181, 114362), (186, 114389), (195,

114431), (210, 114494), (236, 114650), (240, 114668), (243, 114683), (255, 114800), (260, 114839), (272, 114959), (278, 115001), (286, 115046), (288, 115055), (297, 115106), (306, 115148), (321, 115214), (322, 115223), (323, 115226), (324, 115232), (325, 115235), (326, 115244), (327, 115250), (328, 115265), (347, 115352), (367, 115457), (375, 115511), (384, 115598), (388, 115628), (393, 115658), (400, 115691), (402, 115700), (410, 115772), (414, 115802), (436, 115919), (443, 115964), (453, 116006), (479, 116150), (496, 116210), (518, 116312), (537, 116399), (538, 116402), (541, 116420), (547, 116456), (548, 116459), (568, 116519), (572, 116537), (591, 116633), (598, 116663), (602, 116681), (610, 116711), (635, 116804), (640, 116819), (656, 116900), (657, 116906), (661, 116918),

Gene: Braelyn_79 Start: 58581, Stop: 61865, Start Num: 49

Candidate Starts for Braelyn_79:

(Start: 49 @58581 has 71 MA's), (56, 58626), (60, 58656), (64, 58674), (Start: 65 @58680 has 1 MA's), (109, 58959), (111, 58965), (127, 59061), (139, 59139), (159, 59244), (169, 59307), (171, 59313), (177, 59352), (200, 59469), (223, 59568), (242, 59679), (249, 59709), (253, 59748), (285, 59991), (290, 60021), (327, 60135), (328, 60150), (345, 60240), (346, 60246), (347, 60252), (363, 60336), (378, 60399), (380, 60408), (390, 60480), (401, 60543), (410, 60615), (421, 60669), (423, 60678), (425, 60687), (427, 60696), (429, 60702), (445, 60783), (460, 60882), (474, 60945), (493, 61014), (496, 61026), (535, 61212), (539, 61230), (559, 61326), (567, 61359), (577, 61410), (588, 61455), (603, 61521), (611, 61551), (616, 61569), (633, 61650), (642, 61680), (644, 61701), (653, 61749), (657, 61764),

Gene: Brataylor_57 Start: 42019, Stop: 38543, Start Num: 47

Candidate Starts for Brataylor_57:

(Start: 21 @42088 has 1 MA's), (Start: 47 @42019 has 171 MA's), (Start: 58 @41959 has 1 MA's), (59, 41950), (67, 41908), (81, 41815), (90, 41746), (102, 41677), (108, 41623), (122, 41551), (138, 41455), (163, 41377), (184, 41230), (192, 41191), (199, 41164), (203, 41146), (208, 41125), (212, 41110), (233, 40990), (235, 40978), (261, 40792), (262, 40786), (279, 40657), (281, 40639), (291, 40582), (292, 40579), (296, 40567), (326, 40429), (327, 40423), (328, 40408), (330, 40402), (336, 40369), (353, 40291), (359, 40258), (386, 40117), (401, 40036), (402, 40030), (410, 39961), (417, 39919), (420, 39898), (425, 39877), (433, 39832), (442, 39793), (454, 39736), (455, 39727), (469, 39646), (474, 39619), (480, 39598), (483, 39577), (492, 39547), (499, 39520), (513, 39454), (515, 39445), (517, 39433), (534, 39346), (570, 39178), (578, 39130), (596, 39046), (638, 38881), (640, 38872), (643, 38845), (654, 38797), (656, 38791), (662, 38770), (663, 38764), (677, 38659), (681, 38620), (688, 38557),

Gene: Bread_204 Start: 112387, Stop: 115875, Start Num: 14

Candidate Starts for Bread_204:

(Start: 14 @112387 has 47 MA's), (Start: 15 @112393 has 6 MA's), (Start: 18 @112405 has 8 MA's), (22, 112414), (Start: 47 @112480 has 171 MA's), (59, 112555), (78, 112669), (85, 112693), (95, 112753), (113, 112864), (118, 112903), (125, 112927), (130, 112969), (148, 113068), (159, 113110), (161, 113116), (164, 113128), (173, 113191), (180, 113251), (181, 113254), (186, 113281), (195, 113323), (210, 113386), (236, 113542), (240, 113560), (243, 113575), (255, 113692), (260, 113731), (272, 113851), (278, 113893), (286, 113938), (288, 113947), (297, 113998), (306, 114040), (321, 114106), (322, 114115), (323, 114118), (324, 114124), (325, 114127), (326, 114136), (327, 114142), (328, 114157), (347, 114244), (367, 114349), (375, 114403), (384, 114490), (388, 114520), (393, 114550), (400, 114583), (402, 114592), (410, 114664), (414, 114694), (436, 114811), (443, 114856), (453, 114898), (479, 115042), (496, 115102), (518, 115204), (537, 115291), (538, 115294), (541, 115312), (547, 115348), (548, 115351), (568, 115411), (572, 115429), (591, 115525), (598, 115555), (602, 115573), (610, 115603), (635, 115696), (640, 115711), (656, 115792), (657, 115798), (661, 115810),

Gene: Breeniome_208 Start: 111841, Stop: 115329, Start Num: 14

Candidate Starts for Breeniome_208:

(Start: 14 @111841 has 47 MA's), (Start: 15 @111847 has 6 MA's), (Start: 18 @111859 has 8 MA's), (22, 111868), (Start: 47 @111934 has 171 MA's), (59, 112009), (78, 112123), (85, 112147), (95, 112207), (113, 112318), (118, 112357), (125, 112381), (130, 112423), (148, 112522), (159, 112564), (161, 112570), (164, 112582), (173, 112645), (180, 112705), (181, 112708), (186, 112735), (195, 112777), (210, 112840), (236, 112996), (240, 113014), (243, 113029), (255, 113146), (260, 113185), (272, 113305), (278, 113347), (286, 113392), (288, 113401), (297, 113452), (306, 113494), (321, 113560), (322, 113569), (323, 113572), (324, 113578), (325, 113581), (326, 113590), (327, 113596), (328, 113611), (347, 113698), (367, 113803), (375, 113857), (384, 113944), (388, 113974), (393, 114004), (400, 114037), (402, 114046), (410, 114118), (414, 114148), (436, 114265), (443, 114310), (453, 114352), (479, 114496), (496, 114556), (518, 114658), (537, 114745), (538, 114748), (541, 114766), (547, 114802), (548, 114805), (568, 114865), (572, 114883), (591, 114979), (598, 115009), (602, 115027), (610, 115057), (635, 115150), (640, 115165), (656, 115246), (657, 115252), (661, 115264),

Gene: Brizzy_81 Start: 58091, Stop: 61411, Start Num: 48

Candidate Starts for Brizzy_81:

(Start: 48 @58091 has 34 MA's), (57, 58142), (60, 58163), (Start: 65 @58187 has 1 MA's), (77, 58268), (109, 58466), (139, 58646), (146, 58694), (147, 58697), (159, 58751), (160, 58754), (168, 58802), (169, 58820), (172, 58829), (177, 58865), (198, 58973), (200, 58982), (242, 59192), (253, 59261), (272, 59426), (285, 59504), (304, 59573), (326, 59666), (347, 59789), (363, 59873), (378, 59936), (380, 59945), (410, 60149), (421, 60203), (423, 60212), (427, 60230), (429, 60236), (463, 60428), (469, 60452), (474, 60479), (499, 60587), (539, 60776), (555, 60854), (565, 60896), (569, 60914), (577, 60956), (587, 60995), (588, 61001), (594, 61028), (603, 61067), (616, 61115), (633, 61196), (640, 61217), (643, 61244), (644, 61247), (648, 61262), (653, 61295), (668, 61364),

Gene: BryanRecycles_55 Start: 40726, Stop: 37247, Start Num: 47

Candidate Starts for BryanRecycles_55:

(Start: 21 @40795 has 1 MA's), (Start: 47 @40726 has 171 MA's), (59, 40654), (Start: 65 @40627 has 1 MA's), (67, 40612), (90, 40450), (94, 40423), (96, 40417), (108, 40327), (112, 40312), (121, 40258), (122, 40255), (138, 40159), (163, 40081), (184, 39934), (192, 39895), (203, 39850), (208, 39829), (212, 39814), (220, 39772), (223, 39760), (233, 39694), (235, 39682), (247, 39619), (262, 39490), (263, 39481), (269, 39445), (279, 39361), (281, 39343), (291, 39286), (292, 39283), (296, 39271), (326, 39133), (327, 39127), (328, 39112), (330, 39106), (338, 39067), (353, 38995), (359, 38962), (383, 38845), (386, 38821), (397, 38764), (401, 38740), (402, 38734), (410, 38665), (420, 38602), (433, 38536), (437, 38515), (442, 38497), (454, 38440), (455, 38431), (474, 38323), (475, 38314), (480, 38302), (483, 38281), (492, 38251), (499, 38224), (513, 38158), (515, 38149), (517, 38137), (534, 38050), (539, 38026), (548, 37978), (578, 37834), (595, 37759), (638, 37585), (643, 37549), (654, 37501), (663, 37468),

Gene: Burrough_211 Start: 114157, Stop: 117645, Start Num: 14

Candidate Starts for Burrough_211:

(Start: 14 @114157 has 47 MA's), (Start: 15 @114163 has 6 MA's), (Start: 18 @114175 has 8 MA's), (22, 114184), (Start: 47 @114250 has 171 MA's), (59, 114325), (78, 114439), (85, 114463), (95, 114523), (113, 114634), (118, 114673), (125, 114697), (130, 114739), (148, 114838), (159, 114880), (161, 114886), (164, 114898), (173, 114961), (180, 115021), (181, 115024), (186, 115051), (195, 115093), (210, 115156), (236, 115312), (240, 115330), (243, 115345), (255, 115462), (260, 115501), (272, 115621), (278, 115663), (286, 115708), (288, 115717), (297, 115768), (306, 115810), (321, 115876), (322, 115885), (323, 115888), (324, 115894), (325, 115897), (326, 115906), (327, 115912), (328, 115927), (347, 116014), (367, 116119), (375, 116173), (384, 116260), (388, 116290), (393, 116320), (400, 116353), (402, 116362), (410, 116434), (414, 116464), (436, 116581), (443, 116626), (453, 116668), (479, 116812), (496, 116872), (518, 116974), (537, 117061), (538, 117064), (541, 117082), (547, 117118), (548, 117121), (568, 117181), (572, 117199), (591, 117295), (598, 117325),

(602, 117343), (610, 117373), (635, 117466), (640, 117481), (656, 117562), (657, 117568), (661, 117580),

Gene: Bxz1_199 Start: 115449, Stop: 118844, Start Num: 47

Candidate Starts for Bxz1_199:

(Start: 14 @115356 has 47 MA's), (Start: 15 @115362 has 6 MA's), (Start: 18 @115374 has 8 MA's), (22, 115383), (Start: 47 @115449 has 171 MA's), (59, 115524), (78, 115638), (85, 115662), (95, 115722), (113, 115833), (118, 115872), (125, 115896), (130, 115938), (148, 116037), (159, 116079), (161, 116085), (164, 116097), (173, 116160), (180, 116220), (181, 116223), (186, 116250), (195, 116292), (210, 116355), (236, 116511), (240, 116529), (243, 116544), (255, 116661), (260, 116700), (272, 116820), (278, 116862), (286, 116907), (288, 116916), (297, 116967), (306, 117009), (321, 117075), (322, 117084), (323, 117087), (324, 117093), (325, 117096), (326, 117105), (327, 117111), (328, 117126), (347, 117213), (367, 117318), (375, 117372), (384, 117459), (388, 117489), (393, 117519), (400, 117552), (402, 117561), (410, 117633), (414, 117663), (436, 117780), (443, 117825), (453, 117867), (479, 118011), (496, 118071), (518, 118173), (537, 118260), (538, 118263), (541, 118281), (547, 118317), (548, 118320), (568, 118380), (572, 118398), (591, 118494), (598, 118524), (602, 118542), (610, 118572), (635, 118665), (640, 118680), (656, 118761), (657, 118767), (661, 118779),

Gene: Cactojaque_204 Start: 111909, Stop: 115304, Start Num: 47

Candidate Starts for Cactojaque_204:

(Start: 14 @111816 has 47 MA's), (Start: 15 @111822 has 6 MA's), (Start: 18 @111834 has 8 MA's), (22, 111843), (Start: 47 @111909 has 171 MA's), (59, 111984), (78, 112098), (85, 112122), (95, 112182), (113, 112293), (118, 112332), (125, 112356), (130, 112398), (148, 112497), (159, 112539), (161, 112545), (164, 112557), (173, 112620), (180, 112680), (181, 112683), (186, 112710), (195, 112752), (210, 112815), (230, 112935), (236, 112971), (240, 112989), (243, 113004), (255, 113121), (260, 113160), (272, 113280), (278, 113322), (286, 113367), (288, 113376), (297, 113427), (306, 113469), (321, 113535), (322, 113544), (323, 113547), (324, 113553), (325, 113556), (326, 113565), (327, 113571), (328, 113586), (347, 113673), (367, 113778), (375, 113832), (384, 113919), (388, 113949), (393, 113979), (400, 114012), (402, 114021), (410, 114093), (414, 114123), (436, 114240), (443, 114285), (453, 114327), (479, 114471), (496, 114531), (518, 114633), (537, 114720), (538, 114723), (541, 114741), (547, 114777), (548, 114780), (568, 114840), (572, 114858), (591, 114954), (598, 114984), (602, 115002), (610, 115032), (635, 115125), (640, 115140), (656, 115221), (657, 115227), (661, 115239),

Gene: Cadmus_78 Start: 58149, Stop: 61433, Start Num: 49

Candidate Starts for Cadmus_78:

(9, 58020), (28, 58092), (Start: 49 @58149 has 71 MA's), (56, 58194), (60, 58224), (Start: 65 @58248 has 1 MA's), (109, 58527), (127, 58629), (134, 58656), (139, 58707), (140, 58719), (159, 58812), (169, 58875), (171, 58881), (177, 58920), (185, 58968), (200, 59037), (216, 59109), (223, 59136), (242, 59247), (253, 59316), (277, 59520), (294, 59610), (316, 59655), (327, 59703), (328, 59718), (345, 59808), (346, 59814), (347, 59820), (363, 59904), (378, 59967), (380, 59976), (390, 60048), (401, 60111), (410, 60183), (421, 60237), (423, 60246), (425, 60255), (427, 60264), (429, 60270), (445, 60351), (474, 60513), (493, 60582), (496, 60594), (523, 60708), (559, 60894), (567, 60927), (569, 60936), (577, 60978), (588, 61023), (603, 61089), (616, 61137), (625, 61173), (633, 61218), (643, 61266), (644, 61269), (650, 61305), (653, 61317), (657, 61332),

Gene: Cali_202 Start: 113769, Stop: 117251, Start Num: 15

Candidate Starts for Cali_202:

(Start: 6 @113733 has 5 MA's), (Start: 14 @113763 has 47 MA's), (Start: 15 @113769 has 6 MA's), (Start: 18 @113781 has 8 MA's), (22, 113790), (Start: 47 @113856 has 171 MA's), (59, 113931), (78, 114045), (85, 114069), (95, 114129), (113, 114240), (118, 114279), (125, 114303), (130, 114345), (148, 114444), (159, 114486), (161, 114492), (164, 114504), (173, 114567), (180, 114627), (181,

114630), (186, 114657), (195, 114699), (210, 114762), (230, 114882), (236, 114918), (240, 114936), (243, 114951), (255, 115068), (260, 115107), (272, 115227), (278, 115269), (286, 115314), (288, 115323), (297, 115374), (306, 115416), (321, 115482), (322, 115491), (323, 115494), (324, 115500), (325, 115503), (326, 115512), (327, 115518), (328, 115533), (347, 115620), (367, 115725), (375, 115779), (384, 115866), (388, 115896), (393, 115926), (400, 115959), (402, 115968), (410, 116040), (414, 116070), (436, 116187), (443, 116232), (453, 116274), (479, 116418), (496, 116478), (518, 116580), (537, 116667), (538, 116670), (541, 116688), (547, 116724), (548, 116727), (568, 116787), (572, 116805), (591, 116901), (598, 116931), (602, 116949), (610, 116979), (635, 117072), (640, 117087), (656, 117168), (657, 117174), (661, 117186),

Gene: Caliburn_52 Start: 40340, Stop: 36861, Start Num: 47

Candidate Starts for Caliburn_52:

(2, 40550), (Start: 47 @40340 has 171 MA's), (59, 40268), (Start: 65 @40241 has 1 MA's), (67, 40226), (90, 40064), (94, 40037), (96, 40031), (108, 39941), (112, 39926), (121, 39872), (122, 39869), (138, 39773), (163, 39695), (184, 39548), (192, 39509), (203, 39464), (208, 39443), (212, 39428), (220, 39386), (223, 39374), (233, 39308), (235, 39296), (247, 39233), (262, 39104), (263, 39095), (269, 39059), (279, 38975), (281, 38957), (291, 38900), (292, 38897), (296, 38885), (326, 38747), (327, 38741), (328, 38726), (330, 38720), (338, 38681), (342, 38663), (353, 38609), (359, 38576), (386, 38435), (401, 38354), (402, 38348), (410, 38279), (420, 38216), (433, 38150), (437, 38129), (442, 38111), (454, 38054), (455, 38045), (474, 37937), (475, 37928), (480, 37916), (483, 37895), (492, 37865), (499, 37838), (513, 37772), (515, 37763), (517, 37751), (534, 37664), (539, 37640), (548, 37592), (578, 37448), (595, 37373), (638, 37199), (643, 37163), (654, 37115), (663, 37082), (681, 36938),

Gene: Cane17_200 Start: 116508, Stop: 119903, Start Num: 47

Candidate Starts for Cane17_200:

(Start: 14 @116415 has 47 MA's), (Start: 15 @116421 has 6 MA's), (Start: 18 @116433 has 8 MA's), (22, 116442), (Start: 47 @116508 has 171 MA's), (59, 116583), (78, 116697), (85, 116721), (95, 116781), (113, 116892), (118, 116931), (125, 116955), (130, 116997), (148, 117096), (159, 117138), (161, 117144), (164, 117156), (173, 117219), (180, 117279), (181, 117282), (186, 117309), (195, 117351), (210, 117414), (236, 117570), (240, 117588), (243, 117603), (255, 117720), (260, 117759), (272, 117879), (278, 117921), (286, 117966), (288, 117975), (297, 118026), (306, 118068), (321, 118134), (322, 118143), (323, 118146), (324, 118152), (325, 118155), (326, 118164), (327, 118170), (328, 118185), (347, 118272), (367, 118377), (375, 118431), (384, 118518), (388, 118548), (393, 118578), (400, 118611), (402, 118620), (410, 118692), (414, 118722), (436, 118839), (443, 118884), (453, 118926), (479, 119070), (496, 119130), (518, 119232), (537, 119319), (538, 119322), (541, 119340), (547, 119376), (548, 119379), (568, 119439), (572, 119457), (591, 119553), (598, 119583), (602, 119601), (610, 119631), (635, 119724), (640, 119739), (657, 119826), (661, 119838), (668, 119877),

Gene: Cantare_64 Start: 54042, Stop: 56888, Start Num: 36

Candidate Starts for Cantare_64:

(32, 54024), (Start: 36 @54042 has 1 MA's), (45, 54060), (57, 54120), (59, 54138), (68, 54198), (76, 54243), (81, 54273), (83, 54288), (93, 54345), (103, 54396), (116, 54489), (125, 54528), (129, 54564), (130, 54570), (142, 54645), (143, 54648), (149, 54669), (152, 54678), (156, 54696), (157, 54702), (170, 54780), (173, 54789), (196, 54921), (209, 54972), (210, 54975), (212, 54984), (213, 54996), (224, 55050), (235, 55122), (236, 55128), (252, 55221), (253, 55224), (255, 55236), (257, 55260), (258, 55263), (264, 55326), (274, 55413), (283, 55473), (299, 55548), (313, 55611), (321, 55653), (322, 55662), (324, 55671), (327, 55689), (337, 55752), (347, 55794), (349, 55803), (353, 55827), (354, 55833), (359, 55860), (364, 55881), (383, 55974), (395, 56049), (399, 56067), (401, 56079), (413, 56175), (425, 56235), (426, 56241), (442, 56322), (448, 56352), (466, 56466), (471, 56502), (474, 56511), (489, 56562), (497, 56595), (506, 56634), (517, 56697), (519, 56703), (525, 56757), (532, 56784), (536, 56805), (548, 56871),

Gene: Capablanca_214 Start: 115077, Stop: 118472, Start Num: 47

Candidate Starts for Capablanca_214:

(Start: 14 @114984 has 47 MA's), (Start: 15 @114990 has 6 MA's), (Start: 18 @115002 has 8 MA's), (22, 115011), (Start: 47 @115077 has 171 MA's), (59, 115152), (78, 115266), (85, 115290), (95, 115350), (113, 115461), (118, 115500), (125, 115524), (130, 115566), (148, 115665), (159, 115707), (161, 115713), (164, 115725), (173, 115788), (180, 115848), (181, 115851), (186, 115878), (195, 115920), (210, 115983), (236, 116139), (240, 116157), (243, 116172), (255, 116289), (260, 116328), (272, 116448), (278, 116490), (286, 116535), (288, 116544), (297, 116595), (306, 116637), (321, 116703), (322, 116712), (323, 116715), (324, 116721), (325, 116724), (326, 116733), (327, 116739), (328, 116754), (347, 116841), (367, 116946), (375, 117000), (384, 117087), (388, 117117), (393, 117147), (400, 117180), (402, 117189), (410, 117261), (414, 117291), (436, 117408), (443, 117453), (453, 117495), (479, 117639), (496, 117699), (518, 117801), (537, 117888), (538, 117891), (541, 117909), (547, 117945), (548, 117948), (568, 118008), (572, 118026), (591, 118122), (598, 118152), (602, 118170), (610, 118200), (635, 118293), (640, 118308), (656, 118389), (657, 118395), (661, 118407),

Gene: Caravan_200 Start: 113104, Stop: 116592, Start Num: 14

Candidate Starts for Caravan_200:

(Start: 14 @113104 has 47 MA's), (Start: 15 @113110 has 6 MA's), (Start: 18 @113122 has 8 MA's), (22, 113131), (Start: 47 @113197 has 171 MA's), (59, 113272), (78, 113386), (85, 113410), (95, 113470), (113, 113581), (118, 113620), (125, 113644), (130, 113686), (148, 113785), (159, 113827), (161, 113833), (164, 113845), (173, 113908), (180, 113968), (181, 113971), (186, 113998), (195, 114040), (210, 114103), (236, 114259), (240, 114277), (243, 114292), (255, 114409), (260, 114448), (272, 114568), (278, 114610), (286, 114655), (288, 114664), (297, 114715), (306, 114757), (321, 114823), (322, 114832), (323, 114835), (324, 114841), (325, 114844), (326, 114853), (327, 114859), (328, 114874), (347, 114961), (367, 115066), (375, 115120), (384, 115207), (388, 115237), (393, 115267), (400, 115300), (402, 115309), (410, 115381), (414, 115411), (436, 115528), (443, 115573), (453, 115615), (479, 115759), (496, 115819), (518, 115921), (537, 116008), (538, 116011), (541, 116029), (547, 116065), (548, 116068), (568, 116128), (572, 116146), (591, 116242), (598, 116272), (602, 116290), (610, 116320), (635, 116413), (640, 116428), (656, 116509), (657, 116515), (661, 116527),

Gene: Catera_201 Start: 111590, Stop: 114985, Start Num: 47

Candidate Starts for Catera_201:

(Start: 14 @111497 has 47 MA's), (Start: 15 @111503 has 6 MA's), (Start: 18 @111515 has 8 MA's), (22, 111524), (Start: 47 @111590 has 171 MA's), (59, 111665), (78, 111779), (85, 111803), (95, 111863), (113, 111974), (118, 112013), (125, 112037), (130, 112079), (148, 112178), (159, 112220), (161, 112226), (164, 112238), (173, 112301), (180, 112361), (181, 112364), (186, 112391), (195, 112433), (210, 112496), (230, 112616), (236, 112652), (240, 112670), (243, 112685), (255, 112802), (260, 112841), (272, 112961), (278, 113003), (286, 113048), (288, 113057), (297, 113108), (306, 113150), (321, 113216), (322, 113225), (323, 113228), (324, 113234), (325, 113237), (326, 113246), (327, 113252), (328, 113267), (347, 113354), (367, 113459), (375, 113513), (384, 113600), (388, 113630), (393, 113660), (400, 113693), (402, 113702), (410, 113774), (414, 113804), (436, 113921), (443, 113966), (453, 114008), (479, 114152), (496, 114212), (518, 114314), (537, 114401), (538, 114404), (541, 114422), (547, 114458), (548, 114461), (568, 114521), (572, 114539), (591, 114635), (598, 114665), (602, 114683), (610, 114713), (635, 114806), (640, 114821), (656, 114902), (657, 114908), (661, 114920),

Gene: CeilingFan_81 Start: 58332, Stop: 61652, Start Num: 48

Candidate Starts for CeilingFan_81:

(Start: 48 @58332 has 34 MA's), (57, 58383), (60, 58404), (Start: 65 @58428 has 1 MA's), (77, 58509), (109, 58707), (139, 58887), (146, 58935), (147, 58938), (159, 58992), (168, 59043), (169, 59061),

(172, 59070), (177, 59106), (198, 59214), (200, 59223), (242, 59433), (253, 59502), (272, 59667), (285, 59745), (304, 59814), (326, 59907), (347, 60030), (363, 60114), (378, 60177), (380, 60186), (410, 60390), (421, 60444), (423, 60453), (427, 60471), (429, 60477), (463, 60669), (469, 60693), (474, 60720), (499, 60828), (539, 61017), (555, 61095), (565, 61137), (569, 61155), (577, 61197), (587, 61236), (588, 61242), (594, 61269), (603, 61308), (616, 61356), (633, 61437), (640, 61458), (643, 61485), (644, 61488), (648, 61503), (653, 61536), (668, 61605),

Gene: Celeste_56 Start: 41488, Stop: 38009, Start Num: 47

Candidate Starts for Celeste_56:

(Start: 21 @41557 has 1 MA's), (Start: 47 @41488 has 171 MA's), (Start: 58 @41425 has 1 MA's), (59, 41416), (67, 41374), (81, 41281), (90, 41212), (102, 41143), (108, 41089), (122, 41017), (127, 40981), (138, 40921), (163, 40843), (184, 40696), (192, 40657), (199, 40630), (203, 40612), (208, 40591), (212, 40576), (233, 40456), (235, 40444), (261, 40258), (262, 40252), (269, 40207), (279, 40123), (281, 40105), (291, 40048), (292, 40045), (296, 40033), (326, 39895), (327, 39889), (328, 39874), (330, 39868), (336, 39835), (353, 39757), (359, 39724), (386, 39583), (390, 39562), (401, 39502), (402, 39496), (410, 39427), (420, 39364), (425, 39343), (433, 39298), (442, 39259), (454, 39202), (455, 39193), (474, 39085), (480, 39064), (483, 39043), (492, 39013), (499, 38986), (513, 38920), (515, 38911), (517, 38899), (534, 38812), (539, 38788), (570, 38644), (578, 38596), (596, 38512), (604, 38485), (638, 38347), (640, 38338), (643, 38311), (654, 38263), (656, 38257), (662, 38236), (663, 38230), (677, 38125), (681, 38086), (688, 38023),

Gene: Celia_53 Start: 38881, Stop: 35396, Start Num: 47

Candidate Starts for Celia_53:

(20, 38950), (24, 38941), (30, 38914), (Start: 47 @38881 has 171 MA's), (53, 38866), (55, 38854), (59, 38806), (62, 38794), (67, 38764), (75, 38713), (81, 38671), (84, 38638), (94, 38575), (115, 38440), (121, 38410), (122, 38407), (128, 38365), (138, 38311), (173, 38167), (184, 38086), (197, 38029), (199, 38020), (203, 38002), (208, 37981), (210, 37975), (220, 37924), (223, 37912), (233, 37846), (235, 37834), (241, 37807), (252, 37732), (261, 37648), (262, 37642), (281, 37495), (291, 37438), (292, 37435), (310, 37366), (314, 37357), (316, 37327), (317, 37324), (326, 37285), (327, 37279), (330, 37258), (336, 37225), (338, 37219), (353, 37147), (359, 37114), (362, 37102), (381, 37021), (386, 36973), (387, 36964), (396, 36919), (397, 36916), (401, 36892), (415, 36787), (420, 36754), (433, 36688), (454, 36592), (455, 36583), (474, 36475), (483, 36433), (492, 36403), (513, 36310), (515, 36301), (517, 36289), (518, 36286), (527, 36223), (531, 36217), (548, 36130), (553, 36109), (560, 36082), (573, 36004), (578, 35983), (589, 35935), (595, 35908), (629, 35764), (641, 35719), (664, 35602), (665, 35599), (677, 35512), (681, 35473), (682, 35467), (688, 35410), (689, 35401),

Gene: Chaewon_61 Start: 51856, Stop: 55143, Start Num: 48

Candidate Starts for Chaewon_61:

(Start: 48 @51856 has 34 MA's), (54, 51871), (55, 51877), (60, 51928), (Start: 65 @51952 has 1 MA's), (80, 52048), (109, 52231), (120, 52291), (136, 52381), (139, 52411), (144, 52453), (146, 52459), (159, 52516), (169, 52579), (177, 52624), (185, 52672), (242, 52951), (253, 53020), (269, 53152), (272, 53185), (286, 53272), (320, 53368), (327, 53407), (328, 53422), (346, 53518), (347, 53524), (353, 53557), (363, 53608), (370, 53641), (380, 53680), (385, 53725), (390, 53752), (401, 53815), (410, 53887), (421, 53941), (423, 53950), (427, 53968), (429, 53974), (454, 54100), (460, 54154), (463, 54166), (474, 54217), (496, 54298), (498, 54304), (528, 54457), (529, 54460), (540, 54511), (577, 54682), (579, 54685), (603, 54793), (606, 54802), (616, 54841), (636, 54931), (644, 54973), (648, 54988), (657, 55036), (673, 55114),

Gene: Chargie21_206 Start: 111889, Stop: 115284, Start Num: 47

Candidate Starts for Chargie21_206:

(Start: 14 @111796 has 47 MA's), (Start: 15 @111802 has 6 MA's), (Start: 18 @111814 has 8 MA's), (22, 111823), (Start: 47 @111889 has 171 MA's), (59, 111964), (78, 112078), (85, 112102), (95, 112162), (113, 112273), (118, 112312), (125, 112336), (130, 112378), (148, 112477), (159, 112519),

(161, 112525), (164, 112537), (173, 112600), (180, 112660), (181, 112663), (186, 112690), (195, 112732), (210, 112795), (230, 112915), (236, 112951), (240, 112969), (243, 112984), (255, 113101), (260, 113140), (272, 113260), (278, 113302), (286, 113347), (288, 113356), (297, 113407), (306, 113449), (321, 113515), (322, 113524), (323, 113527), (324, 113533), (325, 113536), (326, 113545), (327, 113551), (328, 113566), (347, 113653), (367, 113758), (375, 113812), (384, 113899), (388, 113929), (393, 113959), (400, 113992), (402, 114001), (410, 114073), (414, 114103), (436, 114220), (443, 114265), (453, 114307), (479, 114451), (496, 114511), (518, 114613), (537, 114700), (538, 114703), (541, 114721), (547, 114757), (548, 114760), (568, 114820), (572, 114838), (591, 114934), (598, 114964), (602, 114982), (610, 115012), (635, 115105), (640, 115120), (656, 115201), (657, 115207), (661, 115219),

Gene: CharlieB_203 Start: 112494, Stop: 116012, Start Num: 6

Candidate Starts for CharlieB_203:

(Start: 6 @112494 has 5 MA's), (Start: 14 @112524 has 47 MA's), (Start: 15 @112530 has 6 MA's), (Start: 18 @112542 has 8 MA's), (22, 112551), (Start: 47 @112617 has 171 MA's), (59, 112692), (78, 112806), (85, 112830), (95, 112890), (113, 113001), (118, 113040), (125, 113064), (130, 113106), (148, 113205), (159, 113247), (161, 113253), (164, 113265), (173, 113328), (180, 113388), (181, 113391), (186, 113418), (195, 113460), (210, 113523), (230, 113643), (236, 113679), (240, 113697), (243, 113712), (255, 113829), (260, 113868), (272, 113988), (278, 114030), (286, 114075), (288, 114084), (297, 114135), (306, 114177), (321, 114243), (322, 114252), (323, 114255), (324, 114261), (325, 114264), (326, 114273), (327, 114279), (328, 114294), (347, 114381), (367, 114486), (375, 114540), (384, 114627), (388, 114657), (393, 114687), (400, 114720), (402, 114729), (410, 114801), (414, 114831), (436, 114948), (443, 114993), (453, 115035), (479, 115179), (496, 115239), (518, 115341), (537, 115428), (538, 115431), (541, 115449), (547, 115485), (548, 115488), (568, 115548), (572, 115566), (591, 115662), (598, 115692), (602, 115710), (610, 115740), (635, 115833), (640, 115848), (656, 115929), (657, 115935), (661, 115947),

Gene: ChaylaJr_206 Start: 112317, Stop: 115712, Start Num: 47

Candidate Starts for ChaylaJr_206:

(Start: 14 @112224 has 47 MA's), (Start: 15 @112230 has 6 MA's), (Start: 18 @112242 has 8 MA's), (22, 112251), (Start: 47 @112317 has 171 MA's), (59, 112392), (78, 112506), (85, 112530), (95, 112590), (113, 112701), (118, 112740), (125, 112764), (130, 112806), (148, 112905), (159, 112947), (161, 112953), (164, 112965), (173, 113028), (180, 113088), (181, 113091), (186, 113118), (195, 113160), (210, 113223), (230, 113343), (236, 113379), (240, 113397), (243, 113412), (255, 113529), (260, 113568), (272, 113688), (278, 113730), (286, 113775), (288, 113784), (297, 113835), (306, 113877), (321, 113943), (322, 113952), (323, 113955), (324, 113961), (325, 113964), (326, 113973), (327, 113979), (328, 113994), (347, 114081), (367, 114186), (375, 114240), (384, 114327), (388, 114357), (393, 114387), (400, 114420), (402, 114429), (410, 114501), (414, 114531), (436, 114648), (443, 114693), (453, 114735), (479, 114879), (496, 114939), (518, 115041), (537, 115128), (538, 115131), (541, 115149), (547, 115185), (548, 115188), (568, 115248), (572, 115266), (591, 115362), (598, 115392), (602, 115410), (610, 115440), (635, 115533), (640, 115548), (656, 115629), (657, 115635), (661, 115647),

Gene: CherryTomatoes_154 Start: 105997, Stop: 109452, Start Num: 47

Candidate Starts for CherryTomatoes_154:

(Start: 47 @105997 has 171 MA's), (59, 106072), (95, 106270), (101, 106306), (112, 106378), (114, 106399), (136, 106519), (138, 106543), (141, 106567), (143, 106588), (148, 106615), (159, 106657), (169, 106726), (173, 106738), (180, 106795), (181, 106798), (186, 106825), (210, 106927), (243, 107116), (244, 107119), (246, 107152), (284, 107470), (286, 107485), (287, 107488), (328, 107695), (329, 107698), (330, 107701), (331, 107710), (335, 107728), (347, 107791), (349, 107800), (361, 107863), (376, 107953), (388, 108064), (408, 108202), (410, 108205), (420, 108256), (421, 108259), (438, 108346), (463, 108517), (515, 108739), (558, 108940), (584, 109054), (585, 109063), (591, 109087), (596, 109114), (598, 109117), (602, 109135), (610, 109165), (615, 109183), (623, 109213),

(624, 109216), (634, 109255), (635, 109258), (667, 109408),

Gene: ChickenPhender_205 Start: 112036, Stop: 115431, Start Num: 47

Candidate Starts for ChickenPhender_205:

(Start: 14 @111943 has 47 MA's), (Start: 15 @111949 has 6 MA's), (Start: 18 @111961 has 8 MA's), (22, 111970), (Start: 47 @112036 has 171 MA's), (59, 112111), (78, 112225), (85, 112249), (95, 112309), (113, 112420), (118, 112459), (125, 112483), (130, 112525), (148, 112624), (159, 112666), (161, 112672), (164, 112684), (173, 112747), (180, 112807), (181, 112810), (186, 112837), (195, 112879), (210, 112942), (230, 113062), (236, 113098), (240, 113116), (243, 113131), (255, 113248), (260, 113287), (272, 113407), (278, 113449), (286, 113494), (288, 113503), (297, 113554), (306, 113596), (321, 113662), (322, 113671), (323, 113674), (324, 113680), (325, 113683), (326, 113692), (327, 113698), (328, 113713), (347, 113800), (367, 113905), (375, 113959), (384, 114046), (388, 114076), (393, 114106), (400, 114139), (402, 114148), (410, 114220), (414, 114250), (436, 114367), (443, 114412), (453, 114454), (479, 114598), (496, 114658), (518, 114760), (537, 114847), (538, 114850), (541, 114868), (547, 114904), (548, 114907), (568, 114967), (572, 114985), (591, 115081), (598, 115111), (602, 115129), (610, 115159), (635, 115252), (640, 115267), (656, 115348), (657, 115354), (661, 115366),

Gene: Chidiebere_98 Start: 70671, Stop: 73499, Start Num: 33

Candidate Starts for Chidiebere_98:

(Start: 33 @70671 has 1 MA's), (Start: 37 @70683 has 1 MA's), (Start: 40 @70686 has 5 MA's), (59, 70779), (68, 70839), (93, 70989), (94, 70992), (96, 70998), (110, 71097), (114, 71127), (115, 71130), (126, 71193), (130, 71214), (131, 71217), (136, 71244), (161, 71361), (163, 71370), (170, 71427), (173, 71436), (182, 71502), (196, 71568), (233, 71733), (236, 71751), (239, 71766), (241, 71772), (243, 71784), (249, 71811), (250, 71814), (256, 71874), (257, 71883), (258, 71886), (260, 71898), (263, 71943), (271, 72012), (274, 72036), (300, 72192), (303, 72210), (308, 72234), (313, 72252), (330, 72348), (337, 72390), (339, 72396), (347, 72432), (349, 72441), (352, 72459), (353, 72465), (357, 72489), (358, 72495), (359, 72498), (363, 72516), (364, 72519), (383, 72612), (390, 72657), (391, 72663), (395, 72687), (396, 72690), (398, 72699), (399, 72705), (401, 72717), (418, 72834), (420, 72852), (421, 72855), (423, 72864), (446, 72978), (449, 72993), (474, 73140), (476, 73149), (478, 73152), (480, 73158), (497, 73224), (500, 73242), (503, 73254), (506, 73263), (525, 73377), (528, 73389), (532, 73404), (546, 73479), (547, 73488),

Gene: ChisanaKitsune_95 Start: 69630, Stop: 72443, Start Num: 40

Candidate Starts for ChisanaKitsune_95:

(Start: 33 @69615 has 1 MA's), (Start: 37 @69627 has 1 MA's), (Start: 40 @69630 has 5 MA's), (59, 69723), (68, 69783), (93, 69933), (94, 69936), (96, 69942), (110, 70041), (114, 70071), (115, 70074), (126, 70137), (130, 70158), (131, 70161), (136, 70188), (161, 70305), (163, 70314), (170, 70371), (173, 70380), (182, 70446), (196, 70512), (202, 70536), (233, 70677), (236, 70695), (239, 70710), (241, 70716), (243, 70728), (249, 70755), (250, 70758), (256, 70818), (257, 70827), (258, 70830), (260, 70842), (263, 70887), (271, 70956), (300, 71136), (303, 71154), (308, 71178), (313, 71196), (330, 71292), (337, 71334), (347, 71376), (349, 71385), (352, 71403), (353, 71409), (357, 71433), (358, 71439), (359, 71442), (363, 71460), (364, 71463), (383, 71556), (390, 71601), (391, 71607), (395, 71631), (396, 71634), (398, 71643), (399, 71649), (401, 71661), (418, 71778), (420, 71796), (421, 71799), (423, 71808), (449, 71937), (474, 72084), (476, 72093), (478, 72096), (480, 72102), (500, 72186), (503, 72198), (506, 72207), (526, 72324), (532, 72348),

Gene: Chomp_209 Start: 113666, Stop: 117061, Start Num: 47

Candidate Starts for Chomp_209:

(Start: 14 @113573 has 47 MA's), (Start: 15 @113579 has 6 MA's), (Start: 18 @113591 has 8 MA's), (22, 113600), (Start: 47 @113666 has 171 MA's), (59, 113741), (78, 113855), (85, 113879), (95, 113939), (113, 114050), (118, 114089), (125, 114113), (130, 114155), (148, 114254), (159, 114296), (161, 114302), (164, 114314), (173, 114377), (180, 114437), (181, 114440), (186, 114467), (195,

114509), (210, 114572), (230, 114692), (236, 114728), (240, 114746), (243, 114761), (255, 114878), (260, 114917), (272, 115037), (278, 115079), (286, 115124), (288, 115133), (297, 115184), (306, 115226), (321, 115292), (322, 115301), (323, 115304), (324, 115310), (325, 115313), (326, 115322), (327, 115328), (328, 115343), (347, 115430), (367, 115535), (375, 115589), (384, 115676), (388, 115706), (393, 115736), (400, 115769), (402, 115778), (410, 115850), (414, 115880), (436, 115997), (443, 116042), (453, 116084), (479, 116228), (496, 116288), (518, 116390), (537, 116477), (538, 116480), (541, 116498), (547, 116534), (548, 116537), (568, 116597), (572, 116615), (591, 116711), (598, 116741), (602, 116759), (610, 116789), (635, 116882), (640, 116897), (656, 116978), (657, 116984), (661, 116996),

Gene: Chucky_54 Start: 42494, Stop: 39009, Start Num: 47

Candidate Starts for Chucky_54:

(Start: 21 @42563 has 1 MA's), (Start: 47 @42494 has 171 MA's), (Start: 58 @42431 has 1 MA's), (59, 42422), (67, 42380), (81, 42287), (90, 42218), (102, 42149), (108, 42095), (122, 42023), (127, 41987), (138, 41927), (184, 41702), (192, 41663), (199, 41636), (203, 41618), (208, 41597), (212, 41582), (220, 41540), (233, 41462), (235, 41450), (261, 41264), (262, 41258), (269, 41213), (279, 41129), (281, 41111), (291, 41054), (292, 41051), (296, 41039), (326, 40901), (327, 40895), (328, 40880), (330, 40874), (336, 40841), (353, 40763), (359, 40730), (386, 40589), (401, 40508), (402, 40502), (410, 40433), (420, 40370), (425, 40349), (433, 40304), (454, 40208), (455, 40199), (457, 40193), (474, 40091), (475, 40082), (480, 40070), (483, 40049), (492, 40019), (499, 39992), (513, 39926), (515, 39917), (517, 39905), (534, 39818), (570, 39650), (578, 39602), (604, 39491), (606, 39485), (638, 39353), (640, 39344), (643, 39317), (663, 39236), (680, 39104), (681, 39092),

Gene: CindyLou_210 Start: 113926, Stop: 117321, Start Num: 47

Candidate Starts for CindyLou_210:

(Start: 14 @113833 has 47 MA's), (Start: 15 @113839 has 6 MA's), (Start: 18 @113851 has 8 MA's), (22, 113860), (Start: 47 @113926 has 171 MA's), (59, 114001), (78, 114115), (85, 114139), (95, 114199), (113, 114310), (118, 114349), (125, 114373), (130, 114415), (148, 114514), (159, 114556), (161, 114562), (164, 114574), (173, 114637), (180, 114697), (181, 114700), (186, 114727), (195, 114769), (210, 114832), (236, 114988), (240, 115006), (243, 115021), (255, 115138), (260, 115177), (272, 115297), (278, 115339), (286, 115384), (288, 115393), (297, 115444), (306, 115486), (321, 115552), (322, 115561), (323, 115564), (324, 115570), (325, 115573), (326, 115582), (327, 115588), (328, 115603), (347, 115690), (367, 115795), (375, 115849), (384, 115936), (388, 115966), (393, 115996), (400, 116029), (402, 116038), (410, 116110), (414, 116140), (436, 116257), (443, 116302), (453, 116344), (479, 116488), (496, 116548), (518, 116650), (537, 116737), (538, 116740), (541, 116758), (547, 116794), (548, 116797), (568, 116857), (572, 116875), (591, 116971), (598, 117001), (602, 117019), (610, 117049), (635, 117142), (640, 117157), (656, 117238), (657, 117244), (661, 117256),

Gene: Circinus_58 Start: 51862, Stop: 55149, Start Num: 49

Candidate Starts for Circinus_58:

(Start: 49 @51862 has 71 MA's), (55, 51883), (60, 51934), (Start: 65 @51958 has 1 MA's), (80, 52054), (109, 52237), (120, 52297), (136, 52387), (139, 52417), (142, 52450), (144, 52459), (146, 52465), (159, 52522), (169, 52585), (177, 52630), (185, 52678), (242, 52957), (253, 53026), (269, 53158), (272, 53191), (286, 53278), (320, 53374), (327, 53413), (328, 53428), (346, 53524), (347, 53530), (353, 53563), (362, 53608), (363, 53614), (369, 53644), (380, 53686), (385, 53731), (390, 53758), (401, 53821), (410, 53893), (421, 53947), (423, 53956), (427, 53974), (429, 53980), (454, 54106), (460, 54160), (463, 54172), (474, 54223), (496, 54304), (498, 54310), (529, 54466), (577, 54688), (579, 54691), (603, 54799), (606, 54808), (616, 54847), (636, 54937), (644, 54979), (648, 54994), (657, 55042), (673, 55120),

Gene: Cleatunium_202 Start: 112309, Stop: 115704, Start Num: 47

Candidate Starts for Cleatunium_202:

(Start: 14 @112216 has 47 MA's), (Start: 15 @112222 has 6 MA's), (Start: 18 @112234 has 8 MA's), (22, 112243), (Start: 47 @112309 has 171 MA's), (59, 112384), (78, 112498), (85, 112522), (95, 112582), (113, 112693), (118, 112732), (125, 112756), (130, 112798), (148, 112897), (159, 112939), (161, 112945), (164, 112957), (173, 113020), (180, 113080), (181, 113083), (186, 113110), (195, 113152), (210, 113215), (230, 113335), (236, 113371), (240, 113389), (243, 113404), (255, 113521), (260, 113560), (272, 113680), (278, 113722), (286, 113767), (288, 113776), (297, 113827), (306, 113869), (321, 113935), (322, 113944), (323, 113947), (324, 113953), (325, 113956), (326, 113965), (327, 113971), (328, 113986), (347, 114073), (367, 114178), (375, 114232), (384, 114319), (388, 114349), (393, 114379), (400, 114412), (402, 114421), (410, 114493), (414, 114523), (436, 114640), (443, 114685), (453, 114727), (479, 114871), (496, 114931), (518, 115033), (537, 115120), (538, 115123), (541, 115141), (547, 115177), (548, 115180), (568, 115240), (572, 115258), (591, 115354), (598, 115384), (602, 115402), (610, 115432), (635, 115525), (640, 115540), (656, 115621), (657, 115627), (661, 115639),

Gene: Colt_200 Start: 115739, Stop: 119134, Start Num: 47

Candidate Starts for Colt_200:

(Start: 14 @115646 has 47 MA's), (Start: 15 @115652 has 6 MA's), (Start: 18 @115664 has 8 MA's), (22, 115673), (Start: 47 @115739 has 171 MA's), (59, 115814), (78, 115928), (85, 115952), (95, 116012), (113, 116123), (118, 116162), (125, 116186), (130, 116228), (148, 116327), (159, 116369), (161, 116375), (164, 116387), (173, 116450), (180, 116510), (181, 116513), (186, 116540), (195, 116582), (210, 116645), (236, 116801), (240, 116819), (243, 116834), (255, 116951), (260, 116990), (272, 117110), (278, 117152), (286, 117197), (288, 117206), (297, 117257), (306, 117299), (321, 117365), (322, 117374), (323, 117377), (324, 117383), (325, 117386), (326, 117395), (327, 117401), (328, 117416), (347, 117503), (367, 117608), (375, 117662), (384, 117749), (388, 117779), (393, 117809), (400, 117842), (402, 117851), (410, 117923), (414, 117953), (436, 118070), (443, 118115), (453, 118157), (479, 118301), (496, 118361), (518, 118463), (537, 118550), (538, 118553), (541, 118571), (547, 118607), (548, 118610), (568, 118670), (572, 118688), (591, 118784), (598, 118814), (602, 118832), (610, 118862), (635, 118955), (640, 118970), (657, 119057), (661, 119069), (668, 119108),

Gene: Comrade_61 Start: 49851, Stop: 53141, Start Num: 49

Candidate Starts for Comrade_61:

(Start: 40 @49833 has 5 MA's), (Start: 49 @49851 has 71 MA's), (55, 49872), (57, 49902), (60, 49923), (64, 49941), (Start: 65 @49947 has 1 MA's), (92, 50115), (99, 50157), (109, 50226), (120, 50286), (138, 50400), (139, 50406), (159, 50511), (169, 50574), (171, 50580), (177, 50619), (216, 50808), (223, 50835), (241, 50937), (253, 51015), (281, 51243), (289, 51279), (320, 51363), (327, 51402), (345, 51507), (347, 51519), (353, 51552), (358, 51582), (359, 51585), (362, 51597), (363, 51603), (380, 51675), (388, 51741), (390, 51747), (401, 51810), (410, 51882), (421, 51936), (423, 51945), (427, 51963), (429, 51969), (453, 52083), (460, 52149), (463, 52161), (476, 52221), (478, 52224), (493, 52281), (495, 52287), (498, 52299), (508, 52335), (520, 52404), (561, 52602), (569, 52635), (576, 52671), (577, 52677), (582, 52689), (603, 52788), (606, 52797), (611, 52818), (618, 52848), (630, 52905), (644, 52968), (654, 53019), (657, 53031),

Gene: Concombres_214 Start: 115529, Stop: 118924, Start Num: 47

Candidate Starts for Concombres_214:

(Start: 14 @115436 has 47 MA's), (Start: 15 @115442 has 6 MA's), (Start: 18 @115454 has 8 MA's), (22, 115463), (Start: 47 @115529 has 171 MA's), (59, 115604), (78, 115718), (85, 115742), (95, 115802), (113, 115913), (118, 115952), (125, 115976), (130, 116018), (148, 116117), (159, 116159), (161, 116165), (164, 116177), (173, 116240), (180, 116300), (181, 116303), (186, 116330), (195, 116372), (210, 116435), (236, 116591), (240, 116609), (243, 116624), (255, 116741), (260, 116780), (272, 116900), (278, 116942), (286, 116987), (288, 116996), (297, 117047), (306, 117089), (321, 117155), (322, 117164), (323, 117167), (324, 117173), (325, 117176), (326, 117185), (327, 117191), (328, 117206), (347, 117293), (367, 117398), (375, 117452), (384, 117539), (388, 117569), (393,

117599), (400, 117632), (402, 117641), (410, 117713), (414, 117743), (436, 117860), (443, 117905), (453, 117947), (479, 118091), (496, 118151), (518, 118253), (537, 118340), (538, 118343), (541, 118361), (547, 118397), (548, 118400), (568, 118460), (572, 118478), (591, 118574), (598, 118604), (602, 118622), (610, 118652), (635, 118745), (640, 118760), (656, 118841), (657, 118847), (661, 118859),

Gene: Coogler_80 Start: 59188, Stop: 62472, Start Num: 49

Candidate Starts for Coogler_80:

(Start: 49 @59188 has 71 MA's), (56, 59233), (60, 59263), (64, 59281), (Start: 65 @59287 has 1 MA's), (109, 59566), (127, 59668), (139, 59746), (159, 59851), (169, 59914), (171, 59920), (177, 59959), (200, 60076), (219, 60160), (242, 60286), (249, 60316), (253, 60355), (254, 60364), (278, 60562), (327, 60742), (345, 60847), (346, 60853), (347, 60859), (363, 60943), (369, 60973), (380, 61015), (383, 61042), (387, 61075), (390, 61087), (401, 61150), (410, 61222), (421, 61276), (423, 61285), (425, 61294), (427, 61303), (429, 61309), (474, 61552), (493, 61621), (496, 61633), (519, 61738), (559, 61933), (567, 61966), (577, 62017), (587, 62056), (588, 62062), (603, 62128), (616, 62176), (625, 62212), (633, 62257), (636, 62266), (644, 62308), (652, 62353), (653, 62356), (657, 62371),

Gene: Cross_80 Start: 59163, Stop: 62447, Start Num: 49

Candidate Starts for Cross_80:

(Start: 49 @59163 has 71 MA's), (56, 59208), (60, 59238), (64, 59256), (Start: 65 @59262 has 1 MA's), (109, 59541), (127, 59643), (139, 59721), (159, 59826), (169, 59889), (171, 59895), (177, 59934), (200, 60051), (219, 60135), (242, 60261), (249, 60291), (253, 60330), (254, 60339), (278, 60537), (327, 60717), (345, 60822), (346, 60828), (347, 60834), (363, 60918), (369, 60948), (380, 60990), (383, 61017), (387, 61050), (390, 61062), (401, 61125), (410, 61197), (421, 61251), (423, 61260), (425, 61269), (427, 61278), (429, 61284), (474, 61527), (493, 61596), (496, 61608), (519, 61713), (559, 61908), (567, 61941), (577, 61992), (587, 62031), (588, 62037), (603, 62103), (616, 62151), (625, 62187), (633, 62232), (636, 62241), (644, 62283), (652, 62328), (653, 62331), (657, 62346),

Gene: Cursive_78 Start: 58688, Stop: 61972, Start Num: 49

Candidate Starts for Cursive_78:

(Start: 49 @58688 has 71 MA's), (56, 58733), (60, 58763), (64, 58781), (Start: 65 @58787 has 1 MA's), (109, 59066), (127, 59168), (139, 59246), (159, 59351), (169, 59414), (171, 59420), (177, 59459), (200, 59576), (219, 59660), (242, 59786), (249, 59816), (253, 59855), (254, 59864), (278, 60062), (327, 60242), (345, 60347), (346, 60353), (347, 60359), (363, 60443), (369, 60473), (380, 60515), (383, 60542), (387, 60575), (390, 60587), (401, 60650), (410, 60722), (421, 60776), (423, 60785), (425, 60794), (427, 60803), (429, 60809), (474, 61052), (493, 61121), (496, 61133), (519, 61238), (559, 61433), (567, 61466), (577, 61517), (587, 61556), (588, 61562), (603, 61628), (616, 61676), (625, 61712), (633, 61757), (636, 61766), (644, 61808), (652, 61853), (653, 61856), (657, 61871),

Gene: DTDevon_211 Start: 114322, Stop: 117810, Start Num: 14

Candidate Starts for DTDevon_211:

(Start: 14 @114322 has 47 MA's), (Start: 15 @114328 has 6 MA's), (Start: 18 @114340 has 8 MA's), (22, 114349), (Start: 47 @114415 has 171 MA's), (59, 114490), (78, 114604), (85, 114628), (95, 114688), (113, 114799), (118, 114838), (125, 114862), (130, 114904), (148, 115003), (159, 115045), (161, 115051), (164, 115063), (173, 115126), (180, 115186), (181, 115189), (186, 115216), (195, 115258), (210, 115321), (236, 115477), (240, 115495), (243, 115510), (255, 115627), (260, 115666), (272, 115786), (278, 115828), (286, 115873), (288, 115882), (297, 115933), (306, 115975), (321, 116041), (322, 116050), (323, 116053), (324, 116059), (325, 116062), (326, 116071), (327, 116077), (328, 116092), (347, 116179), (367, 116284), (375, 116338), (384, 116425), (388, 116455), (393, 116485), (400, 116518), (402, 116527), (410, 116599), (414, 116629), (436, 116746), (443, 116791), (453, 116833), (479, 116977), (496, 117037), (518, 117139), (537, 117226), (538, 117229), (541, 117247), (547, 117283), (548, 117286), (568, 117346), (572, 117364), (591, 117460), (598, 117490), (602, 117508), (610, 117538), (635, 117631), (640, 117646), (656, 117727), (657, 117733), (661,

117745),

Gene: Daffodil_214 Start: 113287, Stop: 116775, Start Num: 14

Candidate Starts for Daffodil_214:

(Start: 14 @113287 has 47 MA's), (Start: 15 @113293 has 6 MA's), (Start: 18 @113305 has 8 MA's), (22, 113314), (Start: 47 @113380 has 171 MA's), (59, 113455), (78, 113569), (85, 113593), (95, 113653), (113, 113764), (118, 113803), (125, 113827), (130, 113869), (148, 113968), (159, 114010), (161, 114016), (164, 114028), (173, 114091), (180, 114151), (181, 114154), (186, 114181), (195, 114223), (210, 114286), (230, 114406), (236, 114442), (240, 114460), (243, 114475), (255, 114592), (260, 114631), (272, 114751), (278, 114793), (286, 114838), (288, 114847), (297, 114898), (306, 114940), (321, 115006), (322, 115015), (323, 115018), (324, 115024), (325, 115027), (326, 115036), (327, 115042), (328, 115057), (347, 115144), (367, 115249), (375, 115303), (384, 115390), (388, 115420), (393, 115450), (400, 115483), (402, 115492), (410, 115564), (414, 115594), (436, 115711), (443, 115756), (453, 115798), (479, 115942), (496, 116002), (518, 116104), (537, 116191), (538, 116194), (541, 116212), (547, 116248), (548, 116251), (568, 116311), (572, 116329), (591, 116425), (598, 116455), (602, 116473), (610, 116503), (635, 116596), (640, 116611), (656, 116692), (657, 116698), (661, 116710),

Gene: DalanDe_85 Start: 69803, Stop: 72664, Start Num: 37

Candidate Starts for DalanDe_85:

(Start: 37 @69803 has 1 MA's), (59, 69899), (64, 69923), (68, 69962), (69, 69974), (71, 69980), (73, 69986), (81, 70037), (87, 70064), (110, 70223), (126, 70319), (129, 70334), (136, 70370), (137, 70376), (145, 70424), (151, 70442), (152, 70445), (162, 70487), (170, 70547), (173, 70556), (178, 70604), (Start: 187 @70646 has 1 MA's), (188, 70658), (207, 70733), (236, 70895), (242, 70925), (243, 70928), (255, 71003), (256, 71018), (264, 71093), (269, 71126), (273, 71177), (298, 71324), (302, 71348), (320, 71435), (324, 71456), (330, 71495), (337, 71537), (347, 71579), (349, 71588), (353, 71612), (357, 71636), (358, 71642), (359, 71645), (380, 71729), (390, 71804), (395, 71834), (399, 71852), (401, 71864), (416, 71972), (422, 72008), (426, 72026), (428, 72032), (449, 72140), (474, 72287), (476, 72296), (499, 72383), (503, 72401), (509, 72431), (510, 72434), (515, 72464), (521, 72491), (524, 72515), (532, 72551), (536, 72572), (549, 72641), (552, 72659),

Gene: Dandelion_217 Start: 116920, Stop: 120408, Start Num: 14

Candidate Starts for Dandelion_217:

(Start: 14 @116920 has 47 MA's), (Start: 15 @116926 has 6 MA's), (Start: 18 @116938 has 8 MA's), (22, 116947), (Start: 47 @117013 has 171 MA's), (59, 117088), (78, 117202), (85, 117226), (95, 117286), (113, 117397), (118, 117436), (125, 117460), (130, 117502), (132, 117508), (148, 117601), (159, 117643), (161, 117649), (164, 117661), (173, 117724), (180, 117784), (181, 117787), (186, 117814), (195, 117856), (210, 117919), (236, 118075), (240, 118093), (243, 118108), (255, 118225), (260, 118264), (272, 118384), (278, 118426), (286, 118471), (288, 118480), (297, 118531), (306, 118573), (321, 118639), (322, 118648), (323, 118651), (324, 118657), (325, 118660), (326, 118669), (327, 118675), (328, 118690), (347, 118777), (367, 118882), (375, 118936), (384, 119023), (388, 119053), (393, 119083), (400, 119116), (402, 119125), (410, 119197), (414, 119227), (436, 119344), (443, 119389), (453, 119431), (479, 119575), (496, 119635), (518, 119737), (537, 119824), (538, 119827), (541, 119845), (547, 119881), (548, 119884), (568, 119944), (572, 119962), (591, 120058), (598, 120088), (602, 120106), (610, 120136), (635, 120229), (640, 120244), (656, 120325), (657, 120331), (661, 120343),

Gene: Danzina_56 Start: 41718, Stop: 38236, Start Num: 47

Candidate Starts for Danzina_56:

(17, 41802), (39, 41733), (Start: 47 @41718 has 171 MA's), (59, 41643), (60, 41640), (Start: 65 @41616 has 1 MA's), (68, 41583), (79, 41526), (81, 41508), (90, 41439), (102, 41370), (108, 41316), (122, 41244), (127, 41208), (138, 41148), (163, 41070), (184, 40923), (192, 40884), (199, 40857), (203, 40839), (208, 40818), (212, 40803), (233, 40683), (235, 40671), (261, 40485), (262, 40479),

(269, 40434), (279, 40350), (281, 40332), (291, 40275), (292, 40272), (296, 40260), (326, 40122), (327, 40116), (328, 40101), (330, 40095), (336, 40062), (353, 39984), (359, 39951), (386, 39810), (390, 39789), (401, 39729), (402, 39723), (410, 39654), (420, 39591), (425, 39570), (433, 39525), (442, 39486), (454, 39429), (455, 39420), (474, 39312), (480, 39291), (483, 39270), (492, 39240), (499, 39213), (513, 39147), (515, 39138), (517, 39126), (534, 39039), (570, 38871), (578, 38823), (596, 38739), (604, 38712), (638, 38574), (640, 38565), (643, 38538), (654, 38490), (656, 38484), (662, 38463), (663, 38457), (677, 38352), (681, 38313), (688, 38250),

Gene: Darko_208 Start: 112614, Stop: 116009, Start Num: 47

Candidate Starts for Darko_208:

(Start: 14 @112521 has 47 MA's), (Start: 15 @112527 has 6 MA's), (Start: 18 @112539 has 8 MA's), (22, 112548), (Start: 47 @112614 has 171 MA's), (59, 112689), (78, 112803), (85, 112827), (95, 112887), (113, 112998), (118, 113037), (125, 113061), (130, 113103), (148, 113202), (159, 113244), (161, 113250), (164, 113262), (173, 113325), (180, 113385), (181, 113388), (186, 113415), (195, 113457), (210, 113520), (236, 113676), (240, 113694), (243, 113709), (255, 113826), (260, 113865), (272, 113985), (278, 114027), (286, 114072), (288, 114081), (297, 114132), (306, 114174), (321, 114240), (322, 114249), (323, 114252), (324, 114258), (325, 114261), (326, 114270), (327, 114276), (328, 114291), (347, 114378), (367, 114483), (375, 114537), (384, 114624), (388, 114654), (393, 114684), (400, 114717), (402, 114726), (410, 114798), (414, 114828), (436, 114945), (443, 114990), (453, 115032), (479, 115176), (496, 115236), (518, 115338), (537, 115425), (538, 115428), (541, 115446), (547, 115482), (548, 115485), (568, 115545), (572, 115563), (591, 115659), (598, 115689), (602, 115707), (610, 115737), (635, 115830), (640, 115845), (656, 115926), (657, 115932), (661, 115944),

Gene: Dattran_57 Start: 41879, Stop: 38400, Start Num: 47

Candidate Starts for Dattran_57:

(Start: 21 @41948 has 1 MA's), (Start: 47 @41879 has 171 MA's), (Start: 58 @41816 has 1 MA's), (59, 41807), (67, 41765), (81, 41672), (90, 41603), (102, 41534), (108, 41480), (122, 41408), (127, 41372), (138, 41312), (163, 41234), (184, 41087), (192, 41048), (199, 41021), (203, 41003), (208, 40982), (212, 40967), (233, 40847), (235, 40835), (261, 40649), (262, 40643), (269, 40598), (279, 40514), (281, 40496), (291, 40439), (292, 40436), (296, 40424), (326, 40286), (327, 40280), (328, 40265), (330, 40259), (336, 40226), (353, 40148), (359, 40115), (386, 39974), (401, 39893), (402, 39887), (410, 39818), (420, 39755), (425, 39734), (433, 39689), (442, 39650), (454, 39593), (455, 39584), (474, 39476), (480, 39455), (483, 39434), (492, 39404), (499, 39377), (513, 39311), (515, 39302), (517, 39290), (534, 39203), (539, 39179), (570, 39035), (578, 38987), (596, 38903), (604, 38876), (638, 38738), (640, 38729), (643, 38702), (654, 38654), (656, 38648), (662, 38627), (663, 38621), (677, 38516), (680, 38489), (681, 38477), (688, 38414),

Gene: Daubenski_81 Start: 58913, Stop: 62197, Start Num: 49

Candidate Starts for Daubenski_81:

(9, 58784), (28, 58856), (Start: 49 @58913 has 71 MA's), (56, 58958), (60, 58988), (Start: 65 @59012 has 1 MA's), (109, 59291), (127, 59393), (134, 59420), (139, 59471), (140, 59483), (159, 59576), (169, 59639), (171, 59645), (177, 59684), (185, 59732), (200, 59801), (216, 59873), (223, 59900), (242, 60011), (253, 60080), (277, 60284), (294, 60374), (316, 60419), (327, 60467), (328, 60482), (345, 60572), (346, 60578), (347, 60584), (363, 60668), (378, 60731), (380, 60740), (390, 60812), (401, 60875), (410, 60947), (421, 61001), (423, 61010), (425, 61019), (427, 61028), (429, 61034), (445, 61115), (474, 61277), (493, 61346), (496, 61358), (523, 61472), (559, 61658), (567, 61691), (569, 61700), (577, 61742), (588, 61787), (603, 61853), (616, 61901), (625, 61937), (633, 61982), (643, 62030), (644, 62033), (650, 62069), (653, 62081), (657, 62096),

Gene: Davielle_78 Start: 58001, Stop: 61285, Start Num: 49

Candidate Starts for Davielle_78:

(Start: 49 @58001 has 71 MA's), (56, 58046), (60, 58076), (64, 58094), (Start: 65 @58100 has 1 MA's), (75, 58166), (109, 58379), (111, 58385), (127, 58481), (139, 58559), (159, 58664), (169, 58727), (171, 58733), (177, 58772), (200, 58889), (223, 58988), (242, 59099), (249, 59129), (253, 59168), (285, 59411), (327, 59555), (328, 59570), (345, 59660), (346, 59666), (347, 59672), (351, 59696), (363, 59756), (372, 59804), (378, 59819), (380, 59828), (390, 59900), (401, 59963), (410, 60035), (421, 60089), (423, 60098), (425, 60107), (427, 60116), (429, 60122), (445, 60203), (460, 60302), (474, 60365), (493, 60434), (496, 60446), (535, 60632), (539, 60650), (559, 60746), (567, 60779), (577, 60830), (588, 60875), (603, 60941), (611, 60971), (616, 60989), (625, 61025), (633, 61070), (636, 61079), (642, 61100), (644, 61121), (653, 61169), (657, 61184),

Gene: DeejaClivia_197 Start: 111749, Stop: 115144, Start Num: 47

Candidate Starts for DeejaClivia_197:

(Start: 14 @111656 has 47 MA's), (Start: 15 @111662 has 6 MA's), (Start: 18 @111674 has 8 MA's), (22, 111683), (Start: 47 @111749 has 171 MA's), (59, 111824), (78, 111938), (85, 111962), (95, 112022), (113, 112133), (118, 112172), (125, 112196), (130, 112238), (148, 112337), (159, 112379), (161, 112385), (164, 112397), (173, 112460), (180, 112520), (181, 112523), (186, 112550), (195, 112592), (210, 112655), (230, 112775), (236, 112811), (240, 112829), (243, 112844), (255, 112961), (260, 113000), (272, 113120), (278, 113162), (286, 113207), (288, 113216), (297, 113267), (306, 113309), (321, 113375), (322, 113384), (323, 113387), (324, 113393), (325, 113396), (326, 113405), (327, 113411), (328, 113426), (347, 113513), (367, 113618), (375, 113672), (384, 113759), (388, 113789), (393, 113819), (400, 113852), (402, 113861), (410, 113933), (414, 113963), (436, 114080), (443, 114125), (453, 114167), (479, 114311), (496, 114371), (518, 114473), (537, 114560), (538, 114563), (541, 114581), (547, 114617), (548, 114620), (568, 114680), (572, 114698), (591, 114794), (598, 114824), (602, 114842), (610, 114872), (635, 114965), (640, 114980), (656, 115061), (657, 115067), (661, 115079),

Gene: Delilah_207 Start: 113498, Stop: 116893, Start Num: 47

Candidate Starts for Delilah_207:

(Start: 14 @113405 has 47 MA's), (Start: 15 @113411 has 6 MA's), (Start: 18 @113423 has 8 MA's), (22, 113432), (Start: 47 @113498 has 171 MA's), (59, 113573), (78, 113687), (85, 113711), (95, 113771), (113, 113882), (118, 113921), (125, 113945), (130, 113987), (148, 114086), (159, 114128), (161, 114134), (164, 114146), (173, 114209), (180, 114269), (181, 114272), (186, 114299), (195, 114341), (210, 114404), (230, 114524), (236, 114560), (240, 114578), (243, 114593), (255, 114710), (260, 114749), (272, 114869), (278, 114911), (286, 114956), (288, 114965), (297, 115016), (306, 115058), (321, 115124), (322, 115133), (323, 115136), (324, 115142), (325, 115145), (326, 115154), (327, 115160), (328, 115175), (347, 115262), (367, 115367), (375, 115421), (384, 115508), (388, 115538), (393, 115568), (400, 115601), (402, 115610), (410, 115682), (414, 115712), (436, 115829), (443, 115874), (453, 115916), (479, 116060), (496, 116120), (518, 116222), (537, 116309), (538, 116312), (541, 116330), (547, 116366), (548, 116369), (568, 116429), (572, 116447), (591, 116543), (598, 116573), (602, 116591), (610, 116621), (635, 116714), (640, 116729), (656, 116810), (657, 116816), (661, 116828),

Gene: DeluluLabubu_59 Start: 47961, Stop: 51251, Start Num: 49

Candidate Starts for DeluluLabubu_59:

(Start: 49 @47961 has 71 MA's), (54, 47976), (55, 47982), (60, 48033), (Start: 65 @48057 has 1 MA's), (97, 48246), (109, 48336), (120, 48396), (139, 48516), (159, 48621), (169, 48684), (171, 48690), (177, 48729), (232, 49002), (242, 49056), (249, 49086), (253, 49125), (259, 49173), (320, 49473), (327, 49512), (345, 49617), (346, 49623), (347, 49629), (353, 49662), (356, 49677), (359, 49695), (362, 49707), (363, 49713), (370, 49746), (378, 49776), (380, 49785), (388, 49851), (390, 49857), (391, 49866), (401, 49920), (410, 49992), (421, 50046), (423, 50055), (427, 50073), (429, 50079), (453, 50193), (460, 50259), (463, 50271), (476, 50331), (478, 50334), (495, 50397), (496, 50403), (498, 50409), (520, 50514), (529, 50565), (544, 50634), (559, 50703), (561, 50712), (576, 50781), (577, 50787), (582, 50799), (588, 50832), (589, 50835), (603, 50898), (606, 50907), (611, 50928), (614,

50940), (625, 50982), (644, 51078), (650, 51114), (652, 51123), (657, 51141), (675, 51237),

Gene: Delylah_211 Start: 113694, Stop: 117182, Start Num: 14

Candidate Starts for Delylah_211:

(Start: 14 @113694 has 47 MA's), (Start: 15 @113700 has 6 MA's), (Start: 18 @113712 has 8 MA's), (22, 113721), (Start: 47 @113787 has 171 MA's), (59, 113862), (78, 113976), (85, 114000), (95, 114060), (113, 114171), (118, 114210), (125, 114234), (130, 114276), (148, 114375), (159, 114417), (161, 114423), (164, 114435), (173, 114498), (180, 114558), (181, 114561), (186, 114588), (195, 114630), (210, 114693), (236, 114849), (240, 114867), (243, 114882), (255, 114999), (260, 115038), (272, 115158), (278, 115200), (286, 115245), (288, 115254), (297, 115305), (306, 115347), (321, 115413), (322, 115422), (323, 115425), (324, 115431), (325, 115434), (326, 115443), (327, 115449), (328, 115464), (347, 115551), (367, 115656), (375, 115710), (384, 115797), (388, 115827), (393, 115857), (400, 115890), (402, 115899), (410, 115971), (414, 116001), (436, 116118), (443, 116163), (453, 116205), (479, 116349), (496, 116409), (518, 116511), (537, 116598), (538, 116601), (541, 116619), (547, 116655), (548, 116658), (568, 116718), (572, 116736), (591, 116832), (598, 116862), (602, 116880), (610, 116910), (635, 117003), (640, 117018), (656, 117099), (657, 117105), (661, 117117),

Gene: Demodog_215 Start: 115539, Stop: 118934, Start Num: 47

Candidate Starts for Demodog_215:

(Start: 14 @115446 has 47 MA's), (Start: 15 @115452 has 6 MA's), (Start: 18 @115464 has 8 MA's), (22, 115473), (Start: 47 @115539 has 171 MA's), (59, 115614), (78, 115728), (85, 115752), (95, 115812), (113, 115923), (118, 115962), (125, 115986), (130, 116028), (148, 116127), (159, 116169), (161, 116175), (164, 116187), (173, 116250), (180, 116310), (181, 116313), (186, 116340), (195, 116382), (210, 116445), (236, 116601), (240, 116619), (243, 116634), (255, 116751), (260, 116790), (272, 116910), (278, 116952), (286, 116997), (288, 117006), (297, 117057), (306, 117099), (321, 117165), (322, 117174), (323, 117177), (324, 117183), (325, 117186), (326, 117195), (327, 117201), (328, 117216), (347, 117303), (367, 117408), (375, 117462), (384, 117549), (388, 117579), (393, 117609), (400, 117642), (402, 117651), (410, 117723), (414, 117753), (436, 117870), (443, 117915), (453, 117957), (479, 118101), (496, 118161), (518, 118263), (537, 118350), (538, 118353), (541, 118371), (547, 118407), (548, 118410), (568, 118470), (572, 118488), (591, 118584), (598, 118614), (602, 118632), (610, 118662), (635, 118755), (640, 118770), (656, 118851), (657, 118857), (661, 118869),

Gene: Derek_206 Start: 112850, Stop: 116338, Start Num: 14

Candidate Starts for Derek_206:

(Start: 14 @112850 has 47 MA's), (Start: 15 @112856 has 6 MA's), (Start: 18 @112868 has 8 MA's), (22, 112877), (Start: 47 @112943 has 171 MA's), (59, 113018), (78, 113132), (85, 113156), (95, 113216), (113, 113327), (118, 113366), (125, 113390), (130, 113432), (148, 113531), (159, 113573), (161, 113579), (164, 113591), (173, 113654), (180, 113714), (181, 113717), (186, 113744), (195, 113786), (210, 113849), (236, 114005), (240, 114023), (243, 114038), (255, 114155), (260, 114194), (272, 114314), (278, 114356), (286, 114401), (288, 114410), (297, 114461), (306, 114503), (321, 114569), (322, 114578), (323, 114581), (324, 114587), (325, 114590), (326, 114599), (327, 114605), (328, 114620), (347, 114707), (367, 114812), (375, 114866), (384, 114953), (388, 114983), (393, 115013), (400, 115046), (402, 115055), (410, 115127), (414, 115157), (436, 115274), (443, 115319), (453, 115361), (479, 115505), (496, 115565), (518, 115667), (537, 115754), (538, 115757), (541, 115775), (547, 115811), (548, 115814), (568, 115874), (572, 115892), (591, 115988), (598, 116018), (602, 116036), (610, 116066), (635, 116159), (640, 116174), (656, 116255), (657, 116261), (661, 116273),

Gene: Dessert_207 Start: 111868, Stop: 115338, Start Num: 18

Candidate Starts for Dessert_207:

(Start: 14 @111850 has 47 MA's), (Start: 15 @111856 has 6 MA's), (Start: 18 @111868 has 8 MA's), (22, 111877), (Start: 47 @111943 has 171 MA's), (59, 112018), (78, 112132), (85, 112156), (95, 112216), (113, 112327), (118, 112366), (125, 112390), (130, 112432), (148, 112531), (159, 112573), (161, 112579), (164, 112591), (173, 112654), (180, 112714), (181, 112717), (186, 112744), (195, 112786), (210, 112849), (230, 112969), (236, 113005), (240, 113023), (243, 113038), (255, 113155), (260, 113194), (272, 113314), (278, 113356), (286, 113401), (288, 113410), (297, 113461), (306, 113503), (321, 113569), (322, 113578), (323, 113581), (324, 113587), (325, 113590), (326, 113599), (327, 113605), (328, 113620), (347, 113707), (367, 113812), (375, 113866), (384, 113953), (388, 113983), (393, 114013), (400, 114046), (402, 114055), (410, 114127), (414, 114157), (436, 114274), (443, 114319), (453, 114361), (479, 114505), (496, 114565), (518, 114667), (537, 114754), (538, 114757), (541, 114775), (547, 114811), (548, 114814), (568, 114874), (572, 114892), (591, 114988), (598, 115018), (602, 115036), (610, 115066), (635, 115159), (640, 115174), (656, 115255), (657, 115261), (661, 115273),

Gene: Dietrick_198 Start: 111544, Stop: 115014, Start Num: 18

Candidate Starts for Dietrick_198:

(Start: 14 @111526 has 47 MA's), (Start: 15 @111532 has 6 MA's), (Start: 18 @111544 has 8 MA's), (22, 111553), (Start: 47 @111619 has 171 MA's), (59, 111694), (78, 111808), (85, 111832), (95, 111892), (113, 112003), (118, 112042), (125, 112066), (130, 112108), (148, 112207), (159, 112249), (161, 112255), (164, 112267), (173, 112330), (180, 112390), (181, 112393), (186, 112420), (195, 112462), (210, 112525), (230, 112645), (236, 112681), (240, 112699), (243, 112714), (255, 112831), (260, 112870), (272, 112990), (278, 113032), (286, 113077), (288, 113086), (297, 113137), (306, 113179), (321, 113245), (322, 113254), (323, 113257), (324, 113263), (325, 113266), (326, 113275), (327, 113281), (328, 113296), (347, 113383), (367, 113488), (375, 113542), (384, 113629), (388, 113659), (393, 113689), (400, 113722), (402, 113731), (410, 113803), (414, 113833), (436, 113950), (443, 113995), (453, 114037), (479, 114181), (496, 114241), (518, 114343), (537, 114430), (538, 114433), (541, 114451), (547, 114487), (548, 114490), (568, 114550), (572, 114568), (591, 114664), (598, 114694), (602, 114712), (610, 114742), (635, 114835), (640, 114850), (656, 114931), (657, 114937), (661, 114949),

Gene: DirtMonster_202 Start: 112859, Stop: 116254, Start Num: 47

Candidate Starts for DirtMonster_202:

(Start: 14 @112766 has 47 MA's), (Start: 15 @112772 has 6 MA's), (Start: 18 @112784 has 8 MA's), (22, 112793), (Start: 47 @112859 has 171 MA's), (59, 112934), (78, 113048), (85, 113072), (95, 113132), (113, 113243), (118, 113282), (125, 113306), (130, 113348), (148, 113447), (159, 113489), (161, 113495), (164, 113507), (173, 113570), (180, 113630), (181, 113633), (186, 113660), (195, 113702), (210, 113765), (236, 113921), (240, 113939), (243, 113954), (255, 114071), (260, 114110), (272, 114230), (278, 114272), (286, 114317), (288, 114326), (297, 114377), (306, 114419), (321, 114485), (322, 114494), (323, 114497), (324, 114503), (325, 114506), (326, 114515), (327, 114521), (328, 114536), (347, 114623), (367, 114728), (375, 114782), (384, 114869), (388, 114899), (393, 114929), (400, 114962), (402, 114971), (410, 115043), (414, 115073), (436, 115190), (443, 115235), (453, 115277), (479, 115421), (496, 115481), (518, 115583), (537, 115670), (538, 115673), (541, 115691), (547, 115727), (548, 115730), (568, 115790), (572, 115808), (591, 115904), (598, 115934), (602, 115952), (610, 115982), (635, 116075), (640, 116090), (656, 116171), (657, 116177), (661, 116189),

Gene: Domi_203 Start: 112970, Stop: 116365, Start Num: 47

Candidate Starts for Domi_203:

(Start: 14 @112877 has 47 MA's), (Start: 15 @112883 has 6 MA's), (Start: 18 @112895 has 8 MA's), (22, 112904), (Start: 47 @112970 has 171 MA's), (59, 113045), (78, 113159), (85, 113183), (95, 113243), (113, 113354), (118, 113393), (125, 113417), (130, 113459), (148, 113558), (159, 113600), (161, 113606), (164, 113618), (173, 113681), (180, 113741), (181, 113744), (186, 113771), (195, 113813), (210, 113876), (236, 114032), (240, 114050), (243, 114065), (255, 114182), (260, 114221),

(272, 114341), (278, 114383), (286, 114428), (288, 114437), (297, 114488), (306, 114530), (321, 114596), (322, 114605), (323, 114608), (324, 114614), (325, 114617), (326, 114626), (327, 114632), (328, 114647), (347, 114734), (367, 114839), (375, 114893), (384, 114980), (388, 115010), (393, 115040), (400, 115073), (402, 115082), (410, 115154), (414, 115184), (436, 115301), (443, 115346), (453, 115388), (479, 115532), (496, 115592), (518, 115694), (537, 115781), (538, 115784), (541, 115802), (547, 115838), (548, 115841), (568, 115901), (572, 115919), (591, 116015), (598, 116045), (602, 116063), (610, 116093), (635, 116186), (640, 116201), (656, 116282), (657, 116288), (661, 116300),

Gene: Dorin_77 Start: 60424, Stop: 64227, Start Num: 46

Candidate Starts for Dorin_77:

(Start: 46 @60424 has 2 MA's), (Start: 52 @60433 has 2 MA's), (64, 60523), (72, 60583), (80, 60625), (116, 60844), (118, 60859), (168, 61144), (172, 61171), (177, 61207), (198, 61315), (211, 61372), (221, 61417), (223, 61426), (237, 61513), (241, 61528), (243, 61540), (251, 61576), (255, 61618), (259, 61654), (281, 61840), (282, 61843), (305, 61930), (318, 61987), (335, 62086), (341, 62113), (359, 62209), (363, 62227), (371, 62269), (380, 62299), (390, 62371), (393, 62395), (419, 62539), (421, 62557), (427, 62584), (439, 62650), (445, 62671), (452, 62698), (454, 62716), (472, 62827), (473, 62833), (487, 62890), (504, 62968), (511, 63001), (528, 63103), (556, 63238), (564, 63274), (580, 63352), (585, 63382), (597, 63436), (600, 63445), (603, 63460), (627, 63562), (650, 63691), (654, 63706), (658, 63721), (659, 63727), (665, 63760), (675, 63814), (682, 63889), (685, 63916), (686, 63922), (687, 63928), (691, 63967), (692, 63979), (694, 64000), (700, 64069), (702, 64102), (706, 64126), (713, 64195),

Gene: DrPhinkDaddy_206 Start: 114158, Stop: 117553, Start Num: 47

Candidate Starts for DrPhinkDaddy_206:

(Start: 14 @114065 has 47 MA's), (Start: 15 @114071 has 6 MA's), (Start: 18 @114083 has 8 MA's), (22, 114092), (Start: 47 @114158 has 171 MA's), (59, 114233), (78, 114347), (85, 114371), (95, 114431), (113, 114542), (118, 114581), (125, 114605), (130, 114647), (148, 114746), (159, 114788), (161, 114794), (164, 114806), (173, 114869), (180, 114929), (181, 114932), (186, 114959), (195, 115001), (210, 115064), (230, 115184), (236, 115220), (240, 115238), (243, 115253), (255, 115370), (260, 115409), (272, 115529), (278, 115571), (286, 115616), (288, 115625), (297, 115676), (306, 115718), (321, 115784), (322, 115793), (323, 115796), (324, 115802), (325, 115805), (326, 115814), (327, 115820), (328, 115835), (347, 115922), (367, 116027), (375, 116081), (384, 116168), (388, 116198), (393, 116228), (400, 116261), (402, 116270), (410, 116342), (414, 116372), (436, 116489), (443, 116534), (453, 116576), (479, 116720), (496, 116780), (518, 116882), (537, 116969), (538, 116972), (541, 116990), (547, 117026), (548, 117029), (568, 117089), (572, 117107), (591, 117203), (598, 117233), (602, 117251), (610, 117281), (635, 117374), (640, 117389), (656, 117470), (657, 117476), (661, 117488),

Gene: Drazdys_207 Start: 112967, Stop: 116455, Start Num: 14

Candidate Starts for Drazdys_207:

(Start: 14 @112967 has 47 MA's), (Start: 15 @112973 has 6 MA's), (Start: 18 @112985 has 8 MA's), (22, 112994), (Start: 47 @113060 has 171 MA's), (59, 113135), (78, 113249), (85, 113273), (95, 113333), (113, 113444), (118, 113483), (125, 113507), (130, 113549), (148, 113648), (159, 113690), (161, 113696), (164, 113708), (173, 113771), (180, 113831), (181, 113834), (186, 113861), (195, 113903), (210, 113966), (236, 114122), (240, 114140), (243, 114155), (255, 114272), (260, 114311), (272, 114431), (278, 114473), (286, 114518), (288, 114527), (297, 114578), (306, 114620), (321, 114686), (322, 114695), (323, 114698), (324, 114704), (325, 114707), (326, 114716), (327, 114722), (328, 114737), (347, 114824), (367, 114929), (375, 114983), (384, 115070), (388, 115100), (393, 115130), (400, 115163), (402, 115172), (410, 115244), (414, 115274), (436, 115391), (443, 115436), (453, 115478), (479, 115622), (496, 115682), (518, 115784), (537, 115871), (538, 115874), (541, 115892), (547, 115928), (548, 115931), (568, 115991), (572, 116009), (591, 116105), (598, 116135), (602, 116153), (610, 116183), (635, 116276), (640, 116291), (656, 116372), (657, 116378), (661,

116390),

Gene: Duckfeet_203 Start: 112499, Stop: 115981, Start Num: 15

Candidate Starts for Duckfeet_203:

(Start: 6 @112463 has 5 MA's), (Start: 14 @112493 has 47 MA's), (Start: 15 @112499 has 6 MA's), (Start: 18 @112511 has 8 MA's), (22, 112520), (Start: 47 @112586 has 171 MA's), (59, 112661), (78, 112775), (85, 112799), (95, 112859), (113, 112970), (118, 113009), (125, 113033), (130, 113075), (148, 113174), (159, 113216), (161, 113222), (164, 113234), (173, 113297), (180, 113357), (181, 113360), (186, 113387), (195, 113429), (210, 113492), (230, 113612), (236, 113648), (240, 113666), (243, 113681), (255, 113798), (260, 113837), (272, 113957), (278, 113999), (286, 114044), (288, 114053), (297, 114104), (306, 114146), (321, 114212), (322, 114221), (323, 114224), (324, 114230), (325, 114233), (326, 114242), (327, 114248), (328, 114263), (347, 114350), (367, 114455), (375, 114509), (384, 114596), (388, 114626), (393, 114656), (400, 114689), (402, 114698), (410, 114770), (414, 114800), (436, 114917), (443, 114962), (453, 115004), (479, 115148), (496, 115208), (518, 115310), (537, 115397), (538, 115400), (541, 115418), (547, 115454), (548, 115457), (568, 115517), (572, 115535), (591, 115631), (598, 115661), (602, 115679), (610, 115709), (635, 115802), (640, 115817), (656, 115898), (657, 115904), (661, 115916),

Gene: Dwayne_54 Start: 42482, Stop: 38997, Start Num: 47

Candidate Starts for Dwayne_54:

(Start: 21 @42551 has 1 MA's), (Start: 47 @42482 has 171 MA's), (Start: 58 @42419 has 1 MA's), (59, 42410), (67, 42368), (81, 42275), (90, 42206), (102, 42137), (108, 42083), (122, 42011), (127, 41975), (138, 41915), (184, 41690), (192, 41651), (199, 41624), (203, 41606), (208, 41585), (212, 41570), (220, 41528), (233, 41450), (235, 41438), (261, 41252), (262, 41246), (269, 41201), (279, 41117), (281, 41099), (291, 41042), (292, 41039), (296, 41027), (326, 40889), (327, 40883), (328, 40868), (330, 40862), (336, 40829), (353, 40751), (359, 40718), (386, 40577), (401, 40496), (402, 40490), (410, 40421), (420, 40358), (425, 40337), (433, 40292), (454, 40196), (455, 40187), (457, 40181), (474, 40079), (475, 40070), (480, 40058), (483, 40037), (492, 40007), (499, 39980), (513, 39914), (515, 39905), (517, 39893), (534, 39806), (570, 39638), (578, 39590), (604, 39479), (638, 39341), (640, 39332), (643, 39305), (654, 39257), (663, 39224), (666, 39197), (680, 39092), (681, 39080),

Gene: E3_gp154 Start: 103974, Stop: 107150, Start Num: 47

Candidate Starts for E3_gp154:

(Start: 47 @103974 has 171 MA's), (53, 103989), (70, 104124), (76, 104154), (80, 104172), (87, 104196), (105, 104310), (107, 104334), (121, 104406), (123, 104412), (129, 104454), (136, 104493), (148, 104559), (151, 104568), (154, 104583), (170, 104673), (173, 104682), (181, 104751), (186, 104778), (199, 104835), (217, 104919), (230, 105000), (231, 105006), (247, 105090), (255, 105144), (260, 105183), (288, 105399), (292, 105429), (306, 105477), (315, 105513), (322, 105552), (323, 105555), (324, 105561), (328, 105594), (336, 105633), (347, 105672), (406, 106023), (408, 106041), (410, 106044), (463, 106344), (469, 106368), (489, 106440), (497, 106473), (507, 106515), (538, 106662), (549, 106716), (602, 106857), (619, 106920), (635, 106977),

Gene: EGole_81 Start: 60108, Stop: 63392, Start Num: 49

Candidate Starts for EGole_81:

(Start: 49 @60108 has 71 MA's), (56, 60153), (60, 60183), (64, 60201), (Start: 65 @60207 has 1 MA's), (109, 60486), (127, 60588), (139, 60666), (159, 60771), (169, 60834), (171, 60840), (177, 60879), (200, 60996), (219, 61080), (242, 61206), (249, 61236), (253, 61275), (327, 61662), (345, 61767), (346, 61773), (347, 61779), (351, 61803), (363, 61863), (369, 61893), (370, 61896), (380, 61935), (383, 61962), (387, 61995), (390, 62007), (401, 62070), (410, 62142), (421, 62196), (423, 62205), (425, 62214), (427, 62223), (429, 62229), (474, 62472), (493, 62541), (496, 62553), (500, 62574), (519, 62658), (559, 62853), (567, 62886), (577, 62937), (588, 62982), (603, 63048), (616, 63096), (625, 63132), (633, 63177), (636, 63186), (644, 63228), (652, 63273), (653, 63276), (657, 63291),

Gene: ET08_197 Start: 112528, Stop: 116046, Start Num: 6

Candidate Starts for ET08_197:

(Start: 6 @112528 has 5 MA's), (Start: 14 @112558 has 47 MA's), (Start: 15 @112564 has 6 MA's), (Start: 18 @112576 has 8 MA's), (22, 112585), (Start: 47 @112651 has 171 MA's), (59, 112726), (78, 112840), (85, 112864), (95, 112924), (113, 113035), (118, 113074), (125, 113098), (130, 113140), (148, 113239), (159, 113281), (161, 113287), (164, 113299), (173, 113362), (180, 113422), (181, 113425), (186, 113452), (195, 113494), (210, 113557), (230, 113677), (236, 113713), (240, 113731), (243, 113746), (255, 113863), (260, 113902), (272, 114022), (278, 114064), (286, 114109), (288, 114118), (297, 114169), (306, 114211), (321, 114277), (322, 114286), (323, 114289), (324, 114295), (325, 114298), (326, 114307), (327, 114313), (328, 114328), (347, 114415), (367, 114520), (375, 114574), (384, 114661), (388, 114691), (393, 114721), (400, 114754), (402, 114763), (410, 114835), (414, 114865), (436, 114982), (443, 115027), (453, 115069), (479, 115213), (496, 115273), (518, 115375), (537, 115462), (538, 115465), (541, 115483), (547, 115519), (548, 115522), (568, 115582), (572, 115600), (591, 115696), (598, 115726), (602, 115744), (610, 115774), (635, 115867), (640, 115882), (656, 115963), (657, 115969), (661, 115981),

Gene: EasyJones_212 Start: 113039, Stop: 116527, Start Num: 14

Candidate Starts for EasyJones_212:

(Start: 14 @113039 has 47 MA's), (Start: 15 @113045 has 6 MA's), (Start: 18 @113057 has 8 MA's), (22, 113066), (Start: 47 @113132 has 171 MA's), (59, 113207), (78, 113321), (85, 113345), (95, 113405), (113, 113516), (118, 113555), (125, 113579), (130, 113621), (148, 113720), (159, 113762), (161, 113768), (164, 113780), (173, 113843), (180, 113903), (181, 113906), (186, 113933), (195, 113975), (210, 114038), (236, 114194), (240, 114212), (243, 114227), (255, 114344), (260, 114383), (272, 114503), (278, 114545), (286, 114590), (288, 114599), (297, 114650), (306, 114692), (321, 114758), (322, 114767), (323, 114770), (324, 114776), (325, 114779), (326, 114788), (327, 114794), (328, 114809), (347, 114896), (367, 115001), (375, 115055), (384, 115142), (388, 115172), (393, 115202), (400, 115235), (402, 115244), (410, 115316), (414, 115346), (436, 115463), (443, 115508), (453, 115550), (479, 115694), (496, 115754), (518, 115856), (537, 115943), (538, 115946), (541, 115964), (547, 116000), (548, 116003), (568, 116063), (572, 116081), (591, 116177), (598, 116207), (602, 116225), (610, 116255), (635, 116348), (640, 116363), (656, 116444), (657, 116450), (661, 116462),

Gene: Eddasa_55 Start: 40726, Stop: 37247, Start Num: 47

Candidate Starts for Eddasa_55:

(Start: 47 @40726 has 171 MA's), (53, 40714), (59, 40654), (60, 40651), (Start: 65 @40627 has 1 MA's), (90, 40450), (94, 40423), (96, 40417), (108, 40327), (112, 40312), (121, 40258), (122, 40255), (138, 40159), (163, 40081), (184, 39934), (192, 39895), (203, 39850), (208, 39829), (212, 39814), (220, 39772), (223, 39760), (233, 39694), (235, 39682), (247, 39619), (262, 39490), (263, 39481), (269, 39445), (279, 39361), (281, 39343), (291, 39286), (292, 39283), (296, 39271), (326, 39133), (327, 39127), (328, 39112), (330, 39106), (338, 39067), (353, 38995), (359, 38962), (383, 38845), (386, 38821), (397, 38764), (401, 38740), (402, 38734), (410, 38665), (420, 38602), (433, 38536), (437, 38515), (442, 38497), (454, 38440), (455, 38431), (474, 38323), (475, 38314), (480, 38302), (483, 38281), (492, 38251), (499, 38224), (513, 38158), (515, 38149), (517, 38137), (534, 38050), (539, 38026), (548, 37978), (578, 37834), (595, 37759), (638, 37585), (643, 37549), (654, 37501), (663, 37468),

Gene: EggyFarm_218 Start: 115912, Stop: 119382, Start Num: 18

Candidate Starts for EggyFarm_218:

(4, 115819), (Start: 14 @115894 has 47 MA's), (Start: 15 @115900 has 6 MA's), (Start: 18 @115912 has 8 MA's), (22, 115921), (Start: 47 @115987 has 171 MA's), (59, 116062), (78, 116176), (85, 116200), (95, 116260), (113, 116371), (118, 116410), (125, 116434), (130, 116476), (148, 116575), (159, 116617), (161, 116623), (164, 116635), (173, 116698), (180, 116758), (181, 116761), (186, 116788), (195, 116830), (210, 116893), (236, 117049), (240, 117067), (243, 117082), (255, 117199),

(260, 117238), (272, 117358), (278, 117400), (286, 117445), (288, 117454), (297, 117505), (306, 117547), (321, 117613), (322, 117622), (323, 117625), (324, 117631), (325, 117634), (326, 117643), (327, 117649), (328, 117664), (347, 117751), (367, 117856), (375, 117910), (384, 117997), (388, 118027), (393, 118057), (400, 118090), (402, 118099), (410, 118171), (414, 118201), (436, 118318), (443, 118363), (453, 118405), (479, 118549), (496, 118609), (518, 118711), (537, 118798), (538, 118801), (541, 118819), (547, 118855), (548, 118858), (568, 118918), (572, 118936), (591, 119032), (598, 119062), (602, 119080), (610, 119110), (635, 119203), (640, 119218), (656, 119299), (657, 119305), (661, 119317),

Gene: Ejemplo_52 Start: 42420, Stop: 38935, Start Num: 47

Candidate Starts for Ejemplo_52:

(Start: 21 @42489 has 1 MA's), (Start: 47 @42420 has 171 MA's), (Start: 58 @42357 has 1 MA's), (59, 42348), (67, 42306), (81, 42213), (90, 42144), (102, 42075), (108, 42021), (122, 41949), (127, 41913), (138, 41853), (184, 41628), (192, 41589), (199, 41562), (203, 41544), (208, 41523), (212, 41508), (220, 41466), (233, 41388), (235, 41376), (261, 41190), (262, 41184), (269, 41139), (279, 41055), (281, 41037), (291, 40980), (292, 40977), (296, 40965), (326, 40827), (327, 40821), (328, 40806), (330, 40800), (336, 40767), (353, 40689), (359, 40656), (386, 40515), (401, 40434), (402, 40428), (410, 40359), (420, 40296), (425, 40275), (433, 40230), (454, 40134), (455, 40125), (457, 40119), (474, 40017), (475, 40008), (480, 39996), (483, 39975), (492, 39945), (499, 39918), (513, 39852), (515, 39843), (517, 39831), (534, 39744), (570, 39576), (578, 39528), (604, 39417), (638, 39279), (640, 39270), (643, 39243), (654, 39195), (663, 39162), (666, 39135), (680, 39030), (681, 39018),

Gene: Eliot67_77 Start: 57859, Stop: 61143, Start Num: 49

Candidate Starts for Eliot67_77:

(Start: 49 @57859 has 71 MA's), (56, 57904), (60, 57934), (64, 57952), (Start: 65 @57958 has 1 MA's), (75, 58024), (109, 58237), (111, 58243), (127, 58339), (139, 58417), (159, 58522), (169, 58585), (171, 58591), (177, 58630), (200, 58747), (223, 58846), (242, 58957), (249, 58987), (253, 59026), (285, 59269), (327, 59413), (328, 59428), (346, 59524), (347, 59530), (351, 59554), (363, 59614), (378, 59677), (380, 59686), (390, 59758), (401, 59821), (410, 59893), (421, 59947), (423, 59956), (425, 59965), (427, 59974), (429, 59980), (445, 60061), (460, 60160), (474, 60223), (493, 60292), (496, 60304), (535, 60490), (539, 60508), (559, 60604), (567, 60637), (577, 60688), (587, 60727), (588, 60733), (603, 60799), (611, 60829), (616, 60847), (625, 60883), (633, 60928), (636, 60937), (642, 60958), (644, 60979), (653, 61027), (657, 61042),

Gene: Elmer_84 Start: 59515, Stop: 62835, Start Num: 48

Candidate Starts for Elmer_84:

(35, 59485), (Start: 48 @59515 has 34 MA's), (57, 59566), (60, 59587), (Start: 65 @59611 has 1 MA's), (77, 59692), (109, 59890), (139, 60070), (146, 60118), (159, 60175), (168, 60226), (169, 60244), (172, 60253), (177, 60289), (200, 60406), (216, 60478), (242, 60616), (253, 60685), (272, 60850), (285, 60928), (326, 61090), (330, 61117), (347, 61213), (351, 61237), (363, 61297), (380, 61369), (410, 61573), (421, 61627), (423, 61636), (427, 61654), (429, 61660), (461, 61843), (463, 61852), (469, 61876), (474, 61903), (539, 62200), (555, 62278), (565, 62320), (577, 62380), (587, 62419), (588, 62425), (594, 62452), (603, 62491), (616, 62539), (617, 62548), (633, 62620), (643, 62668), (644, 62671), (652, 62716), (653, 62719), (665, 62773), (668, 62788),

Gene: EmToTheThree_209 Start: 113531, Stop: 116926, Start Num: 47

Candidate Starts for EmToTheThree_209:

(Start: 14 @113438 has 47 MA's), (Start: 15 @113444 has 6 MA's), (Start: 18 @113456 has 8 MA's), (22, 113465), (Start: 47 @113531 has 171 MA's), (59, 113606), (78, 113720), (85, 113744), (95, 113804), (113, 113915), (118, 113954), (125, 113978), (130, 114020), (148, 114119), (159, 114161), (161, 114167), (164, 114179), (173, 114242), (180, 114302), (181, 114305), (186, 114332), (195, 114374), (210, 114437), (230, 114557), (236, 114593), (240, 114611), (243, 114626), (255, 114743), (260, 114782), (272, 114902), (278, 114944), (286, 114989), (288, 114998), (297, 115049), (306,

115091), (321, 115157), (322, 115166), (323, 115169), (324, 115175), (325, 115178), (326, 115187), (327, 115193), (328, 115208), (347, 115295), (367, 115400), (375, 115454), (384, 115541), (388, 115571), (393, 115601), (400, 115634), (402, 115643), (410, 115715), (414, 115745), (436, 115862), (443, 115907), (453, 115949), (479, 116093), (496, 116153), (518, 116255), (537, 116342), (538, 116345), (541, 116363), (547, 116399), (548, 116402), (568, 116462), (572, 116480), (591, 116576), (598, 116606), (602, 116624), (610, 116654), (635, 116747), (640, 116762), (656, 116843), (657, 116849), (661, 116861),

Gene: Emaanora_57 Start: 42405, Stop: 38920, Start Num: 47

Candidate Starts for Emaanora_57:

(Start: 21 @42474 has 1 MA's), (Start: 47 @42405 has 171 MA's), (Start: 58 @42342 has 1 MA's), (59, 42333), (67, 42291), (81, 42198), (90, 42129), (102, 42060), (108, 42006), (122, 41934), (127, 41898), (138, 41838), (184, 41613), (192, 41574), (199, 41547), (203, 41529), (208, 41508), (212, 41493), (220, 41451), (233, 41373), (235, 41361), (261, 41175), (262, 41169), (269, 41124), (279, 41040), (281, 41022), (291, 40965), (292, 40962), (296, 40950), (326, 40812), (327, 40806), (328, 40791), (330, 40785), (336, 40752), (353, 40674), (359, 40641), (386, 40500), (401, 40419), (402, 40413), (410, 40344), (420, 40281), (425, 40260), (433, 40215), (454, 40119), (455, 40110), (457, 40104), (474, 40002), (475, 39993), (480, 39981), (483, 39960), (492, 39930), (499, 39903), (513, 39837), (515, 39828), (517, 39816), (534, 39729), (570, 39561), (578, 39513), (604, 39402), (606, 39396), (638, 39264), (640, 39255), (643, 39228), (663, 39147), (680, 39015), (681, 39003),

Gene: Emma1919_62 Start: 48644, Stop: 51934, Start Num: 49

Candidate Starts for Emma1919_62:

(Start: 49 @48644 has 71 MA's), (54, 48659), (55, 48665), (60, 48716), (Start: 65 @48740 has 1 MA's), (97, 48929), (109, 49019), (120, 49079), (139, 49199), (159, 49304), (169, 49367), (171, 49373), (177, 49412), (232, 49685), (242, 49739), (249, 49769), (253, 49808), (259, 49856), (320, 50156), (327, 50195), (345, 50300), (346, 50306), (347, 50312), (353, 50345), (356, 50360), (359, 50378), (362, 50390), (363, 50396), (370, 50429), (378, 50459), (380, 50468), (388, 50534), (390, 50540), (391, 50549), (401, 50603), (410, 50675), (421, 50729), (423, 50738), (427, 50756), (429, 50762), (453, 50876), (460, 50942), (463, 50954), (476, 51014), (478, 51017), (495, 51080), (496, 51086), (498, 51092), (520, 51197), (529, 51248), (544, 51317), (559, 51386), (561, 51395), (576, 51464), (577, 51470), (582, 51482), (588, 51515), (589, 51518), (603, 51581), (606, 51590), (611, 51611), (614, 51623), (625, 51665), (644, 51761), (650, 51797), (652, 51806), (657, 51824), (675, 51920),

Gene: EmmaElysia_212 Start: 113550, Stop: 116945, Start Num: 47

Candidate Starts for EmmaElysia_212:

(Start: 14 @113457 has 47 MA's), (Start: 15 @113463 has 6 MA's), (Start: 18 @113475 has 8 MA's), (22, 113484), (Start: 47 @113550 has 171 MA's), (59, 113625), (78, 113739), (85, 113763), (95, 113823), (113, 113934), (118, 113973), (125, 113997), (130, 114039), (148, 114138), (159, 114180), (161, 114186), (164, 114198), (173, 114261), (180, 114321), (181, 114324), (186, 114351), (195, 114393), (210, 114456), (230, 114576), (236, 114612), (240, 114630), (243, 114645), (255, 114762), (260, 114801), (272, 114921), (278, 114963), (286, 115008), (288, 115017), (297, 115068), (306, 115110), (321, 115176), (322, 115185), (323, 115188), (324, 115194), (325, 115197), (326, 115206), (327, 115212), (328, 115227), (347, 115314), (367, 115419), (375, 115473), (384, 115560), (388, 115590), (393, 115620), (400, 115653), (402, 115662), (410, 115734), (414, 115764), (436, 115881), (443, 115926), (453, 115968), (479, 116112), (496, 116172), (518, 116274), (537, 116361), (538, 116364), (541, 116382), (547, 116418), (548, 116421), (568, 116481), (572, 116499), (591, 116595), (598, 116625), (602, 116643), (610, 116673), (635, 116766), (640, 116781), (656, 116862), (657, 116868), (661, 116880),

Gene: EmoNemo_92 Start: 70036, Stop: 72849, Start Num: 40

Candidate Starts for EmoNemo_92:

(Start: 33 @70021 has 1 MA's), (Start: 37 @70033 has 1 MA's), (Start: 40 @70036 has 5 MA's), (59, 70129), (68, 70189), (93, 70339), (94, 70342), (96, 70348), (110, 70447), (114, 70477), (115, 70480), (126, 70543), (130, 70564), (131, 70567), (136, 70594), (161, 70711), (163, 70720), (170, 70777), (173, 70786), (182, 70852), (196, 70918), (233, 71083), (236, 71101), (239, 71116), (241, 71122), (243, 71134), (249, 71161), (250, 71164), (256, 71224), (257, 71233), (258, 71236), (260, 71248), (263, 71293), (271, 71362), (274, 71386), (300, 71542), (303, 71560), (308, 71584), (313, 71602), (330, 71698), (337, 71740), (339, 71746), (347, 71782), (349, 71791), (352, 71809), (353, 71815), (357, 71839), (358, 71845), (359, 71848), (363, 71866), (364, 71869), (383, 71962), (390, 72007), (391, 72013), (395, 72037), (396, 72040), (398, 72049), (399, 72055), (401, 72067), (418, 72184), (420, 72202), (421, 72205), (423, 72214), (446, 72328), (449, 72343), (474, 72490), (478, 72502), (480, 72508), (489, 72541), (497, 72574), (500, 72592), (503, 72604), (506, 72613), (525, 72727), (528, 72739), (532, 72754), (546, 72829), (547, 72838),

Gene: EnochSoames_57 Start: 40522, Stop: 37043, Start Num: 47

Candidate Starts for EnochSoames_57:

(Start: 21 @40591 has 1 MA's), (Start: 47 @40522 has 171 MA's), (59, 40450), (Start: 65 @40423 has 1 MA's), (67, 40408), (90, 40246), (94, 40219), (96, 40213), (108, 40123), (112, 40108), (121, 40054), (122, 40051), (138, 39955), (163, 39877), (184, 39730), (192, 39691), (203, 39646), (208, 39625), (212, 39610), (220, 39568), (223, 39556), (233, 39490), (235, 39478), (247, 39415), (262, 39286), (263, 39277), (269, 39241), (279, 39157), (281, 39139), (291, 39082), (292, 39079), (296, 39067), (326, 38929), (327, 38923), (328, 38908), (330, 38902), (342, 38845), (353, 38791), (359, 38758), (386, 38617), (397, 38560), (401, 38536), (402, 38530), (410, 38461), (420, 38398), (433, 38332), (437, 38311), (442, 38293), (454, 38236), (455, 38227), (474, 38119), (475, 38110), (480, 38098), (483, 38077), (492, 38047), (499, 38020), (513, 37954), (515, 37945), (517, 37933), (534, 37846), (539, 37822), (548, 37774), (578, 37630), (595, 37555), (638, 37381), (643, 37345), (654, 37297), (663, 37264),

Gene: Enygma_82 Start: 60218, Stop: 63538, Start Num: 48

Candidate Starts for Enygma_82:

(Start: 48 @60218 has 34 MA's), (60, 60290), (Start: 65 @60314 has 1 MA's), (109, 60593), (139, 60773), (146, 60821), (159, 60878), (168, 60929), (169, 60947), (172, 60956), (177, 60992), (200, 61109), (242, 61319), (253, 61388), (272, 61553), (285, 61631), (326, 61793), (347, 61916), (357, 61973), (363, 62000), (380, 62072), (410, 62276), (421, 62330), (423, 62339), (427, 62357), (429, 62363), (453, 62477), (463, 62555), (469, 62579), (474, 62606), (499, 62714), (539, 62903), (555, 62981), (565, 63023), (569, 63041), (577, 63083), (588, 63128), (594, 63155), (603, 63194), (616, 63242), (617, 63251), (633, 63323), (637, 63335), (640, 63344), (643, 63371), (644, 63374), (652, 63419), (653, 63422), (665, 63476), (668, 63491),

Gene: Erdmann_210 Start: 113397, Stop: 116885, Start Num: 14

Candidate Starts for Erdmann_210:

(Start: 14 @113397 has 47 MA's), (Start: 15 @113403 has 6 MA's), (Start: 18 @113415 has 8 MA's), (22, 113424), (Start: 47 @113490 has 171 MA's), (59, 113565), (78, 113679), (85, 113703), (95, 113763), (113, 113874), (118, 113913), (125, 113937), (130, 113979), (148, 114078), (159, 114120), (161, 114126), (164, 114138), (173, 114201), (180, 114261), (181, 114264), (186, 114291), (195, 114333), (210, 114396), (236, 114552), (240, 114570), (243, 114585), (255, 114702), (260, 114741), (272, 114861), (278, 114903), (286, 114948), (288, 114957), (297, 115008), (306, 115050), (321, 115116), (322, 115125), (323, 115128), (324, 115134), (325, 115137), (326, 115146), (327, 115152), (328, 115167), (347, 115254), (367, 115359), (375, 115413), (384, 115500), (388, 115530), (393, 115560), (400, 115593), (402, 115602), (410, 115674), (414, 115704), (436, 115821), (443, 115866), (453, 115908), (479, 116052), (496, 116112), (518, 116214), (537, 116301), (538, 116304), (541, 116322), (547, 116358), (548, 116361), (568, 116421), (572, 116439), (591, 116535), (598, 116565), (602, 116583), (610, 116613), (635, 116706), (640, 116721), (656, 116802), (657, 116808), (661, 116820),

Gene: ErnieJ_202 Start: 111218, Stop: 114706, Start Num: 14

Candidate Starts for ErnieJ_202:

(Start: 14 @111218 has 47 MA's), (Start: 15 @111224 has 6 MA's), (Start: 18 @111236 has 8 MA's), (22, 111245), (Start: 47 @111311 has 171 MA's), (59, 111386), (78, 111500), (85, 111524), (95, 111584), (113, 111695), (118, 111734), (125, 111758), (130, 111800), (148, 111899), (159, 111941), (161, 111947), (164, 111959), (173, 112022), (180, 112082), (181, 112085), (186, 112112), (195, 112154), (210, 112217), (230, 112337), (236, 112373), (240, 112391), (243, 112406), (255, 112523), (260, 112562), (272, 112682), (278, 112724), (286, 112769), (288, 112778), (297, 112829), (306, 112871), (321, 112937), (322, 112946), (323, 112949), (324, 112955), (325, 112958), (326, 112967), (327, 112973), (328, 112988), (347, 113075), (367, 113180), (375, 113234), (384, 113321), (388, 113351), (393, 113381), (400, 113414), (402, 113423), (410, 113495), (414, 113525), (436, 113642), (443, 113687), (453, 113729), (479, 113873), (496, 113933), (518, 114035), (537, 114122), (538, 114125), (541, 114143), (547, 114179), (548, 114182), (568, 114242), (572, 114260), (591, 114356), (598, 114386), (602, 114404), (610, 114434), (635, 114527), (640, 114542), (656, 114623), (657, 114629), (661, 114641),

Gene: Esperer_53 Start: 40052, Stop: 36573, Start Num: 47

Candidate Starts for Esperer_53:

(1, 40313), (Start: 47 @40052 has 171 MA's), (59, 39980), (Start: 65 @39953 has 1 MA's), (67, 39938), (90, 39776), (94, 39749), (96, 39743), (108, 39653), (112, 39638), (121, 39584), (122, 39581), (138, 39485), (163, 39407), (171, 39347), (184, 39260), (192, 39221), (203, 39176), (208, 39155), (212, 39140), (220, 39098), (223, 39086), (233, 39020), (235, 39008), (247, 38945), (262, 38816), (263, 38807), (269, 38771), (279, 38687), (281, 38669), (291, 38612), (292, 38609), (296, 38597), (326, 38459), (327, 38453), (328, 38438), (330, 38432), (336, 38399), (353, 38321), (359, 38288), (386, 38147), (397, 38090), (401, 38066), (402, 38060), (410, 37991), (420, 37928), (433, 37862), (437, 37841), (442, 37823), (454, 37766), (455, 37757), (474, 37649), (475, 37640), (480, 37628), (483, 37607), (492, 37577), (499, 37550), (513, 37484), (515, 37475), (517, 37463), (534, 37376), (539, 37352), (548, 37304), (578, 37160), (595, 37085), (638, 36911), (643, 36875), (654, 36827), (663, 36794),

Gene: Essence_206 Start: 112272, Stop: 115667, Start Num: 47

Candidate Starts for Essence_206:

(Start: 14 @112179 has 47 MA's), (Start: 15 @112185 has 6 MA's), (Start: 18 @112197 has 8 MA's), (22, 112206), (Start: 47 @112272 has 171 MA's), (59, 112347), (78, 112461), (85, 112485), (95, 112545), (113, 112656), (118, 112695), (125, 112719), (130, 112761), (148, 112860), (159, 112902), (161, 112908), (164, 112920), (173, 112983), (180, 113043), (181, 113046), (186, 113073), (195, 113115), (210, 113178), (236, 113334), (240, 113352), (243, 113367), (255, 113484), (260, 113523), (272, 113643), (278, 113685), (286, 113730), (288, 113739), (297, 113790), (306, 113832), (321, 113898), (322, 113907), (323, 113910), (324, 113916), (325, 113919), (326, 113928), (327, 113934), (328, 113949), (347, 114036), (367, 114141), (375, 114195), (384, 114282), (388, 114312), (393, 114342), (400, 114375), (402, 114384), (410, 114456), (414, 114486), (436, 114603), (443, 114648), (453, 114690), (479, 114834), (496, 114894), (518, 114996), (537, 115083), (538, 115086), (541, 115104), (547, 115140), (548, 115143), (568, 115203), (572, 115221), (591, 115317), (598, 115347), (602, 115365), (610, 115395), (635, 115488), (640, 115503), (656, 115584), (657, 115590), (661, 115602),

Gene: Evy_80 Start: 59063, Stop: 62347, Start Num: 49

Candidate Starts for Evy_80:

(Start: 49 @59063 has 71 MA's), (56, 59108), (60, 59138), (64, 59156), (Start: 65 @59162 has 1 MA's), (75, 59228), (109, 59441), (139, 59621), (159, 59726), (169, 59789), (171, 59795), (177, 59834), (193, 59924), (200, 59951), (223, 60050), (242, 60161), (249, 60191), (250, 60194), (253, 60230), (285, 60473), (290, 60503), (327, 60617), (328, 60632), (345, 60722), (346, 60728), (347, 60734), (363,

60818), (378, 60881), (380, 60890), (383, 60917), (390, 60962), (401, 61025), (410, 61097), (421, 61151), (423, 61160), (425, 61169), (427, 61178), (429, 61184), (474, 61427), (493, 61496), (519, 61613), (538, 61703), (545, 61745), (559, 61808), (567, 61841), (577, 61892), (588, 61937), (603, 62003), (616, 62051), (633, 62132), (636, 62141), (644, 62183), (653, 62231), (657, 62246),

Gene: Ewok_208 Start: 113408, Stop: 116803, Start Num: 47

Candidate Starts for Ewok_208:

(Start: 14 @113315 has 47 MA's), (Start: 15 @113321 has 6 MA's), (Start: 18 @113333 has 8 MA's), (22, 113342), (Start: 47 @113408 has 171 MA's), (59, 113483), (78, 113597), (85, 113621), (95, 113681), (113, 113792), (118, 113831), (125, 113855), (130, 113897), (148, 113996), (159, 114038), (161, 114044), (164, 114056), (173, 114119), (180, 114179), (181, 114182), (186, 114209), (195, 114251), (210, 114314), (230, 114434), (236, 114470), (240, 114488), (243, 114503), (255, 114620), (260, 114659), (272, 114779), (278, 114821), (286, 114866), (288, 114875), (297, 114926), (306, 114968), (321, 115034), (322, 115043), (323, 115046), (324, 115052), (325, 115055), (326, 115064), (327, 115070), (328, 115085), (347, 115172), (367, 115277), (375, 115331), (384, 115418), (388, 115448), (393, 115478), (400, 115511), (402, 115520), (410, 115592), (414, 115622), (436, 115739), (443, 115784), (453, 115826), (479, 115970), (496, 116030), (518, 116132), (537, 116219), (538, 116222), (541, 116240), (547, 116276), (548, 116279), (568, 116339), (572, 116357), (591, 116453), (598, 116483), (602, 116501), (610, 116531), (635, 116624), (640, 116639), (656, 116720), (657, 116726), (661, 116738),

Gene: Farrylious_95 Start: 69768, Stop: 72581, Start Num: 40

Candidate Starts for Farrylious_95:

(Start: 33 @69753 has 1 MA's), (Start: 37 @69765 has 1 MA's), (Start: 40 @69768 has 5 MA's), (59, 69861), (68, 69921), (93, 70071), (94, 70074), (96, 70080), (103, 70122), (110, 70179), (114, 70209), (115, 70212), (126, 70275), (130, 70296), (131, 70299), (136, 70326), (161, 70443), (163, 70452), (170, 70509), (173, 70518), (178, 70566), (196, 70650), (233, 70815), (236, 70833), (239, 70848), (241, 70854), (243, 70866), (249, 70893), (250, 70896), (256, 70956), (257, 70965), (258, 70968), (260, 70980), (263, 71025), (271, 71094), (274, 71118), (300, 71274), (303, 71292), (308, 71316), (313, 71334), (330, 71430), (337, 71472), (339, 71478), (347, 71514), (349, 71523), (352, 71541), (353, 71547), (357, 71571), (358, 71577), (359, 71580), (363, 71598), (364, 71601), (383, 71694), (390, 71739), (391, 71745), (395, 71769), (396, 71772), (398, 71781), (399, 71787), (401, 71799), (409, 71871), (418, 71916), (420, 71934), (421, 71937), (423, 71946), (446, 72060), (449, 72075), (474, 72222), (478, 72234), (480, 72240), (489, 72273), (497, 72306), (500, 72324), (503, 72336), (506, 72345), (526, 72462), (532, 72486),

Gene: Faust_61 Start: 49769, Stop: 53059, Start Num: 49

Candidate Starts for Faust_61:

(Start: 49 @49769 has 71 MA's), (54, 49784), (55, 49790), (60, 49841), (Start: 65 @49865 has 1 MA's), (109, 50144), (120, 50204), (138, 50318), (139, 50324), (159, 50429), (169, 50492), (171, 50498), (177, 50537), (275, 51116), (320, 51281), (327, 51320), (345, 51425), (346, 51431), (347, 51437), (351, 51461), (359, 51503), (370, 51554), (380, 51593), (390, 51665), (401, 51728), (410, 51800), (421, 51854), (423, 51863), (425, 51872), (427, 51881), (429, 51887), (460, 52067), (463, 52079), (469, 52103), (476, 52139), (478, 52142), (493, 52199), (495, 52205), (498, 52217), (520, 52322), (539, 52415), (561, 52520), (564, 52532), (576, 52589), (577, 52595), (588, 52640), (603, 52706), (606, 52715), (618, 52766), (644, 52886), (654, 52937), (657, 52949), (674, 53036),

Gene: Finch_77 Start: 65462, Stop: 68653, Start Num: 51

Candidate Starts for Finch_77:

(Start: 51 @65462 has 1 MA's), (59, 65525), (80, 65648), (104, 65789), (105, 65798), (108, 65822), (114, 65858), (119, 65882), (129, 65939), (136, 65978), (138, 66002), (148, 66044), (164, 66104), (173, 66167), (181, 66224), (184, 66239), (186, 66251), (188, 66266), (200, 66311), (210, 66353), (220, 66407), (225, 66431), (226, 66434), (230, 66473), (238, 66521), (240, 66527), (245, 66563),

(247, 66569), (256, 66638), (266, 66734), (272, 66782), (282, 66848), (284, 66854), (306, 66926), (307, 66929), (322, 67001), (323, 67004), (324, 67010), (334, 67067), (336, 67082), (339, 67091), (342, 67106), (347, 67127), (349, 67136), (362, 67205), (379, 67289), (381, 67295), (382, 67313), (386, 67343), (392, 67382), (408, 67496), (410, 67499), (420, 67550), (421, 67553), (422, 67559), (432, 67613), (433, 67616), (436, 67631), (441, 67658), (447, 67694), (456, 67748), (460, 67790), (483, 67892), (496, 67934), (497, 67937), (499, 67949), (513, 68012), (514, 68018), (525, 68090), (531, 68102), (537, 68132), (548, 68189), (586, 68270), (588, 68279), (608, 68360), (620, 68408), (624, 68420), (635, 68462), (639, 68471), (643, 68504), (654, 68552),

Gene: Fixie_209 Start: 113052, Stop: 116447, Start Num: 47

Candidate Starts for Fixie_209:

(Start: 14 @112959 has 47 MA's), (Start: 15 @112965 has 6 MA's), (Start: 18 @112977 has 8 MA's), (22, 112986), (Start: 47 @113052 has 171 MA's), (59, 113127), (78, 113241), (85, 113265), (95, 113325), (113, 113436), (118, 113475), (125, 113499), (130, 113541), (148, 113640), (159, 113682), (161, 113688), (164, 113700), (173, 113763), (180, 113823), (181, 113826), (186, 113853), (195, 113895), (210, 113958), (230, 114078), (236, 114114), (240, 114132), (243, 114147), (255, 114264), (260, 114303), (272, 114423), (278, 114465), (286, 114510), (288, 114519), (297, 114570), (306, 114612), (321, 114678), (322, 114687), (323, 114690), (324, 114696), (325, 114699), (326, 114708), (327, 114714), (328, 114729), (347, 114816), (367, 114921), (375, 114975), (384, 115062), (388, 115092), (393, 115122), (400, 115155), (402, 115164), (410, 115236), (414, 115266), (436, 115383), (443, 115428), (453, 115470), (479, 115614), (496, 115674), (518, 115776), (537, 115863), (538, 115866), (541, 115884), (547, 115920), (548, 115923), (568, 115983), (572, 116001), (591, 116097), (598, 116127), (602, 116145), (610, 116175), (635, 116268), (640, 116283), (656, 116364), (657, 116370), (661, 116382),

Gene: Flabslab_204 Start: 111453, Stop: 114848, Start Num: 47

Candidate Starts for Flabslab_204:

(Start: 14 @111360 has 47 MA's), (Start: 15 @111366 has 6 MA's), (Start: 18 @111378 has 8 MA's), (22, 111387), (Start: 47 @111453 has 171 MA's), (59, 111528), (78, 111642), (85, 111666), (95, 111726), (113, 111837), (118, 111876), (125, 111900), (130, 111942), (148, 112041), (159, 112083), (161, 112089), (164, 112101), (173, 112164), (180, 112224), (181, 112227), (186, 112254), (195, 112296), (210, 112359), (230, 112479), (236, 112515), (240, 112533), (243, 112548), (255, 112665), (260, 112704), (272, 112824), (278, 112866), (286, 112911), (288, 112920), (297, 112971), (306, 113013), (321, 113079), (322, 113088), (323, 113091), (324, 113097), (325, 113100), (326, 113109), (327, 113115), (328, 113130), (347, 113217), (367, 113322), (375, 113376), (384, 113463), (388, 113493), (393, 113523), (400, 113556), (402, 113565), (410, 113637), (414, 113667), (436, 113784), (443, 113829), (453, 113871), (479, 114015), (496, 114075), (518, 114177), (537, 114264), (538, 114267), (541, 114285), (547, 114321), (548, 114324), (568, 114384), (572, 114402), (591, 114498), (598, 114528), (602, 114546), (610, 114576), (635, 114669), (640, 114684), (656, 114765), (657, 114771), (661, 114783),

Gene: Fludd_209 Start: 112844, Stop: 116239, Start Num: 47

Candidate Starts for Fludd_209:

(Start: 14 @112751 has 47 MA's), (Start: 15 @112757 has 6 MA's), (Start: 18 @112769 has 8 MA's), (22, 112778), (Start: 47 @112844 has 171 MA's), (59, 112919), (78, 113033), (85, 113057), (95, 113117), (113, 113228), (118, 113267), (125, 113291), (130, 113333), (148, 113432), (159, 113474), (161, 113480), (164, 113492), (173, 113555), (180, 113615), (181, 113618), (186, 113645), (195, 113687), (210, 113750), (230, 113870), (236, 113906), (240, 113924), (243, 113939), (255, 114056), (260, 114095), (272, 114215), (278, 114257), (286, 114302), (288, 114311), (297, 114362), (306, 114404), (321, 114470), (322, 114479), (323, 114482), (324, 114488), (325, 114491), (326, 114500), (327, 114506), (328, 114521), (347, 114608), (367, 114713), (375, 114767), (384, 114854), (388, 114884), (393, 114914), (400, 114947), (402, 114956), (410, 115028), (414, 115058), (436, 115175), (443, 115220), (453, 115262), (479, 115406), (496, 115466), (518, 115568), (537, 115655), (538,

115658), (541, 115676), (547, 115712), (548, 115715), (568, 115775), (572, 115793), (591, 115889), (598, 115919), (602, 115937), (610, 115967), (635, 116060), (640, 116075), (656, 116156), (657, 116162), (661, 116174),

Gene: FlyingTortilla_98 Start: 74166, Stop: 76973, Start Num: 42

Candidate Starts for FlyingTortilla_98:

(12, 74061), (Start: 21 @74103 has 1 MA's), (34, 74151), (Start: 42 @74166 has 3 MA's), (59, 74256), (63, 74271), (68, 74316), (82, 74394), (93, 74466), (110, 74574), (114, 74604), (115, 74607), (116, 74610), (126, 74670), (130, 74691), (136, 74721), (161, 74838), (170, 74904), (173, 74913), (174, 74916), (196, 75045), (210, 75099), (233, 75210), (236, 75228), (239, 75243), (241, 75249), (243, 75261), (249, 75288), (250, 75291), (256, 75351), (257, 75360), (260, 75375), (271, 75489), (303, 75687), (308, 75711), (313, 75729), (317, 75762), (328, 75819), (329, 75822), (337, 75867), (338, 75870), (347, 75909), (349, 75918), (353, 75942), (354, 75948), (358, 75972), (359, 75975), (363, 75993), (366, 76005), (390, 76134), (391, 76140), (395, 76164), (399, 76182), (401, 76194), (418, 76311), (420, 76329), (421, 76332), (423, 76341), (444, 76446), (446, 76455), (451, 76482), (474, 76614), (478, 76626), (480, 76632), (497, 76698), (500, 76716), (503, 76728), (506, 76737), (512, 76773), (525, 76851), (532, 76878), (546, 76953), (547, 76962),

Gene: Fongie_210 Start: 113431, Stop: 116826, Start Num: 47

Candidate Starts for Fongie_210:

(Start: 14 @113338 has 47 MA's), (Start: 15 @113344 has 6 MA's), (Start: 18 @113356 has 8 MA's), (22, 113365), (Start: 47 @113431 has 171 MA's), (59, 113506), (78, 113620), (85, 113644), (95, 113704), (113, 113815), (118, 113854), (125, 113878), (130, 113920), (148, 114019), (159, 114061), (161, 114067), (164, 114079), (173, 114142), (180, 114202), (181, 114205), (186, 114232), (195, 114274), (210, 114337), (236, 114493), (240, 114511), (243, 114526), (255, 114643), (260, 114682), (272, 114802), (278, 114844), (286, 114889), (288, 114898), (297, 114949), (306, 114991), (321, 115057), (322, 115066), (323, 115069), (324, 115075), (325, 115078), (326, 115087), (327, 115093), (328, 115108), (347, 115195), (367, 115300), (375, 115354), (384, 115441), (388, 115471), (393, 115501), (400, 115534), (402, 115543), (410, 115615), (414, 115645), (436, 115762), (443, 115807), (453, 115849), (479, 115993), (496, 116053), (518, 116155), (537, 116242), (538, 116245), (541, 116263), (547, 116299), (548, 116302), (568, 116362), (572, 116380), (591, 116476), (598, 116506), (602, 116524), (610, 116554), (635, 116647), (640, 116662), (656, 116743), (657, 116749), (661, 116761),

Gene: Forrest_62 Start: 49341, Stop: 52631, Start Num: 49

Candidate Starts for Forrest_62:

(Start: 49 @49341 has 71 MA's), (54, 49356), (55, 49362), (60, 49413), (Start: 65 @49437 has 1 MA's), (97, 49626), (109, 49716), (120, 49776), (139, 49896), (159, 50001), (169, 50064), (171, 50070), (177, 50109), (232, 50382), (242, 50436), (249, 50466), (253, 50505), (259, 50553), (320, 50853), (327, 50892), (345, 50997), (346, 51003), (347, 51009), (353, 51042), (356, 51057), (359, 51075), (362, 51087), (363, 51093), (370, 51126), (378, 51156), (380, 51165), (388, 51231), (390, 51237), (391, 51246), (401, 51300), (410, 51372), (421, 51426), (423, 51435), (427, 51453), (429, 51459), (453, 51573), (460, 51639), (463, 51651), (476, 51711), (478, 51714), (495, 51777), (496, 51783), (498, 51789), (520, 51894), (528, 51942), (529, 51945), (544, 52014), (559, 52083), (561, 52092), (576, 52161), (577, 52167), (582, 52179), (588, 52212), (589, 52215), (603, 52278), (606, 52287), (611, 52308), (614, 52320), (625, 52362), (644, 52458), (650, 52494), (652, 52503), (657, 52521), (675, 52617),

Gene: FoxtrotP1_207 Start: 114088, Stop: 117483, Start Num: 47

Candidate Starts for FoxtrotP1_207:

(Start: 14 @113995 has 47 MA's), (Start: 15 @114001 has 6 MA's), (Start: 18 @114013 has 8 MA's), (22, 114022), (Start: 47 @114088 has 171 MA's), (59, 114163), (78, 114277), (85, 114301), (95, 114361), (113, 114472), (118, 114511), (125, 114535), (130, 114577), (148, 114676), (159, 114718),

(161, 114724), (164, 114736), (173, 114799), (180, 114859), (181, 114862), (186, 114889), (195, 114931), (210, 114994), (236, 115150), (240, 115168), (243, 115183), (255, 115300), (260, 115339), (272, 115459), (278, 115501), (286, 115546), (288, 115555), (297, 115606), (306, 115648), (321, 115714), (322, 115723), (323, 115726), (324, 115732), (325, 115735), (326, 115744), (327, 115750), (328, 115765), (347, 115852), (367, 115957), (375, 116011), (384, 116098), (388, 116128), (393, 116158), (400, 116191), (402, 116200), (410, 116272), (414, 116302), (436, 116419), (443, 116464), (453, 116506), (479, 116650), (496, 116710), (518, 116812), (537, 116899), (538, 116902), (541, 116920), (547, 116956), (548, 116959), (568, 117019), (572, 117037), (591, 117133), (598, 117163), (602, 117181), (610, 117211), (635, 117304), (640, 117319), (656, 117400), (657, 117406), (661, 117418),

Gene: Francesca_77 Start: 61162, Stop: 64965, Start Num: 46

Candidate Starts for Francesca_77:

(Start: 46 @61162 has 2 MA's), (Start: 52 @61171 has 2 MA's), (64, 61261), (72, 61321), (80, 61363), (116, 61582), (118, 61597), (136, 61696), (138, 61720), (168, 61882), (172, 61909), (177, 61945), (198, 62053), (211, 62110), (221, 62155), (223, 62164), (237, 62251), (243, 62278), (251, 62314), (255, 62356), (259, 62392), (281, 62578), (282, 62581), (305, 62668), (318, 62725), (335, 62824), (341, 62851), (363, 62965), (371, 63007), (380, 63037), (390, 63109), (419, 63277), (421, 63295), (427, 63322), (439, 63388), (445, 63409), (452, 63436), (454, 63454), (472, 63565), (473, 63571), (487, 63628), (504, 63706), (511, 63739), (528, 63841), (556, 63976), (564, 64012), (580, 64090), (585, 64120), (597, 64174), (600, 64183), (627, 64300), (650, 64429), (654, 64444), (658, 64459), (675, 64552), (682, 64627), (685, 64654), (686, 64660), (687, 64666), (691, 64705), (692, 64717), (694, 64738), (700, 64807), (702, 64840), (706, 64864), (713, 64933),

Gene: Francob_59 Start: 48697, Stop: 51987, Start Num: 49

Candidate Starts for Francob_59:

(Start: 49 @48697 has 71 MA's), (55, 48718), (60, 48769), (Start: 65 @48793 has 1 MA's), (109, 49072), (120, 49132), (139, 49252), (159, 49357), (169, 49420), (171, 49426), (177, 49465), (193, 49555), (254, 49870), (259, 49909), (320, 50209), (327, 50248), (347, 50365), (353, 50398), (359, 50431), (363, 50449), (370, 50482), (380, 50521), (388, 50587), (390, 50593), (401, 50656), (410, 50728), (421, 50782), (423, 50791), (425, 50800), (427, 50809), (429, 50815), (453, 50929), (460, 50995), (463, 51007), (476, 51067), (478, 51070), (493, 51127), (495, 51133), (496, 51139), (498, 51145), (520, 51250), (529, 51301), (561, 51448), (576, 51517), (577, 51523), (582, 51535), (603, 51634), (606, 51643), (618, 51694), (627, 51727), (644, 51814), (654, 51865), (657, 51877),

Gene: FrayBell_212 Start: 112934, Stop: 116329, Start Num: 47

Candidate Starts for FrayBell_212:

(Start: 14 @112841 has 47 MA's), (Start: 15 @112847 has 6 MA's), (Start: 18 @112859 has 8 MA's), (22, 112868), (Start: 47 @112934 has 171 MA's), (59, 113009), (78, 113123), (85, 113147), (95, 113207), (113, 113318), (118, 113357), (125, 113381), (130, 113423), (148, 113522), (159, 113564), (161, 113570), (164, 113582), (173, 113645), (180, 113705), (181, 113708), (186, 113735), (195, 113777), (210, 113840), (236, 113996), (240, 114014), (243, 114029), (255, 114146), (260, 114185), (272, 114305), (278, 114347), (286, 114392), (288, 114401), (297, 114452), (306, 114494), (321, 114560), (322, 114569), (323, 114572), (324, 114578), (325, 114581), (326, 114590), (327, 114596), (328, 114611), (347, 114698), (367, 114803), (375, 114857), (384, 114944), (388, 114974), (393, 115004), (400, 115037), (402, 115046), (410, 115118), (414, 115148), (436, 115265), (443, 115310), (453, 115352), (479, 115496), (496, 115556), (518, 115658), (537, 115745), (538, 115748), (541, 115766), (547, 115802), (548, 115805), (568, 115865), (572, 115883), (591, 115979), (598, 116009), (602, 116027), (610, 116057), (635, 116150), (640, 116165), (656, 116246), (657, 116252), (661, 116264),

Gene: FreddyDRoo_77 Start: 57859, Stop: 61143, Start Num: 49

Candidate Starts for FreddyDRoo_77:

(Start: 49 @57859 has 71 MA's), (56, 57904), (60, 57934), (64, 57952), (Start: 65 @57958 has 1 MA's), (75, 58024), (109, 58237), (111, 58243), (127, 58339), (139, 58417), (159, 58522), (169, 58585), (171, 58591), (177, 58630), (200, 58747), (223, 58846), (242, 58957), (249, 58987), (253, 59026), (285, 59269), (327, 59413), (328, 59428), (346, 59524), (347, 59530), (351, 59554), (363, 59614), (378, 59677), (380, 59686), (390, 59758), (401, 59821), (410, 59893), (421, 59947), (423, 59956), (425, 59965), (427, 59974), (429, 59980), (445, 60061), (460, 60160), (474, 60223), (493, 60292), (496, 60304), (535, 60490), (539, 60508), (559, 60604), (567, 60637), (577, 60688), (587, 60727), (588, 60733), (603, 60799), (611, 60829), (616, 60847), (625, 60883), (633, 60928), (636, 60937), (642, 60958), (644, 60979), (653, 61027), (657, 61042),

Gene: FruityLoops_97 Start: 73484, Stop: 76291, Start Num: 42

Candidate Starts for FruityLoops_97:

(10, 73376), (12, 73382), (13, 73385), (Start: 21 @73421 has 1 MA's), (34, 73469), (Start: 42 @73484 has 3 MA's), (59, 73574), (63, 73589), (68, 73634), (82, 73712), (93, 73784), (110, 73892), (114, 73922), (115, 73925), (116, 73928), (126, 73988), (130, 74009), (133, 74018), (136, 74039), (153, 74129), (161, 74156), (170, 74222), (173, 74231), (174, 74234), (182, 74297), (196, 74363), (210, 74417), (233, 74528), (236, 74546), (239, 74561), (241, 74567), (243, 74579), (249, 74606), (250, 74609), (256, 74669), (257, 74678), (260, 74693), (271, 74807), (303, 75005), (308, 75029), (313, 75047), (328, 75137), (329, 75140), (337, 75185), (338, 75188), (347, 75227), (349, 75236), (353, 75260), (354, 75266), (358, 75290), (359, 75293), (363, 75311), (390, 75452), (391, 75458), (395, 75482), (396, 75485), (399, 75500), (401, 75512), (418, 75629), (420, 75647), (421, 75650), (423, 75659), (444, 75764), (446, 75773), (451, 75800), (474, 75932), (478, 75944), (480, 75950), (497, 76016), (500, 76034), (503, 76046), (506, 76055), (512, 76091), (525, 76169), (532, 76196), (546, 76271), (547, 76280),

Gene: FudgeTart_204 Start: 112462, Stop: 115950, Start Num: 14

Candidate Starts for FudgeTart_204:

(Start: 14 @112462 has 47 MA's), (Start: 15 @112468 has 6 MA's), (Start: 18 @112480 has 8 MA's), (22, 112489), (Start: 47 @112555 has 171 MA's), (59, 112630), (78, 112744), (85, 112768), (95, 112828), (113, 112939), (118, 112978), (125, 113002), (130, 113044), (148, 113143), (159, 113185), (161, 113191), (164, 113203), (173, 113266), (180, 113326), (181, 113329), (186, 113356), (195, 113398), (210, 113461), (230, 113581), (236, 113617), (240, 113635), (243, 113650), (255, 113767), (260, 113806), (272, 113926), (278, 113968), (286, 114013), (288, 114022), (297, 114073), (306, 114115), (321, 114181), (322, 114190), (323, 114193), (324, 114199), (325, 114202), (326, 114211), (327, 114217), (328, 114232), (347, 114319), (367, 114424), (375, 114478), (384, 114565), (388, 114595), (393, 114625), (400, 114658), (402, 114667), (410, 114739), (414, 114769), (436, 114886), (443, 114931), (453, 114973), (479, 115117), (496, 115177), (518, 115279), (537, 115366), (538, 115369), (541, 115387), (547, 115423), (548, 115426), (568, 115486), (572, 115504), (591, 115600), (598, 115630), (602, 115648), (610, 115678), (635, 115771), (640, 115786), (656, 115867), (657, 115873), (661, 115885),

Gene: GMA6_80 Start: 61160, Stop: 64054, Start Num: 19

Candidate Starts for GMA6_80:

(7, 61112), (16, 61148), (19, 61160), (23, 61169), (25, 61172), (Start: 37 @61223 has 1 MA's), (54, 61265), (56, 61292), (59, 61319), (66, 61355), (68, 61379), (71, 61397), (80, 61442), (96, 61538), (98, 61556), (99, 61562), (100, 61565), (103, 61580), (115, 61670), (116, 61673), (124, 61709), (130, 61754), (134, 61766), (135, 61778), (136, 61784), (137, 61790), (145, 61847), (151, 61862), (152, 61865), (153, 61874), (161, 61901), (170, 61967), (173, 61976), (182, 62042), (202, 62132), (223, 62210), (227, 62234), (229, 62246), (230, 62255), (233, 62273), (236, 62291), (243, 62324), (249, 62351), (252, 62384), (271, 62552), (295, 62696), (309, 62783), (313, 62792), (317, 62825), (321, 62834), (322, 62843), (327, 62870), (328, 62885), (330, 62891), (337, 62933), (338, 62936), (344, 62960), (347, 62975), (349, 62984), (351, 62999), (353, 63008), (357, 63032), (358, 63038), (359, 63041), (365, 63068), (383, 63155), (390, 63200), (395, 63230), (399, 63248), (401, 63260), (418,

63377), (423, 63407), (430, 63443), (433, 63455), (434, 63458), (442, 63503), (444, 63512), (449, 63536), (455, 63575), (474, 63683), (476, 63692), (499, 63779), (500, 63785), (516, 63866), (532, 63947), (543, 64004), (548, 64034),

Gene: Gabriel_212 Start: 112010, Stop: 115405, Start Num: 47

Candidate Starts for Gabriel_212:

(Start: 14 @111917 has 47 MA's), (Start: 15 @111923 has 6 MA's), (Start: 18 @111935 has 8 MA's), (22, 111944), (Start: 47 @112010 has 171 MA's), (59, 112085), (78, 112199), (85, 112223), (95, 112283), (113, 112394), (118, 112433), (125, 112457), (130, 112499), (148, 112598), (159, 112640), (161, 112646), (164, 112658), (173, 112721), (180, 112781), (181, 112784), (186, 112811), (195, 112853), (210, 112916), (236, 113072), (240, 113090), (243, 113105), (255, 113222), (260, 113261), (272, 113381), (278, 113423), (286, 113468), (288, 113477), (297, 113528), (306, 113570), (321, 113636), (322, 113645), (323, 113648), (324, 113654), (325, 113657), (326, 113666), (327, 113672), (328, 113687), (347, 113774), (367, 113879), (375, 113933), (384, 114020), (388, 114050), (393, 114080), (400, 114113), (402, 114122), (410, 114194), (414, 114224), (436, 114341), (443, 114386), (453, 114428), (479, 114572), (496, 114632), (518, 114734), (537, 114821), (538, 114824), (541, 114842), (547, 114878), (548, 114881), (568, 114941), (572, 114959), (591, 115055), (598, 115085), (602, 115103), (610, 115133), (635, 115226), (640, 115241), (656, 115322), (657, 115328), (661, 115340),

Gene: Gamgam_210 Start: 112367, Stop: 115762, Start Num: 47

Candidate Starts for Gamgam_210:

(Start: 14 @112274 has 47 MA's), (Start: 15 @112280 has 6 MA's), (Start: 18 @112292 has 8 MA's), (22, 112301), (Start: 47 @112367 has 171 MA's), (59, 112442), (78, 112556), (85, 112580), (95, 112640), (113, 112751), (118, 112790), (125, 112814), (130, 112856), (148, 112955), (159, 112997), (161, 113003), (164, 113015), (173, 113078), (180, 113138), (181, 113141), (186, 113168), (195, 113210), (210, 113273), (230, 113393), (236, 113429), (240, 113447), (243, 113462), (255, 113579), (260, 113618), (272, 113738), (278, 113780), (286, 113825), (288, 113834), (297, 113885), (306, 113927), (321, 113993), (322, 114002), (323, 114005), (324, 114011), (325, 114014), (326, 114023), (327, 114029), (328, 114044), (347, 114131), (367, 114236), (375, 114290), (384, 114377), (388, 114407), (393, 114437), (400, 114470), (402, 114479), (410, 114551), (414, 114581), (436, 114698), (443, 114743), (453, 114785), (479, 114929), (496, 114989), (518, 115091), (537, 115178), (538, 115181), (541, 115199), (547, 115235), (548, 115238), (568, 115298), (572, 115316), (591, 115412), (598, 115442), (602, 115460), (610, 115490), (635, 115583), (640, 115598), (656, 115679), (657, 115685), (661, 115697),

Gene: Genie2_82 Start: 58392, Stop: 61712, Start Num: 48

Candidate Starts for Genie2_82:

(Start: 48 @58392 has 34 MA's), (60, 58464), (Start: 65 @58488 has 1 MA's), (77, 58569), (109, 58767), (139, 58947), (146, 58995), (159, 59052), (168, 59103), (169, 59121), (172, 59130), (177, 59166), (198, 59274), (200, 59283), (216, 59355), (242, 59493), (253, 59562), (272, 59727), (285, 59805), (326, 59967), (329, 59991), (347, 60090), (363, 60174), (380, 60246), (410, 60450), (421, 60504), (423, 60513), (427, 60531), (429, 60537), (453, 60651), (463, 60729), (469, 60753), (474, 60780), (528, 61032), (529, 61035), (533, 61053), (537, 61065), (555, 61155), (569, 61215), (577, 61257), (587, 61296), (588, 61302), (594, 61329), (603, 61368), (616, 61416), (617, 61425), (633, 61497), (637, 61509), (640, 61518), (643, 61545), (644, 61548), (648, 61563), (653, 61596), (665, 61650), (668, 61665),

Gene: Ghost_209 Start: 112201, Stop: 115683, Start Num: 15

Candidate Starts for Ghost_209:

(Start: 14 @112195 has 47 MA's), (Start: 15 @112201 has 6 MA's), (Start: 18 @112213 has 8 MA's), (22, 112222), (Start: 47 @112288 has 171 MA's), (59, 112363), (78, 112477), (85, 112501), (95, 112561), (113, 112672), (118, 112711), (125, 112735), (130, 112777), (148, 112876), (159, 112918),

(161, 112924), (164, 112936), (173, 112999), (180, 113059), (181, 113062), (186, 113089), (195, 113131), (210, 113194), (230, 113314), (236, 113350), (240, 113368), (243, 113383), (255, 113500), (260, 113539), (272, 113659), (278, 113701), (286, 113746), (288, 113755), (297, 113806), (306, 113848), (321, 113914), (322, 113923), (323, 113926), (324, 113932), (325, 113935), (326, 113944), (327, 113950), (328, 113965), (347, 114052), (367, 114157), (375, 114211), (384, 114298), (388, 114328), (393, 114358), (400, 114391), (402, 114400), (410, 114472), (414, 114502), (436, 114619), (443, 114664), (453, 114706), (479, 114850), (496, 114910), (518, 115012), (537, 115099), (538, 115102), (541, 115120), (547, 115156), (548, 115159), (568, 115219), (572, 115237), (591, 115333), (598, 115363), (602, 115381), (610, 115411), (635, 115504), (640, 115519), (656, 115600), (657, 115606), (661, 115618),

Gene: Gibbi_86 Start: 58555, Stop: 61875, Start Num: 48

Candidate Starts for Gibbi_86:

(Start: 48 @58555 has 34 MA's), (57, 58606), (60, 58627), (Start: 65 @58651 has 1 MA's), (77, 58732), (109, 58930), (139, 59110), (146, 59158), (147, 59161), (159, 59215), (168, 59266), (169, 59284), (172, 59293), (177, 59329), (198, 59437), (200, 59446), (242, 59656), (253, 59725), (272, 59890), (285, 59968), (304, 60037), (326, 60130), (347, 60253), (363, 60337), (378, 60400), (380, 60409), (410, 60613), (421, 60667), (423, 60676), (427, 60694), (429, 60700), (463, 60892), (469, 60916), (474, 60943), (499, 61051), (539, 61240), (555, 61318), (565, 61360), (569, 61378), (577, 61420), (587, 61459), (588, 61465), (594, 61492), (603, 61531), (616, 61579), (633, 61660), (640, 61681), (643, 61708), (644, 61711), (648, 61726), (653, 61759), (668, 61828),

Gene: Gilson_61 Start: 48597, Stop: 51887, Start Num: 49

Candidate Starts for Gilson_61:

(Start: 49 @48597 has 71 MA's), (54, 48612), (55, 48618), (60, 48669), (Start: 65 @48693 has 1 MA's), (97, 48882), (109, 48972), (120, 49032), (139, 49152), (159, 49257), (169, 49320), (171, 49326), (177, 49365), (232, 49638), (242, 49692), (249, 49722), (253, 49761), (259, 49809), (320, 50109), (327, 50148), (345, 50253), (346, 50259), (347, 50265), (353, 50298), (356, 50313), (359, 50331), (362, 50343), (363, 50349), (370, 50382), (378, 50412), (380, 50421), (388, 50487), (390, 50493), (391, 50502), (401, 50556), (410, 50628), (421, 50682), (423, 50691), (427, 50709), (429, 50715), (453, 50829), (460, 50895), (463, 50907), (476, 50967), (478, 50970), (495, 51033), (496, 51039), (498, 51045), (520, 51150), (528, 51198), (529, 51201), (544, 51270), (559, 51339), (561, 51348), (576, 51417), (577, 51423), (582, 51435), (588, 51468), (589, 51471), (603, 51534), (606, 51543), (611, 51564), (614, 51576), (625, 51618), (644, 51714), (650, 51750), (652, 51759), (657, 51777), (675, 51873),

Gene: Gizmo_215 Start: 115313, Stop: 118801, Start Num: 14

Candidate Starts for Gizmo_215:

(Start: 14 @115313 has 47 MA's), (Start: 15 @115319 has 6 MA's), (Start: 18 @115331 has 8 MA's), (22, 115340), (Start: 47 @115406 has 171 MA's), (59, 115481), (78, 115595), (85, 115619), (95, 115679), (113, 115790), (118, 115829), (125, 115853), (130, 115895), (148, 115994), (159, 116036), (161, 116042), (164, 116054), (173, 116117), (180, 116177), (181, 116180), (186, 116207), (195, 116249), (210, 116312), (236, 116468), (240, 116486), (243, 116501), (255, 116618), (260, 116657), (272, 116777), (278, 116819), (286, 116864), (288, 116873), (297, 116924), (306, 116966), (321, 117032), (322, 117041), (323, 117044), (324, 117050), (325, 117053), (326, 117062), (327, 117068), (328, 117083), (347, 117170), (367, 117275), (375, 117329), (384, 117416), (388, 117446), (393, 117476), (400, 117509), (402, 117518), (410, 117590), (414, 117620), (436, 117737), (443, 117782), (453, 117824), (479, 117968), (496, 118028), (518, 118130), (537, 118217), (538, 118220), (541, 118238), (547, 118274), (548, 118277), (568, 118337), (572, 118355), (591, 118451), (598, 118481), (602, 118499), (610, 118529), (635, 118622), (640, 118637), (656, 118718), (657, 118724), (661, 118736),

Gene: GlutenPhree_210 Start: 112285, Stop: 115773, Start Num: 14

Candidate Starts for GlutenPhree_210:

(Start: 14 @112285 has 47 MA's), (Start: 15 @112291 has 6 MA's), (Start: 18 @112303 has 8 MA's), (22, 112312), (Start: 47 @112378 has 171 MA's), (59, 112453), (78, 112567), (85, 112591), (95, 112651), (113, 112762), (118, 112801), (125, 112825), (130, 112867), (148, 112966), (159, 113008), (161, 113014), (164, 113026), (173, 113089), (180, 113149), (181, 113152), (186, 113179), (195, 113221), (210, 113284), (230, 113404), (236, 113440), (240, 113458), (243, 113473), (255, 113590), (260, 113629), (272, 113749), (278, 113791), (286, 113836), (288, 113845), (297, 113896), (306, 113938), (321, 114004), (322, 114013), (323, 114016), (324, 114022), (325, 114025), (326, 114034), (327, 114040), (328, 114055), (347, 114142), (367, 114247), (375, 114301), (384, 114388), (388, 114418), (393, 114448), (400, 114481), (402, 114490), (410, 114562), (414, 114592), (436, 114709), (443, 114754), (453, 114796), (479, 114940), (496, 115000), (518, 115102), (537, 115189), (538, 115192), (541, 115210), (547, 115246), (548, 115249), (568, 115309), (572, 115327), (591, 115423), (598, 115453), (602, 115471), (610, 115501), (635, 115594), (640, 115609), (656, 115690), (657, 115696), (661, 115708),

Gene: Goby_55 Start: 41781, Stop: 38299, Start Num: 47

Candidate Starts for Goby_55:

(Start: 47 @41781 has 171 MA's), (53, 41766), (54, 41760), (Start: 58 @41715 has 1 MA's), (59, 41706), (67, 41664), (81, 41571), (90, 41502), (102, 41433), (108, 41379), (122, 41307), (127, 41271), (138, 41211), (163, 41133), (184, 40986), (192, 40947), (199, 40920), (203, 40902), (208, 40881), (212, 40866), (233, 40746), (235, 40734), (261, 40548), (262, 40542), (269, 40497), (279, 40413), (281, 40395), (291, 40338), (292, 40335), (296, 40323), (326, 40185), (327, 40179), (328, 40164), (330, 40158), (336, 40125), (353, 40047), (359, 40014), (386, 39873), (401, 39792), (402, 39786), (410, 39717), (420, 39654), (425, 39633), (433, 39588), (442, 39549), (454, 39492), (455, 39483), (474, 39375), (480, 39354), (483, 39333), (492, 39303), (499, 39276), (513, 39210), (515, 39201), (517, 39189), (534, 39102), (539, 39078), (570, 38934), (578, 38886), (596, 38802), (604, 38775), (638, 38637), (640, 38628), (643, 38601), (654, 38553), (656, 38547), (662, 38526), (663, 38520), (677, 38415), (680, 38388), (681, 38376), (688, 38313),

Gene: Godpower_56 Start: 41758, Stop: 38279, Start Num: 47

Candidate Starts for Godpower_56:

(Start: 21 @41827 has 1 MA's), (Start: 47 @41758 has 171 MA's), (Start: 58 @41695 has 1 MA's), (59, 41686), (67, 41644), (81, 41551), (90, 41482), (102, 41413), (108, 41359), (122, 41287), (127, 41251), (138, 41191), (163, 41113), (184, 40966), (192, 40927), (199, 40900), (203, 40882), (208, 40861), (212, 40846), (233, 40726), (235, 40714), (261, 40528), (262, 40522), (269, 40477), (279, 40393), (281, 40375), (291, 40318), (292, 40315), (296, 40303), (326, 40165), (327, 40159), (328, 40144), (330, 40138), (336, 40105), (353, 40027), (359, 39994), (386, 39853), (401, 39772), (402, 39766), (410, 39697), (420, 39634), (425, 39613), (433, 39568), (442, 39529), (454, 39472), (455, 39463), (474, 39355), (480, 39334), (483, 39313), (492, 39283), (499, 39256), (513, 39190), (515, 39181), (517, 39169), (534, 39082), (539, 39058), (578, 38866), (596, 38782), (604, 38755), (638, 38617), (640, 38608), (643, 38581), (654, 38533), (656, 38527), (662, 38506), (663, 38500), (677, 38395), (681, 38356), (682, 38350), (688, 38293),

Gene: Grasshills_217 Start: 115911, Stop: 119381, Start Num: 18

Candidate Starts for Grasshills_217:

(4, 115818), (Start: 14 @115893 has 47 MA's), (Start: 15 @115899 has 6 MA's), (Start: 18 @115911 has 8 MA's), (22, 115920), (Start: 47 @115986 has 171 MA's), (59, 116061), (78, 116175), (85, 116199), (95, 116259), (113, 116370), (118, 116409), (125, 116433), (130, 116475), (148, 116574), (159, 116616), (161, 116622), (164, 116634), (173, 116697), (180, 116757), (181, 116760), (186, 116787), (195, 116829), (210, 116892), (236, 117048), (240, 117066), (243, 117081), (255, 117198), (260, 117237), (272, 117357), (278, 117399), (286, 117444), (288, 117453), (297, 117504), (306, 117546), (321, 117612), (322, 117621), (323, 117624), (324, 117630), (325, 117633), (326, 117642), (327, 117648), (328, 117663), (347, 117750), (367, 117855), (375, 117909), (384, 117996), (388,

118026), (393, 118056), (400, 118089), (402, 118098), (410, 118170), (414, 118200), (436, 118317), (443, 118362), (453, 118404), (479, 118548), (496, 118608), (518, 118710), (537, 118797), (538, 118800), (541, 118818), (547, 118854), (548, 118857), (568, 118917), (572, 118935), (591, 119031), (598, 119061), (602, 119079), (610, 119109), (635, 119202), (640, 119217), (656, 119298), (657, 119304), (661, 119316),

Gene: Gray_98 Start: 70297, Stop: 73110, Start Num: 40

Candidate Starts for Gray_98:

(Start: 33 @70282 has 1 MA's), (Start: 37 @70294 has 1 MA's), (Start: 40 @70297 has 5 MA's), (59, 70390), (68, 70450), (93, 70600), (94, 70603), (96, 70609), (103, 70651), (110, 70708), (114, 70738), (115, 70741), (126, 70804), (130, 70825), (131, 70828), (136, 70855), (161, 70972), (163, 70981), (170, 71038), (173, 71047), (196, 71179), (233, 71344), (236, 71362), (239, 71377), (241, 71383), (243, 71395), (249, 71422), (250, 71425), (256, 71485), (257, 71494), (258, 71497), (260, 71509), (263, 71554), (271, 71623), (274, 71647), (300, 71803), (303, 71821), (308, 71845), (313, 71863), (330, 71959), (337, 72001), (339, 72007), (347, 72043), (349, 72052), (352, 72070), (353, 72076), (357, 72100), (358, 72106), (359, 72109), (363, 72127), (364, 72130), (383, 72223), (390, 72268), (391, 72274), (395, 72298), (396, 72301), (398, 72310), (399, 72316), (401, 72328), (418, 72445), (420, 72463), (421, 72466), (423, 72475), (446, 72589), (449, 72604), (474, 72751), (478, 72763), (480, 72769), (489, 72802), (497, 72835), (500, 72853), (503, 72865), (506, 72874), (525, 72988), (528, 73000), (532, 73015), (546, 73090), (547, 73099),

Gene: Grayson_103 Start: 62973, Stop: 65801, Start Num: 194

Candidate Starts for Grayson_103:

(183, 62925), (189, 62955), (191, 62961), (Start: 194 @62973 has 3 MA's), (216, 63051), (223, 63078), (252, 63255), (255, 63270), (281, 63492), (282, 63495), (289, 63528), (357, 63816), (359, 63825), (363, 63843), (368, 63867), (380, 63915), (390, 63987), (393, 64011), (421, 64173), (464, 64398), (484, 64473), (589, 64998), (600, 65046), (618, 65130), (622, 65145), (632, 65196), (642, 65232), (654, 65307), (659, 65328), (686, 65523), (687, 65529), (692, 65577), (696, 65637), (697, 65646), (702, 65700), (704, 65706), (711, 65778),

Gene: Greely_198 Start: 110173, Stop: 113589, Start Num: 43

Candidate Starts for Greely_198:

(Start: 43 @110173 has 3 MA's), (71, 110335), (86, 110398), (112, 110563), (130, 110671), (151, 110791), (159, 110824), (161, 110830), (170, 110896), (173, 110905), (180, 110962), (181, 110965), (185, 110983), (186, 110992), (199, 111049), (204, 111070), (210, 111094), (218, 111139), (240, 111268), (243, 111283), (270, 111532), (272, 111559), (288, 111655), (301, 111721), (315, 111778), (322, 111823), (323, 111826), (327, 111850), (330, 111871), (347, 111955), (349, 111964), (353, 111988), (377, 112123), (397, 112270), (400, 112291), (402, 112300), (405, 112324), (408, 112369), (414, 112396), (421, 112426), (438, 112513), (456, 112615), (460, 112657), (463, 112669), (467, 112678), (480, 112738), (488, 112780), (496, 112816), (501, 112843), (517, 112915), (538, 113008), (548, 113065), (560, 113098), (586, 113221), (598, 113272), (602, 113290), (612, 113326), (619, 113356), (625, 113374), (634, 113410), (640, 113425), (650, 113491), (651, 113494), (657, 113512), (661, 113524), (672, 113581),

Gene: Grungle_193 Start: 110325, Stop: 113720, Start Num: 47

Candidate Starts for Grungle_193:

(Start: 6 @110202 has 5 MA's), (Start: 14 @110232 has 47 MA's), (Start: 15 @110238 has 6 MA's), (Start: 18 @110250 has 8 MA's), (22, 110259), (Start: 47 @110325 has 171 MA's), (59, 110400), (78, 110514), (85, 110538), (95, 110598), (113, 110709), (118, 110748), (125, 110772), (130, 110814), (148, 110913), (159, 110955), (161, 110961), (164, 110973), (173, 111036), (180, 111096), (181, 111099), (186, 111126), (195, 111168), (210, 111231), (230, 111351), (236, 111387), (240, 111405), (243, 111420), (255, 111537), (260, 111576), (272, 111696), (278, 111738), (286, 111783), (288, 111792), (297, 111843), (306, 111885), (321, 111951), (322, 111960), (323, 111963), (324, 111969),

(325, 111972), (326, 111981), (327, 111987), (328, 112002), (347, 112089), (367, 112194), (375, 112248), (384, 112335), (388, 112365), (393, 112395), (400, 112428), (402, 112437), (410, 112509), (414, 112539), (436, 112656), (440, 112674), (443, 112701), (453, 112743), (479, 112887), (496, 112947), (518, 113049), (537, 113136), (538, 113139), (541, 113157), (547, 113193), (548, 113196), (568, 113256), (572, 113274), (591, 113370), (598, 113400), (602, 113418), (610, 113448), (635, 113541), (640, 113556), (656, 113637), (657, 113643), (661, 113655),

Gene: Guwapp_204 Start: 111029, Stop: 114517, Start Num: 14

Candidate Starts for Guwapp_204:

(Start: 14 @111029 has 47 MA's), (Start: 15 @111035 has 6 MA's), (Start: 18 @111047 has 8 MA's), (22, 111056), (Start: 47 @111122 has 171 MA's), (59, 111197), (78, 111311), (85, 111335), (95, 111395), (113, 111506), (118, 111545), (125, 111569), (130, 111611), (148, 111710), (159, 111752), (161, 111758), (164, 111770), (173, 111833), (180, 111893), (181, 111896), (186, 111923), (195, 111965), (210, 112028), (236, 112184), (240, 112202), (243, 112217), (255, 112334), (260, 112373), (272, 112493), (278, 112535), (286, 112580), (288, 112589), (297, 112640), (306, 112682), (321, 112748), (322, 112757), (323, 112760), (324, 112766), (325, 112769), (326, 112778), (327, 112784), (328, 112799), (347, 112886), (367, 112991), (375, 113045), (384, 113132), (388, 113162), (393, 113192), (400, 113225), (402, 113234), (410, 113306), (414, 113336), (436, 113453), (443, 113498), (453, 113540), (479, 113684), (496, 113744), (518, 113846), (537, 113933), (538, 113936), (541, 113954), (547, 113990), (548, 113993), (568, 114053), (572, 114071), (591, 114167), (598, 114197), (602, 114215), (610, 114245), (635, 114338), (640, 114353), (656, 114434), (657, 114440), (661, 114452),

Gene: Halldule_202 Start: 111507, Stop: 114902, Start Num: 47

Candidate Starts for Halldule_202:

(Start: 6 @111384 has 5 MA's), (Start: 14 @111414 has 47 MA's), (Start: 15 @111420 has 6 MA's), (Start: 18 @111432 has 8 MA's), (22, 111441), (Start: 47 @111507 has 171 MA's), (59, 111582), (78, 111696), (85, 111720), (95, 111780), (113, 111891), (118, 111930), (125, 111954), (130, 111996), (148, 112095), (159, 112137), (161, 112143), (164, 112155), (173, 112218), (180, 112278), (181, 112281), (186, 112308), (195, 112350), (210, 112413), (230, 112533), (236, 112569), (240, 112587), (243, 112602), (255, 112719), (260, 112758), (272, 112878), (278, 112920), (286, 112965), (288, 112974), (297, 113025), (306, 113067), (321, 113133), (322, 113142), (323, 113145), (324, 113151), (325, 113154), (326, 113163), (327, 113169), (328, 113184), (347, 113271), (367, 113376), (375, 113430), (384, 113517), (388, 113547), (393, 113577), (400, 113610), (402, 113619), (410, 113691), (414, 113721), (436, 113838), (443, 113883), (453, 113925), (479, 114069), (496, 114129), (518, 114231), (537, 114318), (538, 114321), (541, 114339), (547, 114375), (548, 114378), (568, 114438), (572, 114456), (591, 114552), (598, 114582), (602, 114600), (610, 114630), (635, 114723), (640, 114738), (656, 114819), (657, 114825), (661, 114837),

Gene: Hanem_97 Start: 70036, Stop: 72849, Start Num: 40

Candidate Starts for Hanem_97:

(Start: 33 @70021 has 1 MA's), (Start: 37 @70033 has 1 MA's), (Start: 40 @70036 has 5 MA's), (59, 70129), (68, 70189), (93, 70339), (94, 70342), (96, 70348), (110, 70447), (114, 70477), (115, 70480), (126, 70543), (130, 70564), (131, 70567), (136, 70594), (161, 70711), (163, 70720), (170, 70777), (173, 70786), (182, 70852), (196, 70918), (233, 71083), (236, 71101), (239, 71116), (241, 71122), (243, 71134), (249, 71161), (250, 71164), (256, 71224), (257, 71233), (258, 71236), (260, 71248), (263, 71293), (271, 71362), (274, 71386), (300, 71542), (303, 71560), (308, 71584), (313, 71602), (330, 71698), (337, 71740), (339, 71746), (347, 71782), (349, 71791), (352, 71809), (353, 71815), (357, 71839), (358, 71845), (359, 71848), (363, 71866), (364, 71869), (383, 71962), (390, 72007), (391, 72013), (395, 72037), (396, 72040), (398, 72049), (399, 72055), (401, 72067), (418, 72184), (420, 72202), (421, 72205), (423, 72214), (446, 72328), (449, 72343), (474, 72490), (478, 72502), (480, 72508), (489, 72541), (497, 72574), (500, 72592), (503, 72604), (506, 72613), (525, 72727), (528, 72739), (532, 72754), (546, 72829), (547, 72838),

Gene: HangryHippo_80 Start: 59162, Stop: 62446, Start Num: 49

Candidate Starts for HangryHippo_80:

(Start: 49 @59162 has 71 MA's), (56, 59207), (60, 59237), (64, 59255), (Start: 65 @59261 has 1 MA's), (109, 59540), (127, 59642), (139, 59720), (159, 59825), (169, 59888), (171, 59894), (177, 59933), (200, 60050), (219, 60134), (242, 60260), (249, 60290), (253, 60329), (254, 60338), (278, 60536), (327, 60716), (345, 60821), (346, 60827), (347, 60833), (363, 60917), (369, 60947), (380, 60989), (383, 61016), (387, 61049), (390, 61061), (401, 61124), (410, 61196), (421, 61250), (423, 61259), (425, 61268), (427, 61277), (429, 61283), (474, 61526), (493, 61595), (496, 61607), (519, 61712), (559, 61907), (567, 61940), (577, 61991), (587, 62030), (588, 62036), (603, 62102), (616, 62150), (625, 62186), (633, 62231), (636, 62240), (644, 62282), (652, 62327), (653, 62330), (657, 62345),

Gene: Hippo_54 Start: 42468, Stop: 38983, Start Num: 47

Candidate Starts for Hippo_54:

(Start: 21 @42537 has 1 MA's), (Start: 47 @42468 has 171 MA's), (Start: 58 @42405 has 1 MA's), (59, 42396), (67, 42354), (81, 42261), (90, 42192), (102, 42123), (108, 42069), (122, 41997), (127, 41961), (138, 41901), (184, 41676), (192, 41637), (199, 41610), (203, 41592), (208, 41571), (212, 41556), (220, 41514), (233, 41436), (235, 41424), (261, 41238), (262, 41232), (269, 41187), (279, 41103), (281, 41085), (291, 41028), (292, 41025), (296, 41013), (326, 40875), (327, 40869), (328, 40854), (330, 40848), (336, 40815), (353, 40737), (359, 40704), (366, 40668), (386, 40563), (401, 40482), (402, 40476), (410, 40407), (420, 40344), (425, 40323), (433, 40278), (454, 40182), (455, 40173), (457, 40167), (474, 40065), (475, 40056), (480, 40044), (483, 40023), (492, 39993), (499, 39966), (513, 39900), (515, 39891), (517, 39879), (534, 39792), (570, 39624), (578, 39576), (604, 39465), (638, 39327), (640, 39318), (643, 39291), (654, 39243), (663, 39210), (666, 39183), (680, 39078), (681, 39066),

Gene: HyRo_197 Start: 112631, Stop: 116026, Start Num: 47

Candidate Starts for HyRo_197:

(Start: 14 @112538 has 47 MA's), (Start: 15 @112544 has 6 MA's), (Start: 18 @112556 has 8 MA's), (22, 112565), (Start: 47 @112631 has 171 MA's), (59, 112706), (78, 112820), (85, 112844), (95, 112904), (108, 112997), (113, 113015), (118, 113054), (125, 113078), (130, 113120), (148, 113219), (159, 113261), (161, 113267), (164, 113279), (173, 113342), (180, 113402), (181, 113405), (186, 113432), (195, 113474), (210, 113537), (236, 113693), (240, 113711), (243, 113726), (255, 113843), (260, 113882), (272, 114002), (278, 114044), (286, 114089), (288, 114098), (297, 114149), (306, 114191), (321, 114257), (322, 114266), (323, 114269), (324, 114275), (325, 114278), (326, 114287), (327, 114293), (328, 114308), (347, 114395), (367, 114500), (375, 114554), (384, 114641), (388, 114671), (393, 114701), (400, 114734), (402, 114743), (410, 114815), (414, 114845), (436, 114962), (443, 115007), (453, 115049), (479, 115193), (496, 115253), (518, 115355), (537, 115442), (538, 115445), (541, 115463), (547, 115499), (548, 115502), (568, 115562), (572, 115580), (591, 115676), (598, 115706), (602, 115724), (610, 115754), (635, 115847), (640, 115862), (656, 115943), (657, 115949), (661, 115961),

Gene: Hydra_54 Start: 40888, Stop: 37409, Start Num: 47

Candidate Starts for Hydra_54:

(Start: 21 @40957 has 1 MA's), (Start: 47 @40888 has 171 MA's), (59, 40816), (Start: 65 @40789 has 1 MA's), (67, 40774), (79, 40699), (90, 40612), (94, 40585), (96, 40579), (108, 40489), (112, 40474), (121, 40420), (122, 40417), (138, 40321), (163, 40243), (184, 40096), (192, 40057), (203, 40012), (208, 39991), (212, 39976), (220, 39934), (223, 39922), (233, 39856), (235, 39844), (247, 39781), (262, 39652), (263, 39643), (269, 39607), (279, 39523), (281, 39505), (291, 39448), (292, 39445), (296, 39433), (326, 39295), (327, 39289), (328, 39274), (330, 39268), (336, 39235), (353, 39157), (359, 39124), (386, 38983), (397, 38926), (401, 38902), (402, 38896), (410, 38827), (420, 38764), (433, 38698), (437, 38677), (442, 38659), (454, 38602), (455, 38593), (474, 38485), (475, 38476), (480, 38464), (483, 38443), (492, 38413), (499, 38386), (513, 38320), (515, 38311), (517, 38299),

(534, 38212), (539, 38188), (548, 38140), (578, 37996), (595, 37921), (638, 37747), (643, 37711), (654, 37663), (663, 37630),

Gene: I3_219 Start: 115274, Stop: 118762, Start Num: 14

Candidate Starts for I3_219:

(Start: 14 @115274 has 47 MA's), (Start: 15 @115280 has 6 MA's), (Start: 18 @115292 has 8 MA's), (22, 115301), (Start: 47 @115367 has 171 MA's), (59, 115442), (78, 115556), (85, 115580), (95, 115640), (113, 115751), (118, 115790), (125, 115814), (130, 115856), (148, 115955), (156, 115985), (159, 115997), (161, 116003), (164, 116015), (173, 116078), (180, 116138), (181, 116141), (186, 116168), (195, 116210), (210, 116273), (236, 116429), (240, 116447), (243, 116462), (255, 116579), (260, 116618), (272, 116738), (278, 116780), (286, 116825), (288, 116834), (297, 116885), (306, 116927), (321, 116993), (322, 117002), (323, 117005), (324, 117011), (325, 117014), (326, 117023), (327, 117029), (328, 117044), (347, 117131), (367, 117236), (375, 117290), (384, 117377), (388, 117407), (393, 117437), (400, 117470), (402, 117479), (410, 117551), (414, 117581), (436, 117698), (443, 117743), (453, 117785), (479, 117929), (496, 117989), (518, 118091), (537, 118178), (538, 118181), (541, 118199), (547, 118235), (548, 118238), (568, 118298), (572, 118316), (591, 118412), (598, 118442), (602, 118460), (610, 118490), (635, 118583), (640, 118598), (656, 118679), (657, 118685), (661, 118697),

Gene: IchabodCrane_79 Start: 58144, Stop: 61464, Start Num: 48

Candidate Starts for IchabodCrane_79:

(Start: 48 @58144 has 34 MA's), (57, 58195), (60, 58216), (Start: 65 @58240 has 1 MA's), (77, 58321), (109, 58519), (139, 58699), (146, 58747), (147, 58750), (159, 58804), (160, 58807), (168, 58855), (169, 58873), (172, 58882), (177, 58918), (198, 59026), (200, 59035), (242, 59245), (253, 59314), (272, 59479), (285, 59557), (304, 59626), (326, 59719), (347, 59842), (363, 59926), (378, 59989), (380, 59998), (410, 60202), (421, 60256), (423, 60265), (427, 60283), (429, 60289), (463, 60481), (469, 60505), (474, 60532), (499, 60640), (539, 60829), (555, 60907), (565, 60949), (569, 60967), (577, 61009), (587, 61048), (588, 61054), (594, 61081), (603, 61120), (616, 61168), (633, 61249), (640, 61270), (643, 61297), (644, 61300), (648, 61315), (653, 61348), (668, 61417),

Gene: IkeLoa_201 Start: 112032, Stop: 115427, Start Num: 47

Candidate Starts for IkeLoa_201:

(4, 111864), (Start: 14 @111939 has 47 MA's), (Start: 15 @111945 has 6 MA's), (Start: 18 @111957 has 8 MA's), (22, 111966), (Start: 47 @112032 has 171 MA's), (59, 112107), (78, 112221), (85, 112245), (95, 112305), (113, 112416), (118, 112455), (125, 112479), (130, 112521), (148, 112620), (159, 112662), (161, 112668), (164, 112680), (173, 112743), (180, 112803), (181, 112806), (186, 112833), (195, 112875), (210, 112938), (236, 113094), (240, 113112), (243, 113127), (255, 113244), (260, 113283), (272, 113403), (278, 113445), (286, 113490), (288, 113499), (297, 113550), (306, 113592), (321, 113658), (322, 113667), (323, 113670), (324, 113676), (325, 113679), (326, 113688), (327, 113694), (328, 113709), (347, 113796), (367, 113901), (375, 113955), (384, 114042), (388, 114072), (393, 114102), (400, 114135), (402, 114144), (410, 114216), (414, 114246), (436, 114363), (443, 114408), (453, 114450), (479, 114594), (496, 114654), (518, 114756), (537, 114843), (538, 114846), (541, 114864), (547, 114900), (548, 114903), (568, 114963), (572, 114981), (591, 115077), (598, 115107), (602, 115125), (610, 115155), (635, 115248), (640, 115263), (656, 115344), (657, 115350), (661, 115362),

Gene: Indigo_52 Start: 40232, Stop: 36753, Start Num: 47

Candidate Starts for Indigo_52:

(2, 40442), (Start: 47 @40232 has 171 MA's), (59, 40160), (Start: 65 @40133 has 1 MA's), (67, 40118), (90, 39956), (94, 39929), (96, 39923), (108, 39833), (112, 39818), (121, 39764), (122, 39761), (138, 39665), (163, 39587), (184, 39440), (192, 39401), (203, 39356), (208, 39335), (212, 39320), (220, 39278), (223, 39266), (233, 39200), (235, 39188), (247, 39125), (262, 38996), (263, 38987), (269, 38951), (279, 38867), (281, 38849), (291, 38792), (292, 38789), (296, 38777), (326, 38639), (327,

38633), (328, 38618), (330, 38612), (336, 38579), (353, 38501), (359, 38468), (386, 38327), (397, 38270), (401, 38246), (402, 38240), (410, 38171), (420, 38108), (433, 38042), (437, 38021), (442, 38003), (454, 37946), (455, 37937), (474, 37829), (475, 37820), (480, 37808), (483, 37787), (492, 37757), (499, 37730), (513, 37664), (515, 37655), (517, 37643), (534, 37556), (539, 37532), (548, 37484), (578, 37340), (595, 37265), (638, 37091), (643, 37055), (654, 37007), (663, 36974),

Gene: InigoMontoya_212 Start: 113041, Stop: 116436, Start Num: 47

Candidate Starts for InigoMontoya_212:

(Start: 14 @112948 has 47 MA's), (Start: 15 @112954 has 6 MA's), (Start: 18 @112966 has 8 MA's), (22, 112975), (Start: 47 @113041 has 171 MA's), (59, 113116), (78, 113230), (85, 113254), (95, 113314), (113, 113425), (118, 113464), (125, 113488), (130, 113530), (148, 113629), (159, 113671), (161, 113677), (164, 113689), (173, 113752), (180, 113812), (181, 113815), (186, 113842), (195, 113884), (210, 113947), (230, 114067), (236, 114103), (240, 114121), (243, 114136), (255, 114253), (260, 114292), (272, 114412), (278, 114454), (286, 114499), (288, 114508), (297, 114559), (306, 114601), (321, 114667), (322, 114676), (323, 114679), (324, 114685), (325, 114688), (326, 114697), (327, 114703), (328, 114718), (347, 114805), (367, 114910), (375, 114964), (384, 115051), (388, 115081), (393, 115111), (400, 115144), (402, 115153), (410, 115225), (414, 115255), (436, 115372), (443, 115417), (453, 115459), (479, 115603), (496, 115663), (518, 115765), (537, 115852), (538, 115855), (541, 115873), (547, 115909), (548, 115912), (568, 115972), (572, 115990), (591, 116086), (598, 116116), (602, 116134), (610, 116164), (635, 116257), (640, 116272), (656, 116353), (657, 116359), (661, 116371),

Gene: InterFolia_212 Start: 114739, Stop: 118134, Start Num: 47

Candidate Starts for InterFolia_212:

(Start: 14 @114646 has 47 MA's), (Start: 15 @114652 has 6 MA's), (Start: 18 @114664 has 8 MA's), (22, 114673), (Start: 47 @114739 has 171 MA's), (59, 114814), (78, 114928), (85, 114952), (95, 115012), (113, 115123), (118, 115162), (125, 115186), (130, 115228), (148, 115327), (159, 115369), (161, 115375), (164, 115387), (173, 115450), (180, 115510), (181, 115513), (186, 115540), (195, 115582), (210, 115645), (230, 115765), (236, 115801), (240, 115819), (243, 115834), (255, 115951), (260, 115990), (272, 116110), (278, 116152), (286, 116197), (288, 116206), (297, 116257), (306, 116299), (321, 116365), (322, 116374), (323, 116377), (324, 116383), (325, 116386), (326, 116395), (327, 116401), (328, 116416), (347, 116503), (367, 116608), (375, 116662), (384, 116749), (388, 116779), (393, 116809), (400, 116842), (402, 116851), (410, 116923), (414, 116953), (436, 117070), (443, 117115), (453, 117157), (479, 117301), (496, 117361), (518, 117463), (537, 117550), (538, 117553), (541, 117571), (547, 117607), (548, 117610), (568, 117670), (572, 117688), (591, 117784), (598, 117814), (602, 117832), (610, 117862), (635, 117955), (640, 117970), (656, 118051), (657, 118057), (661, 118069),

Gene: Iota_204 Start: 112726, Stop: 116121, Start Num: 47

Candidate Starts for Iota_204:

(Start: 14 @112633 has 47 MA's), (Start: 15 @112639 has 6 MA's), (Start: 18 @112651 has 8 MA's), (22, 112660), (Start: 47 @112726 has 171 MA's), (59, 112801), (78, 112915), (85, 112939), (95, 112999), (113, 113110), (118, 113149), (125, 113173), (130, 113215), (148, 113314), (159, 113356), (161, 113362), (164, 113374), (173, 113437), (180, 113497), (181, 113500), (186, 113527), (195, 113569), (210, 113632), (236, 113788), (240, 113806), (243, 113821), (255, 113938), (260, 113977), (272, 114097), (278, 114139), (286, 114184), (288, 114193), (297, 114244), (306, 114286), (321, 114352), (322, 114361), (323, 114364), (324, 114370), (325, 114373), (326, 114382), (327, 114388), (328, 114403), (347, 114490), (367, 114595), (375, 114649), (384, 114736), (388, 114766), (393, 114796), (400, 114829), (402, 114838), (410, 114910), (414, 114940), (436, 115057), (443, 115102), (453, 115144), (479, 115288), (496, 115348), (518, 115450), (537, 115537), (538, 115540), (541, 115558), (547, 115594), (548, 115597), (568, 115657), (572, 115675), (591, 115771), (598, 115801), (602, 115819), (610, 115849), (635, 115942), (640, 115957), (656, 116038), (657, 116044), (661, 116056),

Gene: Issimir_202 Start: 112556, Stop: 116074, Start Num: 6

Candidate Starts for Issimir_202:

(Start: 6 @112556 has 5 MA's), (Start: 14 @112586 has 47 MA's), (Start: 15 @112592 has 6 MA's), (Start: 18 @112604 has 8 MA's), (22, 112613), (Start: 47 @112679 has 171 MA's), (59, 112754), (78, 112868), (85, 112892), (95, 112952), (113, 113063), (118, 113102), (125, 113126), (130, 113168), (148, 113267), (159, 113309), (161, 113315), (164, 113327), (173, 113390), (180, 113450), (181, 113453), (186, 113480), (195, 113522), (210, 113585), (236, 113741), (240, 113759), (243, 113774), (255, 113891), (260, 113930), (272, 114050), (278, 114092), (286, 114137), (288, 114146), (297, 114197), (306, 114239), (321, 114305), (322, 114314), (323, 114317), (324, 114323), (325, 114326), (326, 114335), (327, 114341), (328, 114356), (347, 114443), (367, 114548), (375, 114602), (384, 114689), (388, 114719), (393, 114749), (400, 114782), (402, 114791), (410, 114863), (414, 114893), (436, 115010), (443, 115055), (453, 115097), (479, 115241), (496, 115301), (518, 115403), (537, 115490), (538, 115493), (541, 115511), (547, 115547), (548, 115550), (568, 115610), (572, 115628), (591, 115724), (598, 115754), (602, 115772), (610, 115802), (635, 115895), (640, 115910), (656, 115991), (657, 115997), (661, 116009),

Gene: Itza_54 Start: 38814, Stop: 35329, Start Num: 47

Candidate Starts for Itza_54:

(20, 38883), (24, 38874), (30, 38847), (Start: 47 @38814 has 171 MA's), (53, 38799), (55, 38787), (59, 38739), (62, 38727), (67, 38697), (75, 38646), (81, 38604), (84, 38571), (94, 38508), (115, 38373), (121, 38343), (122, 38340), (128, 38298), (138, 38244), (173, 38100), (184, 38019), (197, 37962), (199, 37953), (203, 37935), (208, 37914), (210, 37908), (220, 37857), (223, 37845), (233, 37779), (235, 37767), (241, 37740), (252, 37665), (261, 37581), (262, 37575), (281, 37428), (291, 37371), (292, 37368), (310, 37299), (314, 37290), (316, 37260), (317, 37257), (326, 37218), (327, 37212), (330, 37191), (336, 37158), (338, 37152), (353, 37080), (359, 37047), (362, 37035), (381, 36954), (386, 36906), (387, 36897), (396, 36852), (397, 36849), (401, 36825), (415, 36720), (420, 36687), (433, 36621), (454, 36525), (455, 36516), (474, 36408), (483, 36366), (492, 36336), (513, 36243), (515, 36234), (517, 36222), (518, 36219), (527, 36156), (531, 36150), (548, 36063), (553, 36042), (560, 36015), (573, 35937), (578, 35916), (589, 35868), (595, 35841), (629, 35697), (641, 35652), (664, 35535), (665, 35532), (677, 35445), (681, 35406), (682, 35400), (688, 35343), (689, 35334),

Gene: Izajani_207 Start: 113548, Stop: 116943, Start Num: 47

Candidate Starts for Izajani_207:

(Start: 14 @113455 has 47 MA's), (Start: 15 @113461 has 6 MA's), (Start: 18 @113473 has 8 MA's), (22, 113482), (Start: 47 @113548 has 171 MA's), (59, 113623), (78, 113737), (85, 113761), (95, 113821), (113, 113932), (118, 113971), (125, 113995), (130, 114037), (148, 114136), (159, 114178), (161, 114184), (164, 114196), (173, 114259), (180, 114319), (181, 114322), (186, 114349), (195, 114391), (210, 114454), (230, 114574), (236, 114610), (240, 114628), (243, 114643), (255, 114760), (260, 114799), (272, 114919), (278, 114961), (286, 115006), (288, 115015), (297, 115066), (306, 115108), (321, 115174), (322, 115183), (323, 115186), (324, 115192), (325, 115195), (326, 115204), (327, 115210), (328, 115225), (347, 115312), (367, 115417), (375, 115471), (384, 115558), (388, 115588), (393, 115618), (400, 115651), (402, 115660), (410, 115732), (414, 115762), (436, 115879), (443, 115924), (453, 115966), (479, 116110), (496, 116170), (518, 116272), (537, 116359), (538, 116362), (541, 116380), (547, 116416), (548, 116419), (568, 116479), (572, 116497), (591, 116593), (598, 116623), (602, 116641), (610, 116671), (635, 116764), (640, 116779), (656, 116860), (657, 116866), (661, 116878),

Gene: Izzy_55 Start: 40773, Stop: 37294, Start Num: 47

Candidate Starts for Izzy_55:

(Start: 21 @40842 has 1 MA's), (Start: 47 @40773 has 171 MA's), (59, 40701), (Start: 65 @40674 has 1 MA's), (67, 40659), (90, 40497), (94, 40470), (96, 40464), (108, 40374), (112, 40359), (121, 40305), (122, 40302), (138, 40206), (163, 40128), (184, 39981), (192, 39942), (203, 39897), (208, 39876),

(212, 39861), (220, 39819), (223, 39807), (233, 39741), (235, 39729), (247, 39666), (262, 39537), (263, 39528), (269, 39492), (279, 39408), (281, 39390), (291, 39333), (292, 39330), (296, 39318), (326, 39180), (327, 39174), (328, 39159), (330, 39153), (338, 39114), (353, 39042), (359, 39009), (383, 38892), (386, 38868), (397, 38811), (401, 38787), (402, 38781), (410, 38712), (420, 38649), (433, 38583), (437, 38562), (442, 38544), (454, 38487), (455, 38478), (474, 38370), (475, 38361), (480, 38349), (483, 38328), (492, 38298), (499, 38271), (513, 38205), (515, 38196), (517, 38184), (534, 38097), (539, 38073), (548, 38025), (578, 37881), (595, 37806), (638, 37632), (643, 37596), (654, 37548), (663, 37515),

Gene: JPickles_205 Start: 110933, Stop: 114421, Start Num: 14

Candidate Starts for JPickles_205:

(Start: 14 @110933 has 47 MA's), (Start: 15 @110939 has 6 MA's), (Start: 18 @110951 has 8 MA's), (22, 110960), (Start: 47 @111026 has 171 MA's), (59, 111101), (78, 111215), (85, 111239), (95, 111299), (113, 111410), (118, 111449), (125, 111473), (130, 111515), (148, 111614), (159, 111656), (161, 111662), (164, 111674), (173, 111737), (180, 111797), (181, 111800), (186, 111827), (195, 111869), (210, 111932), (236, 112088), (240, 112106), (243, 112121), (255, 112238), (260, 112277), (272, 112397), (278, 112439), (286, 112484), (288, 112493), (297, 112544), (306, 112586), (321, 112652), (322, 112661), (323, 112664), (324, 112670), (325, 112673), (326, 112682), (327, 112688), (328, 112703), (347, 112790), (367, 112895), (375, 112949), (384, 113036), (388, 113066), (393, 113096), (400, 113129), (402, 113138), (410, 113210), (414, 113240), (436, 113357), (443, 113402), (453, 113444), (479, 113588), (496, 113648), (518, 113750), (537, 113837), (538, 113840), (541, 113858), (547, 113894), (548, 113897), (568, 113957), (572, 113975), (591, 114071), (598, 114101), (602, 114119), (610, 114149), (635, 114242), (640, 114257), (656, 114338), (657, 114344), (661, 114356),

Gene: Jada_60 Start: 48523, Stop: 51813, Start Num: 49

Candidate Starts for Jada_60:

(Start: 49 @48523 has 71 MA's), (54, 48538), (55, 48544), (60, 48595), (Start: 65 @48619 has 1 MA's), (97, 48808), (109, 48898), (120, 48958), (139, 49078), (159, 49183), (169, 49246), (171, 49252), (177, 49291), (232, 49564), (242, 49618), (249, 49648), (253, 49687), (259, 49735), (320, 50035), (327, 50074), (345, 50179), (346, 50185), (347, 50191), (353, 50224), (356, 50239), (359, 50257), (362, 50269), (363, 50275), (370, 50308), (378, 50338), (380, 50347), (388, 50413), (390, 50419), (391, 50428), (401, 50482), (410, 50554), (421, 50608), (423, 50617), (427, 50635), (429, 50641), (453, 50755), (460, 50821), (463, 50833), (476, 50893), (478, 50896), (495, 50959), (496, 50965), (498, 50971), (520, 51076), (528, 51124), (529, 51127), (544, 51196), (559, 51265), (561, 51274), (576, 51343), (577, 51349), (582, 51361), (588, 51394), (589, 51397), (603, 51460), (606, 51469), (611, 51490), (614, 51502), (625, 51544), (644, 51640), (650, 51676), (652, 51685), (657, 51703), (675, 51799),

Gene: Janiyra_212 Start: 113266, Stop: 116661, Start Num: 47

Candidate Starts for Janiyra_212:

(Start: 14 @113173 has 47 MA's), (Start: 15 @113179 has 6 MA's), (Start: 18 @113191 has 8 MA's), (22, 113200), (Start: 47 @113266 has 171 MA's), (59, 113341), (78, 113455), (85, 113479), (95, 113539), (113, 113650), (118, 113689), (125, 113713), (130, 113755), (148, 113854), (159, 113896), (161, 113902), (164, 113914), (173, 113977), (180, 114037), (181, 114040), (186, 114067), (195, 114109), (210, 114172), (230, 114292), (236, 114328), (240, 114346), (243, 114361), (255, 114478), (260, 114517), (272, 114637), (278, 114679), (286, 114724), (288, 114733), (297, 114784), (306, 114826), (321, 114892), (322, 114901), (323, 114904), (324, 114910), (325, 114913), (326, 114922), (327, 114928), (328, 114943), (347, 115030), (367, 115135), (375, 115189), (384, 115276), (388, 115306), (393, 115336), (400, 115369), (402, 115378), (410, 115450), (414, 115480), (436, 115597), (443, 115642), (453, 115684), (479, 115828), (496, 115888), (518, 115990), (537, 116077), (538, 116080), (541, 116098), (547, 116134), (548, 116137), (568, 116197), (572, 116215), (591, 116311), (598, 116341), (602, 116359), (610, 116389), (635, 116482), (640, 116497), (656, 116578), (657,

116584), (661, 116596),

Gene: Jash_55 Start: 40726, Stop: 37247, Start Num: 47

Candidate Starts for Jash_55:

(Start: 21 @40795 has 1 MA's), (Start: 47 @40726 has 171 MA's), (59, 40654), (Start: 65 @40627 has 1 MA's), (67, 40612), (90, 40450), (94, 40423), (96, 40417), (108, 40327), (112, 40312), (121, 40258), (122, 40255), (138, 40159), (163, 40081), (184, 39934), (192, 39895), (203, 39850), (208, 39829), (212, 39814), (220, 39772), (223, 39760), (233, 39694), (235, 39682), (247, 39619), (262, 39490), (263, 39481), (269, 39445), (279, 39361), (281, 39343), (291, 39286), (292, 39283), (296, 39271), (326, 39133), (327, 39127), (328, 39112), (330, 39106), (338, 39067), (353, 38995), (359, 38962), (383, 38845), (386, 38821), (397, 38764), (401, 38740), (402, 38734), (410, 38665), (420, 38602), (433, 38536), (437, 38515), (442, 38497), (454, 38440), (455, 38431), (474, 38323), (475, 38314), (480, 38302), (483, 38281), (492, 38251), (499, 38224), (513, 38158), (515, 38149), (517, 38137), (534, 38050), (539, 38026), (548, 37978), (578, 37834), (595, 37759), (638, 37585), (643, 37549), (654, 37501), (663, 37468),

Gene: Jay2Jay_84 Start: 59915, Stop: 63199, Start Num: 49

Candidate Starts for Jay2Jay_84:

(Start: 49 @59915 has 71 MA's), (56, 59960), (60, 59990), (64, 60008), (Start: 65 @60014 has 1 MA's), (75, 60080), (109, 60293), (139, 60473), (159, 60578), (169, 60641), (171, 60647), (177, 60686), (193, 60776), (200, 60803), (223, 60902), (242, 61013), (249, 61043), (253, 61082), (285, 61325), (290, 61355), (327, 61469), (328, 61484), (346, 61580), (347, 61586), (363, 61670), (378, 61733), (380, 61742), (383, 61769), (390, 61814), (401, 61877), (410, 61949), (421, 62003), (423, 62012), (425, 62021), (427, 62030), (429, 62036), (460, 62216), (474, 62279), (493, 62348), (519, 62465), (538, 62555), (545, 62597), (559, 62660), (567, 62693), (577, 62744), (587, 62783), (588, 62789), (603, 62855), (616, 62903), (625, 62939), (633, 62984), (636, 62993), (644, 63035), (653, 63083), (657, 63098),

Gene: JayJay_211 Start: 113963, Stop: 117358, Start Num: 47

Candidate Starts for JayJay_211:

(Start: 14 @113870 has 47 MA's), (Start: 15 @113876 has 6 MA's), (Start: 18 @113888 has 8 MA's), (22, 113897), (Start: 47 @113963 has 171 MA's), (59, 114038), (78, 114152), (85, 114176), (95, 114236), (113, 114347), (118, 114386), (125, 114410), (130, 114452), (148, 114551), (159, 114593), (161, 114599), (164, 114611), (173, 114674), (180, 114734), (181, 114737), (186, 114764), (195, 114806), (210, 114869), (230, 114989), (236, 115025), (240, 115043), (243, 115058), (255, 115175), (260, 115214), (272, 115334), (278, 115376), (286, 115421), (288, 115430), (297, 115481), (306, 115523), (321, 115589), (322, 115598), (323, 115601), (324, 115607), (325, 115610), (326, 115619), (327, 115625), (328, 115640), (347, 115727), (367, 115832), (375, 115886), (384, 115973), (388, 116003), (393, 116033), (400, 116066), (402, 116075), (410, 116147), (414, 116177), (436, 116294), (443, 116339), (453, 116381), (496, 116585), (518, 116687), (537, 116774), (538, 116777), (541, 116795), (547, 116831), (548, 116834), (568, 116894), (572, 116912), (591, 117008), (598, 117038), (602, 117056), (610, 117086), (635, 117179), (640, 117194), (656, 117275), (657, 117281), (661, 117293),

Gene: Jaygup_205 Start: 112012, Stop: 115482, Start Num: 18

Candidate Starts for Jaygup_205:

(Start: 14 @111994 has 47 MA's), (Start: 15 @112000 has 6 MA's), (Start: 18 @112012 has 8 MA's), (22, 112021), (Start: 47 @112087 has 171 MA's), (59, 112162), (78, 112276), (85, 112300), (95, 112360), (113, 112471), (118, 112510), (125, 112534), (130, 112576), (148, 112675), (159, 112717), (161, 112723), (164, 112735), (173, 112798), (180, 112858), (181, 112861), (186, 112888), (195, 112930), (210, 112993), (236, 113149), (240, 113167), (243, 113182), (255, 113299), (260, 113338), (272, 113458), (278, 113500), (286, 113545), (288, 113554), (297, 113605), (306, 113647), (321, 113713), (322, 113722), (323, 113725), (324, 113731), (325, 113734), (326, 113743), (327, 113749),

(328, 113764), (347, 113851), (367, 113956), (375, 114010), (384, 114097), (388, 114127), (393, 114157), (400, 114190), (402, 114199), (410, 114271), (414, 114301), (436, 114418), (443, 114463), (453, 114505), (479, 114649), (496, 114709), (518, 114811), (537, 114898), (538, 114901), (541, 114919), (547, 114955), (548, 114958), (568, 115018), (572, 115036), (591, 115132), (598, 115162), (602, 115180), (610, 115210), (635, 115303), (640, 115318), (656, 115399), (657, 115405), (661, 115417),

Gene: JeanGrey_95 Start: 74979, Stop: 78152, Start Num: 38

Candidate Starts for JeanGrey_95:

(38, 74979), (56, 75033), (67, 75102), (91, 75231), (99, 75279), (107, 75339), (121, 75411), (129, 75459), (132, 75471), (136, 75498), (148, 75564), (150, 75570), (151, 75573), (156, 75594), (173, 75687), (180, 75741), (181, 75744), (186, 75771), (210, 75873), (230, 75993), (241, 76050), (247, 76089), (249, 76092), (250, 76095), (254, 76140), (255, 76143), (263, 76227), (269, 76263), (270, 76275), (282, 76368), (288, 76398), (307, 76467), (311, 76488), (321, 76530), (322, 76539), (324, 76548), (380, 76824), (386, 76875), (405, 76983), (408, 77028), (410, 77031), (433, 77148), (435, 77157), (438, 77172), (465, 77343), (478, 77403), (479, 77406), (552, 77733), (598, 77832), (602, 77850), (635, 77973), (660, 78084), (670, 78132),

Gene: Jedediah_209 Start: 113047, Stop: 116535, Start Num: 14

Candidate Starts for Jedediah_209:

(Start: 14 @113047 has 47 MA's), (Start: 15 @113053 has 6 MA's), (Start: 18 @113065 has 8 MA's), (22, 113074), (Start: 47 @113140 has 171 MA's), (59, 113215), (78, 113329), (85, 113353), (95, 113413), (113, 113524), (118, 113563), (125, 113587), (130, 113629), (148, 113728), (159, 113770), (161, 113776), (164, 113788), (173, 113851), (180, 113911), (181, 113914), (186, 113941), (195, 113983), (210, 114046), (236, 114202), (240, 114220), (243, 114235), (255, 114352), (260, 114391), (272, 114511), (278, 114553), (286, 114598), (288, 114607), (297, 114658), (306, 114700), (321, 114766), (322, 114775), (323, 114778), (324, 114784), (325, 114787), (326, 114796), (327, 114802), (328, 114817), (347, 114904), (367, 115009), (375, 115063), (384, 115150), (388, 115180), (393, 115210), (400, 115243), (402, 115252), (410, 115324), (414, 115354), (436, 115471), (443, 115516), (453, 115558), (479, 115702), (496, 115762), (518, 115864), (537, 115951), (538, 115954), (541, 115972), (547, 116008), (548, 116011), (568, 116071), (572, 116089), (591, 116185), (598, 116215), (602, 116233), (610, 116263), (635, 116356), (640, 116371), (656, 116452), (657, 116458), (661, 116470),

Gene: Jemmno_208 Start: 111894, Stop: 115364, Start Num: 18

Candidate Starts for Jemmno_208:

(Start: 14 @111876 has 47 MA's), (Start: 15 @111882 has 6 MA's), (Start: 18 @111894 has 8 MA's), (22, 111903), (Start: 47 @111969 has 171 MA's), (59, 112044), (78, 112158), (85, 112182), (95, 112242), (113, 112353), (118, 112392), (125, 112416), (130, 112458), (148, 112557), (159, 112599), (161, 112605), (164, 112617), (173, 112680), (180, 112740), (181, 112743), (186, 112770), (195, 112812), (210, 112875), (230, 112995), (236, 113031), (240, 113049), (243, 113064), (255, 113181), (260, 113220), (272, 113340), (278, 113382), (286, 113427), (288, 113436), (297, 113487), (306, 113529), (321, 113595), (322, 113604), (323, 113607), (324, 113613), (325, 113616), (326, 113625), (327, 113631), (328, 113646), (347, 113733), (367, 113838), (375, 113892), (384, 113979), (388, 114009), (393, 114039), (400, 114072), (402, 114081), (410, 114153), (414, 114183), (436, 114300), (443, 114345), (453, 114387), (479, 114531), (496, 114591), (518, 114693), (537, 114780), (538, 114783), (541, 114801), (547, 114837), (548, 114840), (568, 114900), (572, 114918), (591, 115014), (598, 115044), (602, 115062), (610, 115092), (635, 115185), (640, 115200), (656, 115281), (657, 115287), (661, 115299),

Gene: Jessibeth14_209 Start: 114157, Stop: 117552, Start Num: 47

Candidate Starts for Jessibeth14_209:

(Start: 14 @114064 has 47 MA's), (Start: 15 @114070 has 6 MA's), (Start: 18 @114082 has 8 MA's), (22, 114091), (Start: 47 @114157 has 171 MA's), (59, 114232), (78, 114346), (85, 114370), (95, 114430), (113, 114541), (118, 114580), (125, 114604), (130, 114646), (148, 114745), (159, 114787), (161, 114793), (164, 114805), (173, 114868), (180, 114928), (181, 114931), (186, 114958), (195, 115000), (210, 115063), (230, 115183), (236, 115219), (240, 115237), (243, 115252), (255, 115369), (260, 115408), (272, 115528), (278, 115570), (286, 115615), (288, 115624), (297, 115675), (306, 115717), (321, 115783), (322, 115792), (323, 115795), (324, 115801), (325, 115804), (326, 115813), (327, 115819), (328, 115834), (347, 115921), (367, 116026), (375, 116080), (384, 116167), (388, 116197), (393, 116227), (400, 116260), (402, 116269), (410, 116341), (414, 116371), (436, 116488), (443, 116533), (453, 116575), (479, 116719), (496, 116779), (518, 116881), (537, 116968), (538, 116971), (541, 116989), (547, 117025), (548, 117028), (568, 117088), (572, 117106), (591, 117202), (598, 117232), (602, 117250), (610, 117280), (635, 117373), (640, 117388), (656, 117469), (657, 117475), (661, 117487),

Gene: Jezreel_206 Start: 113134, Stop: 116622, Start Num: 14

Candidate Starts for Jezreel_206:

(Start: 14 @113134 has 47 MA's), (Start: 15 @113140 has 6 MA's), (Start: 18 @113152 has 8 MA's), (22, 113161), (Start: 47 @113227 has 171 MA's), (59, 113302), (78, 113416), (85, 113440), (95, 113500), (113, 113611), (118, 113650), (125, 113674), (130, 113716), (148, 113815), (159, 113857), (161, 113863), (164, 113875), (173, 113938), (180, 113998), (181, 114001), (186, 114028), (195, 114070), (210, 114133), (236, 114289), (240, 114307), (243, 114322), (255, 114439), (260, 114478), (272, 114598), (278, 114640), (286, 114685), (288, 114694), (297, 114745), (306, 114787), (321, 114853), (322, 114862), (323, 114865), (324, 114871), (325, 114874), (326, 114883), (327, 114889), (328, 114904), (347, 114991), (367, 115096), (375, 115150), (384, 115237), (388, 115267), (393, 115297), (400, 115330), (402, 115339), (410, 115411), (414, 115441), (436, 115558), (443, 115603), (453, 115645), (479, 115789), (496, 115849), (518, 115951), (537, 116038), (538, 116041), (541, 116059), (547, 116095), (548, 116098), (568, 116158), (572, 116176), (591, 116272), (598, 116302), (602, 116320), (610, 116350), (635, 116443), (640, 116458), (656, 116539), (657, 116545), (661, 116557),

Gene: JigglyPuff_216 Start: 115537, Stop: 118932, Start Num: 47

Candidate Starts for JigglyPuff_216:

(Start: 14 @115444 has 47 MA's), (Start: 15 @115450 has 6 MA's), (Start: 18 @115462 has 8 MA's), (22, 115471), (Start: 47 @115537 has 171 MA's), (59, 115612), (78, 115726), (85, 115750), (95, 115810), (113, 115921), (118, 115960), (125, 115984), (130, 116026), (148, 116125), (159, 116167), (161, 116173), (164, 116185), (173, 116248), (180, 116308), (181, 116311), (186, 116338), (195, 116380), (210, 116443), (236, 116599), (240, 116617), (243, 116632), (255, 116749), (260, 116788), (272, 116908), (278, 116950), (286, 116995), (288, 117004), (297, 117055), (306, 117097), (321, 117163), (322, 117172), (323, 117175), (324, 117181), (325, 117184), (326, 117193), (327, 117199), (328, 117214), (347, 117301), (367, 117406), (375, 117460), (384, 117547), (388, 117577), (393, 117607), (400, 117640), (402, 117649), (410, 117721), (414, 117751), (436, 117868), (443, 117913), (453, 117955), (479, 118099), (496, 118159), (518, 118261), (537, 118348), (538, 118351), (541, 118369), (547, 118405), (548, 118408), (568, 118468), (572, 118486), (591, 118582), (598, 118612), (602, 118630), (610, 118660), (635, 118753), (640, 118768), (656, 118849), (657, 118855), (661, 118867),

Gene: JimJam_82 Start: 58518, Stop: 61838, Start Num: 48

Candidate Starts for JimJam_82:

(Start: 48 @58518 has 34 MA's), (57, 58569), (60, 58590), (Start: 65 @58614 has 1 MA's), (77, 58695), (109, 58893), (139, 59073), (146, 59121), (147, 59124), (159, 59178), (168, 59229), (169, 59247), (172, 59256), (177, 59292), (198, 59400), (200, 59409), (242, 59619), (253, 59688), (272, 59853), (285, 59931), (304, 60000), (326, 60093), (347, 60216), (363, 60300), (378, 60363), (380, 60372), (410, 60576), (421, 60630), (423, 60639), (427, 60657), (429, 60663), (463, 60855), (469, 60879),

(474, 60906), (499, 61014), (539, 61203), (555, 61281), (565, 61323), (569, 61341), (577, 61383), (587, 61422), (588, 61428), (594, 61455), (603, 61494), (616, 61542), (633, 61623), (640, 61644), (643, 61671), (644, 61674), (648, 61689), (653, 61722), (668, 61791),

Gene: Jollison_81 Start: 58400, Stop: 61720, Start Num: 48

Candidate Starts for Jollison_81:

(Start: 48 @58400 has 34 MA's), (57, 58451), (60, 58472), (Start: 65 @58496 has 1 MA's), (77, 58577), (109, 58775), (139, 58955), (146, 59003), (159, 59060), (168, 59111), (169, 59129), (172, 59138), (177, 59174), (198, 59282), (200, 59291), (242, 59501), (253, 59570), (272, 59735), (285, 59813), (326, 59975), (347, 60098), (351, 60122), (363, 60182), (378, 60245), (380, 60254), (410, 60458), (421, 60512), (423, 60521), (427, 60539), (429, 60545), (461, 60728), (463, 60737), (469, 60761), (474, 60788), (499, 60896), (539, 61085), (555, 61163), (565, 61205), (569, 61223), (577, 61265), (587, 61304), (588, 61310), (594, 61337), (603, 61376), (616, 61424), (617, 61433), (633, 61505), (640, 61526), (643, 61553), (644, 61556), (648, 61571), (653, 61604), (668, 61673),

Gene: JulietS_200 Start: 110258, Stop: 113653, Start Num: 47

Candidate Starts for JulietS_200:

(Start: 6 @110135 has 5 MA's), (Start: 14 @110165 has 47 MA's), (Start: 15 @110171 has 6 MA's), (Start: 18 @110183 has 8 MA's), (22, 110192), (Start: 47 @110258 has 171 MA's), (59, 110333), (78, 110447), (85, 110471), (95, 110531), (113, 110642), (118, 110681), (125, 110705), (130, 110747), (148, 110846), (159, 110888), (161, 110894), (164, 110906), (173, 110969), (180, 111029), (181, 111032), (186, 111059), (195, 111101), (210, 111164), (230, 111284), (236, 111320), (240, 111338), (243, 111353), (255, 111470), (260, 111509), (272, 111629), (278, 111671), (286, 111716), (288, 111725), (297, 111776), (306, 111818), (321, 111884), (322, 111893), (323, 111896), (324, 111902), (325, 111905), (326, 111914), (327, 111920), (328, 111935), (347, 112022), (367, 112127), (375, 112181), (384, 112268), (388, 112298), (393, 112328), (400, 112361), (402, 112370), (410, 112442), (414, 112472), (436, 112589), (443, 112634), (453, 112676), (479, 112820), (496, 112880), (518, 112982), (537, 113069), (538, 113072), (541, 113090), (547, 113126), (548, 113129), (568, 113189), (572, 113207), (591, 113303), (598, 113333), (602, 113351), (610, 113381), (635, 113474), (640, 113489), (656, 113570), (657, 113576), (661, 113588),

Gene: JustHall_203 Start: 112173, Stop: 115568, Start Num: 47

Candidate Starts for JustHall_203:

(Start: 14 @112080 has 47 MA's), (Start: 15 @112086 has 6 MA's), (Start: 18 @112098 has 8 MA's), (22, 112107), (Start: 47 @112173 has 171 MA's), (59, 112248), (78, 112362), (85, 112386), (95, 112446), (113, 112557), (118, 112596), (125, 112620), (130, 112662), (148, 112761), (159, 112803), (161, 112809), (164, 112821), (173, 112884), (180, 112944), (181, 112947), (186, 112974), (195, 113016), (210, 113079), (230, 113199), (236, 113235), (240, 113253), (243, 113268), (255, 113385), (260, 113424), (272, 113544), (278, 113586), (286, 113631), (288, 113640), (297, 113691), (306, 113733), (321, 113799), (322, 113808), (323, 113811), (324, 113817), (325, 113820), (326, 113829), (327, 113835), (328, 113850), (347, 113937), (367, 114042), (375, 114096), (384, 114183), (388, 114213), (393, 114243), (400, 114276), (402, 114285), (410, 114357), (414, 114387), (436, 114504), (443, 114549), (453, 114591), (479, 114735), (496, 114795), (518, 114897), (537, 114984), (538, 114987), (541, 115005), (547, 115041), (548, 115044), (568, 115104), (572, 115122), (591, 115218), (598, 115248), (602, 115266), (610, 115296), (635, 115389), (640, 115404), (656, 115485), (657, 115491), (661, 115503),

Gene: Kabocha_99 Start: 71499, Stop: 74312, Start Num: 40

Candidate Starts for Kabocha_99:

(Start: 33 @71484 has 1 MA's), (Start: 37 @71496 has 1 MA's), (Start: 40 @71499 has 5 MA's), (59, 71592), (68, 71652), (93, 71802), (94, 71805), (96, 71811), (110, 71910), (114, 71940), (115, 71943), (126, 72006), (130, 72027), (131, 72030), (136, 72057), (161, 72174), (163, 72183), (170, 72240), (173, 72249), (182, 72315), (196, 72381), (233, 72546), (236, 72564), (239, 72579), (241, 72585),

(243, 72597), (249, 72624), (250, 72627), (256, 72687), (257, 72696), (258, 72699), (260, 72711), (263, 72756), (271, 72825), (274, 72849), (300, 73005), (303, 73023), (308, 73047), (313, 73065), (330, 73161), (337, 73203), (339, 73209), (347, 73245), (349, 73254), (352, 73272), (353, 73278), (357, 73302), (358, 73308), (359, 73311), (363, 73329), (364, 73332), (383, 73425), (390, 73470), (391, 73476), (395, 73500), (396, 73503), (398, 73512), (399, 73518), (401, 73530), (418, 73647), (420, 73665), (421, 73668), (423, 73677), (446, 73791), (449, 73806), (474, 73953), (478, 73965), (480, 73971), (489, 74004), (497, 74037), (500, 74055), (503, 74067), (506, 74076), (525, 74190), (528, 74202), (532, 74217), (546, 74292), (547, 74301),

Gene: Kamryn_208 Start: 113803, Stop: 117198, Start Num: 47

Candidate Starts for Kamryn_208:

(Start: 14 @113710 has 47 MA's), (Start: 15 @113716 has 6 MA's), (Start: 18 @113728 has 8 MA's), (22, 113737), (Start: 47 @113803 has 171 MA's), (59, 113878), (78, 113992), (85, 114016), (95, 114076), (113, 114187), (118, 114226), (125, 114250), (130, 114292), (148, 114391), (159, 114433), (161, 114439), (164, 114451), (173, 114514), (180, 114574), (181, 114577), (186, 114604), (195, 114646), (210, 114709), (236, 114865), (240, 114883), (243, 114898), (255, 115015), (260, 115054), (272, 115174), (278, 115216), (286, 115261), (288, 115270), (297, 115321), (306, 115363), (321, 115429), (322, 115438), (323, 115441), (324, 115447), (325, 115450), (326, 115459), (327, 115465), (328, 115480), (347, 115567), (367, 115672), (375, 115726), (384, 115813), (388, 115843), (393, 115873), (400, 115906), (402, 115915), (410, 115987), (414, 116017), (436, 116134), (443, 116179), (453, 116221), (479, 116365), (496, 116425), (518, 116527), (537, 116614), (538, 116617), (541, 116635), (547, 116671), (548, 116674), (568, 116734), (572, 116752), (591, 116848), (598, 116878), (602, 116896), (610, 116926), (635, 117019), (640, 117034), (656, 117115), (657, 117121), (661, 117133),

Gene: Karimac_81 Start: 58549, Stop: 61869, Start Num: 48

Candidate Starts for Karimac_81:

(Start: 48 @58549 has 34 MA's), (57, 58600), (60, 58621), (Start: 65 @58645 has 1 MA's), (77, 58726), (109, 58924), (139, 59104), (146, 59152), (147, 59155), (159, 59209), (168, 59260), (169, 59278), (172, 59287), (177, 59323), (198, 59431), (200, 59440), (242, 59650), (253, 59719), (272, 59884), (285, 59962), (304, 60031), (326, 60124), (347, 60247), (363, 60331), (378, 60394), (380, 60403), (410, 60607), (421, 60661), (423, 60670), (427, 60688), (429, 60694), (463, 60886), (469, 60910), (474, 60937), (499, 61045), (539, 61234), (555, 61312), (565, 61354), (569, 61372), (577, 61414), (587, 61453), (588, 61459), (594, 61486), (603, 61525), (616, 61573), (633, 61654), (640, 61675), (643, 61702), (644, 61705), (648, 61720), (653, 61753), (668, 61822),

Gene: Karp_59 Start: 49450, Stop: 52740, Start Num: 49

Candidate Starts for Karp_59:

(Start: 40 @49432 has 5 MA's), (Start: 49 @49450 has 71 MA's), (54, 49465), (55, 49471), (57, 49501), (60, 49522), (64, 49540), (Start: 65 @49546 has 1 MA's), (92, 49714), (99, 49756), (109, 49825), (120, 49885), (138, 49999), (139, 50005), (159, 50110), (169, 50173), (171, 50179), (177, 50218), (216, 50407), (228, 50464), (232, 50491), (241, 50536), (281, 50842), (289, 50878), (320, 50962), (327, 51001), (345, 51106), (347, 51118), (353, 51151), (358, 51181), (359, 51184), (362, 51196), (363, 51202), (380, 51274), (388, 51340), (390, 51346), (401, 51409), (410, 51481), (421, 51535), (423, 51544), (427, 51562), (429, 51568), (453, 51682), (460, 51748), (463, 51760), (476, 51820), (478, 51823), (493, 51880), (495, 51886), (498, 51898), (508, 51934), (520, 52003), (561, 52201), (569, 52234), (576, 52270), (577, 52276), (582, 52288), (599, 52369), (603, 52387), (606, 52396), (611, 52417), (618, 52447), (630, 52504), (644, 52567), (657, 52630),

Gene: Katalie_54 Start: 42740, Stop: 39261, Start Num: 47

Candidate Starts for Katalie_54:

(Start: 21 @42806 has 1 MA's), (Start: 47 @42740 has 171 MA's), (Start: 58 @42677 has 1 MA's), (59, 42668), (62, 42656), (67, 42626), (81, 42533), (84, 42500), (90, 42464), (102, 42395), (108, 42341),

(122, 42269), (138, 42173), (163, 42095), (184, 41948), (192, 41909), (203, 41864), (208, 41843), (212, 41828), (215, 41807), (233, 41708), (235, 41696), (247, 41633), (261, 41510), (262, 41504), (269, 41459), (279, 41375), (281, 41357), (291, 41300), (292, 41297), (296, 41285), (326, 41147), (328, 41126), (330, 41120), (333, 41105), (342, 41063), (352, 41015), (353, 41009), (359, 40976), (386, 40835), (397, 40778), (401, 40754), (402, 40748), (410, 40679), (419, 40631), (420, 40616), (425, 40595), (433, 40550), (454, 40454), (455, 40445), (474, 40337), (475, 40328), (480, 40316), (483, 40295), (492, 40265), (499, 40238), (515, 40163), (517, 40151), (534, 40064), (539, 40040), (578, 39848), (604, 39737), (638, 39599), (643, 39563), (654, 39515), (656, 39509), (663, 39482), (680, 39350), (681, 39338), (682, 39332), (688, 39275),

Gene: Kboogie_213 Start: 112831, Stop: 116226, Start Num: 47

Candidate Starts for Kboogie_213:

(Start: 14 @112738 has 47 MA's), (Start: 15 @112744 has 6 MA's), (Start: 18 @112756 has 8 MA's), (22, 112765), (Start: 47 @112831 has 171 MA's), (59, 112906), (78, 113020), (85, 113044), (95, 113104), (113, 113215), (118, 113254), (125, 113278), (130, 113320), (148, 113419), (159, 113461), (161, 113467), (164, 113479), (173, 113542), (180, 113602), (181, 113605), (186, 113632), (195, 113674), (210, 113737), (230, 113857), (236, 113893), (240, 113911), (243, 113926), (255, 114043), (260, 114082), (272, 114202), (278, 114244), (286, 114289), (288, 114298), (297, 114349), (306, 114391), (321, 114457), (322, 114466), (323, 114469), (324, 114475), (325, 114478), (326, 114487), (327, 114493), (328, 114508), (347, 114595), (367, 114700), (375, 114754), (384, 114841), (388, 114871), (393, 114901), (400, 114934), (402, 114943), (410, 115015), (414, 115045), (436, 115162), (443, 115207), (453, 115249), (479, 115393), (496, 115453), (518, 115555), (537, 115642), (538, 115645), (541, 115663), (547, 115699), (548, 115702), (568, 115762), (572, 115780), (591, 115876), (598, 115906), (602, 115924), (610, 115954), (635, 116047), (640, 116062), (656, 116143), (657, 116149), (661, 116161),

Gene: Kenrey_62 Start: 48788, Stop: 52078, Start Num: 49

Candidate Starts for Kenrey_62:

(Start: 49 @48788 has 71 MA's), (55, 48809), (57, 48839), (60, 48860), (Start: 65 @48884 has 1 MA's), (109, 49163), (120, 49223), (138, 49337), (139, 49343), (140, 49355), (159, 49448), (169, 49511), (171, 49517), (177, 49556), (180, 49583), (223, 49772), (226, 49787), (253, 49952), (259, 50000), (320, 50300), (327, 50339), (347, 50456), (353, 50489), (359, 50522), (363, 50540), (370, 50573), (380, 50612), (388, 50678), (390, 50684), (401, 50747), (410, 50819), (421, 50873), (423, 50882), (427, 50900), (429, 50906), (453, 51020), (460, 51086), (463, 51098), (476, 51158), (478, 51161), (498, 51236), (512, 51299), (520, 51341), (544, 51461), (561, 51539), (576, 51608), (577, 51614), (599, 51707), (603, 51725), (606, 51734), (611, 51755), (618, 51785), (627, 51818), (644, 51905), (647, 51917), (650, 51941), (657, 51968),

Gene: KentuckyRacer_82 Start: 58333, Stop: 61653, Start Num: 48

Candidate Starts for KentuckyRacer_82:

(Start: 48 @58333 has 34 MA's), (57, 58384), (60, 58405), (Start: 65 @58429 has 1 MA's), (77, 58510), (109, 58708), (139, 58888), (146, 58936), (159, 58993), (168, 59044), (169, 59062), (172, 59071), (177, 59107), (198, 59215), (200, 59224), (242, 59434), (253, 59503), (272, 59668), (285, 59746), (304, 59815), (326, 59908), (347, 60031), (363, 60115), (378, 60178), (380, 60187), (410, 60391), (421, 60445), (423, 60454), (427, 60472), (429, 60478), (463, 60670), (469, 60694), (474, 60721), (499, 60829), (539, 61018), (555, 61096), (565, 61138), (569, 61156), (577, 61198), (587, 61237), (588, 61243), (594, 61270), (603, 61309), (616, 61357), (633, 61438), (640, 61459), (643, 61486), (644, 61489), (648, 61504), (653, 61537), (668, 61606),

Gene: Khaleesi_208 Start: 113624, Stop: 117019, Start Num: 47

Candidate Starts for Khaleesi_208:

(Start: 14 @113531 has 47 MA's), (Start: 15 @113537 has 6 MA's), (Start: 18 @113549 has 8 MA's), (22, 113558), (Start: 47 @113624 has 171 MA's), (59, 113699), (78, 113813), (85, 113837), (95,

113897), (113, 114008), (118, 114047), (125, 114071), (130, 114113), (148, 114212), (159, 114254), (161, 114260), (164, 114272), (173, 114335), (180, 114395), (181, 114398), (186, 114425), (195, 114467), (210, 114530), (230, 114650), (236, 114686), (240, 114704), (243, 114719), (255, 114836), (260, 114875), (272, 114995), (278, 115037), (286, 115082), (288, 115091), (297, 115142), (306, 115184), (321, 115250), (322, 115259), (323, 115262), (324, 115268), (325, 115271), (326, 115280), (327, 115286), (328, 115301), (347, 115388), (367, 115493), (375, 115547), (384, 115634), (388, 115664), (393, 115694), (400, 115727), (402, 115736), (410, 115808), (414, 115838), (436, 115955), (443, 116000), (453, 116042), (479, 116186), (496, 116246), (518, 116348), (537, 116435), (538, 116438), (541, 116456), (547, 116492), (548, 116495), (568, 116555), (572, 116573), (591, 116669), (598, 116699), (602, 116717), (610, 116747), (635, 116840), (640, 116855), (656, 116936), (657, 116942), (661, 116954),

Gene: Koguma_208 Start: 112391, Stop: 115879, Start Num: 14

Candidate Starts for Koguma_208:

(Start: 6 @112361 has 5 MA's), (Start: 14 @112391 has 47 MA's), (Start: 15 @112397 has 6 MA's), (Start: 18 @112409 has 8 MA's), (22, 112418), (Start: 47 @112484 has 171 MA's), (59, 112559), (78, 112673), (85, 112697), (95, 112757), (113, 112868), (118, 112907), (125, 112931), (130, 112973), (148, 113072), (159, 113114), (161, 113120), (164, 113132), (173, 113195), (180, 113255), (181, 113258), (186, 113285), (195, 113327), (210, 113390), (230, 113510), (236, 113546), (240, 113564), (243, 113579), (255, 113696), (260, 113735), (272, 113855), (278, 113897), (286, 113942), (288, 113951), (297, 114002), (306, 114044), (321, 114110), (322, 114119), (323, 114122), (324, 114128), (325, 114131), (326, 114140), (327, 114146), (328, 114161), (347, 114248), (367, 114353), (375, 114407), (384, 114494), (388, 114524), (393, 114554), (400, 114587), (402, 114596), (410, 114668), (414, 114698), (436, 114815), (443, 114860), (453, 114902), (479, 115046), (496, 115106), (518, 115208), (537, 115295), (538, 115298), (541, 115316), (547, 115352), (548, 115355), (568, 115415), (572, 115433), (591, 115529), (598, 115559), (602, 115577), (610, 115607), (635, 115700), (640, 115715), (656, 115796), (657, 115802), (661, 115814),

Gene: LRRHood_202 Start: 112706, Stop: 116224, Start Num: 6

Candidate Starts for LRRHood_202:

(Start: 6 @112706 has 5 MA's), (Start: 14 @112736 has 47 MA's), (Start: 15 @112742 has 6 MA's), (Start: 18 @112754 has 8 MA's), (22, 112763), (Start: 47 @112829 has 171 MA's), (59, 112904), (78, 113018), (85, 113042), (95, 113102), (113, 113213), (118, 113252), (125, 113276), (130, 113318), (148, 113417), (159, 113459), (161, 113465), (164, 113477), (173, 113540), (180, 113600), (181, 113603), (186, 113630), (195, 113672), (210, 113735), (230, 113855), (236, 113891), (240, 113909), (243, 113924), (255, 114041), (260, 114080), (272, 114200), (278, 114242), (286, 114287), (288, 114296), (297, 114347), (306, 114389), (321, 114455), (322, 114464), (323, 114467), (324, 114473), (325, 114476), (326, 114485), (327, 114491), (328, 114506), (347, 114593), (367, 114698), (375, 114752), (384, 114839), (388, 114869), (393, 114899), (400, 114932), (402, 114941), (410, 115013), (414, 115043), (436, 115160), (443, 115205), (453, 115247), (479, 115391), (496, 115451), (518, 115553), (537, 115640), (538, 115643), (541, 115661), (547, 115697), (548, 115700), (568, 115760), (572, 115778), (591, 115874), (598, 115904), (602, 115922), (610, 115952), (635, 116045), (640, 116060), (656, 116141), (657, 116147), (661, 116159),

Gene: Labradorite_207 Start: 111503, Stop: 114973, Start Num: 18

Candidate Starts for Labradorite_207:

(Start: 14 @111485 has 47 MA's), (Start: 15 @111491 has 6 MA's), (Start: 18 @111503 has 8 MA's), (22, 111512), (Start: 47 @111578 has 171 MA's), (59, 111653), (78, 111767), (85, 111791), (95, 111851), (113, 111962), (118, 112001), (125, 112025), (130, 112067), (148, 112166), (159, 112208), (161, 112214), (164, 112226), (173, 112289), (180, 112349), (181, 112352), (186, 112379), (195, 112421), (210, 112484), (236, 112640), (240, 112658), (243, 112673), (255, 112790), (260, 112829), (272, 112949), (278, 112991), (286, 113036), (288, 113045), (297, 113096), (306, 113138), (321, 113204), (322, 113213), (323, 113216), (324, 113222), (325, 113225), (326, 113234), (327, 113240),

(328, 113255), (347, 113342), (367, 113447), (375, 113501), (384, 113588), (388, 113618), (393, 113648), (400, 113681), (402, 113690), (410, 113762), (414, 113792), (436, 113909), (443, 113954), (453, 113996), (479, 114140), (496, 114200), (518, 114302), (537, 114389), (538, 114392), (541, 114410), (547, 114446), (548, 114449), (568, 114509), (572, 114527), (591, 114623), (598, 114653), (602, 114671), (610, 114701), (635, 114794), (640, 114809), (656, 114890), (657, 114896), (661, 114908),

Gene: Lannister_54 Start: 41433, Stop: 37954, Start Num: 47

Candidate Starts for Lannister_54:

(Start: 47 @41433 has 171 MA's), (Start: 58 @41370 has 1 MA's), (59, 41361), (81, 41226), (84, 41193), (90, 41157), (102, 41088), (108, 41034), (122, 40962), (134, 40899), (138, 40866), (163, 40788), (184, 40641), (192, 40602), (203, 40557), (208, 40536), (212, 40521), (215, 40500), (233, 40401), (235, 40389), (247, 40326), (261, 40203), (262, 40197), (279, 40068), (281, 40050), (291, 39993), (292, 39990), (296, 39978), (316, 39882), (326, 39840), (327, 39834), (328, 39819), (330, 39813), (336, 39780), (350, 39717), (353, 39702), (359, 39669), (383, 39552), (386, 39528), (401, 39447), (410, 39372), (420, 39309), (433, 39243), (442, 39204), (454, 39147), (455, 39138), (474, 39030), (475, 39021), (480, 39009), (483, 38988), (492, 38958), (499, 38931), (513, 38865), (515, 38856), (517, 38844), (526, 38781), (534, 38757), (539, 38733), (569, 38595), (570, 38589), (578, 38541), (604, 38430), (638, 38292), (640, 38283), (643, 38256), (654, 38208), (656, 38202), (663, 38175), (681, 38031), (683, 38010),

Gene: Larnav_80 Start: 59147, Stop: 62431, Start Num: 49

Candidate Starts for Larnav_80:

(Start: 49 @59147 has 71 MA's), (56, 59192), (60, 59222), (64, 59240), (Start: 65 @59246 has 1 MA's), (109, 59525), (127, 59627), (139, 59705), (159, 59810), (169, 59873), (171, 59879), (177, 59918), (200, 60035), (219, 60119), (242, 60245), (249, 60275), (253, 60314), (278, 60521), (327, 60701), (345, 60806), (346, 60812), (347, 60818), (363, 60902), (369, 60932), (380, 60974), (383, 61001), (387, 61034), (390, 61046), (401, 61109), (410, 61181), (421, 61235), (423, 61244), (425, 61253), (427, 61262), (429, 61268), (474, 61511), (493, 61580), (496, 61592), (519, 61697), (559, 61892), (567, 61925), (577, 61976), (588, 62021), (603, 62087), (616, 62135), (633, 62216), (636, 62225), (644, 62267), (652, 62312), (653, 62315), (657, 62330),

Gene: Latch_209 Start: 112377, Stop: 115772, Start Num: 47

Candidate Starts for Latch_209:

(Start: 14 @112284 has 47 MA's), (Start: 15 @112290 has 6 MA's), (Start: 18 @112302 has 8 MA's), (22, 112311), (Start: 47 @112377 has 171 MA's), (59, 112452), (78, 112566), (85, 112590), (95, 112650), (113, 112761), (118, 112800), (125, 112824), (130, 112866), (148, 112965), (159, 113007), (161, 113013), (164, 113025), (173, 113088), (180, 113148), (181, 113151), (186, 113178), (195, 113220), (210, 113283), (230, 113403), (236, 113439), (240, 113457), (243, 113472), (255, 113589), (260, 113628), (272, 113748), (278, 113790), (286, 113835), (288, 113844), (297, 113895), (306, 113937), (321, 114003), (322, 114012), (323, 114015), (324, 114021), (325, 114024), (326, 114033), (327, 114039), (328, 114054), (347, 114141), (367, 114246), (375, 114300), (384, 114387), (388, 114417), (393, 114447), (400, 114480), (402, 114489), (410, 114561), (414, 114591), (436, 114708), (443, 114753), (453, 114795), (479, 114939), (496, 114999), (518, 115101), (537, 115188), (538, 115191), (541, 115209), (547, 115245), (548, 115248), (568, 115308), (572, 115326), (591, 115422), (598, 115452), (602, 115470), (610, 115500), (635, 115593), (640, 115608), (656, 115689), (657, 115695), (661, 115707),

Gene: Lee7_209 Start: 115004, Stop: 118399, Start Num: 47

Candidate Starts for Lee7_209:

(Start: 14 @114911 has 47 MA's), (Start: 15 @114917 has 6 MA's), (Start: 18 @114929 has 8 MA's), (22, 114938), (Start: 47 @115004 has 171 MA's), (59, 115079), (78, 115193), (85, 115217), (95, 115277), (113, 115388), (118, 115427), (125, 115451), (130, 115493), (148, 115592), (159, 115634),

(161, 115640), (164, 115652), (173, 115715), (180, 115775), (181, 115778), (186, 115805), (195, 115847), (210, 115910), (230, 116030), (236, 116066), (240, 116084), (243, 116099), (255, 116216), (260, 116255), (272, 116375), (278, 116417), (286, 116462), (288, 116471), (297, 116522), (306, 116564), (321, 116630), (322, 116639), (323, 116642), (324, 116648), (325, 116651), (326, 116660), (327, 116666), (328, 116681), (347, 116768), (367, 116873), (375, 116927), (384, 117014), (388, 117044), (393, 117074), (400, 117107), (402, 117116), (410, 117188), (414, 117218), (436, 117335), (443, 117380), (453, 117422), (479, 117566), (496, 117626), (518, 117728), (537, 117815), (538, 117818), (541, 117836), (547, 117872), (548, 117875), (568, 117935), (572, 117953), (591, 118049), (598, 118079), (602, 118097), (610, 118127), (635, 118220), (640, 118235), (656, 118316), (657, 118322), (661, 118334),

Gene: Legacy_52 Start: 40331, Stop: 36852, Start Num: 47

Candidate Starts for Legacy_52:

(Start: 47 @40331 has 171 MA's), (59, 40259), (Start: 65 @40232 has 1 MA's), (67, 40217), (90, 40055), (94, 40028), (96, 40022), (108, 39932), (112, 39917), (121, 39863), (122, 39860), (138, 39764), (163, 39686), (184, 39539), (192, 39500), (203, 39455), (208, 39434), (212, 39419), (220, 39377), (223, 39365), (233, 39299), (235, 39287), (247, 39224), (262, 39095), (263, 39086), (269, 39050), (279, 38966), (281, 38948), (291, 38891), (292, 38888), (296, 38876), (326, 38738), (327, 38732), (328, 38717), (330, 38711), (336, 38678), (353, 38600), (359, 38567), (386, 38426), (397, 38369), (401, 38345), (402, 38339), (410, 38270), (420, 38207), (433, 38141), (437, 38120), (442, 38102), (454, 38045), (455, 38036), (474, 37928), (475, 37919), (480, 37907), (483, 37886), (492, 37856), (499, 37829), (513, 37763), (515, 37754), (517, 37742), (534, 37655), (539, 37631), (548, 37583), (578, 37439), (595, 37364), (638, 37190), (643, 37154), (654, 37106), (663, 37073), (681, 36929),

Gene: Lenoshki_97 Start: 71922, Stop: 74735, Start Num: 40

Candidate Starts for Lenoshki_97:

(Start: 33 @71907 has 1 MA's), (Start: 37 @71919 has 1 MA's), (Start: 40 @71922 has 5 MA's), (59, 72015), (68, 72075), (93, 72225), (94, 72228), (96, 72234), (103, 72276), (110, 72333), (114, 72363), (115, 72366), (116, 72369), (126, 72429), (130, 72450), (131, 72453), (136, 72480), (153, 72570), (161, 72597), (163, 72606), (170, 72663), (173, 72672), (196, 72804), (233, 72969), (236, 72987), (239, 73002), (241, 73008), (243, 73020), (249, 73047), (250, 73050), (256, 73110), (257, 73119), (258, 73122), (260, 73134), (263, 73179), (271, 73248), (274, 73272), (300, 73428), (308, 73470), (313, 73488), (330, 73584), (337, 73626), (347, 73668), (349, 73677), (352, 73695), (353, 73701), (357, 73725), (358, 73731), (359, 73734), (363, 73752), (364, 73755), (383, 73848), (390, 73893), (391, 73899), (395, 73923), (396, 73926), (398, 73935), (399, 73941), (401, 73953), (418, 74070), (420, 74088), (421, 74091), (423, 74100), (446, 74214), (449, 74229), (474, 74376), (478, 74388), (480, 74394), (497, 74460), (500, 74478), (503, 74490), (506, 74499), (525, 74613), (528, 74625), (532, 74640), (546, 74715), (547, 74724),

Gene: Leo04_81 Start: 59662, Stop: 62946, Start Num: 49

Candidate Starts for Leo04_81:

(Start: 49 @59662 has 71 MA's), (56, 59707), (60, 59737), (64, 59755), (Start: 65 @59761 has 1 MA's), (109, 60040), (127, 60142), (139, 60220), (159, 60325), (169, 60388), (171, 60394), (177, 60433), (200, 60550), (219, 60634), (242, 60760), (249, 60790), (253, 60829), (254, 60838), (278, 61036), (327, 61216), (345, 61321), (346, 61327), (347, 61333), (363, 61417), (369, 61447), (380, 61489), (383, 61516), (387, 61549), (390, 61561), (401, 61624), (410, 61696), (421, 61750), (423, 61759), (425, 61768), (427, 61777), (429, 61783), (474, 62026), (493, 62095), (496, 62107), (519, 62212), (559, 62407), (567, 62440), (577, 62491), (587, 62530), (588, 62536), (603, 62602), (616, 62650), (625, 62686), (633, 62731), (636, 62740), (644, 62782), (652, 62827), (653, 62830), (657, 62845),

Gene: Lethe_209 Start: 114267, Stop: 117662, Start Num: 47

Candidate Starts for Lethe_209:

(Start: 14 @114174 has 47 MA's), (Start: 15 @114180 has 6 MA's), (Start: 18 @114192 has 8 MA's), (22, 114201), (Start: 47 @114267 has 171 MA's), (59, 114342), (78, 114456), (85, 114480), (95, 114540), (113, 114651), (118, 114690), (125, 114714), (130, 114756), (148, 114855), (159, 114897), (161, 114903), (164, 114915), (173, 114978), (180, 115038), (181, 115041), (186, 115068), (195, 115110), (210, 115173), (230, 115293), (236, 115329), (240, 115347), (243, 115362), (255, 115479), (260, 115518), (272, 115638), (278, 115680), (286, 115725), (288, 115734), (297, 115785), (306, 115827), (321, 115893), (322, 115902), (323, 115905), (324, 115911), (325, 115914), (326, 115923), (327, 115929), (328, 115944), (347, 116031), (367, 116136), (375, 116190), (384, 116277), (388, 116307), (393, 116337), (400, 116370), (402, 116379), (410, 116451), (414, 116481), (436, 116598), (443, 116643), (453, 116685), (479, 116829), (496, 116889), (518, 116991), (537, 117078), (538, 117081), (541, 117099), (547, 117135), (548, 117138), (568, 117198), (572, 117216), (591, 117312), (598, 117342), (602, 117360), (610, 117390), (635, 117483), (640, 117498), (656, 117579), (657, 117585), (661, 117597),

Gene: Leviticus_53 Start: 40239, Stop: 36760, Start Num: 47

Candidate Starts for Leviticus_53:

(1, 40500), (Start: 47 @40239 has 171 MA's), (59, 40167), (Start: 65 @40140 has 1 MA's), (67, 40125), (90, 39963), (94, 39936), (96, 39930), (108, 39840), (112, 39825), (121, 39771), (122, 39768), (138, 39672), (163, 39594), (184, 39447), (192, 39408), (203, 39363), (208, 39342), (212, 39327), (220, 39285), (223, 39273), (233, 39207), (235, 39195), (247, 39132), (262, 39003), (263, 38994), (269, 38958), (279, 38874), (281, 38856), (291, 38799), (292, 38796), (296, 38784), (326, 38646), (327, 38640), (328, 38625), (330, 38619), (336, 38586), (353, 38508), (359, 38475), (386, 38334), (397, 38277), (401, 38253), (402, 38247), (410, 38178), (420, 38115), (433, 38049), (437, 38028), (442, 38010), (454, 37953), (455, 37944), (474, 37836), (475, 37827), (480, 37815), (483, 37794), (492, 37764), (499, 37737), (513, 37671), (515, 37662), (517, 37650), (534, 37563), (539, 37539), (548, 37491), (578, 37347), (595, 37272), (638, 37098), (643, 37062), (654, 37014), (663, 36981),

Gene: Liandry_78 Start: 58566, Stop: 61850, Start Num: 49

Candidate Starts for Liandry_78:

(Start: 49 @58566 has 71 MA's), (56, 58611), (60, 58641), (64, 58659), (Start: 65 @58665 has 1 MA's), (75, 58731), (109, 58944), (111, 58950), (127, 59046), (139, 59124), (159, 59229), (169, 59292), (171, 59298), (177, 59337), (200, 59454), (223, 59553), (242, 59664), (249, 59694), (253, 59733), (285, 59976), (327, 60120), (328, 60135), (346, 60231), (347, 60237), (351, 60261), (363, 60321), (378, 60384), (380, 60393), (390, 60465), (401, 60528), (410, 60600), (421, 60654), (423, 60663), (425, 60672), (427, 60681), (429, 60687), (445, 60768), (460, 60867), (474, 60930), (493, 60999), (496, 61011), (535, 61197), (539, 61215), (559, 61311), (567, 61344), (577, 61395), (587, 61434), (588, 61440), (603, 61506), (611, 61536), (616, 61554), (625, 61590), (633, 61635), (636, 61644), (642, 61665), (644, 61686), (653, 61734), (657, 61749),

Gene: LifeSavor_208 Start: 112809, Stop: 116297, Start Num: 14

Candidate Starts for LifeSavor_208:

(Start: 14 @112809 has 47 MA's), (Start: 15 @112815 has 6 MA's), (Start: 18 @112827 has 8 MA's), (22, 112836), (Start: 47 @112902 has 171 MA's), (59, 112977), (78, 113091), (85, 113115), (95, 113175), (113, 113286), (118, 113325), (125, 113349), (130, 113391), (148, 113490), (159, 113532), (161, 113538), (164, 113550), (173, 113613), (180, 113673), (181, 113676), (186, 113703), (195, 113745), (210, 113808), (236, 113964), (240, 113982), (243, 113997), (255, 114114), (260, 114153), (272, 114273), (278, 114315), (286, 114360), (288, 114369), (297, 114420), (306, 114462), (321, 114528), (322, 114537), (323, 114540), (324, 114546), (325, 114549), (326, 114558), (327, 114564), (328, 114579), (347, 114666), (367, 114771), (375, 114825), (384, 114912), (388, 114942), (393, 114972), (400, 115005), (402, 115014), (410, 115086), (414, 115116), (436, 115233), (443, 115278), (453, 115320), (479, 115464), (496, 115524), (518, 115626), (537, 115713), (538, 115716), (541, 115734), (547, 115770), (548, 115773), (568, 115833), (572, 115851), (591, 115947), (598, 115977), (602, 115995), (610, 116025), (635, 116118), (640, 116133), (656, 116214), (657, 116220), (661,

116232),

Gene: Lika_54 Start: 41758, Stop: 38282, Start Num: 52

Candidate Starts for Lika_54:

(Start: 52 @41758 has 2 MA's), (59, 41689), (Start: 65 @41662 has 1 MA's), (67, 41647), (68, 41629), (79, 41572), (80, 41566), (90, 41485), (94, 41458), (96, 41452), (102, 41416), (106, 41380), (122, 41290), (138, 41194), (163, 41116), (184, 40969), (192, 40930), (199, 40903), (203, 40885), (208, 40864), (212, 40849), (233, 40729), (235, 40717), (261, 40531), (262, 40525), (269, 40480), (279, 40396), (281, 40378), (291, 40321), (292, 40318), (296, 40306), (326, 40168), (327, 40162), (328, 40147), (330, 40141), (336, 40108), (338, 40102), (353, 40030), (359, 39997), (386, 39856), (401, 39775), (402, 39769), (410, 39700), (420, 39637), (425, 39616), (433, 39571), (442, 39532), (454, 39475), (455, 39466), (474, 39358), (480, 39337), (483, 39316), (492, 39286), (499, 39259), (513, 39193), (515, 39184), (517, 39172), (534, 39085), (539, 39061), (578, 38869), (596, 38785), (604, 38758), (638, 38620), (640, 38611), (643, 38584), (654, 38536), (656, 38530), (662, 38509), (663, 38503), (677, 38398), (681, 38359), (682, 38353), (688, 38296),

Gene: LilMartin_77 Start: 57396, Stop: 60680, Start Num: 49

Candidate Starts for LilMartin_77:

(19, 57312), (28, 57339), (Start: 49 @57396 has 71 MA's), (56, 57441), (60, 57471), (64, 57489), (Start: 65 @57495 has 1 MA's), (109, 57774), (127, 57876), (139, 57954), (140, 57966), (159, 58059), (169, 58122), (171, 58128), (177, 58167), (200, 58284), (208, 58323), (223, 58383), (242, 58494), (249, 58524), (258, 58602), (281, 58791), (286, 58815), (290, 58836), (327, 58950), (328, 58965), (345, 59055), (346, 59061), (347, 59067), (351, 59091), (352, 59094), (363, 59151), (370, 59184), (378, 59214), (380, 59223), (390, 59295), (391, 59304), (401, 59358), (410, 59430), (421, 59484), (423, 59493), (425, 59502), (427, 59511), (429, 59517), (445, 59598), (474, 59760), (493, 59829), (496, 59841), (523, 59955), (575, 60216), (577, 60225), (603, 60336), (616, 60384), (633, 60465), (644, 60516), (653, 60564), (657, 60579),

Gene: LilSaint_83 Start: 57654, Stop: 60938, Start Num: 49

Candidate Starts for LilSaint_83:

(Start: 49 @57654 has 71 MA's), (56, 57699), (60, 57729), (Start: 65 @57753 has 1 MA's), (109, 58032), (127, 58134), (137, 58188), (139, 58212), (159, 58317), (169, 58380), (171, 58386), (177, 58425), (200, 58542), (223, 58641), (242, 58752), (253, 58821), (258, 58860), (286, 59073), (290, 59094), (327, 59208), (328, 59223), (345, 59313), (346, 59319), (347, 59325), (363, 59409), (378, 59472), (380, 59481), (383, 59508), (390, 59553), (401, 59616), (410, 59688), (421, 59742), (423, 59751), (425, 59760), (427, 59769), (429, 59775), (474, 60018), (493, 60087), (496, 60099), (497, 60102), (577, 60483), (594, 60555), (603, 60594), (616, 60642), (627, 60687), (633, 60723), (636, 60732), (644, 60774), (653, 60822), (657, 60837), (665, 60876),

Gene: Limpid_57 Start: 47705, Stop: 50995, Start Num: 49

Candidate Starts for Limpid_57:

(Start: 49 @47705 has 71 MA's), (60, 47777), (64, 47795), (Start: 65 @47801 has 1 MA's), (109, 48080), (120, 48140), (159, 48365), (169, 48428), (175, 48455), (176, 48470), (177, 48473), (242, 48800), (322, 49229), (327, 49256), (335, 49310), (346, 49367), (347, 49373), (380, 49529), (383, 49556), (390, 49601), (401, 49664), (408, 49733), (410, 49736), (421, 49790), (423, 49799), (425, 49808), (427, 49817), (429, 49823), (453, 49937), (463, 50015), (469, 50039), (476, 50075), (493, 50135), (495, 50141), (520, 50258), (533, 50327), (561, 50456), (564, 50468), (576, 50525), (577, 50531), (603, 50642), (606, 50651), (611, 50672), (618, 50702), (625, 50726), (627, 50735), (644, 50822), (654, 50873), (657, 50885), (674, 50972),

Gene: LinStu_208 Start: 113041, Stop: 116511, Start Num: 18

Candidate Starts for LinStu_208:

(Start: 14 @113023 has 47 MA's), (Start: 15 @113029 has 6 MA's), (Start: 18 @113041 has 8 MA's), (22, 113050), (Start: 47 @113116 has 171 MA's), (59, 113191), (78, 113305), (85, 113329), (95, 113389), (113, 113500), (118, 113539), (125, 113563), (130, 113605), (148, 113704), (159, 113746), (161, 113752), (164, 113764), (173, 113827), (180, 113887), (181, 113890), (186, 113917), (195, 113959), (210, 114022), (230, 114142), (236, 114178), (240, 114196), (243, 114211), (255, 114328), (260, 114367), (272, 114487), (278, 114529), (286, 114574), (288, 114583), (297, 114634), (306, 114676), (321, 114742), (322, 114751), (323, 114754), (324, 114760), (325, 114763), (326, 114772), (327, 114778), (328, 114793), (347, 114880), (367, 114985), (375, 115039), (384, 115126), (388, 115156), (393, 115186), (400, 115219), (402, 115228), (410, 115300), (414, 115330), (436, 115447), (443, 115492), (453, 115534), (479, 115678), (496, 115738), (518, 115840), (537, 115927), (538, 115930), (541, 115948), (547, 115984), (548, 115987), (568, 116047), (572, 116065), (591, 116161), (598, 116191), (602, 116209), (610, 116239), (635, 116332), (640, 116347), (656, 116428), (657, 116434), (661, 116446),

Gene: Littleton_212 Start: 113521, Stop: 117009, Start Num: 14

Candidate Starts for Littleton_212:

(Start: 14 @113521 has 47 MA's), (Start: 15 @113527 has 6 MA's), (Start: 18 @113539 has 8 MA's), (22, 113548), (Start: 47 @113614 has 171 MA's), (59, 113689), (78, 113803), (85, 113827), (95, 113887), (113, 113998), (118, 114037), (125, 114061), (130, 114103), (148, 114202), (159, 114244), (161, 114250), (164, 114262), (173, 114325), (180, 114385), (181, 114388), (186, 114415), (195, 114457), (210, 114520), (230, 114640), (236, 114676), (240, 114694), (243, 114709), (255, 114826), (260, 114865), (272, 114985), (278, 115027), (286, 115072), (288, 115081), (297, 115132), (306, 115174), (321, 115240), (322, 115249), (323, 115252), (324, 115258), (325, 115261), (326, 115270), (327, 115276), (328, 115291), (347, 115378), (367, 115483), (375, 115537), (384, 115624), (388, 115654), (393, 115684), (400, 115717), (402, 115726), (410, 115798), (414, 115828), (436, 115945), (443, 115990), (453, 116032), (479, 116176), (496, 116236), (518, 116338), (537, 116425), (538, 116428), (541, 116446), (547, 116482), (548, 116485), (568, 116545), (572, 116563), (591, 116659), (598, 116689), (602, 116707), (610, 116737), (635, 116830), (640, 116845), (656, 116926), (657, 116932), (661, 116944),

Gene: Loanshark_206 Start: 112939, Stop: 116334, Start Num: 47

Candidate Starts for Loanshark_206:

(Start: 14 @112846 has 47 MA's), (Start: 15 @112852 has 6 MA's), (Start: 18 @112864 has 8 MA's), (22, 112873), (Start: 47 @112939 has 171 MA's), (59, 113014), (78, 113128), (85, 113152), (95, 113212), (113, 113323), (118, 113362), (125, 113386), (130, 113428), (148, 113527), (159, 113569), (161, 113575), (164, 113587), (173, 113650), (180, 113710), (181, 113713), (186, 113740), (195, 113782), (210, 113845), (230, 113965), (236, 114001), (240, 114019), (243, 114034), (255, 114151), (260, 114190), (272, 114310), (278, 114352), (286, 114397), (288, 114406), (297, 114457), (306, 114499), (321, 114565), (322, 114574), (323, 114577), (324, 114583), (325, 114586), (326, 114595), (327, 114601), (328, 114616), (347, 114703), (367, 114808), (375, 114862), (384, 114949), (388, 114979), (393, 115009), (400, 115042), (402, 115051), (410, 115123), (414, 115153), (436, 115270), (443, 115315), (453, 115357), (479, 115501), (496, 115561), (518, 115663), (537, 115750), (538, 115753), (541, 115771), (547, 115807), (548, 115810), (568, 115870), (572, 115888), (591, 115984), (598, 116014), (602, 116032), (610, 116062), (635, 116155), (640, 116170), (656, 116251), (657, 116257), (661, 116269),

Gene: LolaVinca_207 Start: 114169, Stop: 117564, Start Num: 47

Candidate Starts for LolaVinca_207:

(Start: 14 @114076 has 47 MA's), (Start: 15 @114082 has 6 MA's), (Start: 18 @114094 has 8 MA's), (22, 114103), (Start: 47 @114169 has 171 MA's), (59, 114244), (78, 114358), (85, 114382), (95, 114442), (113, 114553), (118, 114592), (125, 114616), (130, 114658), (148, 114757), (159, 114799), (161, 114805), (164, 114817), (173, 114880), (180, 114940), (181, 114943), (186, 114970), (195, 115012), (210, 115075), (236, 115231), (240, 115249), (243, 115264), (255, 115381), (260, 115420),

(272, 115540), (278, 115582), (286, 115627), (288, 115636), (297, 115687), (306, 115729), (321, 115795), (322, 115804), (323, 115807), (324, 115813), (325, 115816), (326, 115825), (327, 115831), (328, 115846), (347, 115933), (367, 116038), (375, 116092), (384, 116179), (388, 116209), (393, 116239), (400, 116272), (402, 116281), (410, 116353), (414, 116383), (436, 116500), (443, 116545), (453, 116587), (479, 116731), (496, 116791), (518, 116893), (537, 116980), (538, 116983), (541, 117001), (547, 117037), (548, 117040), (568, 117100), (572, 117118), (591, 117214), (598, 117244), (602, 117262), (610, 117292), (635, 117385), (640, 117400), (656, 117481), (657, 117487), (661, 117499),

Gene: LookingGlass_208 Start: 113059, Stop: 116529, Start Num: 18

Candidate Starts for LookingGlass_208:

(4, 112966), (Start: 14 @113041 has 47 MA's), (Start: 15 @113047 has 6 MA's), (Start: 18 @113059 has 8 MA's), (22, 113068), (Start: 47 @113134 has 171 MA's), (59, 113209), (78, 113323), (85, 113347), (95, 113407), (101, 113443), (113, 113518), (118, 113557), (125, 113581), (130, 113623), (148, 113722), (159, 113764), (161, 113770), (164, 113782), (173, 113845), (180, 113905), (181, 113908), (186, 113935), (195, 113977), (210, 114040), (236, 114196), (240, 114214), (243, 114229), (255, 114346), (260, 114385), (272, 114505), (278, 114547), (286, 114592), (288, 114601), (297, 114652), (306, 114694), (321, 114760), (322, 114769), (323, 114772), (324, 114778), (325, 114781), (326, 114790), (327, 114796), (328, 114811), (347, 114898), (367, 115003), (375, 115057), (384, 115144), (388, 115174), (393, 115204), (400, 115237), (402, 115246), (410, 115318), (414, 115348), (436, 115465), (443, 115510), (453, 115552), (479, 115696), (496, 115756), (518, 115858), (537, 115945), (538, 115948), (541, 115966), (547, 116002), (548, 116005), (568, 116065), (572, 116083), (591, 116179), (598, 116209), (602, 116227), (610, 116257), (635, 116350), (640, 116365), (656, 116446), (657, 116452), (661, 116464),

Gene: LordLeafolot_210 Start: 113782, Stop: 117177, Start Num: 47

Candidate Starts for LordLeafolot_210:

(Start: 14 @113689 has 47 MA's), (Start: 15 @113695 has 6 MA's), (Start: 18 @113707 has 8 MA's), (22, 113716), (Start: 47 @113782 has 171 MA's), (59, 113857), (78, 113971), (85, 113995), (95, 114055), (113, 114166), (118, 114205), (125, 114229), (130, 114271), (148, 114370), (159, 114412), (161, 114418), (164, 114430), (173, 114493), (180, 114553), (181, 114556), (186, 114583), (195, 114625), (210, 114688), (236, 114844), (240, 114862), (243, 114877), (255, 114994), (260, 115033), (272, 115153), (278, 115195), (286, 115240), (288, 115249), (297, 115300), (306, 115342), (321, 115408), (322, 115417), (323, 115420), (324, 115426), (325, 115429), (326, 115438), (327, 115444), (328, 115459), (347, 115546), (367, 115651), (375, 115705), (384, 115792), (388, 115822), (393, 115852), (400, 115885), (402, 115894), (410, 115966), (414, 115996), (436, 116113), (443, 116158), (453, 116200), (479, 116344), (496, 116404), (518, 116506), (537, 116593), (538, 116596), (541, 116614), (547, 116650), (548, 116653), (568, 116713), (572, 116731), (591, 116827), (598, 116857), (602, 116875), (610, 116905), (635, 116998), (640, 117013), (656, 117094), (657, 117100), (661, 117112),

Gene: Lorelei_55 Start: 41564, Stop: 38013, Start Num: 21

Candidate Starts for Lorelei_55:

(Start: 21 @41564 has 1 MA's), (Start: 47 @41495 has 171 MA's), (Start: 58 @41432 has 1 MA's), (59, 41423), (67, 41381), (81, 41288), (90, 41219), (102, 41150), (108, 41096), (122, 41024), (127, 40988), (138, 40928), (163, 40850), (184, 40703), (192, 40664), (199, 40637), (203, 40619), (208, 40598), (212, 40583), (233, 40463), (235, 40451), (261, 40265), (262, 40259), (269, 40214), (279, 40130), (281, 40112), (291, 40055), (292, 40052), (296, 40040), (326, 39902), (327, 39896), (328, 39881), (330, 39875), (336, 39842), (353, 39764), (359, 39731), (383, 39614), (386, 39590), (401, 39509), (402, 39503), (410, 39434), (420, 39371), (425, 39350), (433, 39305), (442, 39266), (454, 39209), (455, 39200), (474, 39092), (480, 39071), (483, 39050), (492, 39020), (499, 38993), (513, 38927), (515, 38918), (517, 38906), (534, 38819), (539, 38795), (560, 38699), (578, 38603), (596, 38519), (604, 38492), (638, 38354), (640, 38345), (643, 38318), (654, 38270), (656, 38264), (662, 38243),

(663, 38237), (677, 38132), (680, 38105), (681, 38093),

Gene: LukeCage_81 Start: 58309, Stop: 61629, Start Num: 48

Candidate Starts for LukeCage_81:

(Start: 48 @58309 has 34 MA's), (57, 58360), (60, 58381), (Start: 65 @58405 has 1 MA's), (77, 58486), (109, 58684), (139, 58864), (146, 58912), (147, 58915), (159, 58969), (168, 59020), (169, 59038), (172, 59047), (177, 59083), (200, 59200), (242, 59410), (253, 59479), (285, 59722), (290, 59752), (326, 59884), (347, 60007), (363, 60091), (380, 60163), (410, 60367), (421, 60421), (423, 60430), (427, 60448), (429, 60454), (463, 60646), (469, 60670), (474, 60697), (499, 60805), (523, 60904), (528, 60949), (537, 60982), (539, 60994), (555, 61072), (565, 61114), (569, 61132), (577, 61174), (587, 61213), (588, 61219), (594, 61246), (603, 61285), (616, 61333), (617, 61342), (633, 61414), (637, 61426), (640, 61435), (643, 61462), (644, 61465), (652, 61510), (653, 61513), (665, 61567), (668, 61582),

Gene: Lukilu_200 Start: 113716, Stop: 117234, Start Num: 6

Candidate Starts for Lukilu_200:

(Start: 6 @113716 has 5 MA's), (Start: 14 @113746 has 47 MA's), (Start: 15 @113752 has 6 MA's), (Start: 18 @113764 has 8 MA's), (22, 113773), (Start: 47 @113839 has 171 MA's), (59, 113914), (78, 114028), (85, 114052), (95, 114112), (113, 114223), (118, 114262), (125, 114286), (130, 114328), (148, 114427), (159, 114469), (161, 114475), (164, 114487), (173, 114550), (180, 114610), (181, 114613), (186, 114640), (195, 114682), (210, 114745), (230, 114865), (236, 114901), (240, 114919), (243, 114934), (255, 115051), (260, 115090), (272, 115210), (278, 115252), (286, 115297), (288, 115306), (297, 115357), (306, 115399), (321, 115465), (322, 115474), (323, 115477), (324, 115483), (325, 115486), (326, 115495), (327, 115501), (328, 115516), (347, 115603), (367, 115708), (375, 115762), (384, 115849), (388, 115879), (393, 115909), (400, 115942), (402, 115951), (410, 116023), (414, 116053), (436, 116170), (443, 116215), (453, 116257), (479, 116401), (496, 116461), (518, 116563), (537, 116650), (538, 116653), (541, 116671), (547, 116707), (548, 116710), (568, 116770), (572, 116788), (591, 116884), (598, 116914), (602, 116932), (610, 116962), (635, 117055), (640, 117070), (656, 117151), (657, 117157), (661, 117169),

Gene: Lululemon_79 Start: 58543, Stop: 61827, Start Num: 49

Candidate Starts for Lululemon_79:

(Start: 49 @58543 has 71 MA's), (56, 58588), (60, 58618), (64, 58636), (Start: 65 @58642 has 1 MA's), (109, 58921), (127, 59023), (139, 59101), (159, 59206), (169, 59269), (171, 59275), (177, 59314), (200, 59431), (219, 59515), (242, 59641), (249, 59671), (253, 59710), (254, 59719), (278, 59917), (327, 60097), (345, 60202), (346, 60208), (347, 60214), (363, 60298), (369, 60328), (380, 60370), (383, 60397), (387, 60430), (390, 60442), (401, 60505), (410, 60577), (421, 60631), (423, 60640), (425, 60649), (427, 60658), (429, 60664), (474, 60907), (493, 60976), (496, 60988), (519, 61093), (559, 61288), (567, 61321), (577, 61372), (587, 61411), (588, 61417), (603, 61483), (616, 61531), (625, 61567), (633, 61612), (636, 61621), (644, 61663), (652, 61708), (653, 61711), (657, 61726),

Gene: Lunareta_207 Start: 114475, Stop: 117870, Start Num: 47

Candidate Starts for Lunareta_207:

(Start: 14 @114382 has 47 MA's), (Start: 15 @114388 has 6 MA's), (Start: 18 @114400 has 8 MA's), (22, 114409), (Start: 47 @114475 has 171 MA's), (59, 114550), (78, 114664), (85, 114688), (95, 114748), (113, 114859), (118, 114898), (125, 114922), (130, 114964), (148, 115063), (159, 115105), (161, 115111), (164, 115123), (173, 115186), (180, 115246), (181, 115249), (186, 115276), (195, 115318), (210, 115381), (230, 115501), (236, 115537), (240, 115555), (243, 115570), (255, 115687), (260, 115726), (272, 115846), (278, 115888), (286, 115933), (288, 115942), (297, 115993), (306, 116035), (321, 116101), (322, 116110), (323, 116113), (324, 116119), (325, 116122), (326, 116131), (327, 116137), (328, 116152), (347, 116239), (367, 116344), (375, 116398), (384, 116485), (388, 116515), (393, 116545), (400, 116578), (402, 116587), (410, 116659), (414, 116689), (436, 116806), (443, 116851), (453, 116893), (479, 117037), (496, 117097), (518, 117199), (537, 117286), (538,

117289), (541, 117307), (547, 117343), (548, 117346), (568, 117406), (572, 117424), (591, 117520), (598, 117550), (602, 117568), (610, 117598), (635, 117691), (640, 117706), (656, 117787), (657, 117793), (661, 117805),

Gene: Maby2021_209 Start: 114068, Stop: 117463, Start Num: 47

Candidate Starts for Maby2021_209:

(Start: 14 @113975 has 47 MA's), (Start: 15 @113981 has 6 MA's), (Start: 18 @113993 has 8 MA's), (22, 114002), (Start: 47 @114068 has 171 MA's), (59, 114143), (78, 114257), (85, 114281), (95, 114341), (113, 114452), (118, 114491), (125, 114515), (130, 114557), (148, 114656), (159, 114698), (161, 114704), (164, 114716), (173, 114779), (180, 114839), (181, 114842), (186, 114869), (195, 114911), (210, 114974), (236, 115130), (240, 115148), (243, 115163), (255, 115280), (260, 115319), (272, 115439), (278, 115481), (286, 115526), (288, 115535), (297, 115586), (306, 115628), (321, 115694), (322, 115703), (323, 115706), (324, 115712), (325, 115715), (326, 115724), (327, 115730), (328, 115745), (347, 115832), (367, 115937), (375, 115991), (384, 116078), (388, 116108), (393, 116138), (400, 116171), (402, 116180), (410, 116252), (414, 116282), (436, 116399), (443, 116444), (453, 116486), (479, 116630), (496, 116690), (518, 116792), (537, 116879), (538, 116882), (541, 116900), (547, 116936), (548, 116939), (568, 116999), (572, 117017), (591, 117113), (598, 117143), (602, 117161), (610, 117191), (635, 117284), (640, 117299), (656, 117380), (657, 117386), (661, 117398),

Gene: Maneekul_54 Start: 42498, Stop: 39013, Start Num: 47

Candidate Starts for Maneekul_54:

(Start: 47 @42498 has 171 MA's), (Start: 58 @42435 has 1 MA's), (59, 42426), (67, 42384), (81, 42291), (90, 42222), (102, 42153), (108, 42099), (122, 42027), (127, 41991), (138, 41931), (184, 41706), (192, 41667), (199, 41640), (203, 41622), (208, 41601), (212, 41586), (220, 41544), (233, 41466), (235, 41454), (261, 41268), (262, 41262), (269, 41217), (279, 41133), (281, 41115), (291, 41058), (292, 41055), (296, 41043), (315, 40971), (326, 40905), (327, 40899), (328, 40884), (330, 40878), (336, 40845), (353, 40767), (359, 40734), (386, 40593), (401, 40512), (402, 40506), (410, 40437), (420, 40374), (425, 40353), (433, 40308), (454, 40212), (455, 40203), (457, 40197), (474, 40095), (475, 40086), (480, 40074), (483, 40053), (492, 40023), (499, 39996), (513, 39930), (515, 39921), (517, 39909), (534, 39822), (570, 39654), (578, 39606), (604, 39495), (638, 39357), (640, 39348), (643, 39321), (654, 39273), (663, 39240), (666, 39213), (680, 39108), (681, 39096),

Gene: Mangeria_210 Start: 114077, Stop: 117565, Start Num: 14

Candidate Starts for Mangeria_210:

(Start: 14 @114077 has 47 MA's), (Start: 15 @114083 has 6 MA's), (Start: 18 @114095 has 8 MA's), (22, 114104), (Start: 47 @114170 has 171 MA's), (59, 114245), (78, 114359), (85, 114383), (95, 114443), (113, 114554), (118, 114593), (125, 114617), (130, 114659), (148, 114758), (159, 114800), (161, 114806), (164, 114818), (173, 114881), (180, 114941), (181, 114944), (186, 114971), (195, 115013), (210, 115076), (236, 115232), (240, 115250), (243, 115265), (255, 115382), (260, 115421), (272, 115541), (278, 115583), (286, 115628), (288, 115637), (297, 115688), (306, 115730), (321, 115796), (322, 115805), (323, 115808), (324, 115814), (325, 115817), (326, 115826), (327, 115832), (328, 115847), (347, 115934), (367, 116039), (375, 116093), (384, 116180), (388, 116210), (393, 116240), (400, 116273), (402, 116282), (410, 116354), (414, 116384), (436, 116501), (443, 116546), (453, 116588), (479, 116732), (496, 116792), (518, 116894), (537, 116981), (538, 116984), (541, 117002), (547, 117038), (548, 117041), (568, 117101), (572, 117119), (591, 117215), (598, 117245), (602, 117263), (610, 117293), (635, 117386), (640, 117401), (656, 117482), (657, 117488), (661, 117500),

Gene: Marsus_78 Start: 57668, Stop: 60952, Start Num: 49

Candidate Starts for Marsus_78:

(19, 57584), (28, 57611), (Start: 49 @57668 has 71 MA's), (56, 57713), (60, 57743), (64, 57761), (Start: 65 @57767 has 1 MA's), (109, 58046), (127, 58148), (139, 58226), (140, 58238), (154, 58313),

(159, 58331), (169, 58394), (171, 58400), (177, 58439), (200, 58556), (223, 58655), (242, 58766), (249, 58796), (258, 58874), (286, 59087), (290, 59108), (327, 59222), (328, 59237), (345, 59327), (346, 59333), (347, 59339), (351, 59363), (352, 59366), (363, 59423), (370, 59456), (378, 59486), (380, 59495), (390, 59567), (391, 59576), (401, 59630), (410, 59702), (421, 59756), (423, 59765), (425, 59774), (427, 59783), (429, 59789), (445, 59870), (474, 60032), (493, 60101), (496, 60113), (523, 60227), (577, 60497), (603, 60608), (616, 60656), (625, 60692), (633, 60737), (644, 60788), (653, 60836), (657, 60851),

Gene: Matsumoto_207 Start: 112819, Stop: 116214, Start Num: 47

Candidate Starts for Matsumoto_207:

(Start: 14 @112726 has 47 MA's), (Start: 15 @112732 has 6 MA's), (Start: 18 @112744 has 8 MA's), (22, 112753), (Start: 47 @112819 has 171 MA's), (59, 112894), (78, 113008), (85, 113032), (95, 113092), (113, 113203), (118, 113242), (125, 113266), (130, 113308), (148, 113407), (159, 113449), (161, 113455), (164, 113467), (173, 113530), (180, 113590), (181, 113593), (186, 113620), (195, 113662), (210, 113725), (230, 113845), (236, 113881), (240, 113899), (243, 113914), (255, 114031), (260, 114070), (272, 114190), (278, 114232), (286, 114277), (288, 114286), (297, 114337), (306, 114379), (321, 114445), (322, 114454), (323, 114457), (324, 114463), (325, 114466), (326, 114475), (327, 114481), (328, 114496), (347, 114583), (367, 114688), (375, 114742), (384, 114829), (388, 114859), (393, 114889), (400, 114922), (402, 114931), (410, 115003), (414, 115033), (436, 115150), (443, 115195), (453, 115237), (479, 115381), (496, 115441), (518, 115543), (537, 115630), (538, 115633), (541, 115651), (547, 115687), (548, 115690), (568, 115750), (572, 115768), (591, 115864), (598, 115894), (602, 115912), (610, 115942), (635, 116035), (640, 116050), (656, 116131), (657, 116137), (661, 116149),

Gene: Maturis_206 Start: 113331, Stop: 116726, Start Num: 47

Candidate Starts for Maturis_206:

(Start: 14 @113238 has 47 MA's), (Start: 15 @113244 has 6 MA's), (Start: 18 @113256 has 8 MA's), (22, 113265), (Start: 47 @113331 has 171 MA's), (59, 113406), (78, 113520), (85, 113544), (95, 113604), (113, 113715), (118, 113754), (125, 113778), (130, 113820), (148, 113919), (159, 113961), (161, 113967), (164, 113979), (173, 114042), (180, 114102), (181, 114105), (186, 114132), (195, 114174), (210, 114237), (230, 114357), (236, 114393), (240, 114411), (243, 114426), (255, 114543), (260, 114582), (272, 114702), (278, 114744), (286, 114789), (288, 114798), (297, 114849), (306, 114891), (321, 114957), (322, 114966), (323, 114969), (324, 114975), (325, 114978), (326, 114987), (327, 114993), (328, 115008), (347, 115095), (367, 115200), (375, 115254), (384, 115341), (388, 115371), (393, 115401), (400, 115434), (402, 115443), (410, 115515), (414, 115545), (436, 115662), (443, 115707), (453, 115749), (479, 115893), (496, 115953), (518, 116055), (537, 116142), (538, 116145), (541, 116163), (547, 116199), (548, 116202), (568, 116262), (572, 116280), (591, 116376), (598, 116406), (602, 116424), (610, 116454), (635, 116547), (640, 116562), (656, 116643), (657, 116649), (661, 116661),

Gene: Maupel_60 Start: 48597, Stop: 51887, Start Num: 49

Candidate Starts for Maupel_60:

(Start: 49 @48597 has 71 MA's), (54, 48612), (55, 48618), (60, 48669), (Start: 65 @48693 has 1 MA's), (97, 48882), (109, 48972), (120, 49032), (139, 49152), (159, 49257), (169, 49320), (171, 49326), (177, 49365), (232, 49638), (242, 49692), (249, 49722), (253, 49761), (259, 49809), (320, 50109), (327, 50148), (345, 50253), (346, 50259), (347, 50265), (353, 50298), (356, 50313), (359, 50331), (362, 50343), (363, 50349), (370, 50382), (378, 50412), (380, 50421), (388, 50487), (390, 50493), (391, 50502), (401, 50556), (410, 50628), (421, 50682), (423, 50691), (427, 50709), (429, 50715), (453, 50829), (460, 50895), (463, 50907), (476, 50967), (478, 50970), (495, 51033), (496, 51039), (498, 51045), (520, 51150), (528, 51198), (529, 51201), (544, 51270), (559, 51339), (561, 51348), (576, 51417), (577, 51423), (582, 51435), (588, 51468), (589, 51471), (603, 51534), (606, 51543), (611, 51564), (614, 51576), (625, 51618), (644, 51714), (650, 51750), (652, 51759), (657, 51777), (675, 51873),

Gene: McGee_208 Start: 111920, Stop: 115408, Start Num: 14

Candidate Starts for McGee_208:

(Start: 14 @111920 has 47 MA's), (Start: 15 @111926 has 6 MA's), (Start: 18 @111938 has 8 MA's), (22, 111947), (Start: 47 @112013 has 171 MA's), (59, 112088), (78, 112202), (85, 112226), (95, 112286), (113, 112397), (118, 112436), (125, 112460), (130, 112502), (148, 112601), (159, 112643), (161, 112649), (164, 112661), (173, 112724), (180, 112784), (181, 112787), (186, 112814), (195, 112856), (210, 112919), (230, 113039), (236, 113075), (240, 113093), (243, 113108), (255, 113225), (260, 113264), (272, 113384), (278, 113426), (286, 113471), (288, 113480), (297, 113531), (306, 113573), (321, 113639), (322, 113648), (323, 113651), (324, 113657), (325, 113660), (326, 113669), (327, 113675), (328, 113690), (347, 113777), (367, 113882), (375, 113936), (384, 114023), (388, 114053), (393, 114083), (400, 114116), (402, 114125), (410, 114197), (414, 114227), (436, 114344), (443, 114389), (453, 114431), (479, 114575), (496, 114635), (518, 114737), (537, 114824), (538, 114827), (541, 114845), (547, 114881), (548, 114884), (568, 114944), (572, 114962), (591, 115058), (598, 115088), (602, 115106), (610, 115136), (635, 115229), (640, 115244), (656, 115325), (657, 115331), (661, 115343),

Gene: McWolfish_206 Start: 112835, Stop: 116230, Start Num: 47

Candidate Starts for McWolfish_206:

(Start: 14 @112742 has 47 MA's), (Start: 15 @112748 has 6 MA's), (Start: 18 @112760 has 8 MA's), (22, 112769), (Start: 47 @112835 has 171 MA's), (59, 112910), (78, 113024), (85, 113048), (95, 113108), (113, 113219), (118, 113258), (125, 113282), (130, 113324), (148, 113423), (159, 113465), (161, 113471), (164, 113483), (173, 113546), (180, 113606), (181, 113609), (186, 113636), (195, 113678), (210, 113741), (230, 113861), (236, 113897), (240, 113915), (243, 113930), (255, 114047), (260, 114086), (272, 114206), (278, 114248), (286, 114293), (288, 114302), (297, 114353), (306, 114395), (321, 114461), (322, 114470), (323, 114473), (324, 114479), (325, 114482), (326, 114491), (327, 114497), (328, 114512), (347, 114599), (367, 114704), (375, 114758), (384, 114845), (388, 114875), (393, 114905), (400, 114938), (402, 114947), (410, 115019), (414, 115049), (436, 115166), (443, 115211), (453, 115253), (479, 115397), (496, 115457), (518, 115559), (537, 115646), (538, 115649), (541, 115667), (547, 115703), (548, 115706), (568, 115766), (572, 115784), (591, 115880), (598, 115910), (602, 115928), (610, 115958), (635, 116051), (640, 116066), (656, 116147), (657, 116153), (661, 116165),

Gene: Megamind_206 Start: 113033, Stop: 116521, Start Num: 14

Candidate Starts for Megamind_206:

(Start: 14 @113033 has 47 MA's), (Start: 15 @113039 has 6 MA's), (Start: 18 @113051 has 8 MA's), (22, 113060), (Start: 47 @113126 has 171 MA's), (59, 113201), (78, 113315), (85, 113339), (95, 113399), (113, 113510), (118, 113549), (125, 113573), (130, 113615), (148, 113714), (159, 113756), (161, 113762), (164, 113774), (173, 113837), (180, 113897), (181, 113900), (186, 113927), (195, 113969), (210, 114032), (230, 114152), (236, 114188), (240, 114206), (243, 114221), (255, 114338), (260, 114377), (272, 114497), (278, 114539), (286, 114584), (288, 114593), (297, 114644), (306, 114686), (321, 114752), (322, 114761), (323, 114764), (324, 114770), (325, 114773), (326, 114782), (327, 114788), (328, 114803), (347, 114890), (367, 114995), (375, 115049), (384, 115136), (388, 115166), (393, 115196), (400, 115229), (402, 115238), (410, 115310), (414, 115340), (436, 115457), (443, 115502), (453, 115544), (479, 115688), (496, 115748), (518, 115850), (537, 115937), (538, 115940), (541, 115958), (547, 115994), (548, 115997), (568, 116057), (572, 116075), (591, 116171), (598, 116201), (602, 116219), (610, 116249), (635, 116342), (640, 116357), (656, 116438), (657, 116444), (661, 116456),

Gene: MeganTheeKilla_59 Start: 47958, Stop: 51248, Start Num: 49

Candidate Starts for MeganTheeKilla_59:

(Start: 49 @47958 has 71 MA's), (54, 47973), (55, 47979), (60, 48030), (Start: 65 @48054 has 1 MA's), (97, 48243), (109, 48333), (120, 48393), (139, 48513), (159, 48618), (169, 48681), (171, 48687), (177,

48726), (232, 48999), (242, 49053), (249, 49083), (253, 49122), (259, 49170), (320, 49470), (327, 49509), (345, 49614), (346, 49620), (347, 49626), (353, 49659), (356, 49674), (359, 49692), (362, 49704), (363, 49710), (370, 49743), (378, 49773), (380, 49782), (388, 49848), (390, 49854), (391, 49863), (401, 49917), (410, 49989), (421, 50043), (423, 50052), (427, 50070), (429, 50076), (453, 50190), (460, 50256), (463, 50268), (476, 50328), (478, 50331), (495, 50394), (496, 50400), (498, 50406), (520, 50511), (528, 50559), (529, 50562), (544, 50631), (559, 50700), (561, 50709), (576, 50778), (577, 50784), (582, 50796), (588, 50829), (589, 50832), (603, 50895), (606, 50904), (611, 50925), (614, 50937), (625, 50979), (644, 51075), (650, 51111), (652, 51120), (657, 51138), (675, 51234),

Gene: Melpomini_204 Start: 111911, Stop: 115306, Start Num: 47

Candidate Starts for Melpomini_204:

(Start: 14 @111818 has 47 MA's), (Start: 15 @111824 has 6 MA's), (Start: 18 @111836 has 8 MA's), (22, 111845), (Start: 47 @111911 has 171 MA's), (59, 111986), (78, 112100), (85, 112124), (95, 112184), (113, 112295), (118, 112334), (125, 112358), (130, 112400), (148, 112499), (159, 112541), (161, 112547), (164, 112559), (173, 112622), (180, 112682), (181, 112685), (186, 112712), (195, 112754), (210, 112817), (236, 112973), (240, 112991), (243, 113006), (255, 113123), (260, 113162), (272, 113282), (278, 113324), (286, 113369), (288, 113378), (297, 113429), (306, 113471), (321, 113537), (322, 113546), (323, 113549), (324, 113555), (325, 113558), (326, 113567), (327, 113573), (328, 113588), (347, 113675), (367, 113780), (375, 113834), (384, 113921), (388, 113951), (393, 113981), (400, 114014), (402, 114023), (410, 114095), (414, 114125), (436, 114242), (443, 114287), (453, 114329), (479, 114473), (496, 114533), (518, 114635), (537, 114722), (538, 114725), (541, 114743), (547, 114779), (548, 114782), (568, 114842), (572, 114860), (591, 114956), (598, 114986), (602, 115004), (610, 115034), (635, 115127), (640, 115142), (656, 115223), (657, 115229), (661, 115241),

Gene: MikeLiesIn_211 Start: 114262, Stop: 117657, Start Num: 47

Candidate Starts for MikeLiesIn_211:

(Start: 14 @114169 has 47 MA's), (Start: 15 @114175 has 6 MA's), (Start: 18 @114187 has 8 MA's), (22, 114196), (Start: 47 @114262 has 171 MA's), (59, 114337), (78, 114451), (85, 114475), (95, 114535), (113, 114646), (118, 114685), (125, 114709), (130, 114751), (148, 114850), (159, 114892), (161, 114898), (164, 114910), (173, 114973), (180, 115033), (181, 115036), (186, 115063), (195, 115105), (210, 115168), (230, 115288), (236, 115324), (240, 115342), (243, 115357), (255, 115474), (260, 115513), (272, 115633), (278, 115675), (286, 115720), (288, 115729), (297, 115780), (306, 115822), (321, 115888), (322, 115897), (323, 115900), (324, 115906), (325, 115909), (326, 115918), (327, 115924), (328, 115939), (347, 116026), (367, 116131), (375, 116185), (384, 116272), (388, 116302), (393, 116332), (400, 116365), (402, 116374), (410, 116446), (414, 116476), (436, 116593), (443, 116638), (453, 116680), (479, 116824), (496, 116884), (518, 116986), (537, 117073), (538, 117076), (541, 117094), (547, 117130), (548, 117133), (568, 117193), (572, 117211), (591, 117307), (598, 117337), (602, 117355), (610, 117385), (635, 117478), (640, 117493), (656, 117574), (657, 117580), (661, 117592),

Gene: Mikro_205 Start: 114811, Stop: 118206, Start Num: 47

Candidate Starts for Mikro_205:

(Start: 14 @114718 has 47 MA's), (Start: 15 @114724 has 6 MA's), (Start: 18 @114736 has 8 MA's), (22, 114745), (Start: 47 @114811 has 171 MA's), (59, 114886), (78, 115000), (85, 115024), (95, 115084), (113, 115195), (118, 115234), (125, 115258), (130, 115300), (148, 115399), (159, 115441), (161, 115447), (164, 115459), (173, 115522), (180, 115582), (181, 115585), (186, 115612), (195, 115654), (210, 115717), (236, 115873), (240, 115891), (243, 115906), (255, 116023), (260, 116062), (272, 116182), (278, 116224), (286, 116269), (288, 116278), (297, 116329), (306, 116371), (321, 116437), (322, 116446), (323, 116449), (324, 116455), (325, 116458), (326, 116467), (327, 116473), (328, 116488), (347, 116575), (367, 116680), (375, 116734), (384, 116821), (388, 116851), (393, 116881), (400, 116914), (402, 116923), (410, 116995), (414, 117025), (436, 117142), (443, 117187),

(453, 117229), (479, 117373), (496, 117433), (518, 117535), (537, 117622), (538, 117625), (541, 117643), (547, 117679), (548, 117682), (568, 117742), (572, 117760), (591, 117856), (598, 117886), (602, 117904), (610, 117934), (635, 118027), (640, 118042), (656, 118123), (657, 118129), (661, 118141),

Gene: Mikronejon_93 Start: 70021, Stop: 72849, Start Num: 33

Candidate Starts for Mikronejon_93:

(Start: 33 @70021 has 1 MA's), (Start: 37 @70033 has 1 MA's), (Start: 40 @70036 has 5 MA's), (59, 70129), (68, 70189), (93, 70339), (94, 70342), (96, 70348), (110, 70447), (114, 70477), (115, 70480), (126, 70543), (130, 70564), (131, 70567), (136, 70594), (161, 70711), (163, 70720), (170, 70777), (173, 70786), (182, 70852), (196, 70918), (233, 71083), (236, 71101), (239, 71116), (241, 71122), (243, 71134), (249, 71161), (250, 71164), (256, 71224), (257, 71233), (258, 71236), (260, 71248), (263, 71293), (271, 71362), (274, 71386), (300, 71542), (303, 71560), (308, 71584), (313, 71602), (330, 71698), (337, 71740), (339, 71746), (347, 71782), (349, 71791), (352, 71809), (353, 71815), (357, 71839), (358, 71845), (359, 71848), (363, 71866), (364, 71869), (383, 71962), (390, 72007), (391, 72013), (395, 72037), (396, 72040), (398, 72049), (399, 72055), (401, 72067), (418, 72184), (420, 72202), (421, 72205), (423, 72214), (446, 72328), (449, 72343), (474, 72490), (478, 72502), (480, 72508), (489, 72541), (497, 72574), (500, 72592), (503, 72604), (506, 72613), (525, 72727), (528, 72739), (532, 72754), (546, 72829), (547, 72838),

Gene: Mildred21_78 Start: 57592, Stop: 60879, Start Num: 49

Candidate Starts for Mildred21_78:

(Start: 49 @57592 has 71 MA's), (56, 57640), (60, 57670), (64, 57688), (Start: 65 @57694 has 1 MA's), (75, 57760), (109, 57973), (111, 57979), (127, 58075), (139, 58153), (159, 58258), (169, 58321), (171, 58327), (177, 58366), (200, 58483), (223, 58582), (242, 58693), (249, 58723), (253, 58762), (258, 58801), (285, 59005), (290, 59035), (327, 59149), (328, 59164), (346, 59260), (347, 59266), (356, 59314), (363, 59350), (378, 59413), (380, 59422), (390, 59494), (401, 59557), (406, 59608), (410, 59629), (421, 59683), (423, 59692), (425, 59701), (427, 59710), (429, 59716), (474, 59959), (493, 60028), (496, 60040), (519, 60145), (567, 60373), (577, 60424), (588, 60469), (603, 60535), (611, 60565), (616, 60583), (625, 60619), (633, 60664), (644, 60715), (653, 60763), (657, 60778),

Gene: MindFlayer_79 Start: 58051, Stop: 61371, Start Num: 48

Candidate Starts for MindFlayer_79:

(Start: 48 @58051 has 34 MA's), (57, 58102), (60, 58123), (Start: 65 @58147 has 1 MA's), (77, 58228), (109, 58426), (139, 58606), (146, 58654), (147, 58657), (159, 58711), (168, 58762), (169, 58780), (172, 58789), (177, 58825), (198, 58933), (200, 58942), (242, 59152), (253, 59221), (272, 59386), (285, 59464), (326, 59626), (340, 59713), (347, 59749), (363, 59833), (378, 59896), (380, 59905), (410, 60109), (421, 60163), (423, 60172), (427, 60190), (429, 60196), (461, 60379), (463, 60388), (469, 60412), (474, 60439), (499, 60547), (523, 60646), (539, 60736), (555, 60814), (565, 60856), (569, 60874), (577, 60916), (587, 60955), (588, 60961), (594, 60988), (603, 61027), (616, 61075), (617, 61084), (633, 61156), (640, 61177), (643, 61204), (644, 61207), (648, 61222), (653, 61255), (668, 61324),

Gene: MintFritos_93 Start: 69920, Stop: 72733, Start Num: 40

Candidate Starts for MintFritos_93:

(Start: 33 @69905 has 1 MA's), (Start: 37 @69917 has 1 MA's), (Start: 40 @69920 has 5 MA's), (59, 70013), (68, 70073), (93, 70223), (94, 70226), (96, 70232), (103, 70274), (110, 70331), (114, 70361), (115, 70364), (126, 70427), (130, 70448), (131, 70451), (136, 70478), (161, 70595), (163, 70604), (170, 70661), (173, 70670), (196, 70802), (233, 70967), (236, 70985), (239, 71000), (241, 71006), (243, 71018), (249, 71045), (250, 71048), (256, 71108), (257, 71117), (258, 71120), (260, 71132), (263, 71177), (271, 71246), (274, 71270), (300, 71426), (303, 71444), (308, 71468), (313, 71486), (330, 71582), (337, 71624), (339, 71630), (347, 71666), (349, 71675), (352, 71693), (353, 71699), (357, 71723), (358, 71729), (359, 71732), (363, 71750), (364, 71753), (383, 71846), (390, 71891),

(391, 71897), (395, 71921), (396, 71924), (398, 71933), (399, 71939), (401, 71951), (418, 72068), (420, 72086), (421, 72089), (423, 72098), (446, 72212), (449, 72227), (474, 72374), (478, 72386), (480, 72392), (489, 72425), (497, 72458), (500, 72476), (503, 72488), (506, 72497), (526, 72614), (532, 72638),

Gene: MoMoMixon_207 Start: 113214, Stop: 116696, Start Num: 15

Candidate Starts for MoMoMixon_207:

(Start: 14 @113208 has 47 MA's), (Start: 15 @113214 has 6 MA's), (Start: 18 @113226 has 8 MA's), (22, 113235), (Start: 47 @113301 has 171 MA's), (59, 113376), (78, 113490), (85, 113514), (95, 113574), (113, 113685), (118, 113724), (125, 113748), (130, 113790), (148, 113889), (159, 113931), (161, 113937), (164, 113949), (173, 114012), (180, 114072), (181, 114075), (186, 114102), (195, 114144), (210, 114207), (236, 114363), (240, 114381), (243, 114396), (255, 114513), (260, 114552), (272, 114672), (278, 114714), (286, 114759), (288, 114768), (297, 114819), (306, 114861), (321, 114927), (322, 114936), (323, 114939), (324, 114945), (325, 114948), (326, 114957), (327, 114963), (328, 114978), (347, 115065), (367, 115170), (375, 115224), (384, 115311), (388, 115341), (393, 115371), (400, 115404), (402, 115413), (410, 115485), (414, 115515), (436, 115632), (443, 115677), (453, 115719), (479, 115863), (496, 115923), (518, 116025), (537, 116112), (538, 116115), (541, 116133), (547, 116169), (548, 116172), (568, 116232), (572, 116250), (591, 116346), (598, 116376), (602, 116394), (610, 116424), (635, 116517), (640, 116532), (656, 116613), (657, 116619), (661, 116631),

Gene: Moab_61 Start: 49797, Stop: 53087, Start Num: 49

Candidate Starts for Moab_61:

(Start: 49 @49797 has 71 MA's), (54, 49812), (60, 49869), (64, 49887), (Start: 65 @49893 has 1 MA's), (99, 50103), (109, 50172), (111, 50178), (114, 50202), (120, 50232), (138, 50346), (139, 50352), (140, 50364), (159, 50457), (169, 50520), (171, 50526), (177, 50565), (193, 50655), (223, 50781), (242, 50892), (253, 50961), (256, 50988), (270, 51105), (320, 51309), (327, 51348), (343, 51447), (346, 51459), (347, 51465), (353, 51498), (359, 51531), (363, 51549), (378, 51612), (380, 51621), (388, 51687), (390, 51693), (401, 51756), (410, 51828), (421, 51882), (423, 51891), (425, 51900), (427, 51909), (429, 51915), (454, 52041), (463, 52107), (476, 52167), (478, 52170), (493, 52227), (498, 52245), (520, 52350), (528, 52398), (539, 52443), (561, 52548), (576, 52617), (577, 52623), (603, 52734), (606, 52743), (611, 52764), (627, 52827), (644, 52914), (654, 52965), (657, 52977), (668, 53031),

Gene: Moby_205 Start: 112201, Stop: 115671, Start Num: 18

Candidate Starts for Moby_205:

(Start: 14 @112183 has 47 MA's), (Start: 15 @112189 has 6 MA's), (Start: 18 @112201 has 8 MA's), (22, 112210), (Start: 47 @112276 has 171 MA's), (59, 112351), (78, 112465), (85, 112489), (95, 112549), (113, 112660), (118, 112699), (125, 112723), (130, 112765), (148, 112864), (159, 112906), (161, 112912), (164, 112924), (173, 112987), (180, 113047), (181, 113050), (186, 113077), (195, 113119), (210, 113182), (230, 113302), (236, 113338), (240, 113356), (243, 113371), (255, 113488), (260, 113527), (272, 113647), (278, 113689), (286, 113734), (288, 113743), (297, 113794), (306, 113836), (321, 113902), (322, 113911), (323, 113914), (324, 113920), (325, 113923), (326, 113932), (327, 113938), (328, 113953), (347, 114040), (367, 114145), (375, 114199), (384, 114286), (388, 114316), (393, 114346), (400, 114379), (402, 114388), (410, 114460), (414, 114490), (436, 114607), (443, 114652), (453, 114694), (479, 114838), (496, 114898), (518, 115000), (537, 115087), (538, 115090), (541, 115108), (547, 115144), (548, 115147), (568, 115207), (572, 115225), (591, 115321), (598, 115351), (602, 115369), (610, 115399), (635, 115492), (640, 115507), (656, 115588), (657, 115594), (661, 115606),

Gene: Moiqah_204 Start: 112253, Stop: 115648, Start Num: 47

Candidate Starts for Moiqah_204:

(Start: 14 @112160 has 47 MA's), (Start: 15 @112166 has 6 MA's), (Start: 18 @112178 has 8 MA's), (22, 112187), (Start: 47 @112253 has 171 MA's), (59, 112328), (78, 112442), (85, 112466), (95, 112526), (113, 112637), (118, 112676), (125, 112700), (130, 112742), (148, 112841), (159, 112883), (161, 112889), (164, 112901), (173, 112964), (180, 113024), (181, 113027), (186, 113054), (195, 113096), (210, 113159), (230, 113279), (236, 113315), (240, 113333), (243, 113348), (255, 113465), (260, 113504), (272, 113624), (278, 113666), (286, 113711), (288, 113720), (297, 113771), (306, 113813), (321, 113879), (322, 113888), (323, 113891), (324, 113897), (325, 113900), (326, 113909), (327, 113915), (328, 113930), (347, 114017), (367, 114122), (375, 114176), (384, 114263), (388, 114293), (393, 114323), (400, 114356), (402, 114365), (410, 114437), (414, 114467), (436, 114584), (443, 114629), (453, 114671), (479, 114815), (496, 114875), (518, 114977), (537, 115064), (538, 115067), (541, 115085), (547, 115121), (548, 115124), (568, 115184), (572, 115202), (591, 115298), (598, 115328), (602, 115346), (610, 115376), (635, 115469), (640, 115484), (656, 115565), (657, 115571), (661, 115583),

Gene: Momo_210 Start: 112377, Stop: 115772, Start Num: 47

Candidate Starts for Momo_210:

(Start: 14 @112284 has 47 MA's), (Start: 15 @112290 has 6 MA's), (Start: 18 @112302 has 8 MA's), (22, 112311), (Start: 47 @112377 has 171 MA's), (59, 112452), (78, 112566), (85, 112590), (95, 112650), (113, 112761), (118, 112800), (125, 112824), (130, 112866), (148, 112965), (159, 113007), (161, 113013), (164, 113025), (173, 113088), (180, 113148), (181, 113151), (186, 113178), (195, 113220), (210, 113283), (230, 113403), (236, 113439), (240, 113457), (243, 113472), (255, 113589), (260, 113628), (272, 113748), (278, 113790), (286, 113835), (288, 113844), (297, 113895), (306, 113937), (321, 114003), (322, 114012), (323, 114015), (324, 114021), (325, 114024), (326, 114033), (327, 114039), (328, 114054), (347, 114141), (367, 114246), (375, 114300), (384, 114387), (388, 114417), (393, 114447), (400, 114480), (402, 114489), (410, 114561), (414, 114591), (436, 114708), (443, 114753), (453, 114795), (479, 114939), (496, 114999), (518, 115101), (537, 115188), (538, 115191), (541, 115209), (547, 115245), (548, 115248), (568, 115308), (572, 115326), (591, 115422), (598, 115452), (602, 115470), (610, 115500), (635, 115593), (640, 115608), (656, 115689), (657, 115695), (661, 115707),

Gene: Montpel_207 Start: 114473, Stop: 117868, Start Num: 47

Candidate Starts for Montpel_207:

(Start: 14 @114380 has 47 MA's), (Start: 15 @114386 has 6 MA's), (Start: 18 @114398 has 8 MA's), (22, 114407), (Start: 47 @114473 has 171 MA's), (59, 114548), (78, 114662), (85, 114686), (95, 114746), (113, 114857), (118, 114896), (125, 114920), (130, 114962), (148, 115061), (159, 115103), (161, 115109), (164, 115121), (173, 115184), (180, 115244), (181, 115247), (186, 115274), (195, 115316), (210, 115379), (230, 115499), (236, 115535), (240, 115553), (243, 115568), (255, 115685), (260, 115724), (272, 115844), (278, 115886), (286, 115931), (288, 115940), (297, 115991), (306, 116033), (321, 116099), (322, 116108), (323, 116111), (324, 116117), (325, 116120), (326, 116129), (327, 116135), (328, 116150), (347, 116237), (367, 116342), (375, 116396), (384, 116483), (388, 116513), (393, 116543), (400, 116576), (402, 116585), (410, 116657), (414, 116687), (436, 116804), (443, 116849), (453, 116891), (479, 117035), (496, 117095), (518, 117197), (537, 117284), (538, 117287), (541, 117305), (547, 117341), (548, 117344), (568, 117404), (572, 117422), (591, 117518), (598, 117548), (602, 117566), (610, 117596), (635, 117689), (640, 117704), (656, 117785), (657, 117791), (661, 117803),

Gene: Morizzled23_206 Start: 111744, Stop: 115139, Start Num: 47

Candidate Starts for Morizzled23_206:

(Start: 14 @111651 has 47 MA's), (Start: 15 @111657 has 6 MA's), (Start: 18 @111669 has 8 MA's), (22, 111678), (Start: 47 @111744 has 171 MA's), (59, 111819), (78, 111933), (85, 111957), (95, 112017), (113, 112128), (118, 112167), (125, 112191), (130, 112233), (148, 112332), (159, 112374), (161, 112380), (164, 112392), (173, 112455), (180, 112515), (181, 112518), (186, 112545), (195, 112587), (210, 112650), (230, 112770), (236, 112806), (240, 112824), (243, 112839), (255, 112956),

(260, 112995), (272, 113115), (278, 113157), (286, 113202), (288, 113211), (297, 113262), (306, 113304), (321, 113370), (322, 113379), (323, 113382), (324, 113388), (325, 113391), (326, 113400), (327, 113406), (328, 113421), (347, 113508), (367, 113613), (375, 113667), (384, 113754), (388, 113784), (393, 113814), (400, 113847), (402, 113856), (410, 113928), (414, 113958), (436, 114075), (443, 114120), (453, 114162), (479, 114306), (496, 114366), (518, 114468), (537, 114555), (538, 114558), (541, 114576), (547, 114612), (548, 114615), (568, 114675), (572, 114693), (591, 114789), (598, 114819), (602, 114837), (610, 114867), (635, 114960), (640, 114975), (656, 115056), (657, 115062), (661, 115074),

Gene: Mugiwara_81 Start: 58808, Stop: 62128, Start Num: 48

Candidate Starts for Mugiwara_81:

(Start: 48 @58808 has 34 MA's), (57, 58859), (60, 58880), (Start: 65 @58904 has 1 MA's), (77, 58985), (109, 59183), (139, 59363), (146, 59411), (159, 59468), (160, 59471), (168, 59519), (169, 59537), (172, 59546), (177, 59582), (200, 59699), (242, 59909), (253, 59978), (272, 60143), (285, 60221), (326, 60383), (347, 60506), (363, 60590), (380, 60662), (410, 60866), (421, 60920), (423, 60929), (427, 60947), (429, 60953), (463, 61145), (469, 61169), (474, 61196), (499, 61304), (528, 61448), (537, 61481), (539, 61493), (555, 61571), (565, 61613), (569, 61631), (577, 61673), (587, 61712), (588, 61718), (594, 61745), (603, 61784), (616, 61832), (617, 61841), (633, 61913), (640, 61934), (643, 61961), (644, 61964), (652, 62009), (653, 62012), (665, 62066), (668, 62081),

Gene: MulchMansion_77 Start: 57396, Stop: 60680, Start Num: 49

Candidate Starts for MulchMansion_77:

(19, 57312), (28, 57339), (Start: 49 @57396 has 71 MA's), (56, 57441), (60, 57471), (64, 57489), (Start: 65 @57495 has 1 MA's), (109, 57774), (127, 57876), (139, 57954), (140, 57966), (159, 58059), (169, 58122), (171, 58128), (177, 58167), (200, 58284), (208, 58323), (223, 58383), (242, 58494), (249, 58524), (258, 58602), (281, 58791), (286, 58815), (290, 58836), (327, 58950), (328, 58965), (345, 59055), (346, 59061), (347, 59067), (351, 59091), (352, 59094), (363, 59151), (370, 59184), (378, 59214), (380, 59223), (390, 59295), (391, 59304), (401, 59358), (410, 59430), (421, 59484), (423, 59493), (425, 59502), (427, 59511), (429, 59517), (445, 59598), (474, 59760), (493, 59829), (496, 59841), (523, 59955), (575, 60216), (577, 60225), (603, 60336), (616, 60384), (633, 60465), (644, 60516), (653, 60564), (657, 60579),

Gene: Muntaha_58 Start: 50102, Stop: 53389, Start Num: 49

Candidate Starts for Muntaha_58:

(Start: 49 @50102 has 71 MA's), (60, 50174), (Start: 65 @50198 has 1 MA's), (80, 50294), (109, 50477), (120, 50537), (136, 50627), (139, 50657), (141, 50672), (144, 50699), (146, 50705), (159, 50762), (169, 50825), (177, 50870), (185, 50918), (229, 51122), (241, 51188), (242, 51197), (269, 51398), (272, 51431), (285, 51509), (290, 51539), (320, 51614), (327, 51653), (328, 51668), (346, 51764), (347, 51770), (353, 51803), (362, 51848), (363, 51854), (372, 51902), (380, 51926), (383, 51953), (385, 51971), (390, 51998), (401, 52061), (410, 52133), (421, 52187), (423, 52196), (427, 52214), (429, 52220), (454, 52346), (460, 52400), (463, 52412), (474, 52463), (476, 52472), (493, 52532), (529, 52706), (540, 52757), (564, 52865), (576, 52922), (577, 52928), (589, 52976), (603, 53039), (606, 53048), (636, 53177), (644, 53219), (648, 53234), (657, 53282),

Gene: Myrna_192 Start: 109812, Stop: 113228, Start Num: 43

Candidate Starts for Myrna_192:

(Start: 43 @109812 has 3 MA's), (60, 109899), (71, 109974), (86, 110037), (112, 110202), (151, 110430), (159, 110463), (161, 110469), (163, 110478), (165, 110484), (170, 110535), (173, 110544), (180, 110601), (181, 110604), (186, 110631), (199, 110688), (204, 110709), (210, 110733), (240, 110907), (243, 110922), (253, 111027), (270, 111171), (272, 111198), (288, 111294), (301, 111360), (315, 111417), (322, 111462), (323, 111465), (327, 111489), (330, 111510), (343, 111576), (347, 111594), (349, 111603), (353, 111627), (377, 111762), (397, 111909), (400, 111930), (402, 111939), (405, 111963), (411, 112020), (414, 112035), (421, 112065), (438, 112152), (443, 112188), (456,

112254), (460, 112296), (463, 112308), (467, 112317), (488, 112419), (496, 112455), (517, 112554), (548, 112704), (560, 112737), (586, 112860), (598, 112911), (602, 112929), (612, 112965), (619, 112995), (625, 113013), (634, 113049), (650, 113130), (657, 113151), (661, 113163), (669, 113205), (672, 113220),

Gene: Nabi_55 Start: 41492, Stop: 38013, Start Num: 47

Candidate Starts for Nabi_55:

(Start: 21 @41561 has 1 MA's), (Start: 47 @41492 has 171 MA's), (Start: 58 @41432 has 1 MA's), (59, 41423), (67, 41381), (81, 41288), (90, 41219), (102, 41150), (108, 41096), (122, 41024), (138, 40928), (163, 40850), (184, 40703), (192, 40664), (199, 40637), (203, 40619), (208, 40598), (212, 40583), (233, 40463), (235, 40451), (261, 40265), (262, 40259), (279, 40130), (281, 40112), (291, 40055), (292, 40052), (296, 40040), (326, 39902), (327, 39896), (328, 39881), (330, 39875), (336, 39842), (353, 39764), (359, 39731), (380, 39641), (386, 39590), (401, 39509), (402, 39503), (410, 39434), (417, 39392), (420, 39371), (425, 39350), (433, 39305), (442, 39266), (454, 39209), (455, 39200), (469, 39119), (474, 39092), (480, 39071), (483, 39050), (492, 39020), (499, 38993), (513, 38927), (515, 38918), (517, 38906), (534, 38819), (539, 38795), (560, 38699), (578, 38603), (596, 38519), (604, 38492), (638, 38354), (640, 38345), (643, 38318), (654, 38270), (656, 38264), (662, 38243), (663, 38237), (677, 38132), (680, 38105), (681, 38093),

Gene: Naija_210 Start: 113080, Stop: 116475, Start Num: 47

Candidate Starts for Naija_210:

(Start: 14 @112987 has 47 MA's), (Start: 15 @112993 has 6 MA's), (Start: 18 @113005 has 8 MA's), (22, 113014), (Start: 47 @113080 has 171 MA's), (59, 113155), (78, 113269), (85, 113293), (95, 113353), (113, 113464), (118, 113503), (125, 113527), (130, 113569), (148, 113668), (159, 113710), (161, 113716), (164, 113728), (173, 113791), (180, 113851), (181, 113854), (186, 113881), (195, 113923), (210, 113986), (230, 114106), (236, 114142), (240, 114160), (243, 114175), (255, 114292), (260, 114331), (272, 114451), (278, 114493), (286, 114538), (288, 114547), (297, 114598), (306, 114640), (321, 114706), (322, 114715), (323, 114718), (324, 114724), (325, 114727), (326, 114736), (327, 114742), (328, 114757), (347, 114844), (367, 114949), (375, 115003), (384, 115090), (388, 115120), (393, 115150), (400, 115183), (402, 115192), (410, 115264), (414, 115294), (436, 115411), (443, 115456), (453, 115498), (479, 115642), (496, 115702), (518, 115804), (537, 115891), (538, 115894), (541, 115912), (547, 115948), (548, 115951), (568, 116011), (572, 116029), (591, 116125), (598, 116155), (602, 116173), (610, 116203), (635, 116296), (640, 116311), (656, 116392), (657, 116398), (661, 116410),

Gene: Nanodon_56 Start: 41425, Stop: 37946, Start Num: 47

Candidate Starts for Nanodon_56:

(3, 41629), (Start: 21 @41494 has 1 MA's), (Start: 47 @41425 has 171 MA's), (Start: 58 @41362 has 1 MA's), (59, 41353), (81, 41218), (90, 41149), (102, 41080), (108, 41026), (122, 40954), (138, 40858), (163, 40780), (184, 40633), (192, 40594), (203, 40549), (208, 40528), (212, 40513), (233, 40393), (247, 40318), (261, 40195), (262, 40189), (269, 40144), (279, 40060), (281, 40042), (291, 39985), (292, 39982), (296, 39970), (326, 39832), (328, 39811), (330, 39805), (333, 39790), (336, 39772), (342, 39748), (344, 39742), (352, 39700), (353, 39694), (359, 39661), (386, 39520), (401, 39439), (402, 39433), (410, 39364), (420, 39301), (433, 39235), (442, 39196), (454, 39139), (455, 39130), (474, 39022), (475, 39013), (480, 39001), (483, 38980), (492, 38950), (499, 38923), (513, 38857), (515, 38848), (517, 38836), (534, 38749), (539, 38725), (578, 38533), (596, 38449), (604, 38422), (606, 38416), (638, 38284), (640, 38275), (643, 38248), (654, 38200), (656, 38194), (663, 38167), (681, 38023),

Gene: Napoleon13_206 Start: 112108, Stop: 115503, Start Num: 47

Candidate Starts for Napoleon13_206:

(Start: 14 @112015 has 47 MA's), (Start: 15 @112021 has 6 MA's), (Start: 18 @112033 has 8 MA's), (22, 112042), (Start: 47 @112108 has 171 MA's), (59, 112183), (78, 112297), (85, 112321), (95,

112381), (113, 112492), (118, 112531), (125, 112555), (130, 112597), (148, 112696), (159, 112738), (161, 112744), (164, 112756), (173, 112819), (180, 112879), (181, 112882), (186, 112909), (195, 112951), (210, 113014), (230, 113134), (236, 113170), (240, 113188), (243, 113203), (255, 113320), (260, 113359), (272, 113479), (278, 113521), (286, 113566), (288, 113575), (297, 113626), (306, 113668), (321, 113734), (322, 113743), (323, 113746), (324, 113752), (325, 113755), (326, 113764), (327, 113770), (328, 113785), (347, 113872), (367, 113977), (375, 114031), (384, 114118), (388, 114148), (393, 114178), (400, 114211), (402, 114220), (410, 114292), (414, 114322), (436, 114439), (443, 114484), (453, 114526), (479, 114670), (496, 114730), (518, 114832), (537, 114919), (538, 114922), (541, 114940), (547, 114976), (548, 114979), (568, 115039), (572, 115057), (591, 115153), (598, 115183), (602, 115201), (610, 115231), (635, 115324), (640, 115339), (656, 115420), (657, 115426), (661, 115438),

Gene: Nappy_210 Start: 114681, Stop: 118169, Start Num: 14

Candidate Starts for Nappy_210:

(Start: 14 @114681 has 47 MA's), (Start: 15 @114687 has 6 MA's), (Start: 18 @114699 has 8 MA's), (22, 114708), (Start: 47 @114774 has 171 MA's), (59, 114849), (78, 114963), (85, 114987), (95, 115047), (113, 115158), (118, 115197), (125, 115221), (130, 115263), (132, 115269), (148, 115362), (159, 115404), (161, 115410), (164, 115422), (173, 115485), (180, 115545), (181, 115548), (186, 115575), (195, 115617), (210, 115680), (236, 115836), (240, 115854), (243, 115869), (255, 115986), (260, 116025), (272, 116145), (278, 116187), (286, 116232), (288, 116241), (297, 116292), (306, 116334), (321, 116400), (322, 116409), (323, 116412), (324, 116418), (325, 116421), (326, 116430), (327, 116436), (328, 116451), (347, 116538), (367, 116643), (375, 116697), (384, 116784), (388, 116814), (393, 116844), (400, 116877), (402, 116886), (410, 116958), (414, 116988), (436, 117105), (443, 117150), (453, 117192), (479, 117336), (496, 117396), (518, 117498), (537, 117585), (538, 117588), (541, 117606), (547, 117642), (548, 117645), (568, 117705), (572, 117723), (591, 117819), (598, 117849), (602, 117867), (610, 117897), (635, 117990), (640, 118005), (656, 118086), (657, 118092), (661, 118104),

Gene: Naval22_214 Start: 114857, Stop: 118252, Start Num: 47

Candidate Starts for Naval22_214:

(Start: 14 @114764 has 47 MA's), (Start: 15 @114770 has 6 MA's), (Start: 18 @114782 has 8 MA's), (22, 114791), (Start: 47 @114857 has 171 MA's), (59, 114932), (78, 115046), (85, 115070), (95, 115130), (113, 115241), (118, 115280), (125, 115304), (130, 115346), (148, 115445), (159, 115487), (161, 115493), (164, 115505), (173, 115568), (180, 115628), (181, 115631), (186, 115658), (195, 115700), (210, 115763), (230, 115883), (236, 115919), (240, 115937), (243, 115952), (255, 116069), (260, 116108), (272, 116228), (278, 116270), (286, 116315), (288, 116324), (297, 116375), (306, 116417), (321, 116483), (322, 116492), (323, 116495), (324, 116501), (325, 116504), (326, 116513), (327, 116519), (328, 116534), (347, 116621), (367, 116726), (375, 116780), (384, 116867), (388, 116897), (393, 116927), (400, 116960), (402, 116969), (410, 117041), (414, 117071), (436, 117188), (443, 117233), (453, 117275), (479, 117419), (496, 117479), (518, 117581), (537, 117668), (538, 117671), (541, 117689), (547, 117725), (548, 117728), (568, 117788), (572, 117806), (591, 117902), (598, 117932), (602, 117950), (610, 117980), (635, 118073), (640, 118088), (656, 118169), (657, 118175), (661, 118187),

Gene: Navo_77 Start: 58485, Stop: 61769, Start Num: 49

Candidate Starts for Navo_77:

(Start: 49 @58485 has 71 MA's), (56, 58530), (60, 58560), (64, 58578), (Start: 65 @58584 has 1 MA's), (109, 58863), (111, 58869), (127, 58965), (139, 59043), (159, 59148), (169, 59211), (171, 59217), (177, 59256), (200, 59373), (223, 59472), (242, 59583), (249, 59613), (253, 59652), (285, 59895), (290, 59925), (327, 60039), (328, 60054), (345, 60144), (346, 60150), (347, 60156), (363, 60240), (378, 60303), (380, 60312), (390, 60384), (401, 60447), (410, 60519), (421, 60573), (423, 60582), (425, 60591), (427, 60600), (429, 60606), (445, 60687), (460, 60786), (474, 60849), (493, 60918), (496, 60930), (535, 61116), (539, 61134), (559, 61230), (567, 61263), (577, 61314), (588, 61359),

(603, 61425), (611, 61455), (616, 61473), (625, 61509), (633, 61554), (642, 61584), (644, 61605), (653, 61653), (657, 61668),

Gene: NedWong_208 Start: 113513, Stop: 116908, Start Num: 47

Candidate Starts for NedWong_208:

(Start: 14 @113420 has 47 MA's), (Start: 15 @113426 has 6 MA's), (Start: 18 @113438 has 8 MA's), (22, 113447), (Start: 47 @113513 has 171 MA's), (59, 113588), (78, 113702), (85, 113726), (95, 113786), (113, 113897), (118, 113936), (125, 113960), (130, 114002), (148, 114101), (159, 114143), (161, 114149), (164, 114161), (173, 114224), (180, 114284), (181, 114287), (186, 114314), (195, 114356), (210, 114419), (230, 114539), (236, 114575), (240, 114593), (243, 114608), (255, 114725), (260, 114764), (272, 114884), (278, 114926), (286, 114971), (288, 114980), (297, 115031), (306, 115073), (321, 115139), (322, 115148), (323, 115151), (324, 115157), (325, 115160), (326, 115169), (327, 115175), (328, 115190), (347, 115277), (367, 115382), (375, 115436), (384, 115523), (388, 115553), (393, 115583), (400, 115616), (402, 115625), (410, 115697), (414, 115727), (436, 115844), (443, 115889), (453, 115931), (479, 116075), (496, 116135), (518, 116237), (537, 116324), (538, 116327), (541, 116345), (547, 116381), (548, 116384), (568, 116444), (572, 116462), (591, 116558), (598, 116588), (602, 116606), (610, 116636), (635, 116729), (640, 116744), (656, 116825), (657, 116831), (661, 116843),

Gene: Nerdos_52 Start: 40231, Stop: 36752, Start Num: 47

Candidate Starts for Nerdos_52:

(2, 40441), (Start: 47 @40231 has 171 MA's), (59, 40159), (Start: 65 @40132 has 1 MA's), (67, 40117), (90, 39955), (94, 39928), (96, 39922), (108, 39832), (112, 39817), (121, 39763), (122, 39760), (138, 39664), (163, 39586), (184, 39439), (192, 39400), (203, 39355), (208, 39334), (212, 39319), (220, 39277), (223, 39265), (233, 39199), (235, 39187), (247, 39124), (262, 38995), (263, 38986), (269, 38950), (279, 38866), (281, 38848), (291, 38791), (292, 38788), (296, 38776), (326, 38638), (327, 38632), (328, 38617), (330, 38611), (336, 38578), (353, 38500), (359, 38467), (386, 38326), (397, 38269), (401, 38245), (402, 38239), (410, 38170), (420, 38107), (433, 38041), (437, 38020), (442, 38002), (454, 37945), (455, 37936), (474, 37828), (475, 37819), (480, 37807), (483, 37786), (492, 37756), (499, 37729), (513, 37663), (515, 37654), (517, 37642), (534, 37555), (539, 37531), (548, 37483), (578, 37339), (595, 37264), (638, 37090), (643, 37054), (654, 37006), (663, 36973),

Gene: Ngannou_206 Start: 111359, Stop: 114754, Start Num: 47

Candidate Starts for Ngannou_206:

(Start: 14 @111266 has 47 MA's), (Start: 15 @111272 has 6 MA's), (Start: 18 @111284 has 8 MA's), (22, 111293), (Start: 47 @111359 has 171 MA's), (59, 111434), (78, 111548), (85, 111572), (95, 111632), (113, 111743), (118, 111782), (125, 111806), (130, 111848), (148, 111947), (159, 111989), (161, 111995), (164, 112007), (173, 112070), (180, 112130), (181, 112133), (186, 112160), (195, 112202), (210, 112265), (230, 112385), (236, 112421), (240, 112439), (243, 112454), (255, 112571), (260, 112610), (272, 112730), (278, 112772), (286, 112817), (288, 112826), (297, 112877), (306, 112919), (321, 112985), (322, 112994), (323, 112997), (324, 113003), (325, 113006), (326, 113015), (327, 113021), (328, 113036), (347, 113123), (367, 113228), (375, 113282), (384, 113369), (388, 113399), (393, 113429), (400, 113462), (402, 113471), (410, 113543), (414, 113573), (436, 113690), (443, 113735), (453, 113777), (479, 113921), (496, 113981), (518, 114083), (537, 114170), (538, 114173), (541, 114191), (547, 114227), (548, 114230), (568, 114290), (572, 114308), (591, 114404), (598, 114434), (602, 114452), (610, 114482), (635, 114575), (640, 114590), (656, 114671), (657, 114677), (661, 114689),

Gene: NiceHouse_90 Start: 64900, Stop: 68652, Start Num: 52

Candidate Starts for NiceHouse_90:

(Start: 52 @64900 has 2 MA's), (56, 64942), (117, 65314), (118, 65326), (136, 65425), (139, 65455), (141, 65470), (146, 65503), (147, 65506), (160, 65563), (165, 65581), (168, 65605), (171, 65629), (177, 65668), (178, 65683), (179, 65689), (180, 65695), (192, 65755), (211, 65824), (223, 65881),

(229, 65917), (232, 65938), (255, 66073), (262, 66148), (276, 66256), (304, 66379), (322, 66457), (325, 66469), (328, 66499), (332, 66520), (350, 66613), (351, 66619), (355, 66637), (368, 66703), (371, 66721), (380, 66751), (383, 66778), (390, 66823), (421, 67009), (424, 67024), (427, 67036), (474, 67279), (484, 67306), (486, 67312), (535, 67564), (539, 67588), (543, 67612), (551, 67651), (564, 67708), (566, 67714), (569, 67735), (571, 67744), (581, 67798), (583, 67813), (585, 67825), (600, 67888), (601, 67894), (613, 67945), (618, 67972), (651, 68137), (654, 68149), (679, 68308), (682, 68332), (684, 68353), (687, 68371), (689, 68398), (690, 68401), (692, 68422), (697, 68491), (698, 68494), (707, 68590), (708, 68596), (710, 68620), (711, 68626),

Gene: Nidhogg_210 Start: 113906, Stop: 117301, Start Num: 47

Candidate Starts for Nidhogg_210:

(Start: 14 @113813 has 47 MA's), (Start: 15 @113819 has 6 MA's), (Start: 18 @113831 has 8 MA's), (22, 113840), (Start: 47 @113906 has 171 MA's), (59, 113981), (78, 114095), (85, 114119), (95, 114179), (113, 114290), (118, 114329), (125, 114353), (130, 114395), (148, 114494), (159, 114536), (161, 114542), (164, 114554), (173, 114617), (180, 114677), (181, 114680), (186, 114707), (195, 114749), (210, 114812), (230, 114932), (236, 114968), (240, 114986), (243, 115001), (255, 115118), (260, 115157), (272, 115277), (278, 115319), (286, 115364), (288, 115373), (297, 115424), (306, 115466), (321, 115532), (322, 115541), (323, 115544), (324, 115550), (325, 115553), (326, 115562), (327, 115568), (328, 115583), (347, 115670), (367, 115775), (375, 115829), (384, 115916), (388, 115946), (393, 115976), (400, 116009), (402, 116018), (410, 116090), (414, 116120), (436, 116237), (443, 116282), (453, 116324), (479, 116468), (496, 116528), (518, 116630), (537, 116717), (538, 116720), (541, 116738), (547, 116774), (548, 116777), (568, 116837), (572, 116855), (591, 116951), (598, 116981), (602, 116999), (610, 117029), (635, 117122), (640, 117137), (656, 117218), (657, 117224), (661, 117236),

Gene: NoodleTree_215 Start: 113813, Stop: 117208, Start Num: 47

Candidate Starts for NoodleTree_215:

(Start: 14 @113720 has 47 MA's), (Start: 15 @113726 has 6 MA's), (Start: 18 @113738 has 8 MA's), (22, 113747), (Start: 47 @113813 has 171 MA's), (59, 113888), (78, 114002), (85, 114026), (95, 114086), (113, 114197), (118, 114236), (125, 114260), (130, 114302), (148, 114401), (159, 114443), (161, 114449), (164, 114461), (173, 114524), (180, 114584), (181, 114587), (186, 114614), (195, 114656), (210, 114719), (236, 114875), (240, 114893), (243, 114908), (255, 115025), (260, 115064), (272, 115184), (278, 115226), (286, 115271), (288, 115280), (297, 115331), (306, 115373), (321, 115439), (322, 115448), (323, 115451), (324, 115457), (325, 115460), (326, 115469), (327, 115475), (328, 115490), (347, 115577), (367, 115682), (375, 115736), (384, 115823), (388, 115853), (393, 115883), (400, 115916), (402, 115925), (410, 115997), (414, 116027), (436, 116144), (443, 116189), (453, 116231), (479, 116375), (496, 116435), (518, 116537), (537, 116624), (538, 116627), (541, 116645), (547, 116681), (548, 116684), (568, 116744), (572, 116762), (591, 116858), (598, 116888), (602, 116906), (610, 116936), (635, 117029), (640, 117044), (656, 117125), (657, 117131), (661, 117143),

Gene: NootNoot_75 Start: 57480, Stop: 60764, Start Num: 49

Candidate Starts for NootNoot_75:

(Start: 49 @57480 has 71 MA's), (56, 57525), (60, 57555), (64, 57573), (Start: 65 @57579 has 1 MA's), (75, 57645), (109, 57858), (111, 57864), (127, 57960), (139, 58038), (159, 58143), (169, 58206), (171, 58212), (177, 58251), (200, 58368), (223, 58467), (242, 58578), (249, 58608), (253, 58647), (285, 58890), (327, 59034), (328, 59049), (346, 59145), (347, 59151), (351, 59175), (363, 59235), (378, 59298), (380, 59307), (390, 59379), (401, 59442), (410, 59514), (421, 59568), (423, 59577), (425, 59586), (427, 59595), (429, 59601), (445, 59682), (460, 59781), (474, 59844), (493, 59913), (496, 59925), (535, 60111), (539, 60129), (559, 60225), (567, 60258), (577, 60309), (588, 60354), (603, 60420), (611, 60450), (616, 60468), (625, 60504), (633, 60549), (636, 60558), (642, 60579), (644, 60600), (653, 60648), (657, 60663),

Gene: Norm_209 Start: 113815, Stop: 117210, Start Num: 47

Candidate Starts for Norm_209:

(Start: 6 @113692 has 5 MA's), (Start: 14 @113722 has 47 MA's), (Start: 15 @113728 has 6 MA's), (Start: 18 @113740 has 8 MA's), (22, 113749), (Start: 47 @113815 has 171 MA's), (59, 113890), (78, 114004), (85, 114028), (95, 114088), (113, 114199), (118, 114238), (125, 114262), (130, 114304), (148, 114403), (159, 114445), (161, 114451), (164, 114463), (173, 114526), (180, 114586), (181, 114589), (186, 114616), (195, 114658), (210, 114721), (230, 114841), (236, 114877), (240, 114895), (243, 114910), (255, 115027), (260, 115066), (272, 115186), (278, 115228), (286, 115273), (288, 115282), (297, 115333), (306, 115375), (321, 115441), (322, 115450), (323, 115453), (324, 115459), (325, 115462), (326, 115471), (327, 115477), (328, 115492), (347, 115579), (367, 115684), (375, 115738), (384, 115825), (388, 115855), (393, 115885), (400, 115918), (402, 115927), (410, 115999), (414, 116029), (436, 116146), (443, 116191), (453, 116233), (479, 116377), (496, 116437), (518, 116539), (537, 116626), (538, 116629), (541, 116647), (547, 116683), (548, 116686), (568, 116746), (572, 116764), (591, 116860), (598, 116890), (602, 116908), (610, 116938), (635, 117031), (640, 117046), (656, 117127), (657, 117133), (661, 117145),

Gene: Nova53_73 Start: 59972, Stop: 63763, Start Num: 44

Candidate Starts for Nova53_73:

(Start: 44 @59972 has 1 MA's), (45, 59978), (61, 60059), (103, 60308), (118, 60410), (140, 60551), (155, 60629), (158, 60641), (166, 60674), (168, 60695), (172, 60722), (175, 60740), (177, 60758), (205, 60905), (210, 60920), (214, 60941), (223, 60974), (230, 61019), (251, 61124), (252, 61151), (272, 61325), (280, 61385), (312, 61499), (318, 61535), (320, 61541), (339, 61649), (344, 61676), (355, 61733), (360, 61760), (363, 61775), (371, 61817), (380, 61847), (390, 61919), (393, 61943), (421, 62105), (427, 62132), (450, 62240), (452, 62246), (458, 62282), (459, 62312), (462, 62327), (472, 62381), (485, 62426), (487, 62441), (504, 62519), (511, 62552), (528, 62654), (550, 62765), (556, 62789), (564, 62825), (580, 62903), (589, 62948), (593, 62963), (597, 62987), (600, 62996), (606, 63020), (631, 63137), (654, 63257), (655, 63260), (665, 63311), (671, 63338), (676, 63392), (678, 63398), (679, 63416), (682, 63440), (685, 63467), (686, 63473), (687, 63479), (692, 63530), (694, 63551), (695, 63563), (700, 63620), (702, 63653), (708, 63704), (712, 63743), (713, 63746),

Gene: NuevoMundo_212 Start: 115367, Stop: 118762, Start Num: 47

Candidate Starts for NuevoMundo_212:

(Start: 14 @115274 has 47 MA's), (Start: 15 @115280 has 6 MA's), (Start: 18 @115292 has 8 MA's), (22, 115301), (Start: 47 @115367 has 171 MA's), (59, 115442), (78, 115556), (85, 115580), (95, 115640), (113, 115751), (118, 115790), (125, 115814), (130, 115856), (148, 115955), (159, 115997), (161, 116003), (164, 116015), (173, 116078), (180, 116138), (181, 116141), (186, 116168), (195, 116210), (210, 116273), (236, 116429), (240, 116447), (243, 116462), (255, 116579), (260, 116618), (272, 116738), (278, 116780), (286, 116825), (288, 116834), (297, 116885), (306, 116927), (321, 116993), (322, 117002), (323, 117005), (324, 117011), (325, 117014), (326, 117023), (327, 117029), (328, 117044), (347, 117131), (367, 117236), (375, 117290), (384, 117377), (388, 117407), (393, 117437), (400, 117470), (402, 117479), (410, 117551), (414, 117581), (436, 117698), (443, 117743), (453, 117785), (479, 117929), (496, 117989), (518, 118091), (537, 118178), (538, 118181), (541, 118199), (547, 118235), (548, 118238), (568, 118298), (572, 118316), (591, 118412), (598, 118442), (602, 118460), (610, 118490), (635, 118583), (640, 118598), (656, 118679), (657, 118685), (661, 118697),

Gene: Oliynyk_55 Start: 40726, Stop: 37247, Start Num: 47

Candidate Starts for Oliynyk_55:

(Start: 21 @40795 has 1 MA's), (Start: 47 @40726 has 171 MA's), (59, 40654), (Start: 65 @40627 has 1 MA's), (67, 40612), (90, 40450), (94, 40423), (96, 40417), (108, 40327), (112, 40312), (121, 40258), (122, 40255), (138, 40159), (163, 40081), (184, 39934), (192, 39895), (203, 39850), (208, 39829), (212, 39814), (220, 39772), (223, 39760), (233, 39694), (235, 39682), (247, 39619), (262, 39490), (263, 39481), (269, 39445), (279, 39361), (281, 39343), (291, 39286), (292, 39283), (296, 39271),

(326, 39133), (327, 39127), (328, 39112), (330, 39106), (338, 39067), (353, 38995), (359, 38962), (383, 38845), (386, 38821), (397, 38764), (401, 38740), (402, 38734), (410, 38665), (420, 38602), (433, 38536), (437, 38515), (442, 38497), (454, 38440), (455, 38431), (474, 38323), (475, 38314), (480, 38302), (483, 38281), (492, 38251), (499, 38224), (513, 38158), (515, 38149), (517, 38137), (534, 38050), (539, 38026), (548, 37978), (578, 37834), (595, 37759), (638, 37585), (643, 37549), (654, 37501), (663, 37468),

Gene: Oogie_96 Start: 71972, Stop: 74785, Start Num: 40

Candidate Starts for Oogie_96:

(Start: 33 @71957 has 1 MA's), (Start: 37 @71969 has 1 MA's), (Start: 40 @71972 has 5 MA's), (59, 72065), (68, 72125), (93, 72275), (94, 72278), (96, 72284), (103, 72326), (110, 72383), (114, 72413), (115, 72416), (126, 72479), (130, 72500), (131, 72503), (136, 72530), (153, 72620), (163, 72656), (170, 72713), (173, 72722), (196, 72854), (233, 73019), (236, 73037), (239, 73052), (241, 73058), (243, 73070), (249, 73097), (250, 73100), (256, 73160), (257, 73169), (258, 73172), (260, 73184), (263, 73229), (271, 73298), (274, 73322), (300, 73478), (303, 73496), (308, 73520), (313, 73538), (330, 73634), (337, 73676), (347, 73718), (349, 73727), (352, 73745), (353, 73751), (357, 73775), (358, 73781), (359, 73784), (363, 73802), (364, 73805), (383, 73898), (390, 73943), (391, 73949), (395, 73973), (396, 73976), (398, 73985), (399, 73991), (401, 74003), (418, 74120), (420, 74138), (421, 74141), (423, 74150), (446, 74264), (449, 74279), (474, 74426), (478, 74438), (480, 74444), (497, 74510), (500, 74528), (503, 74540), (506, 74549), (525, 74663), (528, 74675), (532, 74690), (546, 74765), (547, 74774),

Gene: OrediggerDelux_205 Start: 114045, Stop: 117440, Start Num: 47

Candidate Starts for OrediggerDelux_205:

(Start: 14 @113952 has 47 MA's), (Start: 15 @113958 has 6 MA's), (Start: 18 @113970 has 8 MA's), (22, 113979), (Start: 47 @114045 has 171 MA's), (59, 114120), (78, 114234), (85, 114258), (95, 114318), (113, 114429), (118, 114468), (125, 114492), (130, 114534), (148, 114633), (159, 114675), (161, 114681), (164, 114693), (173, 114756), (180, 114816), (181, 114819), (186, 114846), (195, 114888), (210, 114951), (230, 115071), (236, 115107), (240, 115125), (243, 115140), (255, 115257), (260, 115296), (272, 115416), (278, 115458), (286, 115503), (288, 115512), (297, 115563), (306, 115605), (321, 115671), (322, 115680), (323, 115683), (324, 115689), (325, 115692), (326, 115701), (327, 115707), (328, 115722), (347, 115809), (367, 115914), (375, 115968), (384, 116055), (388, 116085), (393, 116115), (400, 116148), (402, 116157), (410, 116229), (414, 116259), (436, 116376), (443, 116421), (453, 116463), (479, 116607), (496, 116667), (518, 116769), (537, 116856), (538, 116859), (541, 116877), (547, 116913), (548, 116916), (568, 116976), (572, 116994), (591, 117090), (598, 117120), (602, 117138), (610, 117168), (635, 117261), (640, 117276), (656, 117357), (657, 117363), (661, 117375),

Gene: Ozzie_52 Start: 40340, Stop: 36861, Start Num: 47

Candidate Starts for Ozzie_52:

(Start: 47 @40340 has 171 MA's), (59, 40268), (Start: 65 @40241 has 1 MA's), (67, 40226), (90, 40064), (94, 40037), (96, 40031), (108, 39941), (112, 39926), (121, 39872), (122, 39869), (138, 39773), (163, 39695), (184, 39548), (192, 39509), (203, 39464), (208, 39443), (212, 39428), (220, 39386), (223, 39374), (233, 39308), (235, 39296), (247, 39233), (262, 39104), (263, 39095), (269, 39059), (279, 38975), (281, 38957), (291, 38900), (292, 38897), (296, 38885), (326, 38747), (327, 38741), (328, 38726), (330, 38720), (336, 38687), (353, 38609), (359, 38576), (386, 38435), (397, 38378), (401, 38354), (402, 38348), (410, 38279), (420, 38216), (433, 38150), (437, 38129), (442, 38111), (454, 38054), (455, 38045), (474, 37937), (475, 37928), (480, 37916), (483, 37895), (492, 37865), (499, 37838), (513, 37772), (515, 37763), (517, 37751), (534, 37664), (539, 37640), (548, 37592), (578, 37448), (595, 37373), (638, 37199), (643, 37163), (654, 37115), (663, 37082),

Gene: OzzyJ_56 Start: 42394, Stop: 38909, Start Num: 47

Candidate Starts for OzzyJ_56:

(Start: 21 @42463 has 1 MA's), (Start: 47 @42394 has 171 MA's), (Start: 58 @42331 has 1 MA's), (59, 42322), (66, 42286), (81, 42187), (84, 42154), (90, 42118), (102, 42049), (108, 41995), (122, 41923), (127, 41887), (138, 41827), (184, 41602), (192, 41563), (199, 41536), (203, 41518), (208, 41497), (212, 41482), (220, 41440), (233, 41362), (235, 41350), (261, 41164), (262, 41158), (269, 41113), (279, 41029), (281, 41011), (291, 40954), (292, 40951), (296, 40939), (326, 40801), (327, 40795), (328, 40780), (330, 40774), (336, 40741), (353, 40663), (359, 40630), (386, 40489), (401, 40408), (402, 40402), (410, 40333), (417, 40291), (420, 40270), (425, 40249), (433, 40204), (454, 40108), (455, 40099), (457, 40093), (474, 39991), (475, 39982), (480, 39970), (483, 39949), (492, 39919), (499, 39892), (513, 39826), (515, 39817), (517, 39805), (534, 39718), (570, 39550), (578, 39502), (604, 39391), (609, 39370), (638, 39253), (640, 39244), (643, 39217), (654, 39169), (663, 39136), (680, 39004), (681, 38992),

Gene: PacManQ_79 Start: 58543, Stop: 61827, Start Num: 49

Candidate Starts for PacManQ_79:

(Start: 49 @58543 has 71 MA's), (56, 58588), (60, 58618), (64, 58636), (Start: 65 @58642 has 1 MA's), (109, 58921), (127, 59023), (139, 59101), (159, 59206), (169, 59269), (171, 59275), (177, 59314), (200, 59431), (219, 59515), (242, 59641), (249, 59671), (253, 59710), (254, 59719), (278, 59917), (327, 60097), (345, 60202), (346, 60208), (347, 60214), (363, 60298), (369, 60328), (380, 60370), (383, 60397), (387, 60430), (390, 60442), (401, 60505), (410, 60577), (421, 60631), (423, 60640), (425, 60649), (427, 60658), (429, 60664), (474, 60907), (493, 60976), (496, 60988), (519, 61093), (559, 61288), (567, 61321), (577, 61372), (587, 61411), (588, 61417), (603, 61483), (616, 61531), (625, 61567), (633, 61612), (636, 61621), (644, 61663), (652, 61708), (653, 61711), (657, 61726),

Gene: Pakusa_93 Start: 69747, Stop: 72575, Start Num: 33

Candidate Starts for Pakusa_93:

(Start: 33 @69747 has 1 MA's), (Start: 37 @69759 has 1 MA's), (Start: 40 @69762 has 5 MA's), (59, 69855), (68, 69915), (93, 70065), (94, 70068), (96, 70074), (110, 70173), (114, 70203), (115, 70206), (126, 70269), (130, 70290), (131, 70293), (136, 70320), (161, 70437), (163, 70446), (170, 70503), (173, 70512), (182, 70578), (196, 70644), (233, 70809), (236, 70827), (239, 70842), (241, 70848), (243, 70860), (249, 70887), (250, 70890), (256, 70950), (257, 70959), (258, 70962), (260, 70974), (263, 71019), (271, 71088), (274, 71112), (300, 71268), (303, 71286), (308, 71310), (313, 71328), (330, 71424), (337, 71466), (339, 71472), (347, 71508), (349, 71517), (352, 71535), (353, 71541), (357, 71565), (358, 71571), (359, 71574), (363, 71592), (364, 71595), (383, 71688), (390, 71733), (391, 71739), (395, 71763), (396, 71766), (398, 71775), (399, 71781), (401, 71793), (418, 71910), (420, 71928), (421, 71931), (423, 71940), (446, 72054), (449, 72069), (474, 72216), (478, 72228), (480, 72234), (489, 72267), (497, 72300), (500, 72318), (503, 72330), (506, 72339), (525, 72453), (528, 72465), (532, 72480), (546, 72555), (547, 72564),

Gene: Paradiddles_75 Start: 57744, Stop: 61028, Start Num: 49

Candidate Starts for Paradiddles_75:

(Start: 49 @57744 has 71 MA's), (56, 57789), (60, 57819), (64, 57837), (Start: 65 @57843 has 1 MA's), (75, 57909), (109, 58122), (111, 58128), (127, 58224), (139, 58302), (159, 58407), (169, 58470), (171, 58476), (177, 58515), (200, 58632), (223, 58731), (242, 58842), (249, 58872), (253, 58911), (285, 59154), (327, 59298), (328, 59313), (345, 59403), (346, 59409), (347, 59415), (351, 59439), (363, 59499), (378, 59562), (380, 59571), (390, 59643), (401, 59706), (410, 59778), (421, 59832), (423, 59841), (425, 59850), (427, 59859), (429, 59865), (445, 59946), (460, 60045), (474, 60108), (493, 60177), (496, 60189), (535, 60375), (539, 60393), (559, 60489), (567, 60522), (577, 60573), (587, 60612), (588, 60618), (603, 60684), (611, 60714), (616, 60732), (625, 60768), (633, 60813), (636, 60822), (642, 60843), (644, 60864), (653, 60912), (657, 60927),

Gene: ParkTD_208 Start: 113377, Stop: 116772, Start Num: 47

Candidate Starts for ParkTD_208:

(Start: 14 @113284 has 47 MA's), (Start: 15 @113290 has 6 MA's), (Start: 18 @113302 has 8 MA's), (22, 113311), (Start: 47 @113377 has 171 MA's), (59, 113452), (78, 113566), (85, 113590), (95, 113650), (113, 113761), (118, 113800), (125, 113824), (130, 113866), (148, 113965), (159, 114007), (161, 114013), (164, 114025), (173, 114088), (180, 114148), (181, 114151), (186, 114178), (195, 114220), (210, 114283), (230, 114403), (236, 114439), (240, 114457), (243, 114472), (255, 114589), (260, 114628), (272, 114748), (278, 114790), (286, 114835), (288, 114844), (297, 114895), (306, 114937), (321, 115003), (322, 115012), (323, 115015), (324, 115021), (325, 115024), (326, 115033), (327, 115039), (328, 115054), (347, 115141), (367, 115246), (375, 115300), (384, 115387), (388, 115417), (393, 115447), (400, 115480), (402, 115489), (410, 115561), (414, 115591), (436, 115708), (443, 115753), (453, 115795), (479, 115939), (496, 115999), (518, 116101), (537, 116188), (538, 116191), (541, 116209), (547, 116245), (548, 116248), (568, 116308), (572, 116326), (591, 116422), (598, 116452), (602, 116470), (610, 116500), (635, 116593), (640, 116608), (656, 116689), (657, 116695), (661, 116707),

Gene: Patelgo_60 Start: 49984, Stop: 53274, Start Num: 49

Candidate Starts for Patelgo_60:

(Start: 49 @49984 has 71 MA's), (54, 49999), (60, 50056), (64, 50074), (Start: 65 @50080 has 1 MA's), (99, 50290), (109, 50359), (111, 50365), (114, 50389), (120, 50419), (138, 50533), (139, 50539), (140, 50551), (159, 50644), (169, 50707), (171, 50713), (177, 50752), (193, 50842), (223, 50968), (242, 51079), (253, 51148), (256, 51175), (320, 51496), (327, 51535), (343, 51634), (346, 51646), (347, 51652), (351, 51676), (353, 51685), (359, 51718), (363, 51736), (378, 51799), (380, 51808), (388, 51874), (390, 51880), (401, 51943), (410, 52015), (421, 52069), (423, 52078), (425, 52087), (427, 52096), (429, 52102), (454, 52228), (463, 52294), (476, 52354), (478, 52357), (493, 52414), (498, 52432), (512, 52495), (520, 52537), (528, 52585), (561, 52735), (576, 52804), (577, 52810), (603, 52921), (606, 52930), (611, 52951), (627, 53014), (644, 53101), (654, 53152), (657, 53164), (668, 53218),

Gene: Patter_210 Start: 112391, Stop: 115786, Start Num: 47

Candidate Starts for Patter_210:

(Start: 14 @112298 has 47 MA's), (Start: 15 @112304 has 6 MA's), (Start: 18 @112316 has 8 MA's), (22, 112325), (Start: 47 @112391 has 171 MA's), (59, 112466), (78, 112580), (85, 112604), (95, 112664), (113, 112775), (118, 112814), (125, 112838), (130, 112880), (148, 112979), (159, 113021), (161, 113027), (164, 113039), (173, 113102), (180, 113162), (181, 113165), (186, 113192), (195, 113234), (210, 113297), (230, 113417), (236, 113453), (240, 113471), (243, 113486), (255, 113603), (260, 113642), (272, 113762), (278, 113804), (286, 113849), (288, 113858), (297, 113909), (306, 113951), (321, 114017), (322, 114026), (323, 114029), (324, 114035), (325, 114038), (326, 114047), (327, 114053), (328, 114068), (347, 114155), (367, 114260), (375, 114314), (384, 114401), (388, 114431), (393, 114461), (400, 114494), (402, 114503), (410, 114575), (414, 114605), (436, 114722), (443, 114767), (453, 114809), (479, 114953), (496, 115013), (518, 115115), (537, 115202), (538, 115205), (541, 115223), (547, 115259), (548, 115262), (568, 115322), (572, 115340), (591, 115436), (598, 115466), (602, 115484), (610, 115514), (635, 115607), (640, 115622), (656, 115703), (657, 115709), (661, 115721),

Gene: Peebs_79 Start: 58897, Stop: 62181, Start Num: 49

Candidate Starts for Peebs_79:

(Start: 49 @58897 has 71 MA's), (56, 58942), (60, 58972), (64, 58990), (Start: 65 @58996 has 1 MA's), (109, 59275), (127, 59377), (139, 59455), (159, 59560), (169, 59623), (171, 59629), (177, 59668), (200, 59785), (219, 59869), (242, 59995), (249, 60025), (253, 60064), (254, 60073), (327, 60451), (345, 60556), (346, 60562), (347, 60568), (351, 60592), (363, 60652), (369, 60682), (370, 60685), (380, 60724), (383, 60751), (390, 60796), (401, 60859), (410, 60931), (421, 60985), (423, 60994), (425, 61003), (427, 61012), (429, 61018), (474, 61261), (493, 61330), (496, 61342), (519, 61447), (559, 61642), (567, 61675), (577, 61726), (588, 61771), (603, 61837), (616, 61885), (625, 61921), (633, 61966), (636, 61975), (644, 62017), (652, 62062), (653, 62065), (657, 62080),

Gene: Pepperwood_80 Start: 59030, Stop: 62314, Start Num: 49

Candidate Starts for Pepperwood_80:

(Start: 49 @59030 has 71 MA's), (56, 59075), (60, 59105), (64, 59123), (Start: 65 @59129 has 1 MA's), (109, 59408), (139, 59588), (159, 59693), (169, 59756), (171, 59762), (177, 59801), (200, 59918), (219, 60002), (242, 60128), (249, 60158), (253, 60197), (254, 60206), (278, 60404), (327, 60584), (345, 60689), (346, 60695), (347, 60701), (363, 60785), (369, 60815), (380, 60857), (383, 60884), (387, 60917), (390, 60929), (401, 60992), (410, 61064), (421, 61118), (423, 61127), (425, 61136), (427, 61145), (429, 61151), (474, 61394), (493, 61463), (496, 61475), (519, 61580), (559, 61775), (567, 61808), (577, 61859), (588, 61904), (603, 61970), (616, 62018), (625, 62054), (633, 62099), (636, 62108), (644, 62150), (652, 62195), (653, 62198), (657, 62213),

Gene: Peregrin_100 Start: 61340, Stop: 64219, Start Num: 194

Candidate Starts for Peregrin_100:

(183, 61292), (189, 61322), (191, 61328), (Start: 194 @61340 has 3 MA's), (216, 61418), (223, 61445), (255, 61637), (281, 61859), (282, 61862), (289, 61895), (357, 62183), (363, 62210), (368, 62234), (380, 62282), (390, 62354), (393, 62378), (421, 62540), (427, 62567), (470, 62825), (474, 62849), (481, 62876), (490, 62921), (494, 62948), (504, 62987), (530, 63128), (539, 63173), (551, 63236), (561, 63281), (589, 63416), (600, 63464), (612, 63512), (618, 63548), (622, 63563), (642, 63650), (650, 63710), (654, 63725), (659, 63746), (686, 63941), (687, 63947), (690, 63974), (692, 63995), (694, 64016), (696, 64055), (697, 64064), (702, 64118), (704, 64124), (711, 64196),

Gene: Persimmon_77 Start: 57413, Stop: 60697, Start Num: 49

Candidate Starts for Persimmon_77:

(Start: 49 @57413 has 71 MA's), (56, 57458), (60, 57488), (64, 57506), (Start: 65 @57512 has 1 MA's), (75, 57578), (109, 57791), (111, 57797), (127, 57893), (139, 57971), (159, 58076), (169, 58139), (171, 58145), (177, 58184), (200, 58301), (223, 58400), (242, 58511), (249, 58541), (253, 58580), (285, 58823), (327, 58967), (328, 58982), (346, 59078), (347, 59084), (351, 59108), (363, 59168), (378, 59231), (380, 59240), (390, 59312), (401, 59375), (410, 59447), (421, 59501), (423, 59510), (425, 59519), (427, 59528), (429, 59534), (445, 59615), (460, 59714), (474, 59777), (493, 59846), (496, 59858), (535, 60044), (539, 60062), (559, 60158), (567, 60191), (577, 60242), (587, 60281), (588, 60287), (603, 60353), (611, 60383), (616, 60401), (625, 60437), (633, 60482), (636, 60491), (642, 60512), (644, 60533), (653, 60581), (657, 60596),

Gene: Phabba_203 Start: 109747, Stop: 113163, Start Num: 43

Candidate Starts for Phabba_203:

(Start: 43 @109747 has 3 MA's), (71, 109909), (86, 109972), (112, 110137), (130, 110245), (151, 110365), (159, 110398), (161, 110404), (170, 110470), (173, 110479), (180, 110536), (181, 110539), (186, 110566), (199, 110623), (204, 110644), (210, 110668), (240, 110842), (243, 110857), (244, 110860), (253, 110962), (270, 111106), (272, 111133), (288, 111229), (301, 111295), (315, 111352), (322, 111397), (323, 111400), (327, 111424), (330, 111445), (347, 111529), (349, 111538), (353, 111562), (377, 111697), (397, 111844), (398, 111850), (400, 111865), (402, 111874), (405, 111898), (408, 111943), (414, 111970), (421, 112000), (438, 112087), (443, 112123), (456, 112189), (460, 112231), (463, 112243), (467, 112252), (480, 112312), (488, 112354), (496, 112390), (517, 112489), (548, 112639), (560, 112672), (585, 112792), (586, 112795), (598, 112846), (602, 112864), (612, 112900), (619, 112930), (625, 112948), (634, 112984), (640, 112999), (650, 113065), (651, 113068), (657, 113086), (661, 113098), (668, 113137), (672, 113155),

Gene: PharkleMinkus_211 Start: 112933, Stop: 116328, Start Num: 47

Candidate Starts for PharkleMinkus_211:

(Start: 14 @112840 has 47 MA's), (Start: 15 @112846 has 6 MA's), (Start: 18 @112858 has 8 MA's), (22, 112867), (Start: 47 @112933 has 171 MA's), (59, 113008), (78, 113122), (85, 113146), (95, 113206), (113, 113317), (118, 113356), (125, 113380), (130, 113422), (148, 113521), (159, 113563),

(161, 113569), (164, 113581), (173, 113644), (180, 113704), (181, 113707), (186, 113734), (195, 113776), (210, 113839), (236, 113995), (240, 114013), (243, 114028), (255, 114145), (260, 114184), (272, 114304), (278, 114346), (286, 114391), (288, 114400), (297, 114451), (306, 114493), (321, 114559), (322, 114568), (323, 114571), (324, 114577), (325, 114580), (326, 114589), (327, 114595), (328, 114610), (347, 114697), (367, 114802), (375, 114856), (384, 114943), (388, 114973), (393, 115003), (400, 115036), (402, 115045), (410, 115117), (414, 115147), (436, 115264), (443, 115309), (453, 115351), (479, 115495), (496, 115555), (518, 115657), (537, 115744), (538, 115747), (541, 115765), (547, 115801), (548, 115804), (568, 115864), (572, 115882), (591, 115978), (598, 116008), (602, 116026), (610, 116056), (635, 116149), (640, 116164), (656, 116245), (657, 116251), (661, 116263),

Gene: Phettuccine_53 Start: 40232, Stop: 36753, Start Num: 47

Candidate Starts for Phettuccine_53:

(2, 40442), (Start: 47 @40232 has 171 MA's), (59, 40160), (Start: 65 @40133 has 1 MA's), (67, 40118), (90, 39956), (94, 39929), (96, 39923), (108, 39833), (112, 39818), (121, 39764), (122, 39761), (138, 39665), (163, 39587), (184, 39440), (192, 39401), (203, 39356), (208, 39335), (212, 39320), (220, 39278), (223, 39266), (233, 39200), (235, 39188), (247, 39125), (262, 38996), (263, 38987), (269, 38951), (279, 38867), (281, 38849), (291, 38792), (292, 38789), (296, 38777), (326, 38639), (327, 38633), (328, 38618), (330, 38612), (336, 38579), (353, 38501), (359, 38468), (386, 38327), (397, 38270), (401, 38246), (402, 38240), (410, 38171), (420, 38108), (433, 38042), (437, 38021), (442, 38003), (454, 37946), (455, 37937), (474, 37829), (475, 37820), (480, 37808), (483, 37787), (492, 37757), (499, 37730), (513, 37664), (515, 37655), (517, 37643), (534, 37556), (539, 37532), (548, 37484), (578, 37340), (595, 37265), (638, 37091), (643, 37055), (654, 37007), (663, 36974),

Gene: Phlegm_213 Start: 113080, Stop: 116475, Start Num: 47

Candidate Starts for Phlegm_213:

(Start: 14 @112987 has 47 MA's), (Start: 15 @112993 has 6 MA's), (Start: 18 @113005 has 8 MA's), (22, 113014), (Start: 47 @113080 has 171 MA's), (59, 113155), (78, 113269), (85, 113293), (95, 113353), (113, 113464), (118, 113503), (125, 113527), (130, 113569), (148, 113668), (159, 113710), (161, 113716), (164, 113728), (173, 113791), (180, 113851), (181, 113854), (186, 113881), (195, 113923), (210, 113986), (236, 114142), (240, 114160), (243, 114175), (255, 114292), (260, 114331), (272, 114451), (278, 114493), (286, 114538), (288, 114547), (297, 114598), (306, 114640), (321, 114706), (322, 114715), (323, 114718), (324, 114724), (325, 114727), (326, 114736), (327, 114742), (328, 114757), (347, 114844), (367, 114949), (375, 115003), (384, 115090), (388, 115120), (393, 115150), (400, 115183), (402, 115192), (410, 115264), (414, 115294), (436, 115411), (443, 115456), (453, 115498), (479, 115642), (496, 115702), (518, 115804), (537, 115891), (538, 115894), (541, 115912), (547, 115948), (548, 115951), (568, 116011), (572, 116029), (591, 116125), (598, 116155), (602, 116173), (610, 116203), (635, 116296), (640, 116311), (656, 116392), (657, 116398), (661, 116410),

Gene: Phox_210 Start: 113942, Stop: 117430, Start Num: 14

Candidate Starts for Phox_210:

(Start: 6 @113912 has 5 MA's), (Start: 14 @113942 has 47 MA's), (Start: 15 @113948 has 6 MA's), (Start: 18 @113960 has 8 MA's), (22, 113969), (Start: 47 @114035 has 171 MA's), (59, 114110), (78, 114224), (85, 114248), (95, 114308), (113, 114419), (118, 114458), (125, 114482), (130, 114524), (148, 114623), (159, 114665), (161, 114671), (164, 114683), (173, 114746), (180, 114806), (181, 114809), (186, 114836), (195, 114878), (210, 114941), (230, 115061), (236, 115097), (240, 115115), (243, 115130), (255, 115247), (260, 115286), (272, 115406), (278, 115448), (286, 115493), (288, 115502), (297, 115553), (306, 115595), (321, 115661), (322, 115670), (323, 115673), (324, 115679), (325, 115682), (326, 115691), (327, 115697), (328, 115712), (347, 115799), (367, 115904), (375, 115958), (384, 116045), (388, 116075), (393, 116105), (400, 116138), (402, 116147), (410, 116219), (414, 116249), (436, 116366), (443, 116411), (453, 116453), (479, 116597), (496, 116657), (518, 116759), (537, 116846), (538, 116849), (541, 116867), (547, 116903), (548, 116906), (568, 116966),

(572, 116984), (591, 117080), (598, 117110), (602, 117128), (610, 117158), (635, 117251), (640, 117266), (656, 117347), (657, 117353), (661, 117365),

Gene: Phrappuccino_119 Start: 86091, Stop: 89597, Start Num: 27

Candidate Starts for Phrappuccino_119:

(Start: 27 @86091 has 2 MA's), (Start: 47 @86145 has 171 MA's), (59, 86217), (80, 86340), (88, 86376), (118, 86565), (119, 86568), (138, 86688), (143, 86733), (148, 86760), (159, 86802), (161, 86808), (167, 86841), (169, 86871), (181, 86937), (186, 86964), (190, 86991), (206, 87057), (210, 87066), (216, 87099), (225, 87144), (230, 87186), (241, 87243), (243, 87255), (246, 87291), (248, 87318), (253, 87360), (255, 87372), (256, 87387), (269, 87492), (278, 87573), (282, 87597), (288, 87627), (306, 87732), (322, 87807), (328, 87849), (347, 87942), (350, 87960), (352, 87969), (374, 88080), (388, 88170), (397, 88212), (406, 88290), (410, 88311), (420, 88362), (447, 88506), (460, 88611), (478, 88686), (489, 88719), (513, 88827), (555, 89046), (557, 89052), (594, 89241), (598, 89256), (617, 89334), (635, 89409), (645, 89457), (656, 89505), (657, 89511), (668, 89559),

Gene: Phredrick_60 Start: 47859, Stop: 51149, Start Num: 49

Candidate Starts for Phredrick_60:

(Start: 49 @47859 has 71 MA's), (55, 47880), (57, 47910), (60, 47931), (Start: 65 @47955 has 1 MA's), (109, 48234), (120, 48294), (138, 48408), (139, 48414), (140, 48426), (159, 48519), (169, 48582), (171, 48588), (177, 48627), (180, 48654), (223, 48843), (226, 48858), (253, 49023), (259, 49071), (320, 49371), (327, 49410), (347, 49527), (353, 49560), (359, 49593), (363, 49611), (370, 49644), (380, 49683), (388, 49749), (390, 49755), (401, 49818), (410, 49890), (421, 49944), (423, 49953), (427, 49971), (429, 49977), (453, 50091), (460, 50157), (463, 50169), (476, 50229), (478, 50232), (498, 50307), (512, 50370), (520, 50412), (544, 50532), (561, 50610), (576, 50679), (577, 50685), (599, 50778), (603, 50796), (606, 50805), (611, 50826), (618, 50856), (627, 50889), (644, 50976), (647, 50988), (650, 51012), (657, 51039),

Gene: Phusco_207 Start: 111912, Stop: 115307, Start Num: 47

Candidate Starts for Phusco_207:

(Start: 14 @111819 has 47 MA's), (Start: 15 @111825 has 6 MA's), (Start: 18 @111837 has 8 MA's), (22, 111846), (Start: 47 @111912 has 171 MA's), (59, 111987), (78, 112101), (85, 112125), (95, 112185), (113, 112296), (118, 112335), (125, 112359), (130, 112401), (148, 112500), (159, 112542), (161, 112548), (164, 112560), (173, 112623), (180, 112683), (181, 112686), (186, 112713), (195, 112755), (210, 112818), (236, 112974), (240, 112992), (243, 113007), (255, 113124), (260, 113163), (272, 113283), (278, 113325), (286, 113370), (288, 113379), (297, 113430), (306, 113472), (321, 113538), (322, 113547), (323, 113550), (324, 113556), (325, 113559), (326, 113568), (327, 113574), (328, 113589), (347, 113676), (367, 113781), (375, 113835), (384, 113922), (388, 113952), (393, 113982), (400, 114015), (402, 114024), (410, 114096), (414, 114126), (436, 114243), (443, 114288), (453, 114330), (479, 114474), (496, 114534), (518, 114636), (537, 114723), (538, 114726), (541, 114744), (547, 114780), (548, 114783), (568, 114843), (572, 114861), (591, 114957), (598, 114987), (602, 115005), (610, 115035), (635, 115128), (640, 115143), (656, 115224), (657, 115230), (661, 115242),

Gene: Pier_210 Start: 114837, Stop: 118307, Start Num: 18

Candidate Starts for Pier_210:

(4, 114744), (Start: 14 @114819 has 47 MA's), (Start: 15 @114825 has 6 MA's), (Start: 18 @114837 has 8 MA's), (22, 114846), (Start: 47 @114912 has 171 MA's), (59, 114987), (78, 115101), (85, 115125), (95, 115185), (113, 115296), (118, 115335), (125, 115359), (130, 115401), (148, 115500), (159, 115542), (161, 115548), (164, 115560), (173, 115623), (180, 115683), (181, 115686), (186, 115713), (195, 115755), (210, 115818), (236, 115974), (240, 115992), (243, 116007), (255, 116124), (260, 116163), (272, 116283), (278, 116325), (286, 116370), (288, 116379), (297, 116430), (306, 116472), (321, 116538), (322, 116547), (323, 116550), (324, 116556), (325, 116559), (326, 116568), (327, 116574), (328, 116589), (347, 116676), (367, 116781), (375, 116835), (384, 116922), (388,

116952), (393, 116982), (400, 117015), (402, 117024), (410, 117096), (414, 117126), (436, 117243), (443, 117288), (453, 117330), (479, 117474), (496, 117534), (518, 117636), (537, 117723), (538, 117726), (541, 117744), (547, 117780), (548, 117783), (568, 117843), (572, 117861), (591, 117957), (598, 117987), (602, 118005), (610, 118035), (635, 118128), (640, 118143), (656, 118224), (657, 118230), (661, 118242),

Gene: Pinkcreek_193 Start: 112195, Stop: 115683, Start Num: 14

Candidate Starts for Pinkcreek_193:

(Start: 14 @112195 has 47 MA's), (Start: 15 @112201 has 6 MA's), (Start: 18 @112213 has 8 MA's), (22, 112222), (Start: 47 @112288 has 171 MA's), (59, 112363), (78, 112477), (85, 112501), (95, 112561), (113, 112672), (118, 112711), (125, 112735), (130, 112777), (148, 112876), (159, 112918), (161, 112924), (164, 112936), (173, 112999), (180, 113059), (181, 113062), (186, 113089), (195, 113131), (210, 113194), (230, 113314), (236, 113350), (240, 113368), (243, 113383), (255, 113500), (260, 113539), (272, 113659), (278, 113701), (286, 113746), (288, 113755), (297, 113806), (306, 113848), (321, 113914), (322, 113923), (323, 113926), (324, 113932), (325, 113935), (326, 113944), (327, 113950), (328, 113965), (347, 114052), (367, 114157), (375, 114211), (384, 114298), (388, 114328), (393, 114358), (400, 114391), (402, 114400), (410, 114472), (414, 114502), (436, 114619), (443, 114664), (453, 114706), (479, 114850), (496, 114910), (518, 115012), (537, 115099), (538, 115102), (541, 115120), (547, 115156), (548, 115159), (568, 115219), (572, 115237), (591, 115333), (598, 115363), (602, 115381), (610, 115411), (635, 115504), (640, 115519), (656, 115600), (657, 115606), (661, 115618),

Gene: PinkiePie_78 Start: 58566, Stop: 61850, Start Num: 49

Candidate Starts for PinkiePie_78:

(Start: 49 @58566 has 71 MA's), (56, 58611), (60, 58641), (64, 58659), (Start: 65 @58665 has 1 MA's), (75, 58731), (109, 58944), (111, 58950), (127, 59046), (139, 59124), (159, 59229), (169, 59292), (171, 59298), (177, 59337), (200, 59454), (223, 59553), (242, 59664), (249, 59694), (253, 59733), (285, 59976), (327, 60120), (328, 60135), (346, 60231), (347, 60237), (351, 60261), (363, 60321), (378, 60384), (380, 60393), (390, 60465), (401, 60528), (410, 60600), (421, 60654), (423, 60663), (425, 60672), (427, 60681), (429, 60687), (445, 60768), (460, 60867), (474, 60930), (493, 60999), (496, 61011), (535, 61197), (539, 61215), (559, 61311), (567, 61344), (577, 61395), (587, 61434), (588, 61440), (603, 61506), (611, 61536), (616, 61554), (625, 61590), (633, 61635), (636, 61644), (642, 61665), (644, 61686), (653, 61734), (657, 61749),

Gene: Pio_217 Start: 116011, Stop: 119499, Start Num: 14

Candidate Starts for Pio_217:

(Start: 14 @116011 has 47 MA's), (Start: 15 @116017 has 6 MA's), (Start: 18 @116029 has 8 MA's), (22, 116038), (Start: 47 @116104 has 171 MA's), (59, 116179), (78, 116293), (85, 116317), (95, 116377), (113, 116488), (118, 116527), (125, 116551), (130, 116593), (148, 116692), (159, 116734), (161, 116740), (164, 116752), (173, 116815), (180, 116875), (181, 116878), (186, 116905), (195, 116947), (210, 117010), (236, 117166), (240, 117184), (243, 117199), (255, 117316), (260, 117355), (272, 117475), (278, 117517), (286, 117562), (288, 117571), (297, 117622), (306, 117664), (321, 117730), (322, 117739), (323, 117742), (324, 117748), (325, 117751), (326, 117760), (327, 117766), (328, 117781), (347, 117868), (367, 117973), (375, 118027), (384, 118114), (388, 118144), (393, 118174), (400, 118207), (402, 118216), (410, 118288), (414, 118318), (436, 118435), (443, 118480), (453, 118522), (479, 118666), (496, 118726), (518, 118828), (537, 118915), (538, 118918), (541, 118936), (547, 118972), (548, 118975), (568, 119035), (572, 119053), (591, 119149), (598, 119179), (602, 119197), (610, 119227), (635, 119320), (640, 119335), (656, 119416), (657, 119422), (661, 119434),

Gene: Pivoine_210 Start: 113080, Stop: 116475, Start Num: 47

Candidate Starts for Pivoine_210:

(Start: 14 @112987 has 47 MA's), (Start: 15 @112993 has 6 MA's), (Start: 18 @113005 has 8 MA's), (22, 113014), (Start: 47 @113080 has 171 MA's), (59, 113155), (78, 113269), (85, 113293), (95, 113353), (113, 113464), (118, 113503), (125, 113527), (130, 113569), (148, 113668), (159, 113710), (161, 113716), (164, 113728), (173, 113791), (180, 113851), (181, 113854), (186, 113881), (195, 113923), (210, 113986), (230, 114106), (236, 114142), (240, 114160), (243, 114175), (255, 114292), (260, 114331), (272, 114451), (278, 114493), (286, 114538), (288, 114547), (297, 114598), (306, 114640), (321, 114706), (322, 114715), (323, 114718), (324, 114724), (325, 114727), (326, 114736), (327, 114742), (328, 114757), (347, 114844), (367, 114949), (375, 115003), (384, 115090), (388, 115120), (393, 115150), (400, 115183), (402, 115192), (410, 115264), (414, 115294), (436, 115411), (443, 115456), (453, 115498), (479, 115642), (496, 115702), (518, 115804), (537, 115891), (538, 115894), (541, 115912), (547, 115948), (548, 115951), (568, 116011), (572, 116029), (591, 116125), (598, 116155), (602, 116173), (610, 116203), (635, 116296), (640, 116311), (656, 116392), (657, 116398), (661, 116410),

Gene: Pleione_213 Start: 113768, Stop: 117250, Start Num: 15

Candidate Starts for Pleione_213:

(Start: 14 @113762 has 47 MA's), (Start: 15 @113768 has 6 MA's), (Start: 18 @113780 has 8 MA's), (22, 113789), (Start: 47 @113855 has 171 MA's), (59, 113930), (78, 114044), (85, 114068), (95, 114128), (113, 114239), (118, 114278), (125, 114302), (130, 114344), (148, 114443), (159, 114485), (161, 114491), (164, 114503), (173, 114566), (180, 114626), (181, 114629), (186, 114656), (195, 114698), (210, 114761), (230, 114881), (236, 114917), (240, 114935), (243, 114950), (255, 115067), (260, 115106), (272, 115226), (278, 115268), (286, 115313), (288, 115322), (297, 115373), (306, 115415), (321, 115481), (322, 115490), (323, 115493), (324, 115499), (325, 115502), (326, 115511), (327, 115517), (328, 115532), (347, 115619), (367, 115724), (375, 115778), (384, 115865), (388, 115895), (393, 115925), (400, 115958), (402, 115967), (410, 116039), (414, 116069), (436, 116186), (443, 116231), (453, 116273), (479, 116417), (496, 116477), (518, 116579), (537, 116666), (538, 116669), (541, 116687), (547, 116723), (548, 116726), (568, 116786), (572, 116804), (591, 116900), (598, 116930), (602, 116948), (610, 116978), (635, 117071), (640, 117086), (656, 117167), (657, 117173), (661, 117185),

Gene: Primadonna_204 Start: 112741, Stop: 116136, Start Num: 47

Candidate Starts for Primadonna_204:

(Start: 14 @112648 has 47 MA's), (Start: 15 @112654 has 6 MA's), (Start: 18 @112666 has 8 MA's), (22, 112675), (Start: 47 @112741 has 171 MA's), (59, 112816), (78, 112930), (85, 112954), (95, 113014), (113, 113125), (118, 113164), (125, 113188), (130, 113230), (148, 113329), (159, 113371), (161, 113377), (164, 113389), (173, 113452), (180, 113512), (181, 113515), (186, 113542), (195, 113584), (210, 113647), (236, 113803), (240, 113821), (243, 113836), (255, 113953), (260, 113992), (272, 114112), (278, 114154), (286, 114199), (288, 114208), (297, 114259), (306, 114301), (321, 114367), (322, 114376), (323, 114379), (324, 114385), (325, 114388), (326, 114397), (327, 114403), (328, 114418), (347, 114505), (367, 114610), (375, 114664), (384, 114751), (388, 114781), (393, 114811), (400, 114844), (402, 114853), (410, 114925), (414, 114955), (436, 115072), (443, 115117), (453, 115159), (479, 115303), (496, 115363), (518, 115465), (537, 115552), (538, 115555), (541, 115573), (547, 115609), (548, 115612), (568, 115672), (572, 115690), (591, 115786), (598, 115816), (602, 115834), (610, 115864), (635, 115957), (640, 115972), (656, 116053), (657, 116059), (661, 116071),

Gene: PumpkinSpice_81 Start: 58443, Stop: 61763, Start Num: 48

Candidate Starts for PumpkinSpice_81:

(Start: 48 @58443 has 34 MA's), (57, 58494), (60, 58515), (Start: 65 @58539 has 1 MA's), (77, 58620), (109, 58818), (139, 58998), (146, 59046), (159, 59103), (168, 59154), (169, 59172), (172, 59181), (177, 59217), (198, 59325), (200, 59334), (242, 59544), (253, 59613), (272, 59778), (285, 59856), (326, 60018), (347, 60141), (351, 60165), (363, 60225), (378, 60288), (380, 60297), (410, 60501), (421, 60555), (423, 60564), (427, 60582), (429, 60588), (461, 60771), (463, 60780), (469, 60804),

(474, 60831), (499, 60939), (539, 61128), (555, 61206), (565, 61248), (569, 61266), (577, 61308), (587, 61347), (588, 61353), (594, 61380), (603, 61419), (616, 61467), (617, 61476), (633, 61548), (640, 61569), (643, 61596), (644, 61599), (648, 61614), (653, 61647), (668, 61716),

Gene: Pupper_153 Start: 106237, Stop: 109692, Start Num: 47

Candidate Starts for Pupper_153:

(Start: 47 @106237 has 171 MA's), (59, 106312), (95, 106510), (101, 106546), (112, 106618), (114, 106639), (136, 106759), (138, 106783), (141, 106807), (143, 106828), (148, 106855), (159, 106897), (169, 106966), (173, 106978), (180, 107035), (181, 107038), (186, 107065), (210, 107167), (243, 107356), (244, 107359), (246, 107392), (284, 107710), (286, 107725), (287, 107728), (328, 107935), (329, 107938), (330, 107941), (331, 107950), (335, 107968), (347, 108031), (349, 108040), (361, 108103), (376, 108193), (388, 108304), (408, 108442), (410, 108445), (420, 108496), (421, 108499), (438, 108586), (463, 108757), (515, 108979), (558, 109180), (584, 109294), (585, 109303), (591, 109327), (596, 109354), (598, 109357), (602, 109375), (610, 109405), (615, 109423), (623, 109453), (624, 109456), (634, 109495), (635, 109498), (667, 109648),

Gene: Pupusa_213 Start: 114410, Stop: 117805, Start Num: 47

Candidate Starts for Pupusa_213:

(Start: 6 @114287 has 5 MA's), (Start: 14 @114317 has 47 MA's), (Start: 15 @114323 has 6 MA's), (Start: 18 @114335 has 8 MA's), (22, 114344), (Start: 47 @114410 has 171 MA's), (59, 114485), (78, 114599), (85, 114623), (95, 114683), (113, 114794), (118, 114833), (125, 114857), (130, 114899), (148, 114998), (159, 115040), (161, 115046), (164, 115058), (173, 115121), (180, 115181), (181, 115184), (186, 115211), (195, 115253), (210, 115316), (230, 115436), (236, 115472), (240, 115490), (243, 115505), (255, 115622), (260, 115661), (272, 115781), (278, 115823), (286, 115868), (288, 115877), (297, 115928), (306, 115970), (321, 116036), (322, 116045), (323, 116048), (324, 116054), (325, 116057), (326, 116066), (327, 116072), (328, 116087), (347, 116174), (367, 116279), (375, 116333), (384, 116420), (388, 116450), (393, 116480), (400, 116513), (402, 116522), (410, 116594), (414, 116624), (436, 116741), (443, 116786), (453, 116828), (479, 116972), (496, 117032), (518, 117134), (537, 117221), (538, 117224), (541, 117242), (547, 117278), (548, 117281), (568, 117341), (572, 117359), (591, 117455), (598, 117485), (602, 117503), (610, 117533), (635, 117626), (640, 117641), (656, 117722), (657, 117728), (661, 117740),

Gene: PurduePete_209 Start: 114083, Stop: 117478, Start Num: 47

Candidate Starts for PurduePete_209:

(Start: 14 @113990 has 47 MA's), (Start: 15 @113996 has 6 MA's), (Start: 18 @114008 has 8 MA's), (22, 114017), (Start: 47 @114083 has 171 MA's), (59, 114158), (78, 114272), (85, 114296), (95, 114356), (113, 114467), (118, 114506), (125, 114530), (130, 114572), (148, 114671), (159, 114713), (161, 114719), (164, 114731), (173, 114794), (180, 114854), (181, 114857), (186, 114884), (195, 114926), (210, 114989), (230, 115109), (236, 115145), (240, 115163), (243, 115178), (255, 115295), (260, 115334), (272, 115454), (278, 115496), (286, 115541), (288, 115550), (297, 115601), (306, 115643), (321, 115709), (322, 115718), (323, 115721), (324, 115727), (325, 115730), (326, 115739), (327, 115745), (328, 115760), (347, 115847), (367, 115952), (375, 116006), (384, 116093), (388, 116123), (393, 116153), (400, 116186), (402, 116195), (410, 116267), (414, 116297), (436, 116414), (443, 116459), (453, 116501), (479, 116645), (496, 116705), (518, 116807), (537, 116894), (538, 116897), (541, 116915), (547, 116951), (548, 116954), (568, 117014), (572, 117032), (591, 117128), (598, 117158), (602, 117176), (610, 117206), (635, 117299), (640, 117314), (656, 117395), (657, 117401), (661, 117413),

Gene: QBert_201 Start: 112436, Stop: 115831, Start Num: 47

Candidate Starts for QBert_201:

(Start: 6 @112313 has 5 MA's), (Start: 14 @112343 has 47 MA's), (Start: 15 @112349 has 6 MA's), (Start: 18 @112361 has 8 MA's), (22, 112370), (Start: 47 @112436 has 171 MA's), (59, 112511), (78, 112625), (85, 112649), (95, 112709), (113, 112820), (118, 112859), (125, 112883), (130, 112925),

(148, 113024), (159, 113066), (161, 113072), (164, 113084), (173, 113147), (180, 113207), (181, 113210), (186, 113237), (195, 113279), (210, 113342), (230, 113462), (236, 113498), (240, 113516), (243, 113531), (255, 113648), (260, 113687), (272, 113807), (278, 113849), (286, 113894), (288, 113903), (297, 113954), (306, 113996), (321, 114062), (322, 114071), (323, 114074), (324, 114080), (325, 114083), (326, 114092), (327, 114098), (328, 114113), (347, 114200), (367, 114305), (375, 114359), (384, 114446), (388, 114476), (393, 114506), (400, 114539), (402, 114548), (410, 114620), (414, 114650), (436, 114767), (443, 114812), (453, 114854), (479, 114998), (496, 115058), (518, 115160), (537, 115247), (538, 115250), (541, 115268), (547, 115304), (548, 115307), (568, 115367), (572, 115385), (591, 115481), (598, 115511), (602, 115529), (610, 115559), (635, 115652), (640, 115667), (656, 115748), (657, 115754), (661, 115766),

Gene: Quaran19_81 Start: 58434, Stop: 61754, Start Num: 48

Candidate Starts for Quaran19_81:

(Start: 48 @58434 has 34 MA's), (57, 58485), (60, 58506), (Start: 65 @58530 has 1 MA's), (77, 58611), (109, 58809), (139, 58989), (146, 59037), (159, 59094), (168, 59145), (169, 59163), (172, 59172), (177, 59208), (198, 59316), (200, 59325), (242, 59535), (253, 59604), (272, 59769), (285, 59847), (326, 60009), (347, 60132), (351, 60156), (363, 60216), (378, 60279), (380, 60288), (410, 60492), (421, 60546), (423, 60555), (427, 60573), (429, 60579), (461, 60762), (463, 60771), (469, 60795), (474, 60822), (499, 60930), (539, 61119), (555, 61197), (565, 61239), (569, 61257), (577, 61299), (587, 61338), (588, 61344), (594, 61371), (603, 61410), (616, 61458), (617, 61467), (633, 61539), (640, 61560), (643, 61587), (644, 61590), (648, 61605), (653, 61638), (668, 61707),

Gene: Quasimodo_211 Start: 113706, Stop: 117101, Start Num: 47

Candidate Starts for Quasimodo_211:

(Start: 14 @113613 has 47 MA's), (Start: 15 @113619 has 6 MA's), (Start: 18 @113631 has 8 MA's), (22, 113640), (Start: 47 @113706 has 171 MA's), (59, 113781), (78, 113895), (85, 113919), (95, 113979), (113, 114090), (118, 114129), (125, 114153), (130, 114195), (148, 114294), (159, 114336), (161, 114342), (164, 114354), (173, 114417), (180, 114477), (181, 114480), (186, 114507), (195, 114549), (210, 114612), (230, 114732), (236, 114768), (240, 114786), (243, 114801), (255, 114918), (260, 114957), (272, 115077), (278, 115119), (286, 115164), (288, 115173), (297, 115224), (306, 115266), (321, 115332), (322, 115341), (323, 115344), (324, 115350), (325, 115353), (326, 115362), (327, 115368), (328, 115383), (347, 115470), (367, 115575), (375, 115629), (384, 115716), (388, 115746), (393, 115776), (400, 115809), (402, 115818), (410, 115890), (414, 115920), (436, 116037), (443, 116082), (453, 116124), (479, 116268), (496, 116328), (518, 116430), (537, 116517), (538, 116520), (541, 116538), (547, 116574), (548, 116577), (568, 116637), (572, 116655), (591, 116751), (598, 116781), (602, 116799), (610, 116829), (635, 116922), (640, 116937), (656, 117018), (657, 117024), (661, 117036),

Gene: Rabinovish_202 Start: 113888, Stop: 117376, Start Num: 14

Candidate Starts for Rabinovish_202:

(Start: 14 @113888 has 47 MA's), (Start: 15 @113894 has 6 MA's), (Start: 18 @113906 has 8 MA's), (22, 113915), (Start: 47 @113981 has 171 MA's), (59, 114056), (78, 114170), (85, 114194), (95, 114254), (113, 114365), (118, 114404), (125, 114428), (130, 114470), (148, 114569), (159, 114611), (161, 114617), (164, 114629), (173, 114692), (180, 114752), (181, 114755), (186, 114782), (195, 114824), (210, 114887), (230, 115007), (236, 115043), (240, 115061), (243, 115076), (255, 115193), (260, 115232), (272, 115352), (278, 115394), (286, 115439), (288, 115448), (297, 115499), (306, 115541), (321, 115607), (322, 115616), (323, 115619), (324, 115625), (325, 115628), (326, 115637), (327, 115643), (328, 115658), (347, 115745), (367, 115850), (375, 115904), (384, 115991), (388, 116021), (393, 116051), (400, 116084), (402, 116093), (410, 116165), (414, 116195), (436, 116312), (443, 116357), (453, 116399), (479, 116543), (496, 116603), (518, 116705), (537, 116792), (538, 116795), (541, 116813), (547, 116849), (548, 116852), (568, 116912), (572, 116930), (591, 117026), (598, 117056), (602, 117074), (610, 117104), (635, 117197), (640, 117212), (656, 117293), (657, 117299), (661, 117311),

Gene: Rahel_210 Start: 112815, Stop: 116210, Start Num: 47

Candidate Starts for Rahel_210:

(Start: 14 @112722 has 47 MA's), (Start: 15 @112728 has 6 MA's), (Start: 18 @112740 has 8 MA's), (22, 112749), (Start: 47 @112815 has 171 MA's), (59, 112890), (78, 113004), (85, 113028), (95, 113088), (113, 113199), (118, 113238), (125, 113262), (130, 113304), (148, 113403), (159, 113445), (161, 113451), (164, 113463), (173, 113526), (180, 113586), (181, 113589), (186, 113616), (195, 113658), (210, 113721), (236, 113877), (240, 113895), (243, 113910), (255, 114027), (260, 114066), (272, 114186), (278, 114228), (286, 114273), (288, 114282), (297, 114333), (306, 114375), (321, 114441), (322, 114450), (323, 114453), (324, 114459), (325, 114462), (326, 114471), (327, 114477), (328, 114492), (347, 114579), (367, 114684), (375, 114738), (384, 114825), (388, 114855), (393, 114885), (400, 114918), (402, 114927), (410, 114999), (414, 115029), (436, 115146), (443, 115191), (453, 115233), (479, 115377), (496, 115437), (518, 115539), (537, 115626), (538, 115629), (541, 115647), (547, 115683), (548, 115686), (568, 115746), (572, 115764), (591, 115860), (598, 115890), (602, 115908), (610, 115938), (635, 116031), (640, 116046), (656, 116127), (657, 116133), (661, 116145),

Gene: Rana_55 Start: 41495, Stop: 38013, Start Num: 50

Candidate Starts for Rana_55:

(29, 41543), (30, 41534), (Start: 50 @41495 has 4 MA's), (Start: 58 @41432 has 1 MA's), (59, 41423), (67, 41381), (79, 41306), (81, 41288), (90, 41219), (102, 41150), (108, 41096), (122, 41024), (127, 40988), (138, 40928), (163, 40850), (184, 40703), (192, 40664), (199, 40637), (203, 40619), (208, 40598), (212, 40583), (233, 40463), (235, 40451), (261, 40265), (262, 40259), (269, 40214), (279, 40130), (281, 40112), (291, 40055), (292, 40052), (296, 40040), (326, 39902), (327, 39896), (328, 39881), (330, 39875), (336, 39842), (353, 39764), (359, 39731), (383, 39614), (386, 39590), (401, 39509), (402, 39503), (410, 39434), (420, 39371), (425, 39350), (433, 39305), (442, 39266), (454, 39209), (455, 39200), (474, 39092), (480, 39071), (483, 39050), (492, 39020), (499, 38993), (513, 38927), (515, 38918), (517, 38906), (534, 38819), (539, 38795), (560, 38699), (578, 38603), (596, 38519), (604, 38492), (638, 38354), (640, 38345), (643, 38318), (654, 38270), (656, 38264), (662, 38243), (663, 38237), (677, 38132), (680, 38105), (681, 38093),

Gene: RedBear_55 Start: 42740, Stop: 39261, Start Num: 47

Candidate Starts for RedBear_55:

(Start: 21 @42806 has 1 MA's), (Start: 47 @42740 has 171 MA's), (Start: 58 @42677 has 1 MA's), (59, 42668), (62, 42656), (67, 42626), (81, 42533), (84, 42500), (90, 42464), (102, 42395), (108, 42341), (122, 42269), (138, 42173), (163, 42095), (184, 41948), (192, 41909), (203, 41864), (208, 41843), (212, 41828), (215, 41807), (233, 41708), (235, 41696), (247, 41633), (261, 41510), (262, 41504), (269, 41459), (279, 41375), (281, 41357), (291, 41300), (292, 41297), (296, 41285), (326, 41147), (328, 41126), (330, 41120), (333, 41105), (342, 41063), (352, 41015), (353, 41009), (359, 40976), (386, 40835), (397, 40778), (401, 40754), (402, 40748), (410, 40679), (419, 40631), (420, 40616), (425, 40595), (433, 40550), (454, 40454), (455, 40445), (474, 40337), (475, 40328), (480, 40316), (483, 40295), (492, 40265), (499, 40238), (515, 40163), (517, 40151), (534, 40064), (539, 40040), (578, 39848), (604, 39737), (638, 39599), (643, 39563), (654, 39515), (656, 39509), (663, 39482), (680, 39350), (681, 39338), (682, 39332), (688, 39275),

Gene: RedWattleHog_79 Start: 71408, Stop: 74602, Start Num: 50

Candidate Starts for RedWattleHog_79:

(41, 71396), (Start: 50 @71408 has 4 MA's), (59, 71480), (69, 71552), (74, 71570), (80, 71603), (96, 71681), (108, 71768), (112, 71783), (121, 71837), (129, 71885), (136, 71924), (150, 71996), (151, 71999), (154, 72014), (163, 72047), (170, 72104), (173, 72113), (180, 72167), (181, 72170), (186, 72197), (199, 72254), (210, 72299), (216, 72332), (223, 72365), (230, 72419), (234, 72443), (240, 72473), (243, 72488), (247, 72515), (255, 72569), (265, 72665), (282, 72794), (284, 72800), (306, 72890), (315, 72926), (316, 72944), (322, 72965), (324, 72974), (386, 73301), (403, 73394), (408,

73454), (421, 73511), (422, 73517), (424, 73526), (432, 73571), (433, 73574), (442, 73622), (460, 73748), (478, 73823), (483, 73844), (491, 73871), (495, 73880), (496, 73886), (497, 73889), (505, 73925), (512, 73955), (525, 74033), (526, 74036), (536, 74072), (537, 74075), (545, 74111), (586, 74213), (592, 74237), (602, 74282), (607, 74300), (617, 74342), (635, 74405), (645, 74453), (649, 74483), (670, 74567),

Gene: Rikishi_82 Start: 58349, Stop: 61669, Start Num: 48

Candidate Starts for Rikishi_82:

(Start: 48 @58349 has 34 MA's), (57, 58400), (60, 58421), (Start: 65 @58445 has 1 MA's), (77, 58526), (109, 58724), (139, 58904), (146, 58952), (159, 59009), (168, 59060), (169, 59078), (172, 59087), (177, 59123), (198, 59231), (200, 59240), (242, 59450), (253, 59519), (272, 59684), (285, 59762), (326, 59924), (347, 60047), (351, 60071), (363, 60131), (378, 60194), (380, 60203), (410, 60407), (421, 60461), (423, 60470), (427, 60488), (429, 60494), (461, 60677), (463, 60686), (469, 60710), (474, 60737), (499, 60845), (539, 61034), (555, 61112), (565, 61154), (569, 61172), (577, 61214), (587, 61253), (588, 61259), (594, 61286), (603, 61325), (616, 61373), (617, 61382), (633, 61454), (640, 61475), (643, 61502), (644, 61505), (648, 61520), (653, 61553), (668, 61622),

Gene: Riptide_76 Start: 57198, Stop: 60482, Start Num: 49

Candidate Starts for Riptide_76:

(Start: 49 @57198 has 71 MA's), (56, 57243), (60, 57273), (Start: 65 @57297 has 1 MA's), (109, 57576), (117, 57615), (127, 57678), (139, 57756), (140, 57768), (159, 57861), (169, 57924), (171, 57930), (177, 57969), (200, 58086), (223, 58185), (242, 58296), (253, 58365), (258, 58404), (286, 58617), (327, 58752), (328, 58767), (345, 58857), (346, 58863), (347, 58869), (363, 58953), (378, 59016), (380, 59025), (383, 59052), (390, 59097), (401, 59160), (410, 59232), (421, 59286), (423, 59295), (425, 59304), (427, 59313), (429, 59319), (474, 59562), (493, 59631), (496, 59643), (497, 59646), (577, 60027), (594, 60099), (603, 60138), (616, 60186), (633, 60267), (636, 60276), (644, 60318), (653, 60366), (657, 60381), (665, 60420),

Gene: Rizal_201 Start: 111240, Stop: 114728, Start Num: 14

Candidate Starts for Rizal_201:

(Start: 14 @111240 has 47 MA's), (Start: 15 @111246 has 6 MA's), (Start: 18 @111258 has 8 MA's), (22, 111267), (Start: 47 @111333 has 171 MA's), (59, 111408), (78, 111522), (85, 111546), (95, 111606), (113, 111717), (118, 111756), (125, 111780), (130, 111822), (148, 111921), (159, 111963), (161, 111969), (164, 111981), (173, 112044), (180, 112104), (181, 112107), (186, 112134), (195, 112176), (210, 112239), (230, 112359), (236, 112395), (240, 112413), (243, 112428), (255, 112545), (260, 112584), (272, 112704), (278, 112746), (286, 112791), (288, 112800), (297, 112851), (306, 112893), (321, 112959), (322, 112968), (323, 112971), (324, 112977), (325, 112980), (326, 112989), (327, 112995), (328, 113010), (347, 113097), (367, 113202), (375, 113256), (384, 113343), (388, 113373), (393, 113403), (400, 113436), (402, 113445), (410, 113517), (414, 113547), (436, 113664), (443, 113709), (453, 113751), (479, 113895), (496, 113955), (518, 114057), (537, 114144), (538, 114147), (541, 114165), (547, 114201), (548, 114204), (568, 114264), (572, 114282), (591, 114378), (598, 114408), (602, 114426), (610, 114456), (635, 114549), (640, 114564), (656, 114645), (657, 114651), (661, 114663),

Gene: RoMag_204 Start: 113126, Stop: 116521, Start Num: 47

Candidate Starts for RoMag_204:

(Start: 14 @113033 has 47 MA's), (Start: 15 @113039 has 6 MA's), (Start: 18 @113051 has 8 MA's), (22, 113060), (Start: 47 @113126 has 171 MA's), (59, 113201), (78, 113315), (85, 113339), (95, 113399), (113, 113510), (118, 113549), (125, 113573), (130, 113615), (148, 113714), (159, 113756), (161, 113762), (164, 113774), (173, 113837), (180, 113897), (181, 113900), (186, 113927), (195, 113969), (210, 114032), (236, 114188), (240, 114206), (243, 114221), (255, 114338), (260, 114377), (272, 114497), (278, 114539), (286, 114584), (288, 114593), (297, 114644), (306, 114686), (321, 114752), (322, 114761), (323, 114764), (324, 114770), (325, 114773), (326, 114782), (327, 114788),

(328, 114803), (347, 114890), (367, 114995), (375, 115049), (384, 115136), (388, 115166), (393, 115196), (400, 115229), (402, 115238), (410, 115310), (414, 115340), (436, 115457), (443, 115502), (453, 115544), (479, 115688), (496, 115748), (518, 115850), (537, 115937), (538, 115940), (541, 115958), (547, 115994), (548, 115997), (568, 116057), (572, 116075), (591, 116171), (598, 116201), (602, 116219), (610, 116249), (635, 116342), (640, 116357), (656, 116438), (657, 116444), (661, 116456),

Gene: Rocha_206 Start: 112569, Stop: 115964, Start Num: 47

Candidate Starts for Rocha_206:

(Start: 14 @112476 has 47 MA's), (Start: 15 @112482 has 6 MA's), (Start: 18 @112494 has 8 MA's), (22, 112503), (Start: 47 @112569 has 171 MA's), (59, 112644), (78, 112758), (85, 112782), (95, 112842), (113, 112953), (118, 112992), (125, 113016), (130, 113058), (148, 113157), (159, 113199), (161, 113205), (164, 113217), (173, 113280), (180, 113340), (181, 113343), (186, 113370), (195, 113412), (210, 113475), (230, 113595), (236, 113631), (240, 113649), (243, 113664), (255, 113781), (260, 113820), (272, 113940), (278, 113982), (286, 114027), (288, 114036), (297, 114087), (306, 114129), (321, 114195), (322, 114204), (323, 114207), (324, 114213), (325, 114216), (326, 114225), (327, 114231), (328, 114246), (347, 114333), (367, 114438), (375, 114492), (384, 114579), (388, 114609), (393, 114639), (400, 114672), (402, 114681), (410, 114753), (414, 114783), (436, 114900), (443, 114945), (453, 114987), (479, 115131), (496, 115191), (518, 115293), (537, 115380), (538, 115383), (541, 115401), (547, 115437), (548, 115440), (568, 115500), (572, 115518), (591, 115614), (598, 115644), (602, 115662), (610, 115692), (635, 115785), (640, 115800), (656, 115881), (657, 115887), (661, 115899),

Gene: Ronan_205 Start: 111518, Stop: 114913, Start Num: 47

Candidate Starts for Ronan_205:

(Start: 6 @111395 has 5 MA's), (Start: 14 @111425 has 47 MA's), (Start: 15 @111431 has 6 MA's), (Start: 18 @111443 has 8 MA's), (22, 111452), (Start: 47 @111518 has 171 MA's), (59, 111593), (78, 111707), (85, 111731), (95, 111791), (113, 111902), (118, 111941), (125, 111965), (130, 112007), (148, 112106), (159, 112148), (161, 112154), (164, 112166), (173, 112229), (180, 112289), (181, 112292), (186, 112319), (195, 112361), (210, 112424), (230, 112544), (236, 112580), (240, 112598), (243, 112613), (255, 112730), (260, 112769), (272, 112889), (278, 112931), (286, 112976), (288, 112985), (297, 113036), (306, 113078), (321, 113144), (322, 113153), (323, 113156), (324, 113162), (325, 113165), (326, 113174), (327, 113180), (328, 113195), (347, 113282), (367, 113387), (375, 113441), (384, 113528), (388, 113558), (393, 113588), (400, 113621), (402, 113630), (410, 113702), (414, 113732), (436, 113849), (443, 113894), (453, 113936), (479, 114080), (496, 114140), (518, 114242), (537, 114329), (538, 114332), (541, 114350), (547, 114386), (548, 114389), (568, 114449), (572, 114467), (591, 114563), (598, 114593), (602, 114611), (610, 114641), (635, 114734), (640, 114749), (656, 114830), (657, 114836), (661, 114848),

Gene: Roots515_211 Start: 114541, Stop: 118029, Start Num: 14

Candidate Starts for Roots515_211:

(Start: 14 @114541 has 47 MA's), (Start: 15 @114547 has 6 MA's), (Start: 18 @114559 has 8 MA's), (22, 114568), (Start: 47 @114634 has 171 MA's), (59, 114709), (78, 114823), (85, 114847), (95, 114907), (113, 115018), (118, 115057), (125, 115081), (130, 115123), (148, 115222), (159, 115264), (161, 115270), (164, 115282), (173, 115345), (180, 115405), (181, 115408), (186, 115435), (195, 115477), (210, 115540), (230, 115660), (236, 115696), (240, 115714), (243, 115729), (255, 115846), (260, 115885), (272, 116005), (278, 116047), (286, 116092), (288, 116101), (297, 116152), (306, 116194), (321, 116260), (322, 116269), (323, 116272), (324, 116278), (325, 116281), (326, 116290), (327, 116296), (328, 116311), (347, 116398), (367, 116503), (375, 116557), (384, 116644), (388, 116674), (393, 116704), (400, 116737), (402, 116746), (410, 116818), (414, 116848), (436, 116965), (443, 117010), (453, 117052), (479, 117196), (496, 117256), (518, 117358), (537, 117445), (538, 117448), (541, 117466), (547, 117502), (548, 117505), (568, 117565), (572, 117583), (591, 117679), (598, 117709), (602, 117727), (610, 117757), (635, 117850), (640, 117865), (656, 117946), (657,

117952), (661, 117964),

Gene: Rusticus_55 Start: 40726, Stop: 37247, Start Num: 47

Candidate Starts for Rusticus_55:

(Start: 21 @40795 has 1 MA's), (Start: 47 @40726 has 171 MA's), (59, 40654), (Start: 65 @40627 has 1 MA's), (67, 40612), (90, 40450), (94, 40423), (96, 40417), (108, 40327), (112, 40312), (121, 40258), (122, 40255), (138, 40159), (163, 40081), (184, 39934), (192, 39895), (203, 39850), (208, 39829), (212, 39814), (220, 39772), (223, 39760), (233, 39694), (235, 39682), (247, 39619), (262, 39490), (263, 39481), (269, 39445), (279, 39361), (281, 39343), (291, 39286), (292, 39283), (296, 39271), (326, 39133), (327, 39127), (328, 39112), (330, 39106), (338, 39067), (353, 38995), (359, 38962), (383, 38845), (386, 38821), (397, 38764), (401, 38740), (402, 38734), (410, 38665), (420, 38602), (433, 38536), (437, 38515), (442, 38497), (454, 38440), (455, 38431), (474, 38323), (475, 38314), (480, 38302), (483, 38281), (492, 38251), (499, 38224), (513, 38158), (515, 38149), (517, 38137), (534, 38050), (539, 38026), (548, 37978), (578, 37834), (595, 37759), (638, 37585), (643, 37549), (654, 37501), (663, 37468),

Gene: SCentae_152 Start: 106391, Stop: 109846, Start Num: 47

Candidate Starts for SCentae_152:

(Start: 47 @106391 has 171 MA's), (59, 106466), (95, 106664), (101, 106700), (112, 106772), (125, 106838), (136, 106913), (138, 106937), (141, 106961), (143, 106982), (148, 107009), (159, 107051), (169, 107120), (173, 107132), (180, 107189), (181, 107192), (186, 107219), (210, 107321), (243, 107510), (244, 107513), (246, 107546), (284, 107864), (286, 107879), (287, 107882), (328, 108089), (329, 108092), (330, 108095), (331, 108104), (335, 108122), (347, 108185), (349, 108194), (361, 108257), (376, 108347), (388, 108458), (408, 108596), (410, 108599), (420, 108650), (421, 108653), (438, 108740), (463, 108911), (515, 109133), (558, 109334), (584, 109448), (585, 109457), (591, 109481), (596, 109508), (598, 109511), (602, 109529), (610, 109559), (615, 109577), (623, 109607), (624, 109610), (634, 109649), (635, 109652), (667, 109802),

Gene: SVoro_205 Start: 113335, Stop: 116823, Start Num: 14

Candidate Starts for SVoro_205:

(Start: 14 @113335 has 47 MA's), (Start: 15 @113341 has 6 MA's), (Start: 18 @113353 has 8 MA's), (22, 113362), (Start: 47 @113428 has 171 MA's), (59, 113503), (78, 113617), (85, 113641), (95, 113701), (113, 113812), (118, 113851), (125, 113875), (130, 113917), (148, 114016), (159, 114058), (161, 114064), (164, 114076), (173, 114139), (180, 114199), (181, 114202), (186, 114229), (195, 114271), (210, 114334), (236, 114490), (240, 114508), (243, 114523), (255, 114640), (260, 114679), (272, 114799), (278, 114841), (286, 114886), (288, 114895), (297, 114946), (306, 114988), (321, 115054), (322, 115063), (323, 115066), (324, 115072), (325, 115075), (326, 115084), (327, 115090), (328, 115105), (347, 115192), (367, 115297), (375, 115351), (384, 115438), (388, 115468), (393, 115498), (400, 115531), (402, 115540), (410, 115612), (414, 115642), (436, 115759), (443, 115804), (453, 115846), (479, 115990), (496, 116050), (518, 116152), (537, 116239), (538, 116242), (541, 116260), (547, 116296), (548, 116299), (568, 116359), (572, 116377), (591, 116473), (598, 116503), (602, 116521), (610, 116551), (635, 116644), (640, 116659), (656, 116740), (657, 116746), (661, 116758),

Gene: Salacia_209 Start: 113125, Stop: 116613, Start Num: 14

Candidate Starts for Salacia_209:

(Start: 14 @113125 has 47 MA's), (Start: 15 @113131 has 6 MA's), (Start: 18 @113143 has 8 MA's), (22, 113152), (Start: 47 @113218 has 171 MA's), (59, 113293), (78, 113407), (85, 113431), (95, 113491), (113, 113602), (118, 113641), (125, 113665), (130, 113707), (148, 113806), (159, 113848), (161, 113854), (164, 113866), (173, 113929), (180, 113989), (181, 113992), (186, 114019), (195, 114061), (210, 114124), (236, 114280), (240, 114298), (243, 114313), (255, 114430), (260, 114469), (272, 114589), (278, 114631), (286, 114676), (288, 114685), (297, 114736), (306, 114778), (321, 114844), (322, 114853), (323, 114856), (324, 114862), (325, 114865), (326, 114874), (327, 114880),

(328, 114895), (347, 114982), (367, 115087), (375, 115141), (384, 115228), (388, 115258), (393, 115288), (400, 115321), (402, 115330), (410, 115402), (414, 115432), (436, 115549), (443, 115594), (453, 115636), (479, 115780), (496, 115840), (518, 115942), (537, 116029), (538, 116032), (541, 116050), (547, 116086), (548, 116089), (568, 116149), (572, 116167), (591, 116263), (598, 116293), (602, 116311), (610, 116341), (635, 116434), (640, 116449), (656, 116530), (657, 116536), (661, 116548),

Gene: SaltySpittoon_81 Start: 58443, Stop: 61763, Start Num: 48

Candidate Starts for SaltySpittoon_81:

(Start: 48 @58443 has 34 MA's), (57, 58494), (60, 58515), (Start: 65 @58539 has 1 MA's), (77, 58620), (109, 58818), (139, 58998), (146, 59046), (147, 59049), (159, 59103), (168, 59154), (169, 59172), (172, 59181), (177, 59217), (198, 59325), (200, 59334), (242, 59544), (253, 59613), (272, 59778), (285, 59856), (326, 60018), (347, 60141), (351, 60165), (363, 60225), (378, 60288), (380, 60297), (410, 60501), (421, 60555), (423, 60564), (427, 60582), (429, 60588), (461, 60771), (463, 60780), (469, 60804), (474, 60831), (499, 60939), (539, 61128), (555, 61206), (565, 61248), (569, 61266), (577, 61308), (587, 61347), (588, 61353), (594, 61380), (603, 61419), (616, 61467), (617, 61476), (633, 61548), (640, 61569), (643, 61596), (644, 61599), (648, 61614), (653, 61647), (668, 61716),

Gene: Samisti12_80 Start: 60339, Stop: 63623, Start Num: 49

Candidate Starts for Samisti12_80:

(Start: 49 @60339 has 71 MA's), (56, 60384), (60, 60414), (64, 60432), (Start: 65 @60438 has 1 MA's), (109, 60717), (127, 60819), (139, 60897), (140, 60909), (159, 61002), (169, 61065), (171, 61071), (177, 61110), (200, 61227), (219, 61311), (242, 61437), (249, 61467), (253, 61506), (327, 61893), (345, 61998), (346, 62004), (347, 62010), (352, 62037), (363, 62094), (369, 62124), (380, 62166), (383, 62193), (390, 62238), (401, 62301), (410, 62373), (421, 62427), (423, 62436), (425, 62445), (427, 62454), (429, 62460), (474, 62703), (493, 62772), (496, 62784), (519, 62889), (559, 63084), (567, 63117), (577, 63168), (587, 63207), (588, 63213), (603, 63279), (616, 63327), (625, 63363), (633, 63408), (636, 63417), (644, 63459), (652, 63504), (653, 63507), (657, 63522),

Gene: SarahRose_54 Start: 42467, Stop: 38982, Start Num: 47

Candidate Starts for SarahRose_54:

(Start: 21 @42536 has 1 MA's), (Start: 47 @42467 has 171 MA's), (Start: 58 @42404 has 1 MA's), (59, 42395), (67, 42353), (81, 42260), (90, 42191), (102, 42122), (108, 42068), (122, 41996), (127, 41960), (138, 41900), (184, 41675), (192, 41636), (199, 41609), (203, 41591), (208, 41570), (212, 41555), (220, 41513), (233, 41435), (235, 41423), (261, 41237), (262, 41231), (269, 41186), (279, 41102), (281, 41084), (291, 41027), (292, 41024), (296, 41012), (326, 40874), (327, 40868), (328, 40853), (330, 40847), (336, 40814), (353, 40736), (359, 40703), (386, 40562), (401, 40481), (402, 40475), (410, 40406), (417, 40364), (420, 40343), (425, 40322), (433, 40277), (454, 40181), (455, 40172), (457, 40166), (474, 40064), (475, 40055), (480, 40043), (483, 40022), (492, 39992), (499, 39965), (513, 39899), (515, 39890), (517, 39878), (534, 39791), (570, 39623), (578, 39575), (604, 39464), (638, 39326), (640, 39317), (643, 39290), (654, 39242), (663, 39209), (666, 39182), (680, 39077), (681, 39065),

Gene: Sauce_205 Start: 112032, Stop: 115427, Start Num: 47

Candidate Starts for Sauce_205:

(Start: 6 @111909 has 5 MA's), (Start: 14 @111939 has 47 MA's), (Start: 15 @111945 has 6 MA's), (Start: 18 @111957 has 8 MA's), (22, 111966), (Start: 47 @112032 has 171 MA's), (59, 112107), (78, 112221), (85, 112245), (95, 112305), (113, 112416), (118, 112455), (125, 112479), (130, 112521), (148, 112620), (159, 112662), (161, 112668), (164, 112680), (173, 112743), (180, 112803), (181, 112806), (186, 112833), (195, 112875), (210, 112938), (230, 113058), (236, 113094), (240, 113112), (243, 113127), (255, 113244), (260, 113283), (272, 113403), (278, 113445), (286, 113490), (288, 113499), (297, 113550), (306, 113592), (321, 113658), (322, 113667), (323, 113670), (324, 113676), (325, 113679), (326, 113688), (327, 113694), (328, 113709), (347, 113796), (367, 113901), (375,

113955), (384, 114042), (388, 114072), (393, 114102), (400, 114135), (402, 114144), (410, 114216), (414, 114246), (436, 114363), (443, 114408), (453, 114450), (479, 114594), (496, 114654), (518, 114756), (537, 114843), (538, 114846), (541, 114864), (547, 114900), (548, 114903), (568, 114963), (572, 114981), (591, 115077), (598, 115107), (602, 115125), (610, 115155), (635, 115248), (640, 115263), (656, 115344), (657, 115350), (661, 115362),

Gene: ScarletRaider_99 Start: 73508, Stop: 76315, Start Num: 42

Candidate Starts for ScarletRaider_99:

(Start: 42 @73508 has 3 MA's), (59, 73598), (63, 73613), (68, 73658), (82, 73736), (93, 73808), (110, 73916), (114, 73946), (115, 73949), (116, 73952), (126, 74012), (130, 74033), (136, 74063), (161, 74180), (170, 74246), (173, 74255), (174, 74258), (196, 74387), (207, 74432), (210, 74441), (233, 74552), (236, 74570), (239, 74585), (241, 74591), (243, 74603), (249, 74630), (250, 74633), (256, 74693), (257, 74702), (260, 74717), (268, 74798), (271, 74831), (303, 75029), (308, 75053), (313, 75071), (328, 75161), (329, 75164), (337, 75209), (338, 75212), (347, 75251), (349, 75260), (353, 75284), (354, 75290), (358, 75314), (359, 75317), (363, 75335), (366, 75347), (390, 75476), (391, 75482), (395, 75506), (396, 75509), (399, 75524), (401, 75536), (418, 75653), (420, 75671), (421, 75674), (423, 75683), (444, 75788), (446, 75797), (451, 75824), (474, 75956), (478, 75968), (480, 75974), (497, 76040), (500, 76058), (503, 76070), (506, 76079), (512, 76115), (525, 76193), (532, 76220), (546, 76295), (547, 76304),

Gene: Scheme_81 Start: 59744, Stop: 63028, Start Num: 49

Candidate Starts for Scheme_81:

(Start: 49 @59744 has 71 MA's), (56, 59789), (60, 59819), (64, 59837), (Start: 65 @59843 has 1 MA's), (109, 60122), (127, 60224), (139, 60302), (159, 60407), (169, 60470), (171, 60476), (177, 60515), (200, 60632), (219, 60716), (242, 60842), (249, 60872), (253, 60911), (327, 61298), (345, 61403), (346, 61409), (347, 61415), (351, 61439), (363, 61499), (369, 61529), (370, 61532), (380, 61571), (383, 61598), (387, 61631), (390, 61643), (401, 61706), (410, 61778), (421, 61832), (423, 61841), (425, 61850), (427, 61859), (429, 61865), (474, 62108), (493, 62177), (496, 62189), (519, 62294), (559, 62489), (567, 62522), (577, 62573), (588, 62618), (603, 62684), (616, 62732), (625, 62768), (633, 62813), (636, 62822), (644, 62864), (652, 62909), (653, 62912), (657, 62927),

Gene: Schomber_96 Start: 69887, Stop: 72700, Start Num: 40

Candidate Starts for Schomber_96:

(Start: 33 @69872 has 1 MA's), (Start: 37 @69884 has 1 MA's), (Start: 40 @69887 has 5 MA's), (59, 69980), (68, 70040), (93, 70190), (94, 70193), (96, 70199), (110, 70298), (114, 70328), (115, 70331), (126, 70394), (130, 70415), (131, 70418), (136, 70445), (161, 70562), (163, 70571), (170, 70628), (173, 70637), (182, 70703), (196, 70769), (233, 70934), (236, 70952), (239, 70967), (241, 70973), (243, 70985), (249, 71012), (250, 71015), (256, 71075), (257, 71084), (258, 71087), (260, 71099), (263, 71144), (271, 71213), (274, 71237), (300, 71393), (303, 71411), (308, 71435), (313, 71453), (330, 71549), (337, 71591), (339, 71597), (347, 71633), (349, 71642), (352, 71660), (353, 71666), (357, 71690), (358, 71696), (359, 71699), (363, 71717), (364, 71720), (383, 71813), (390, 71858), (391, 71864), (395, 71888), (396, 71891), (398, 71900), (399, 71906), (401, 71918), (418, 72035), (420, 72053), (421, 72056), (423, 72065), (446, 72179), (449, 72194), (474, 72341), (478, 72353), (480, 72359), (489, 72392), (497, 72425), (500, 72443), (503, 72455), (506, 72464), (525, 72578), (528, 72590), (532, 72605), (546, 72680), (547, 72689),

Gene: ScoobyDoobyDoo_190 Start: 106890, Stop: 110309, Start Num: 43

Candidate Starts for ScoobyDoobyDoo_190:

(Start: 43 @106890 has 3 MA's), (71, 107052), (86, 107115), (89, 107139), (112, 107280), (130, 107388), (151, 107508), (159, 107541), (164, 107559), (173, 107622), (180, 107679), (181, 107682), (186, 107709), (199, 107766), (210, 107811), (243, 108000), (270, 108249), (288, 108372), (315, 108495), (321, 108531), (322, 108540), (327, 108567), (347, 108672), (353, 108705), (361, 108744), (373, 108810), (377, 108840), (393, 108975), (400, 109008), (402, 109017), (410, 109089), (414,

109113), (419, 109125), (421, 109143), (424, 109158), (436, 109221), (463, 109386), (488, 109497), (496, 109533), (502, 109563), (537, 109722), (548, 109782), (560, 109815), (585, 109935), (598, 109989), (602, 110007), (610, 110037), (612, 110043), (619, 110073), (635, 110130), (639, 110139), (640, 110145), (650, 110211), (654, 110220), (657, 110232), (662, 110247), (670, 110292), (672, 110301),

Gene: ScottMcG_202 Start: 111839, Stop: 115234, Start Num: 47

Candidate Starts for ScottMcG_202:

(Start: 14 @111746 has 47 MA's), (Start: 15 @111752 has 6 MA's), (Start: 18 @111764 has 8 MA's), (22, 111773), (Start: 47 @111839 has 171 MA's), (59, 111914), (78, 112028), (85, 112052), (95, 112112), (113, 112223), (118, 112262), (125, 112286), (130, 112328), (148, 112427), (159, 112469), (161, 112475), (164, 112487), (173, 112550), (180, 112610), (181, 112613), (186, 112640), (195, 112682), (210, 112745), (230, 112865), (236, 112901), (240, 112919), (243, 112934), (255, 113051), (260, 113090), (272, 113210), (278, 113252), (286, 113297), (288, 113306), (297, 113357), (306, 113399), (321, 113465), (322, 113474), (323, 113477), (324, 113483), (325, 113486), (326, 113495), (327, 113501), (328, 113516), (347, 113603), (367, 113708), (375, 113762), (384, 113849), (388, 113879), (393, 113909), (400, 113942), (402, 113951), (410, 114023), (414, 114053), (436, 114170), (443, 114215), (453, 114257), (479, 114401), (496, 114461), (518, 114563), (537, 114650), (538, 114653), (541, 114671), (547, 114707), (548, 114710), (568, 114770), (572, 114788), (591, 114884), (598, 114914), (602, 114932), (610, 114962), (635, 115055), (640, 115070), (656, 115151), (657, 115157), (661, 115169),

Gene: Sebata_210 Start: 114454, Stop: 117936, Start Num: 15

Candidate Starts for Sebata_210:

(Start: 14 @114448 has 47 MA's), (Start: 15 @114454 has 6 MA's), (Start: 18 @114466 has 8 MA's), (22, 114475), (Start: 47 @114541 has 171 MA's), (59, 114616), (78, 114730), (85, 114754), (95, 114814), (113, 114925), (118, 114964), (125, 114988), (130, 115030), (148, 115129), (159, 115171), (161, 115177), (164, 115189), (173, 115252), (180, 115312), (181, 115315), (186, 115342), (195, 115384), (210, 115447), (236, 115603), (240, 115621), (243, 115636), (255, 115753), (260, 115792), (272, 115912), (278, 115954), (286, 115999), (288, 116008), (297, 116059), (306, 116101), (321, 116167), (322, 116176), (323, 116179), (324, 116185), (325, 116188), (326, 116197), (327, 116203), (328, 116218), (347, 116305), (367, 116410), (375, 116464), (384, 116551), (388, 116581), (393, 116611), (400, 116644), (402, 116653), (410, 116725), (414, 116755), (436, 116872), (443, 116917), (453, 116959), (479, 117103), (496, 117163), (518, 117265), (537, 117352), (538, 117355), (541, 117373), (547, 117409), (548, 117412), (568, 117472), (572, 117490), (591, 117586), (598, 117616), (602, 117634), (610, 117664), (635, 117757), (640, 117772), (656, 117853), (657, 117859), (661, 117871),

Gene: SeresaTree_61 Start: 49159, Stop: 52449, Start Num: 49

Candidate Starts for SeresaTree_61:

(Start: 49 @49159 has 71 MA's), (54, 49174), (55, 49180), (60, 49231), (Start: 65 @49255 has 1 MA's), (109, 49534), (120, 49594), (138, 49708), (139, 49714), (159, 49819), (169, 49882), (171, 49888), (177, 49927), (275, 50506), (320, 50671), (327, 50710), (345, 50815), (346, 50821), (347, 50827), (351, 50851), (359, 50893), (370, 50944), (380, 50983), (390, 51055), (401, 51118), (410, 51190), (421, 51244), (423, 51253), (425, 51262), (427, 51271), (429, 51277), (460, 51457), (463, 51469), (469, 51493), (476, 51529), (478, 51532), (493, 51589), (495, 51595), (498, 51607), (520, 51712), (539, 51805), (561, 51910), (564, 51922), (576, 51979), (577, 51985), (588, 52030), (603, 52096), (606, 52105), (618, 52156), (627, 52189), (644, 52276), (654, 52327), (657, 52339), (674, 52426),

Gene: Settecandela_119 Start: 86091, Stop: 89597, Start Num: 27

Candidate Starts for Settecandela_119:

(Start: 27 @86091 has 2 MA's), (Start: 47 @86145 has 171 MA's), (59, 86217), (80, 86340), (88, 86376), (118, 86565), (119, 86568), (138, 86688), (143, 86733), (148, 86760), (159, 86802), (161,

86808), (167, 86841), (169, 86871), (181, 86937), (186, 86964), (190, 86991), (206, 87057), (210, 87066), (216, 87099), (225, 87144), (230, 87186), (241, 87243), (243, 87255), (246, 87291), (248, 87318), (253, 87360), (255, 87372), (256, 87387), (269, 87492), (278, 87573), (282, 87597), (288, 87627), (306, 87732), (322, 87807), (328, 87849), (347, 87942), (350, 87960), (352, 87969), (374, 88080), (388, 88170), (397, 88212), (406, 88290), (410, 88311), (420, 88362), (447, 88506), (460, 88611), (478, 88686), (489, 88719), (513, 88827), (555, 89046), (557, 89052), (594, 89241), (598, 89256), (617, 89334), (635, 89409), (645, 89457), (656, 89505), (657, 89511), (668, 89559),

Gene: Sham_57 Start: 49701, Stop: 52991, Start Num: 49

Candidate Starts for Sham_57:

(Start: 49 @49701 has 71 MA's), (54, 49716), (55, 49722), (57, 49752), (60, 49773), (64, 49791), (Start: 65 @49797 has 1 MA's), (103, 50025), (109, 50076), (114, 50106), (120, 50136), (121, 50139), (138, 50250), (139, 50256), (159, 50361), (169, 50424), (171, 50430), (177, 50469), (242, 50796), (249, 50826), (253, 50865), (275, 51048), (320, 51213), (327, 51252), (329, 51270), (346, 51363), (347, 51369), (353, 51402), (359, 51435), (362, 51447), (369, 51483), (370, 51486), (380, 51525), (390, 51597), (401, 51660), (406, 51711), (410, 51732), (421, 51786), (423, 51795), (425, 51804), (427, 51813), (429, 51819), (463, 52011), (476, 52071), (478, 52074), (493, 52131), (495, 52137), (498, 52149), (508, 52185), (520, 52254), (539, 52347), (561, 52452), (576, 52521), (577, 52527), (582, 52539), (603, 52638), (606, 52647), (611, 52668), (618, 52698), (627, 52731), (644, 52818), (646, 52827), (654, 52869), (657, 52881),

Gene: Shaqnato_200 Start: 112249, Stop: 115644, Start Num: 47

Candidate Starts for Shaqnato_200:

(Start: 6 @112126 has 5 MA's), (Start: 14 @112156 has 47 MA's), (Start: 15 @112162 has 6 MA's), (Start: 18 @112174 has 8 MA's), (22, 112183), (Start: 47 @112249 has 171 MA's), (59, 112324), (78, 112438), (85, 112462), (95, 112522), (113, 112633), (118, 112672), (125, 112696), (130, 112738), (148, 112837), (159, 112879), (161, 112885), (164, 112897), (173, 112960), (180, 113020), (181, 113023), (186, 113050), (195, 113092), (210, 113155), (230, 113275), (236, 113311), (240, 113329), (243, 113344), (255, 113461), (260, 113500), (272, 113620), (278, 113662), (286, 113707), (288, 113716), (297, 113767), (306, 113809), (321, 113875), (322, 113884), (323, 113887), (324, 113893), (325, 113896), (326, 113905), (327, 113911), (328, 113926), (347, 114013), (367, 114118), (375, 114172), (384, 114259), (388, 114289), (393, 114319), (400, 114352), (402, 114361), (410, 114433), (414, 114463), (436, 114580), (443, 114625), (453, 114667), (479, 114811), (496, 114871), (518, 114973), (537, 115060), (538, 115063), (541, 115081), (547, 115117), (548, 115120), (568, 115180), (572, 115198), (591, 115294), (598, 115324), (602, 115342), (610, 115372), (635, 115465), (640, 115480), (656, 115561), (657, 115567), (661, 115579),

Gene: Shelob_210 Start: 114989, Stop: 118384, Start Num: 47

Candidate Starts for Shelob_210:

(Start: 14 @114896 has 47 MA's), (Start: 15 @114902 has 6 MA's), (Start: 18 @114914 has 8 MA's), (22, 114923), (Start: 47 @114989 has 171 MA's), (59, 115064), (78, 115178), (85, 115202), (95, 115262), (113, 115373), (118, 115412), (125, 115436), (130, 115478), (148, 115577), (159, 115619), (161, 115625), (164, 115637), (173, 115700), (180, 115760), (181, 115763), (186, 115790), (195, 115832), (210, 115895), (230, 116015), (236, 116051), (240, 116069), (243, 116084), (255, 116201), (260, 116240), (272, 116360), (278, 116402), (286, 116447), (288, 116456), (297, 116507), (306, 116549), (321, 116615), (322, 116624), (323, 116627), (324, 116633), (325, 116636), (326, 116645), (327, 116651), (328, 116666), (347, 116753), (367, 116858), (375, 116912), (384, 116999), (388, 117029), (393, 117059), (400, 117092), (402, 117101), (410, 117173), (414, 117203), (436, 117320), (443, 117365), (453, 117407), (479, 117551), (496, 117611), (518, 117713), (537, 117800), (538, 117803), (541, 117821), (547, 117857), (548, 117860), (568, 117920), (572, 117938), (591, 118034), (598, 118064), (602, 118082), (610, 118112), (635, 118205), (640, 118220), (656, 118301), (657, 118307), (661, 118319),

Gene: ShiaLabeouf_206 Start: 112023, Stop: 115418, Start Num: 47

Candidate Starts for ShiaLabeouf_206:

(Start: 14 @111930 has 47 MA's), (Start: 15 @111936 has 6 MA's), (Start: 18 @111948 has 8 MA's), (22, 111957), (Start: 47 @112023 has 171 MA's), (59, 112098), (78, 112212), (85, 112236), (95, 112296), (113, 112407), (118, 112446), (125, 112470), (130, 112512), (148, 112611), (159, 112653), (161, 112659), (164, 112671), (173, 112734), (180, 112794), (181, 112797), (186, 112824), (195, 112866), (210, 112929), (236, 113085), (240, 113103), (243, 113118), (255, 113235), (260, 113274), (272, 113394), (278, 113436), (286, 113481), (288, 113490), (297, 113541), (306, 113583), (321, 113649), (322, 113658), (323, 113661), (324, 113667), (325, 113670), (326, 113679), (327, 113685), (328, 113700), (347, 113787), (367, 113892), (375, 113946), (384, 114033), (388, 114063), (393, 114093), (400, 114126), (402, 114135), (410, 114207), (414, 114237), (436, 114354), (443, 114399), (453, 114441), (479, 114585), (496, 114645), (518, 114747), (537, 114834), (538, 114837), (541, 114855), (547, 114891), (548, 114894), (568, 114954), (572, 114972), (591, 115068), (598, 115098), (602, 115116), (610, 115146), (635, 115239), (640, 115254), (656, 115335), (657, 115341), (661, 115353),

Gene: Shifa_186 Start: 112600, Stop: 115995, Start Num: 47

Candidate Starts for Shifa_186:

(Start: 14 @112507 has 47 MA's), (Start: 15 @112513 has 6 MA's), (Start: 18 @112525 has 8 MA's), (22, 112534), (Start: 47 @112600 has 171 MA's), (59, 112675), (78, 112789), (85, 112813), (95, 112873), (108, 112966), (113, 112984), (118, 113023), (125, 113047), (130, 113089), (148, 113188), (159, 113230), (161, 113236), (164, 113248), (173, 113311), (180, 113371), (181, 113374), (186, 113401), (195, 113443), (210, 113506), (236, 113662), (240, 113680), (243, 113695), (255, 113812), (260, 113851), (272, 113971), (278, 114013), (286, 114058), (288, 114067), (297, 114118), (306, 114160), (321, 114226), (322, 114235), (323, 114238), (324, 114244), (325, 114247), (326, 114256), (327, 114262), (328, 114277), (347, 114364), (367, 114469), (375, 114523), (384, 114610), (388, 114640), (393, 114670), (400, 114703), (402, 114712), (410, 114784), (414, 114814), (436, 114931), (443, 114976), (453, 115018), (479, 115162), (496, 115222), (518, 115324), (537, 115411), (538, 115414), (541, 115432), (547, 115468), (548, 115471), (568, 115531), (572, 115549), (591, 115645), (598, 115675), (602, 115693), (610, 115723), (635, 115816), (640, 115831), (656, 115912), (657, 115918), (661, 115930),

Gene: Shnickers_207 Start: 112087, Stop: 115482, Start Num: 47

Candidate Starts for Shnickers_207:

(Start: 14 @111994 has 47 MA's), (Start: 15 @112000 has 6 MA's), (Start: 18 @112012 has 8 MA's), (22, 112021), (Start: 47 @112087 has 171 MA's), (59, 112162), (78, 112276), (85, 112300), (95, 112360), (113, 112471), (118, 112510), (125, 112534), (130, 112576), (148, 112675), (159, 112717), (161, 112723), (164, 112735), (173, 112798), (180, 112858), (181, 112861), (186, 112888), (195, 112930), (210, 112993), (236, 113149), (240, 113167), (243, 113182), (255, 113299), (260, 113338), (272, 113458), (278, 113500), (286, 113545), (288, 113554), (297, 113605), (306, 113647), (321, 113713), (322, 113722), (323, 113725), (324, 113731), (325, 113734), (326, 113743), (327, 113749), (328, 113764), (347, 113851), (367, 113956), (375, 114010), (384, 114097), (388, 114127), (393, 114157), (400, 114190), (402, 114199), (410, 114271), (414, 114301), (436, 114418), (443, 114463), (453, 114505), (479, 114649), (496, 114709), (518, 114811), (537, 114898), (538, 114901), (541, 114919), (547, 114955), (548, 114958), (568, 115018), (572, 115036), (591, 115132), (598, 115162), (602, 115180), (610, 115210), (635, 115303), (640, 115318), (656, 115399), (657, 115405), (661, 115417),

Gene: Shrimp_211 Start: 114051, Stop: 117539, Start Num: 14

Candidate Starts for Shrimp_211:

(Start: 14 @114051 has 47 MA's), (Start: 15 @114057 has 6 MA's), (Start: 18 @114069 has 8 MA's), (22, 114078), (Start: 47 @114144 has 171 MA's), (59, 114219), (78, 114333), (85, 114357), (95, 114417), (113, 114528), (118, 114567), (125, 114591), (130, 114633), (148, 114732), (159, 114774),

(161, 114780), (164, 114792), (173, 114855), (180, 114915), (181, 114918), (186, 114945), (195, 114987), (210, 115050), (236, 115206), (240, 115224), (243, 115239), (255, 115356), (260, 115395), (272, 115515), (278, 115557), (286, 115602), (288, 115611), (297, 115662), (306, 115704), (321, 115770), (322, 115779), (323, 115782), (324, 115788), (325, 115791), (326, 115800), (327, 115806), (328, 115821), (347, 115908), (367, 116013), (375, 116067), (384, 116154), (388, 116184), (393, 116214), (400, 116247), (402, 116256), (410, 116328), (414, 116358), (436, 116475), (443, 116520), (453, 116562), (479, 116706), (496, 116766), (518, 116868), (537, 116955), (538, 116958), (541, 116976), (547, 117012), (548, 117015), (568, 117075), (572, 117093), (591, 117189), (598, 117219), (602, 117237), (610, 117267), (635, 117360), (640, 117375), (656, 117456), (657, 117462), (661, 117474),

Gene: Shuckle_78 Start: 59352, Stop: 62636, Start Num: 49

Candidate Starts for Shuckle_78:

(Start: 49 @59352 has 71 MA's), (56, 59397), (60, 59427), (64, 59445), (Start: 65 @59451 has 1 MA's), (109, 59730), (127, 59832), (139, 59910), (159, 60015), (169, 60078), (171, 60084), (172, 60087), (177, 60123), (200, 60240), (219, 60324), (223, 60339), (242, 60450), (249, 60480), (253, 60519), (327, 60906), (345, 61011), (346, 61017), (347, 61023), (351, 61047), (363, 61107), (369, 61137), (370, 61140), (380, 61179), (383, 61206), (390, 61251), (401, 61314), (410, 61386), (421, 61440), (423, 61449), (425, 61458), (427, 61467), (429, 61473), (474, 61716), (493, 61785), (496, 61797), (500, 61818), (519, 61902), (559, 62097), (567, 62130), (577, 62181), (588, 62226), (603, 62292), (616, 62340), (633, 62421), (644, 62472), (652, 62517), (653, 62520), (657, 62535),

Gene: SilverDipper_213 Start: 113543, Stop: 117031, Start Num: 14

Candidate Starts for SilverDipper_213:

(Start: 14 @113543 has 47 MA's), (Start: 15 @113549 has 6 MA's), (Start: 18 @113561 has 8 MA's), (22, 113570), (Start: 47 @113636 has 171 MA's), (59, 113711), (78, 113825), (85, 113849), (95, 113909), (113, 114020), (118, 114059), (125, 114083), (130, 114125), (148, 114224), (159, 114266), (161, 114272), (164, 114284), (173, 114347), (180, 114407), (181, 114410), (186, 114437), (195, 114479), (210, 114542), (230, 114662), (236, 114698), (240, 114716), (243, 114731), (255, 114848), (260, 114887), (272, 115007), (278, 115049), (286, 115094), (288, 115103), (297, 115154), (306, 115196), (321, 115262), (322, 115271), (323, 115274), (324, 115280), (325, 115283), (326, 115292), (327, 115298), (328, 115313), (347, 115400), (367, 115505), (375, 115559), (384, 115646), (388, 115676), (393, 115706), (400, 115739), (402, 115748), (410, 115820), (414, 115850), (436, 115967), (443, 116012), (453, 116054), (479, 116198), (496, 116258), (518, 116360), (537, 116447), (538, 116450), (541, 116468), (547, 116504), (548, 116507), (568, 116567), (572, 116585), (591, 116681), (598, 116711), (602, 116729), (610, 116759), (635, 116852), (640, 116867), (656, 116948), (657, 116954), (661, 116966),

Gene: Skog_212 Start: 135640, Stop: 139095, Start Num: 47

Candidate Starts for Skog_212:

(5, 135490), (8, 135517), (11, 135523), (31, 135607), (Start: 47 @135640 has 171 MA's), (59, 135715), (95, 135913), (101, 135949), (112, 136021), (114, 136042), (136, 136162), (138, 136186), (141, 136210), (143, 136231), (148, 136258), (159, 136300), (169, 136369), (173, 136381), (180, 136438), (181, 136441), (186, 136468), (190, 136495), (210, 136570), (243, 136759), (244, 136762), (246, 136795), (284, 137113), (286, 137128), (287, 137131), (316, 137275), (328, 137338), (329, 137341), (330, 137344), (331, 137353), (335, 137371), (347, 137434), (349, 137443), (361, 137506), (376, 137596), (388, 137707), (397, 137749), (408, 137845), (410, 137848), (420, 137899), (421, 137902), (438, 137989), (463, 138160), (515, 138382), (558, 138583), (585, 138706), (596, 138757), (598, 138760), (602, 138778), (610, 138808), (615, 138826), (623, 138856), (624, 138859), (634, 138898), (635, 138901),

Gene: SmallFry_209 Start: 112181, Stop: 115576, Start Num: 47

Candidate Starts for SmallFry_209:

(Start: 14 @112088 has 47 MA's), (Start: 15 @112094 has 6 MA's), (Start: 18 @112106 has 8 MA's), (22, 112115), (Start: 47 @112181 has 171 MA's), (59, 112256), (78, 112370), (85, 112394), (95, 112454), (113, 112565), (118, 112604), (125, 112628), (130, 112670), (148, 112769), (159, 112811), (161, 112817), (164, 112829), (173, 112892), (180, 112952), (181, 112955), (186, 112982), (195, 113024), (210, 113087), (236, 113243), (240, 113261), (243, 113276), (255, 113393), (260, 113432), (272, 113552), (278, 113594), (286, 113639), (288, 113648), (297, 113699), (306, 113741), (321, 113807), (322, 113816), (323, 113819), (324, 113825), (325, 113828), (326, 113837), (327, 113843), (328, 113858), (347, 113945), (367, 114050), (375, 114104), (384, 114191), (388, 114221), (393, 114251), (400, 114284), (402, 114293), (410, 114365), (414, 114395), (436, 114512), (443, 114557), (453, 114599), (479, 114743), (496, 114803), (518, 114905), (537, 114992), (538, 114995), (541, 115013), (547, 115049), (548, 115052), (568, 115112), (572, 115130), (591, 115226), (598, 115256), (602, 115274), (610, 115304), (635, 115397), (640, 115412), (656, 115493), (657, 115499), (661, 115511),

Gene: Snorlax_54 Start: 42492, Stop: 39007, Start Num: 47

Candidate Starts for Snorlax_54:

(Start: 21 @42561 has 1 MA's), (Start: 47 @42492 has 171 MA's), (Start: 58 @42429 has 1 MA's), (59, 42420), (67, 42378), (81, 42285), (90, 42216), (102, 42147), (108, 42093), (122, 42021), (127, 41985), (138, 41925), (184, 41700), (192, 41661), (199, 41634), (203, 41616), (208, 41595), (212, 41580), (220, 41538), (233, 41460), (235, 41448), (261, 41262), (262, 41256), (269, 41211), (279, 41127), (281, 41109), (291, 41052), (292, 41049), (296, 41037), (326, 40899), (327, 40893), (328, 40878), (330, 40872), (336, 40839), (353, 40761), (359, 40728), (386, 40587), (401, 40506), (402, 40500), (410, 40431), (420, 40368), (425, 40347), (433, 40302), (454, 40206), (455, 40197), (457, 40191), (474, 40089), (475, 40080), (480, 40068), (483, 40047), (492, 40017), (499, 39990), (513, 39924), (515, 39915), (517, 39903), (534, 39816), (570, 39648), (578, 39600), (604, 39489), (638, 39351), (640, 39342), (643, 39315), (654, 39267), (663, 39234), (666, 39207), (680, 39102), (681, 39090),

Gene: Sollertia_82 Start: 58392, Stop: 61712, Start Num: 48

Candidate Starts for Sollertia_82:

(Start: 48 @58392 has 34 MA's), (60, 58464), (Start: 65 @58488 has 1 MA's), (77, 58569), (109, 58767), (139, 58947), (146, 58995), (159, 59052), (168, 59103), (169, 59121), (172, 59130), (177, 59166), (200, 59283), (216, 59355), (239, 59478), (242, 59493), (272, 59727), (285, 59805), (326, 59967), (329, 59991), (347, 60090), (363, 60174), (380, 60246), (410, 60450), (421, 60504), (423, 60513), (427, 60531), (429, 60537), (453, 60651), (463, 60729), (469, 60753), (474, 60780), (529, 61035), (533, 61053), (537, 61065), (555, 61155), (569, 61215), (577, 61257), (588, 61302), (594, 61329), (603, 61368), (616, 61416), (617, 61425), (633, 61497), (640, 61518), (643, 61545), (644, 61548), (653, 61596), (667, 61662), (668, 61665),

Gene: South40_54 Start: 42740, Stop: 39261, Start Num: 47

Candidate Starts for South40_54:

(Start: 21 @42806 has 1 MA's), (Start: 47 @42740 has 171 MA's), (Start: 58 @42677 has 1 MA's), (59, 42668), (62, 42656), (67, 42626), (81, 42533), (84, 42500), (90, 42464), (102, 42395), (108, 42341), (122, 42269), (138, 42173), (163, 42095), (184, 41948), (192, 41909), (203, 41864), (208, 41843), (212, 41828), (215, 41807), (233, 41708), (235, 41696), (247, 41633), (261, 41510), (262, 41504), (269, 41459), (279, 41375), (281, 41357), (291, 41300), (292, 41297), (296, 41285), (326, 41147), (328, 41126), (330, 41120), (333, 41105), (342, 41063), (352, 41015), (353, 41009), (359, 40976), (386, 40835), (397, 40778), (401, 40754), (402, 40748), (410, 40679), (419, 40631), (420, 40616), (425, 40595), (433, 40550), (454, 40454), (455, 40445), (474, 40337), (475, 40328), (480, 40316), (483, 40295), (492, 40265), (499, 40238), (515, 40163), (517, 40151), (534, 40064), (539, 40040), (578, 39848), (604, 39737), (638, 39599), (643, 39563), (654, 39515), (656, 39509), (663, 39482), (680, 39350), (681, 39338), (682, 39332), (688, 39275),

Gene: SparkleGoddess_61 Start: 49852, Stop: 53142, Start Num: 49

Candidate Starts for SparkleGoddess_61:

(Start: 40 @49834 has 5 MA's), (Start: 49 @49852 has 71 MA's), (54, 49867), (55, 49873), (57, 49903), (60, 49924), (64, 49942), (Start: 65 @49948 has 1 MA's), (92, 50116), (99, 50158), (109, 50227), (120, 50287), (138, 50401), (139, 50407), (159, 50512), (169, 50575), (171, 50581), (177, 50620), (216, 50809), (228, 50866), (232, 50893), (241, 50938), (281, 51244), (289, 51280), (320, 51364), (327, 51403), (345, 51508), (347, 51520), (353, 51553), (358, 51583), (359, 51586), (362, 51598), (363, 51604), (380, 51676), (388, 51742), (390, 51748), (401, 51811), (410, 51883), (421, 51937), (423, 51946), (427, 51964), (429, 51970), (453, 52084), (460, 52150), (463, 52162), (469, 52186), (476, 52222), (478, 52225), (493, 52282), (495, 52288), (498, 52300), (508, 52336), (520, 52405), (561, 52603), (569, 52636), (576, 52672), (577, 52678), (582, 52690), (603, 52789), (606, 52798), (611, 52819), (618, 52849), (630, 52906), (644, 52969), (654, 53020), (657, 53032),

Gene: Spec_204 Start: 112372, Stop: 115767, Start Num: 47

Candidate Starts for Spec_204:

(Start: 14 @112279 has 47 MA's), (Start: 15 @112285 has 6 MA's), (Start: 18 @112297 has 8 MA's), (22, 112306), (Start: 47 @112372 has 171 MA's), (59, 112447), (78, 112561), (85, 112585), (95, 112645), (113, 112756), (118, 112795), (125, 112819), (130, 112861), (148, 112960), (159, 113002), (161, 113008), (164, 113020), (173, 113083), (180, 113143), (181, 113146), (186, 113173), (195, 113215), (210, 113278), (236, 113434), (240, 113452), (243, 113467), (255, 113584), (260, 113623), (272, 113743), (278, 113785), (286, 113830), (288, 113839), (297, 113890), (306, 113932), (321, 113998), (322, 114007), (323, 114010), (324, 114016), (325, 114019), (326, 114028), (327, 114034), (328, 114049), (347, 114136), (367, 114241), (375, 114295), (384, 114382), (388, 114412), (393, 114442), (400, 114475), (402, 114484), (410, 114556), (414, 114586), (436, 114703), (443, 114748), (453, 114790), (479, 114934), (496, 114994), (518, 115096), (537, 115183), (538, 115186), (541, 115204), (547, 115240), (548, 115243), (568, 115303), (572, 115321), (591, 115417), (598, 115447), (602, 115465), (610, 115495), (635, 115588), (640, 115603), (656, 115684), (657, 115690), (661, 115702),

Gene: Specks_213 Start: 114490, Stop: 117885, Start Num: 47

Candidate Starts for Specks_213:

(Start: 14 @114397 has 47 MA's), (Start: 15 @114403 has 6 MA's), (Start: 18 @114415 has 8 MA's), (22, 114424), (Start: 47 @114490 has 171 MA's), (59, 114565), (78, 114679), (85, 114703), (95, 114763), (113, 114874), (118, 114913), (125, 114937), (130, 114979), (148, 115078), (159, 115120), (161, 115126), (164, 115138), (173, 115201), (180, 115261), (181, 115264), (186, 115291), (195, 115333), (210, 115396), (236, 115552), (240, 115570), (243, 115585), (255, 115702), (260, 115741), (272, 115861), (278, 115903), (286, 115948), (288, 115957), (297, 116008), (306, 116050), (321, 116116), (322, 116125), (323, 116128), (324, 116134), (325, 116137), (326, 116146), (327, 116152), (328, 116167), (347, 116254), (367, 116359), (375, 116413), (384, 116500), (388, 116530), (393, 116560), (400, 116593), (402, 116602), (410, 116674), (414, 116704), (436, 116821), (443, 116866), (453, 116908), (479, 117052), (496, 117112), (518, 117214), (537, 117301), (538, 117304), (541, 117322), (547, 117358), (548, 117361), (568, 117421), (572, 117439), (591, 117535), (598, 117565), (602, 117583), (610, 117613), (635, 117706), (640, 117721), (656, 117802), (657, 117808), (661, 117820),

Gene: Spelly_82 Start: 58398, Stop: 61718, Start Num: 48

Candidate Starts for Spelly_82:

(Start: 48 @58398 has 34 MA's), (57, 58449), (60, 58470), (Start: 65 @58494 has 1 MA's), (77, 58575), (109, 58773), (139, 58953), (146, 59001), (159, 59058), (160, 59061), (168, 59109), (169, 59127), (172, 59136), (177, 59172), (198, 59280), (200, 59289), (242, 59499), (253, 59568), (272, 59733), (285, 59811), (326, 59973), (347, 60096), (351, 60120), (363, 60180), (378, 60243), (380, 60252), (410, 60456), (421, 60510), (423, 60519), (427, 60537), (429, 60543), (461, 60726), (463, 60735), (469, 60759), (474, 60786), (499, 60894), (539, 61083), (555, 61161), (565, 61203), (569, 61221), (577, 61263), (587, 61302), (588, 61308), (594, 61335), (603, 61374), (616, 61422), (617, 61431),

(633, 61503), (640, 61524), (643, 61551), (644, 61554), (648, 61569), (653, 61602), (668, 61671),

Gene: Spilled_83 Start: 58515, Stop: 61835, Start Num: 48

Candidate Starts for Spilled_83:

(Start: 48 @58515 has 34 MA's), (57, 58566), (60, 58587), (Start: 65 @58611 has 1 MA's), (77, 58692), (109, 58890), (139, 59070), (146, 59118), (147, 59121), (159, 59175), (160, 59178), (168, 59226), (169, 59244), (172, 59253), (177, 59289), (198, 59397), (200, 59406), (242, 59616), (253, 59685), (272, 59850), (285, 59928), (304, 59997), (326, 60090), (347, 60213), (363, 60297), (378, 60360), (380, 60369), (410, 60573), (421, 60627), (423, 60636), (427, 60654), (429, 60660), (463, 60852), (469, 60876), (474, 60903), (499, 61011), (539, 61200), (555, 61278), (565, 61320), (569, 61338), (577, 61380), (587, 61419), (588, 61425), (594, 61452), (603, 61491), (616, 61539), (633, 61620), (640, 61641), (643, 61668), (644, 61671), (648, 61686), (653, 61719), (668, 61788),

Gene: Sprinklers_207 Start: 112739, Stop: 116134, Start Num: 47

Candidate Starts for Sprinklers_207:

(Start: 6 @112616 has 5 MA's), (Start: 14 @112646 has 47 MA's), (Start: 15 @112652 has 6 MA's), (Start: 18 @112664 has 8 MA's), (22, 112673), (Start: 47 @112739 has 171 MA's), (59, 112814), (78, 112928), (85, 112952), (95, 113012), (113, 113123), (118, 113162), (125, 113186), (130, 113228), (148, 113327), (159, 113369), (161, 113375), (164, 113387), (173, 113450), (180, 113510), (181, 113513), (186, 113540), (195, 113582), (210, 113645), (230, 113765), (236, 113801), (240, 113819), (243, 113834), (255, 113951), (260, 113990), (272, 114110), (278, 114152), (286, 114197), (288, 114206), (297, 114257), (306, 114299), (321, 114365), (322, 114374), (323, 114377), (324, 114383), (325, 114386), (326, 114395), (327, 114401), (328, 114416), (347, 114503), (367, 114608), (375, 114662), (384, 114749), (388, 114779), (393, 114809), (400, 114842), (402, 114851), (410, 114923), (414, 114953), (436, 115070), (443, 115115), (453, 115157), (479, 115301), (496, 115361), (518, 115463), (537, 115550), (538, 115553), (541, 115571), (547, 115607), (548, 115610), (568, 115670), (572, 115688), (591, 115784), (598, 115814), (602, 115832), (610, 115862), (635, 115955), (640, 115970), (656, 116051), (657, 116057), (661, 116069),

Gene: Spud_203 Start: 112451, Stop: 115846, Start Num: 47

Candidate Starts for Spud_203:

(Start: 14 @112358 has 47 MA's), (Start: 15 @112364 has 6 MA's), (Start: 18 @112376 has 8 MA's), (22, 112385), (Start: 47 @112451 has 171 MA's), (59, 112526), (78, 112640), (85, 112664), (95, 112724), (113, 112835), (118, 112874), (125, 112898), (130, 112940), (148, 113039), (159, 113081), (161, 113087), (164, 113099), (173, 113162), (180, 113222), (181, 113225), (186, 113252), (195, 113294), (210, 113357), (230, 113477), (236, 113513), (240, 113531), (243, 113546), (255, 113663), (260, 113702), (272, 113822), (278, 113864), (286, 113909), (288, 113918), (297, 113969), (306, 114011), (321, 114077), (322, 114086), (323, 114089), (324, 114095), (325, 114098), (326, 114107), (327, 114113), (328, 114128), (347, 114215), (367, 114320), (375, 114374), (384, 114461), (388, 114491), (393, 114521), (400, 114554), (402, 114563), (410, 114635), (414, 114665), (436, 114782), (443, 114827), (453, 114869), (479, 115013), (496, 115073), (518, 115175), (537, 115262), (538, 115265), (541, 115283), (547, 115319), (548, 115322), (568, 115382), (572, 115400), (591, 115496), (598, 115526), (602, 115544), (610, 115574), (635, 115667), (640, 115682), (656, 115763), (657, 115769), (661, 115781),

Gene: Squillium_79 Start: 58567, Stop: 61851, Start Num: 49

Candidate Starts for Squillium_79:

(Start: 49 @58567 has 71 MA's), (56, 58612), (60, 58642), (64, 58660), (Start: 65 @58666 has 1 MA's), (75, 58732), (109, 58945), (111, 58951), (127, 59047), (139, 59125), (159, 59230), (169, 59293), (171, 59299), (177, 59338), (200, 59455), (223, 59554), (242, 59665), (249, 59695), (253, 59734), (285, 59977), (327, 60121), (328, 60136), (346, 60232), (347, 60238), (351, 60262), (363, 60322), (378, 60385), (380, 60394), (390, 60466), (401, 60529), (410, 60601), (421, 60655), (423, 60664), (425, 60673), (427, 60682), (429, 60688), (445, 60769), (460, 60868), (474, 60931), (493, 61000), (496,

61012), (535, 61198), (539, 61216), (559, 61312), (567, 61345), (577, 61396), (587, 61435), (588, 61441), (603, 61507), (611, 61537), (616, 61555), (625, 61591), (633, 61636), (636, 61645), (642, 61666), (644, 61687), (653, 61735), (657, 61750),

Gene: SrishMeg2525_206 Start: 113615, Stop: 117010, Start Num: 47

Candidate Starts for SrishMeg2525_206:

(Start: 14 @113522 has 47 MA's), (Start: 15 @113528 has 6 MA's), (Start: 18 @113540 has 8 MA's), (22, 113549), (Start: 47 @113615 has 171 MA's), (59, 113690), (78, 113804), (85, 113828), (95, 113888), (113, 113999), (118, 114038), (125, 114062), (130, 114104), (148, 114203), (159, 114245), (161, 114251), (164, 114263), (173, 114326), (180, 114386), (181, 114389), (186, 114416), (195, 114458), (210, 114521), (236, 114677), (240, 114695), (243, 114710), (255, 114827), (260, 114866), (272, 114986), (278, 115028), (286, 115073), (288, 115082), (297, 115133), (306, 115175), (321, 115241), (322, 115250), (323, 115253), (324, 115259), (325, 115262), (326, 115271), (327, 115277), (328, 115292), (347, 115379), (367, 115484), (375, 115538), (384, 115625), (388, 115655), (393, 115685), (400, 115718), (402, 115727), (410, 115799), (414, 115829), (436, 115946), (443, 115991), (453, 116033), (479, 116177), (496, 116237), (518, 116339), (537, 116426), (538, 116429), (541, 116447), (547, 116483), (548, 116486), (568, 116546), (572, 116564), (591, 116660), (598, 116690), (602, 116708), (610, 116738), (635, 116831), (640, 116846), (656, 116927), (657, 116933), (661, 116945),

Gene: Stanimal_82 Start: 58281, Stop: 61601, Start Num: 48

Candidate Starts for Stanimal_82:

(Start: 48 @58281 has 34 MA's), (60, 58353), (Start: 65 @58377 has 1 MA's), (77, 58458), (109, 58656), (139, 58836), (146, 58884), (159, 58941), (168, 58992), (169, 59010), (172, 59019), (177, 59055), (198, 59163), (200, 59172), (216, 59244), (242, 59382), (253, 59451), (272, 59616), (285, 59694), (326, 59856), (329, 59880), (347, 59979), (363, 60063), (380, 60135), (410, 60339), (421, 60393), (423, 60402), (427, 60420), (429, 60426), (453, 60540), (463, 60618), (469, 60642), (474, 60669), (528, 60921), (529, 60924), (533, 60942), (537, 60954), (555, 61044), (569, 61104), (577, 61146), (587, 61185), (588, 61191), (594, 61218), (603, 61257), (616, 61305), (617, 61314), (633, 61386), (637, 61398), (640, 61407), (643, 61434), (644, 61437), (648, 61452), (653, 61485), (665, 61539), (668, 61554),

Gene: StarPlatinum_82 Start: 58954, Stop: 62274, Start Num: 48

Candidate Starts for StarPlatinum_82:

(Start: 48 @58954 has 34 MA's), (57, 59005), (60, 59026), (Start: 65 @59050 has 1 MA's), (77, 59131), (109, 59329), (137, 59485), (139, 59509), (146, 59557), (147, 59560), (159, 59614), (168, 59665), (169, 59683), (172, 59692), (177, 59728), (198, 59836), (200, 59845), (216, 59917), (242, 60055), (253, 60124), (272, 60289), (285, 60367), (326, 60529), (347, 60652), (363, 60736), (380, 60808), (410, 61012), (421, 61066), (423, 61075), (427, 61093), (429, 61099), (463, 61291), (469, 61315), (474, 61342), (493, 61423), (499, 61450), (528, 61594), (529, 61597), (533, 61615), (537, 61627), (555, 61717), (569, 61777), (577, 61819), (587, 61858), (588, 61864), (594, 61891), (603, 61930), (616, 61978), (617, 61987), (633, 62059), (637, 62071), (640, 62080), (643, 62107), (644, 62110), (652, 62155), (653, 62158), (665, 62212), (668, 62227),

Gene: Starbow_80 Start: 58419, Stop: 61739, Start Num: 48

Candidate Starts for Starbow_80:

(Start: 48 @58419 has 34 MA's), (57, 58470), (60, 58491), (Start: 65 @58515 has 1 MA's), (77, 58596), (109, 58794), (139, 58974), (146, 59022), (159, 59079), (160, 59082), (168, 59130), (169, 59148), (172, 59157), (177, 59193), (198, 59301), (200, 59310), (242, 59520), (253, 59589), (272, 59754), (285, 59832), (326, 59994), (347, 60117), (363, 60201), (378, 60264), (380, 60273), (410, 60477), (421, 60531), (423, 60540), (427, 60558), (429, 60564), (461, 60747), (463, 60756), (469, 60780), (474, 60807), (499, 60915), (539, 61104), (555, 61182), (565, 61224), (569, 61242), (577, 61284), (587, 61323), (588, 61329), (594, 61356), (603, 61395), (616, 61443), (617, 61452), (633, 61524),

(640, 61545), (643, 61572), (644, 61575), (648, 61590), (653, 61623), (668, 61692),

Gene: StephanieG_205 Start: 113649, Stop: 117044, Start Num: 47

Candidate Starts for StephanieG_205:

(4, 113481), (Start: 14 @113556 has 47 MA's), (Start: 15 @113562 has 6 MA's), (Start: 18 @113574 has 8 MA's), (22, 113583), (Start: 47 @113649 has 171 MA's), (59, 113724), (78, 113838), (85, 113862), (95, 113922), (113, 114033), (118, 114072), (125, 114096), (130, 114138), (148, 114237), (159, 114279), (161, 114285), (164, 114297), (173, 114360), (180, 114420), (181, 114423), (186, 114450), (195, 114492), (210, 114555), (236, 114711), (240, 114729), (243, 114744), (255, 114861), (260, 114900), (272, 115020), (278, 115062), (286, 115107), (288, 115116), (297, 115167), (306, 115209), (321, 115275), (322, 115284), (323, 115287), (324, 115293), (325, 115296), (326, 115305), (327, 115311), (328, 115326), (347, 115413), (367, 115518), (375, 115572), (384, 115659), (388, 115689), (393, 115719), (400, 115752), (402, 115761), (410, 115833), (414, 115863), (436, 115980), (443, 116025), (453, 116067), (479, 116211), (496, 116271), (518, 116373), (537, 116460), (538, 116463), (541, 116481), (547, 116517), (548, 116520), (568, 116580), (572, 116598), (591, 116694), (598, 116724), (602, 116742), (610, 116772), (635, 116865), (640, 116880), (656, 116961), (657, 116967), (661, 116979),

Gene: Stigma_60 Start: 49866, Stop: 53156, Start Num: 49

Candidate Starts for Stigma_60:

(Start: 40 @49848 has 5 MA's), (Start: 49 @49866 has 71 MA's), (55, 49887), (57, 49917), (60, 49938), (64, 49956), (Start: 65 @49962 has 1 MA's), (92, 50130), (99, 50172), (109, 50241), (120, 50301), (138, 50415), (139, 50421), (159, 50526), (169, 50589), (171, 50595), (177, 50634), (216, 50823), (228, 50880), (232, 50907), (241, 50952), (281, 51258), (289, 51294), (320, 51378), (327, 51417), (345, 51522), (347, 51534), (351, 51558), (353, 51567), (358, 51597), (359, 51600), (363, 51618), (380, 51690), (388, 51756), (390, 51762), (401, 51825), (410, 51897), (421, 51951), (423, 51960), (427, 51978), (429, 51984), (453, 52098), (460, 52164), (463, 52176), (476, 52236), (478, 52239), (493, 52296), (495, 52302), (498, 52314), (508, 52350), (520, 52419), (554, 52587), (561, 52617), (569, 52650), (576, 52686), (577, 52692), (582, 52704), (603, 52803), (606, 52812), (611, 52833), (618, 52863), (630, 52920), (644, 52983), (654, 53034), (657, 53046),

Gene: Stormageddon_76 Start: 71389, Stop: 74583, Start Num: 50

Candidate Starts for Stormageddon_76:

(41, 71377), (Start: 50 @71389 has 4 MA's), (59, 71461), (69, 71533), (74, 71551), (80, 71584), (96, 71662), (108, 71749), (112, 71764), (121, 71818), (129, 71866), (136, 71905), (150, 71977), (151, 71980), (154, 71995), (163, 72028), (170, 72085), (173, 72094), (180, 72148), (181, 72151), (186, 72178), (199, 72235), (210, 72280), (216, 72313), (223, 72346), (230, 72400), (234, 72424), (240, 72454), (243, 72469), (247, 72496), (255, 72550), (265, 72646), (282, 72775), (284, 72781), (306, 72871), (315, 72907), (316, 72925), (322, 72946), (324, 72955), (386, 73282), (403, 73375), (408, 73435), (421, 73492), (422, 73498), (424, 73507), (432, 73552), (433, 73555), (442, 73603), (460, 73729), (478, 73804), (483, 73825), (491, 73852), (495, 73861), (496, 73867), (497, 73870), (505, 73906), (512, 73936), (525, 74014), (526, 74017), (536, 74053), (537, 74056), (545, 74092), (586, 74194), (592, 74218), (602, 74263), (607, 74281), (617, 74323), (635, 74386), (645, 74434), (649, 74464), (670, 74548),

Gene: Stubby_193 Start: 112491, Stop: 115886, Start Num: 47

Candidate Starts for Stubby_193:

(Start: 14 @112398 has 47 MA's), (Start: 15 @112404 has 6 MA's), (Start: 18 @112416 has 8 MA's), (22, 112425), (Start: 47 @112491 has 171 MA's), (59, 112566), (78, 112680), (85, 112704), (95, 112764), (113, 112875), (118, 112914), (125, 112938), (130, 112980), (148, 113079), (159, 113121), (161, 113127), (164, 113139), (173, 113202), (180, 113262), (181, 113265), (186, 113292), (195, 113334), (210, 113397), (230, 113517), (236, 113553), (240, 113571), (243, 113586), (255, 113703), (260, 113742), (272, 113862), (278, 113904), (286, 113949), (288, 113958), (297, 114009), (306,

114051), (321, 114117), (322, 114126), (323, 114129), (324, 114135), (325, 114138), (326, 114147), (327, 114153), (328, 114168), (347, 114255), (367, 114360), (375, 114414), (384, 114501), (388, 114531), (393, 114561), (400, 114594), (402, 114603), (410, 114675), (414, 114705), (436, 114822), (443, 114867), (453, 114909), (479, 115053), (496, 115113), (518, 115215), (537, 115302), (538, 115305), (541, 115323), (547, 115359), (548, 115362), (568, 115422), (572, 115440), (591, 115536), (598, 115566), (602, 115584), (610, 115614), (635, 115707), (640, 115722), (656, 115803), (657, 115809), (661, 115821),

Gene: StubbySaigey_214 Start: 113170, Stop: 116565, Start Num: 47

Candidate Starts for StubbySaigey_214:

(Start: 14 @113077 has 47 MA's), (Start: 15 @113083 has 6 MA's), (Start: 18 @113095 has 8 MA's), (22, 113104), (Start: 47 @113170 has 171 MA's), (59, 113245), (78, 113359), (85, 113383), (95, 113443), (113, 113554), (118, 113593), (125, 113617), (130, 113659), (148, 113758), (159, 113800), (161, 113806), (164, 113818), (173, 113881), (180, 113941), (181, 113944), (186, 113971), (195, 114013), (210, 114076), (230, 114196), (236, 114232), (240, 114250), (243, 114265), (255, 114382), (260, 114421), (272, 114541), (278, 114583), (286, 114628), (288, 114637), (297, 114688), (306, 114730), (321, 114796), (322, 114805), (323, 114808), (324, 114814), (325, 114817), (326, 114826), (327, 114832), (328, 114847), (347, 114934), (367, 115039), (375, 115093), (384, 115180), (388, 115210), (393, 115240), (400, 115273), (402, 115282), (410, 115354), (414, 115384), (436, 115501), (443, 115546), (453, 115588), (479, 115732), (496, 115792), (518, 115894), (537, 115981), (538, 115984), (541, 116002), (547, 116038), (548, 116041), (568, 116101), (572, 116119), (591, 116215), (598, 116245), (602, 116263), (610, 116293), (635, 116386), (640, 116401), (656, 116482), (657, 116488), (661, 116500),

Gene: Substance289_206 Start: 112142, Stop: 115624, Start Num: 15

Candidate Starts for Substance289_206:

(Start: 14 @112136 has 47 MA's), (Start: 15 @112142 has 6 MA's), (Start: 18 @112154 has 8 MA's), (22, 112163), (Start: 47 @112229 has 171 MA's), (59, 112304), (78, 112418), (85, 112442), (95, 112502), (113, 112613), (118, 112652), (125, 112676), (130, 112718), (148, 112817), (159, 112859), (161, 112865), (164, 112877), (173, 112940), (180, 113000), (181, 113003), (186, 113030), (195, 113072), (210, 113135), (236, 113291), (240, 113309), (243, 113324), (255, 113441), (260, 113480), (272, 113600), (278, 113642), (286, 113687), (288, 113696), (297, 113747), (306, 113789), (321, 113855), (322, 113864), (323, 113867), (324, 113873), (325, 113876), (326, 113885), (327, 113891), (328, 113906), (347, 113993), (367, 114098), (375, 114152), (384, 114239), (388, 114269), (393, 114299), (400, 114332), (402, 114341), (410, 114413), (414, 114443), (436, 114560), (443, 114605), (453, 114647), (479, 114791), (496, 114851), (518, 114953), (537, 115040), (538, 115043), (541, 115061), (547, 115097), (548, 115100), (568, 115160), (572, 115178), (591, 115274), (598, 115304), (602, 115322), (610, 115352), (635, 115445), (640, 115460), (656, 115541), (657, 115547), (661, 115559),

Gene: Sujidade_55 Start: 42046, Stop: 38570, Start Num: 47

Candidate Starts for Sujidade_55:

(Start: 21 @42115 has 1 MA's), (Start: 47 @42046 has 171 MA's), (Start: 58 @41986 has 1 MA's), (59, 41977), (67, 41935), (81, 41842), (90, 41773), (102, 41704), (108, 41650), (122, 41578), (127, 41542), (138, 41482), (163, 41404), (184, 41257), (192, 41218), (199, 41191), (203, 41173), (208, 41152), (212, 41137), (233, 41017), (235, 41005), (261, 40819), (262, 40813), (269, 40768), (279, 40684), (281, 40666), (291, 40609), (292, 40606), (296, 40594), (326, 40456), (327, 40450), (328, 40435), (330, 40429), (336, 40396), (353, 40318), (359, 40285), (386, 40144), (401, 40063), (402, 40057), (410, 39988), (420, 39925), (425, 39904), (433, 39859), (442, 39820), (454, 39763), (455, 39754), (474, 39646), (480, 39625), (483, 39604), (492, 39574), (499, 39547), (513, 39481), (515, 39472), (517, 39460), (534, 39373), (539, 39349), (578, 39157), (596, 39073), (604, 39046), (638, 38908), (640, 38899), (643, 38872), (654, 38824), (656, 38818), (662, 38797), (663, 38791), (677, 38686), (681, 38647), (682, 38641), (688, 38584),

Gene: SunsetPointe_52 Start: 40347, Stop: 36868, Start Num: 47

Candidate Starts for SunsetPointe_52:

(Start: 47 @40347 has 171 MA's), (59, 40275), (Start: 65 @40248 has 1 MA's), (67, 40233), (90, 40071), (94, 40044), (96, 40038), (108, 39948), (112, 39933), (121, 39879), (122, 39876), (138, 39780), (163, 39702), (184, 39555), (192, 39516), (203, 39471), (208, 39450), (212, 39435), (220, 39393), (223, 39381), (233, 39315), (235, 39303), (247, 39240), (262, 39111), (263, 39102), (269, 39066), (279, 38982), (281, 38964), (291, 38907), (292, 38904), (296, 38892), (326, 38754), (327, 38748), (328, 38733), (330, 38727), (336, 38694), (353, 38616), (359, 38583), (386, 38442), (397, 38385), (401, 38361), (402, 38355), (410, 38286), (420, 38223), (433, 38157), (437, 38136), (442, 38118), (454, 38061), (455, 38052), (474, 37944), (475, 37935), (480, 37923), (483, 37902), (492, 37872), (499, 37845), (513, 37779), (515, 37770), (517, 37758), (534, 37671), (539, 37647), (548, 37599), (578, 37455), (595, 37380), (638, 37206), (643, 37170), (654, 37122), (663, 37089),

Gene: Sushi23_79 Start: 59255, Stop: 62539, Start Num: 49

Candidate Starts for Sushi23_79:

(Start: 49 @59255 has 71 MA's), (56, 59300), (60, 59330), (64, 59348), (Start: 65 @59354 has 1 MA's), (109, 59633), (127, 59735), (139, 59813), (159, 59918), (169, 59981), (171, 59987), (177, 60026), (200, 60143), (219, 60227), (242, 60353), (249, 60383), (253, 60422), (254, 60431), (278, 60629), (327, 60809), (345, 60914), (346, 60920), (347, 60926), (363, 61010), (369, 61040), (380, 61082), (383, 61109), (387, 61142), (390, 61154), (401, 61217), (410, 61289), (421, 61343), (423, 61352), (425, 61361), (427, 61370), (429, 61376), (474, 61619), (493, 61688), (496, 61700), (519, 61805), (559, 62000), (567, 62033), (577, 62084), (588, 62129), (603, 62195), (616, 62243), (625, 62279), (633, 62324), (636, 62333), (644, 62375), (652, 62420), (653, 62423), (657, 62438),

Gene: TagePighther_56 Start: 42468, Stop: 38983, Start Num: 47

Candidate Starts for TagePighther_56:

(Start: 21 @42537 has 1 MA's), (Start: 47 @42468 has 171 MA's), (Start: 58 @42405 has 1 MA's), (59, 42396), (67, 42354), (81, 42261), (90, 42192), (102, 42123), (108, 42069), (122, 41997), (127, 41961), (138, 41901), (184, 41676), (192, 41637), (199, 41610), (203, 41592), (208, 41571), (212, 41556), (220, 41514), (233, 41436), (235, 41424), (261, 41238), (262, 41232), (269, 41187), (279, 41103), (281, 41085), (291, 41028), (292, 41025), (296, 41013), (326, 40875), (327, 40869), (328, 40854), (330, 40848), (336, 40815), (353, 40737), (359, 40704), (386, 40563), (401, 40482), (402, 40476), (410, 40407), (420, 40344), (425, 40323), (433, 40278), (454, 40182), (455, 40173), (457, 40167), (474, 40065), (475, 40056), (480, 40044), (483, 40023), (492, 39993), (499, 39966), (513, 39900), (515, 39891), (517, 39879), (534, 39792), (570, 39624), (578, 39576), (604, 39465), (606, 39459), (638, 39327), (640, 39318), (643, 39291), (663, 39210), (680, 39078), (681, 39066),

Gene: Tainan_210 Start: 113509, Stop: 116904, Start Num: 47

Candidate Starts for Tainan_210:

(Start: 14 @113416 has 47 MA's), (Start: 15 @113422 has 6 MA's), (Start: 18 @113434 has 8 MA's), (22, 113443), (Start: 47 @113509 has 171 MA's), (59, 113584), (78, 113698), (85, 113722), (95, 113782), (113, 113893), (118, 113932), (125, 113956), (130, 113998), (148, 114097), (159, 114139), (161, 114145), (164, 114157), (173, 114220), (180, 114280), (181, 114283), (186, 114310), (195, 114352), (210, 114415), (236, 114571), (240, 114589), (243, 114604), (255, 114721), (260, 114760), (272, 114880), (278, 114922), (286, 114967), (288, 114976), (297, 115027), (306, 115069), (321, 115135), (322, 115144), (323, 115147), (324, 115153), (325, 115156), (326, 115165), (327, 115171), (328, 115186), (347, 115273), (367, 115378), (375, 115432), (384, 115519), (388, 115549), (393, 115579), (400, 115612), (402, 115621), (410, 115693), (414, 115723), (436, 115840), (443, 115885), (453, 115927), (479, 116071), (496, 116131), (518, 116233), (537, 116320), (538, 116323), (541, 116341), (547, 116377), (548, 116380), (568, 116440), (572, 116458), (591, 116554), (598, 116584), (602, 116602), (610, 116632), (635, 116725), (640, 116740), (656, 116821), (657, 116827), (661, 116839),

Gene: Targaryen_80 Start: 59965, Stop: 63249, Start Num: 49

Candidate Starts for Targaryen_80:

(Start: 49 @59965 has 71 MA's), (56, 60010), (60, 60040), (64, 60058), (Start: 65 @60064 has 1 MA's), (75, 60130), (109, 60343), (139, 60523), (159, 60628), (169, 60691), (171, 60697), (177, 60736), (193, 60826), (200, 60853), (223, 60952), (242, 61063), (249, 61093), (250, 61096), (253, 61132), (285, 61375), (290, 61405), (327, 61519), (328, 61534), (345, 61624), (346, 61630), (347, 61636), (363, 61720), (378, 61783), (380, 61792), (390, 61864), (401, 61927), (410, 61999), (421, 62053), (423, 62062), (425, 62071), (427, 62080), (429, 62086), (474, 62329), (493, 62398), (519, 62515), (535, 62596), (538, 62605), (545, 62647), (559, 62710), (567, 62743), (577, 62794), (588, 62839), (603, 62905), (616, 62953), (633, 63034), (636, 63043), (644, 63085), (653, 63133), (657, 63148),

Gene: Teardrop_206 Start: 111683, Stop: 115078, Start Num: 47

Candidate Starts for Teardrop_206:

(Start: 14 @111590 has 47 MA's), (Start: 15 @111596 has 6 MA's), (Start: 18 @111608 has 8 MA's), (22, 111617), (Start: 47 @111683 has 171 MA's), (59, 111758), (78, 111872), (85, 111896), (95, 111956), (113, 112067), (118, 112106), (125, 112130), (130, 112172), (148, 112271), (159, 112313), (161, 112319), (164, 112331), (173, 112394), (180, 112454), (181, 112457), (186, 112484), (195, 112526), (210, 112589), (236, 112745), (240, 112763), (243, 112778), (255, 112895), (260, 112934), (272, 113054), (278, 113096), (286, 113141), (288, 113150), (297, 113201), (306, 113243), (321, 113309), (322, 113318), (323, 113321), (324, 113327), (325, 113330), (326, 113339), (327, 113345), (328, 113360), (347, 113447), (367, 113552), (375, 113606), (384, 113693), (388, 113723), (393, 113753), (400, 113786), (402, 113795), (410, 113867), (414, 113897), (436, 114014), (443, 114059), (453, 114101), (479, 114245), (496, 114305), (518, 114407), (537, 114494), (538, 114497), (541, 114515), (547, 114551), (548, 114554), (568, 114614), (572, 114632), (591, 114728), (598, 114758), (602, 114776), (610, 114806), (635, 114899), (640, 114914), (656, 114995), (657, 115001), (661, 115013),

Gene: Teutsch_80 Start: 59518, Stop: 62802, Start Num: 49

Candidate Starts for Teutsch_80:

(Start: 49 @59518 has 71 MA's), (56, 59563), (60, 59593), (64, 59611), (Start: 65 @59617 has 1 MA's), (109, 59896), (127, 59998), (139, 60076), (159, 60181), (169, 60244), (171, 60250), (177, 60289), (200, 60406), (219, 60490), (242, 60616), (249, 60646), (253, 60685), (278, 60892), (327, 61072), (345, 61177), (346, 61183), (347, 61189), (351, 61213), (363, 61273), (369, 61303), (370, 61306), (380, 61345), (383, 61372), (390, 61417), (401, 61480), (410, 61552), (421, 61606), (423, 61615), (425, 61624), (427, 61633), (429, 61639), (474, 61882), (493, 61951), (496, 61963), (519, 62068), (559, 62263), (567, 62296), (577, 62347), (588, 62392), (603, 62458), (616, 62506), (633, 62587), (636, 62596), (644, 62638), (652, 62683), (653, 62686), (657, 62701),

Gene: Thales_83 Start: 68330, Stop: 71191, Start Num: 37

Candidate Starts for Thales_83:

(Start: 37 @68330 has 1 MA's), (59, 68426), (64, 68450), (68, 68489), (69, 68501), (71, 68507), (73, 68513), (81, 68564), (87, 68591), (110, 68750), (126, 68846), (129, 68861), (136, 68897), (137, 68903), (145, 68951), (151, 68969), (152, 68972), (162, 69014), (170, 69074), (173, 69083), (178, 69131), (Start: 187 @69173 has 1 MA's), (188, 69185), (207, 69260), (236, 69422), (242, 69452), (243, 69455), (255, 69530), (256, 69545), (264, 69620), (269, 69653), (273, 69704), (298, 69851), (302, 69875), (320, 69962), (324, 69983), (330, 70022), (337, 70064), (347, 70106), (349, 70115), (353, 70139), (357, 70163), (358, 70169), (359, 70172), (380, 70256), (390, 70331), (395, 70361), (399, 70379), (401, 70391), (416, 70499), (422, 70535), (426, 70553), (428, 70559), (449, 70667), (474, 70814), (476, 70823), (499, 70910), (503, 70928), (509, 70958), (510, 70961), (515, 70991), (521, 71018), (524, 71042), (532, 71078), (536, 71099), (549, 71168), (552, 71186),

Gene: TinyTim_207 Start: 112464, Stop: 115859, Start Num: 47

Candidate Starts for TinyTim_207:

(Start: 14 @112371 has 47 MA's), (Start: 15 @112377 has 6 MA's), (Start: 18 @112389 has 8 MA's), (22, 112398), (Start: 47 @112464 has 171 MA's), (59, 112539), (78, 112653), (85, 112677), (95, 112737), (113, 112848), (118, 112887), (125, 112911), (130, 112953), (148, 113052), (159, 113094), (161, 113100), (164, 113112), (173, 113175), (180, 113235), (181, 113238), (186, 113265), (195, 113307), (210, 113370), (236, 113526), (240, 113544), (243, 113559), (255, 113676), (260, 113715), (272, 113835), (278, 113877), (286, 113922), (288, 113931), (297, 113982), (306, 114024), (321, 114090), (322, 114099), (323, 114102), (324, 114108), (325, 114111), (326, 114120), (327, 114126), (328, 114141), (347, 114228), (367, 114333), (375, 114387), (384, 114474), (388, 114504), (393, 114534), (400, 114567), (402, 114576), (410, 114648), (414, 114678), (436, 114795), (443, 114840), (453, 114882), (479, 115026), (496, 115086), (518, 115188), (537, 115275), (538, 115278), (541, 115296), (547, 115332), (548, 115335), (568, 115395), (572, 115413), (591, 115509), (598, 115539), (602, 115557), (610, 115587), (635, 115680), (640, 115695), (656, 115776), (657, 115782), (661, 115794),

Gene: TomSawyer_80 Start: 58037, Stop: 61357, Start Num: 48

Candidate Starts for TomSawyer_80:

(Start: 48 @58037 has 34 MA's), (57, 58088), (60, 58109), (Start: 65 @58133 has 1 MA's), (77, 58214), (109, 58412), (137, 58568), (139, 58592), (146, 58640), (147, 58643), (159, 58697), (168, 58748), (169, 58766), (172, 58775), (177, 58811), (200, 58928), (216, 59000), (242, 59138), (253, 59207), (272, 59372), (285, 59450), (326, 59612), (347, 59735), (363, 59819), (372, 59867), (380, 59891), (410, 60095), (421, 60149), (423, 60158), (427, 60176), (429, 60182), (463, 60374), (469, 60398), (474, 60425), (499, 60533), (539, 60722), (555, 60800), (565, 60842), (569, 60860), (577, 60902), (587, 60941), (588, 60947), (594, 60974), (603, 61013), (616, 61061), (617, 61070), (633, 61142), (640, 61163), (643, 61190), (644, 61193), (648, 61208), (653, 61241), (668, 61310),

Gene: Toma_55 Start: 41781, Stop: 38299, Start Num: 47

Candidate Starts for Toma_55:

(Start: 47 @41781 has 171 MA's), (53, 41766), (54, 41760), (Start: 58 @41715 has 1 MA's), (59, 41706), (67, 41664), (81, 41571), (90, 41502), (102, 41433), (108, 41379), (122, 41307), (127, 41271), (138, 41211), (163, 41133), (184, 40986), (192, 40947), (199, 40920), (203, 40902), (208, 40881), (212, 40866), (233, 40746), (235, 40734), (261, 40548), (262, 40542), (269, 40497), (279, 40413), (281, 40395), (291, 40338), (292, 40335), (296, 40323), (326, 40185), (327, 40179), (328, 40164), (330, 40158), (336, 40125), (353, 40047), (359, 40014), (386, 39873), (401, 39792), (402, 39786), (410, 39717), (420, 39654), (425, 39633), (433, 39588), (442, 39549), (454, 39492), (455, 39483), (474, 39375), (480, 39354), (483, 39333), (492, 39303), (499, 39276), (513, 39210), (515, 39201), (517, 39189), (534, 39102), (539, 39078), (570, 38934), (578, 38886), (596, 38802), (604, 38775), (638, 38637), (640, 38628), (643, 38601), (654, 38553), (656, 38547), (662, 38526), (663, 38520), (677, 38415), (680, 38388), (681, 38376), (688, 38313),

Gene: Tomas_84 Start: 60777, Stop: 64097, Start Num: 48

Candidate Starts for Tomas_84:

(Start: 48 @60777 has 34 MA's), (57, 60828), (60, 60849), (Start: 65 @60873 has 1 MA's), (109, 61152), (127, 61254), (137, 61308), (138, 61326), (139, 61332), (146, 61380), (159, 61437), (168, 61488), (169, 61506), (177, 61551), (198, 61659), (200, 61668), (242, 61878), (326, 62352), (347, 62475), (363, 62559), (378, 62622), (380, 62631), (410, 62835), (419, 62871), (421, 62889), (423, 62898), (427, 62916), (429, 62922), (445, 63003), (453, 63036), (463, 63114), (474, 63165), (499, 63273), (528, 63417), (529, 63420), (533, 63438), (537, 63450), (539, 63462), (555, 63540), (564, 63579), (565, 63582), (569, 63600), (577, 63642), (587, 63681), (588, 63687), (603, 63753), (616, 63801), (617, 63810), (633, 63882), (643, 63930), (644, 63933), (651, 63972), (668, 64050),

Gene: Tonenili_231 Start: 119300, Stop: 122701, Start Num: 49

Candidate Starts for Tonenili_231:

(26, 119243), (Start: 49 @119300 has 71 MA's), (59, 119375), (85, 119513), (95, 119573), (118, 119723), (125, 119747), (137, 119828), (148, 119888), (159, 119930), (161, 119936), (163, 119945), (164, 119948), (173, 120011), (180, 120071), (181, 120074), (186, 120101), (188, 120116), (190, 120128), (195, 120143), (210, 120206), (236, 120362), (240, 120380), (241, 120383), (243, 120395), (255, 120512), (260, 120551), (272, 120671), (278, 120713), (286, 120758), (288, 120767), (297, 120818), (306, 120860), (321, 120926), (322, 120935), (323, 120938), (324, 120944), (325, 120947), (327, 120962), (347, 121064), (384, 121316), (388, 121346), (393, 121376), (402, 121418), (410, 121490), (414, 121520), (418, 121538), (436, 121637), (443, 121682), (453, 121724), (479, 121868), (480, 121871), (489, 121898), (496, 121928), (518, 122030), (537, 122117), (541, 122138), (547, 122174), (548, 122177), (563, 122222), (568, 122237), (572, 122255), (591, 122351), (598, 122381), (602, 122399), (606, 122411), (610, 122429), (635, 122522), (640, 122537), (657, 122624), (661, 122636), (668, 122675),

Gene: Toneprano_95 Start: 70005, Stop: 72818, Start Num: 40

Candidate Starts for Toneprano_95:

(Start: 33 @69990 has 1 MA's), (Start: 37 @70002 has 1 MA's), (Start: 40 @70005 has 5 MA's), (59, 70098), (68, 70158), (93, 70308), (94, 70311), (96, 70317), (103, 70359), (110, 70416), (114, 70446), (115, 70449), (126, 70512), (130, 70533), (131, 70536), (136, 70563), (161, 70680), (163, 70689), (170, 70746), (173, 70755), (196, 70887), (233, 71052), (236, 71070), (239, 71085), (241, 71091), (243, 71103), (249, 71130), (250, 71133), (256, 71193), (257, 71202), (258, 71205), (260, 71217), (263, 71262), (271, 71331), (274, 71355), (300, 71511), (303, 71529), (308, 71553), (313, 71571), (330, 71667), (337, 71709), (339, 71715), (347, 71751), (349, 71760), (352, 71778), (353, 71784), (357, 71808), (358, 71814), (359, 71817), (363, 71835), (364, 71838), (383, 71931), (390, 71976), (391, 71982), (395, 72006), (396, 72009), (398, 72018), (399, 72024), (401, 72036), (418, 72153), (420, 72171), (421, 72174), (423, 72183), (446, 72297), (449, 72312), (474, 72459), (478, 72471), (480, 72477), (489, 72510), (497, 72543), (500, 72561), (503, 72573), (506, 72582), (525, 72696), (528, 72708), (532, 72723), (546, 72798), (547, 72807),

Gene: Tortoise16_207 Start: 112926, Stop: 116321, Start Num: 47

Candidate Starts for Tortoise16_207:

(Start: 14 @112833 has 47 MA's), (Start: 15 @112839 has 6 MA's), (Start: 18 @112851 has 8 MA's), (22, 112860), (Start: 47 @112926 has 171 MA's), (59, 113001), (78, 113115), (85, 113139), (95, 113199), (113, 113310), (118, 113349), (125, 113373), (130, 113415), (148, 113514), (159, 113556), (161, 113562), (164, 113574), (173, 113637), (180, 113697), (181, 113700), (186, 113727), (195, 113769), (210, 113832), (236, 113988), (240, 114006), (243, 114021), (255, 114138), (260, 114177), (272, 114297), (278, 114339), (286, 114384), (288, 114393), (297, 114444), (306, 114486), (321, 114552), (322, 114561), (323, 114564), (324, 114570), (325, 114573), (326, 114582), (327, 114588), (328, 114603), (347, 114690), (367, 114795), (375, 114849), (384, 114936), (388, 114966), (393, 114996), (400, 115029), (402, 115038), (410, 115110), (414, 115140), (436, 115257), (443, 115302), (453, 115344), (479, 115488), (496, 115548), (518, 115650), (537, 115737), (538, 115740), (541, 115758), (547, 115794), (548, 115797), (568, 115857), (572, 115875), (591, 115971), (598, 116001), (602, 116019), (610, 116049), (635, 116142), (640, 116157), (656, 116238), (657, 116244), (661, 116256),

Gene: Tribute_78 Start: 58724, Stop: 62008, Start Num: 49

Candidate Starts for Tribute_78:

(Start: 49 @58724 has 71 MA's), (56, 58769), (60, 58799), (64, 58817), (Start: 65 @58823 has 1 MA's), (109, 59102), (127, 59204), (139, 59282), (159, 59387), (169, 59450), (171, 59456), (177, 59495), (200, 59612), (219, 59696), (242, 59822), (249, 59852), (253, 59891), (278, 60098), (327, 60278), (345, 60383), (346, 60389), (347, 60395), (363, 60479), (369, 60509), (380, 60551), (383, 60578), (387, 60611), (390, 60623), (401, 60686), (410, 60758), (421, 60812), (423, 60821), (425, 60830), (427, 60839), (429, 60845), (474, 61088), (493, 61157), (496, 61169), (519, 61274), (559, 61469), (567, 61502), (577, 61553), (588, 61598), (603, 61664), (616, 61712), (633, 61793), (636, 61802),

(644, 61844), (652, 61889), (653, 61892), (657, 61907),

Gene: Trina_102 Start: 68795, Stop: 71665, Start Num: 187

Candidate Starts for Trina_102:

(Start: 187 @68795 has 1 MA's), (201, 68840), (222, 68930), (237, 69017), (242, 69041), (243, 69044), (254, 69119), (259, 69158), (270, 69254), (327, 69503), (328, 69518), (329, 69521), (348, 69620), (354, 69653), (378, 69761), (380, 69770), (390, 69842), (394, 69869), (412, 69986), (419, 70010), (421, 70028), (422, 70034), (427, 70055), (429, 70061), (431, 70079), (459, 70235), (474, 70301), (477, 70307), (482, 70325), (522, 70508), (540, 70616), (562, 70718), (564, 70727), (569, 70754), (571, 70763), (580, 70805), (585, 70835), (590, 70856), (593, 70865), (601, 70904), (618, 70982), (621, 70994), (622, 70997), (644, 71105), (650, 71144), (654, 71159), (657, 71171), (664, 71210), (679, 71318), (682, 71342), (684, 71363), (691, 71420), (693, 71450), (697, 71501), (699, 71516), (701, 71537), (709, 71612), (711, 71633),

Gene: Trinitium_205 Start: 112211, Stop: 115606, Start Num: 47

Candidate Starts for Trinitium_205:

(Start: 14 @112118 has 47 MA's), (Start: 15 @112124 has 6 MA's), (Start: 18 @112136 has 8 MA's), (22, 112145), (Start: 47 @112211 has 171 MA's), (59, 112286), (78, 112400), (85, 112424), (95, 112484), (113, 112595), (118, 112634), (125, 112658), (130, 112700), (148, 112799), (159, 112841), (161, 112847), (164, 112859), (173, 112922), (180, 112982), (181, 112985), (186, 113012), (195, 113054), (210, 113117), (230, 113237), (236, 113273), (240, 113291), (243, 113306), (255, 113423), (260, 113462), (272, 113582), (278, 113624), (286, 113669), (288, 113678), (297, 113729), (306, 113771), (321, 113837), (322, 113846), (323, 113849), (324, 113855), (325, 113858), (326, 113867), (327, 113873), (328, 113888), (347, 113975), (367, 114080), (375, 114134), (384, 114221), (388, 114251), (393, 114281), (400, 114314), (402, 114323), (410, 114395), (414, 114425), (436, 114542), (443, 114587), (453, 114629), (479, 114773), (496, 114833), (518, 114935), (537, 115022), (538, 115025), (541, 115043), (547, 115079), (548, 115082), (568, 115142), (572, 115160), (591, 115256), (598, 115286), (602, 115304), (610, 115334), (635, 115427), (640, 115442), (656, 115523), (657, 115529), (661, 115541),

Gene: Triste_55 Start: 42467, Stop: 38982, Start Num: 47

Candidate Starts for Triste_55:

(Start: 21 @42536 has 1 MA's), (Start: 47 @42467 has 171 MA's), (Start: 58 @42404 has 1 MA's), (59, 42395), (67, 42353), (81, 42260), (90, 42191), (102, 42122), (108, 42068), (122, 41996), (127, 41960), (138, 41900), (184, 41675), (192, 41636), (199, 41609), (203, 41591), (208, 41570), (212, 41555), (220, 41513), (233, 41435), (235, 41423), (261, 41237), (262, 41231), (269, 41186), (279, 41102), (281, 41084), (291, 41027), (292, 41024), (296, 41012), (326, 40874), (327, 40868), (328, 40853), (330, 40847), (336, 40814), (353, 40736), (359, 40703), (386, 40562), (401, 40481), (402, 40475), (410, 40406), (420, 40343), (425, 40322), (433, 40277), (454, 40181), (455, 40172), (457, 40166), (474, 40064), (475, 40055), (480, 40043), (483, 40022), (492, 39992), (499, 39965), (513, 39899), (515, 39890), (517, 39878), (534, 39791), (570, 39623), (578, 39575), (604, 39464), (606, 39458), (638, 39326), (640, 39317), (643, 39290), (663, 39209), (680, 39077), (681, 39065),

Gene: TuanPN_52 Start: 42420, Stop: 38935, Start Num: 47

Candidate Starts for TuanPN_52:

(Start: 21 @42489 has 1 MA's), (Start: 47 @42420 has 171 MA's), (Start: 58 @42357 has 1 MA's), (59, 42348), (67, 42306), (81, 42213), (90, 42144), (102, 42075), (108, 42021), (122, 41949), (127, 41913), (138, 41853), (184, 41628), (192, 41589), (199, 41562), (203, 41544), (208, 41523), (212, 41508), (220, 41466), (233, 41388), (235, 41376), (261, 41190), (262, 41184), (269, 41139), (279, 41055), (281, 41037), (291, 40980), (292, 40977), (296, 40965), (326, 40827), (327, 40821), (328, 40806), (330, 40800), (336, 40767), (353, 40689), (359, 40656), (386, 40515), (401, 40434), (402, 40428), (410, 40359), (420, 40296), (425, 40275), (433, 40230), (454, 40134), (455, 40125), (457, 40119), (474, 40017), (475, 40008), (480, 39996), (483, 39975), (492, 39945), (499, 39918), (513, 39852),

(515, 39843), (517, 39831), (534, 39744), (570, 39576), (578, 39528), (604, 39417), (638, 39279), (640, 39270), (643, 39243), (654, 39195), (663, 39162), (666, 39135), (680, 39030), (681, 39018),

Gene: TunaTartare_59 Start: 50008, Stop: 53298, Start Num: 49

Candidate Starts for TunaTartare_59:

(Start: 49 @50008 has 71 MA's), (54, 50023), (55, 50029), (57, 50059), (60, 50080), (64, 50098), (Start: 65 @50104 has 1 MA's), (109, 50383), (120, 50443), (139, 50563), (159, 50668), (169, 50731), (171, 50737), (177, 50776), (226, 51007), (259, 51220), (275, 51355), (320, 51520), (327, 51559), (343, 51658), (345, 51664), (346, 51670), (347, 51676), (351, 51700), (353, 51709), (359, 51742), (372, 51808), (378, 51823), (380, 51832), (388, 51898), (390, 51904), (401, 51967), (406, 52018), (410, 52039), (421, 52093), (423, 52102), (427, 52120), (429, 52126), (454, 52252), (463, 52318), (476, 52378), (478, 52381), (493, 52438), (495, 52444), (498, 52456), (499, 52465), (520, 52561), (528, 52609), (535, 52636), (539, 52654), (561, 52759), (576, 52828), (577, 52834), (603, 52945), (606, 52954), (618, 53005), (625, 53029), (644, 53125), (646, 53134), (654, 53176), (657, 53188),

Gene: Turret_202 Start: 111793, Stop: 115188, Start Num: 47

Candidate Starts for Turret_202:

(Start: 14 @111700 has 47 MA's), (Start: 15 @111706 has 6 MA's), (Start: 18 @111718 has 8 MA's), (22, 111727), (Start: 47 @111793 has 171 MA's), (59, 111868), (78, 111982), (85, 112006), (95, 112066), (113, 112177), (118, 112216), (125, 112240), (130, 112282), (148, 112381), (159, 112423), (161, 112429), (164, 112441), (173, 112504), (180, 112564), (181, 112567), (186, 112594), (195, 112636), (210, 112699), (230, 112819), (236, 112855), (240, 112873), (243, 112888), (255, 113005), (260, 113044), (272, 113164), (278, 113206), (286, 113251), (288, 113260), (297, 113311), (306, 113353), (321, 113419), (322, 113428), (323, 113431), (324, 113437), (325, 113440), (326, 113449), (327, 113455), (328, 113470), (347, 113557), (367, 113662), (375, 113716), (384, 113803), (388, 113833), (393, 113863), (400, 113896), (402, 113905), (410, 113977), (414, 114007), (436, 114124), (443, 114169), (453, 114211), (479, 114355), (496, 114415), (518, 114517), (537, 114604), (538, 114607), (541, 114625), (547, 114661), (548, 114664), (568, 114724), (572, 114742), (591, 114838), (598, 114868), (602, 114886), (610, 114916), (635, 115009), (640, 115024), (656, 115105), (657, 115111), (661, 115123),

Gene: Twin_92 Start: 70020, Stop: 72848, Start Num: 33

Candidate Starts for Twin_92:

(Start: 33 @70020 has 1 MA's), (Start: 37 @70032 has 1 MA's), (Start: 40 @70035 has 5 MA's), (59, 70128), (68, 70188), (93, 70338), (94, 70341), (96, 70347), (110, 70446), (114, 70476), (115, 70479), (126, 70542), (130, 70563), (131, 70566), (136, 70593), (161, 70710), (163, 70719), (170, 70776), (173, 70785), (182, 70851), (196, 70917), (233, 71082), (236, 71100), (239, 71115), (241, 71121), (243, 71133), (249, 71160), (250, 71163), (256, 71223), (257, 71232), (258, 71235), (260, 71247), (263, 71292), (271, 71361), (274, 71385), (300, 71541), (303, 71559), (308, 71583), (313, 71601), (330, 71697), (337, 71739), (339, 71745), (347, 71781), (349, 71790), (352, 71808), (353, 71814), (357, 71838), (358, 71844), (359, 71847), (363, 71865), (364, 71868), (383, 71961), (390, 72006), (391, 72012), (395, 72036), (396, 72039), (398, 72048), (399, 72054), (401, 72066), (418, 72183), (420, 72201), (421, 72204), (423, 72213), (446, 72327), (449, 72342), (474, 72489), (478, 72501), (480, 72507), (489, 72540), (497, 72573), (500, 72591), (503, 72603), (506, 72612), (525, 72726), (528, 72738), (532, 72753), (546, 72828), (547, 72837),

Gene: Tyke_207 Start: 114200, Stop: 117688, Start Num: 14

Candidate Starts for Tyke_207:

(Start: 14 @114200 has 47 MA's), (Start: 15 @114206 has 6 MA's), (Start: 18 @114218 has 8 MA's), (22, 114227), (Start: 47 @114293 has 171 MA's), (59, 114368), (78, 114482), (85, 114506), (95, 114566), (113, 114677), (118, 114716), (125, 114740), (130, 114782), (148, 114881), (159, 114923), (161, 114929), (164, 114941), (173, 115004), (180, 115064), (181, 115067), (186, 115094), (195, 115136), (210, 115199), (236, 115355), (240, 115373), (243, 115388), (255, 115505), (260, 115544),

(272, 115664), (278, 115706), (286, 115751), (288, 115760), (297, 115811), (306, 115853), (321, 115919), (322, 115928), (323, 115931), (324, 115937), (325, 115940), (326, 115949), (327, 115955), (328, 115970), (347, 116057), (367, 116162), (375, 116216), (384, 116303), (388, 116333), (393, 116363), (400, 116396), (402, 116405), (410, 116477), (414, 116507), (436, 116624), (443, 116669), (453, 116711), (479, 116855), (496, 116915), (518, 117017), (537, 117104), (538, 117107), (541, 117125), (547, 117161), (548, 117164), (568, 117224), (572, 117242), (591, 117338), (598, 117368), (602, 117386), (610, 117416), (635, 117509), (640, 117524), (656, 117605), (657, 117611), (661, 117623),

Gene: UBSmoodge_101 Start: 73949, Stop: 76774, Start Num: 42

Candidate Starts for UBSmoodge_101:

(Start: 42 @73949 has 3 MA's), (59, 74039), (63, 74054), (68, 74099), (82, 74177), (93, 74249), (110, 74357), (114, 74387), (115, 74390), (116, 74393), (126, 74453), (130, 74474), (136, 74504), (161, 74621), (170, 74687), (173, 74696), (174, 74699), (196, 74828), (207, 74873), (210, 74882), (226, 74945), (233, 74993), (236, 75011), (239, 75026), (241, 75032), (243, 75044), (249, 75071), (250, 75074), (256, 75134), (257, 75143), (260, 75158), (267, 75236), (268, 75239), (271, 75272), (303, 75470), (308, 75494), (328, 75602), (329, 75605), (337, 75650), (347, 75692), (349, 75701), (353, 75725), (354, 75731), (358, 75755), (359, 75758), (363, 75776), (390, 75917), (391, 75923), (395, 75947), (396, 75950), (399, 75965), (401, 75977), (404, 75998), (409, 76067), (418, 76112), (420, 76130), (421, 76133), (423, 76142), (444, 76247), (446, 76256), (451, 76283), (474, 76415), (478, 76427), (480, 76433), (497, 76499), (500, 76517), (503, 76529), (506, 76538), (512, 76574), (525, 76652), (532, 76679), (542, 76733), (543, 76736), (546, 76754), (547, 76763),

Gene: Unstoppable_53 Start: 40230, Stop: 36751, Start Num: 47

Candidate Starts for Unstoppable_53:

(2, 40440), (Start: 47 @40230 has 171 MA's), (59, 40158), (Start: 65 @40131 has 1 MA's), (67, 40116), (90, 39954), (94, 39927), (96, 39921), (108, 39831), (112, 39816), (121, 39762), (122, 39759), (138, 39663), (163, 39585), (171, 39525), (184, 39438), (192, 39399), (203, 39354), (208, 39333), (212, 39318), (220, 39276), (223, 39264), (233, 39198), (235, 39186), (247, 39123), (262, 38994), (263, 38985), (269, 38949), (279, 38865), (281, 38847), (291, 38790), (292, 38787), (296, 38775), (326, 38637), (327, 38631), (328, 38616), (330, 38610), (336, 38577), (353, 38499), (359, 38466), (386, 38325), (397, 38268), (401, 38244), (402, 38238), (410, 38169), (420, 38106), (433, 38040), (437, 38019), (442, 38001), (454, 37944), (455, 37935), (474, 37827), (475, 37818), (480, 37806), (483, 37785), (492, 37755), (499, 37728), (513, 37662), (515, 37653), (517, 37641), (534, 37554), (539, 37530), (548, 37482), (578, 37338), (595, 37263), (638, 37089), (643, 37053), (654, 37005), (663, 36972),

Gene: Urza_53 Start: 38835, Stop: 35350, Start Num: 47

Candidate Starts for Urza_53:

(20, 38904), (24, 38895), (30, 38868), (Start: 47 @38835 has 171 MA's), (53, 38820), (55, 38808), (59, 38760), (62, 38748), (67, 38718), (75, 38667), (81, 38625), (84, 38592), (94, 38529), (115, 38394), (121, 38364), (122, 38361), (128, 38319), (138, 38265), (173, 38121), (184, 38040), (197, 37983), (199, 37974), (203, 37956), (208, 37935), (210, 37929), (220, 37878), (223, 37866), (233, 37800), (235, 37788), (241, 37761), (252, 37686), (261, 37602), (262, 37596), (281, 37449), (291, 37392), (292, 37389), (310, 37320), (314, 37311), (316, 37281), (317, 37278), (326, 37239), (327, 37233), (330, 37212), (336, 37179), (338, 37173), (353, 37101), (359, 37068), (362, 37056), (381, 36975), (386, 36927), (387, 36918), (396, 36873), (397, 36870), (401, 36846), (415, 36741), (420, 36708), (433, 36642), (454, 36546), (455, 36537), (474, 36429), (483, 36387), (492, 36357), (513, 36264), (515, 36255), (517, 36243), (518, 36240), (527, 36177), (531, 36171), (548, 36084), (553, 36063), (560, 36036), (573, 35958), (578, 35937), (589, 35889), (595, 35862), (629, 35718), (641, 35673), (664, 35556), (665, 35553), (677, 35466), (681, 35427), (682, 35421), (688, 35364), (689, 35355),

Gene: ValleyTerrace_210 Start: 112377, Stop: 115772, Start Num: 47

Candidate Starts for ValleyTerrace_210:

(Start: 14 @112284 has 47 MA's), (Start: 15 @112290 has 6 MA's), (Start: 18 @112302 has 8 MA's), (22, 112311), (Start: 47 @112377 has 171 MA's), (59, 112452), (78, 112566), (85, 112590), (95, 112650), (113, 112761), (118, 112800), (125, 112824), (130, 112866), (148, 112965), (159, 113007), (161, 113013), (164, 113025), (173, 113088), (180, 113148), (181, 113151), (186, 113178), (195, 113220), (210, 113283), (230, 113403), (236, 113439), (240, 113457), (243, 113472), (255, 113589), (260, 113628), (272, 113748), (278, 113790), (286, 113835), (288, 113844), (297, 113895), (306, 113937), (321, 114003), (322, 114012), (323, 114015), (324, 114021), (325, 114024), (326, 114033), (327, 114039), (328, 114054), (347, 114141), (367, 114246), (375, 114300), (384, 114387), (388, 114417), (393, 114447), (400, 114480), (402, 114489), (410, 114561), (414, 114591), (436, 114708), (443, 114753), (453, 114795), (479, 114939), (496, 114999), (518, 115101), (537, 115188), (538, 115191), (541, 115209), (547, 115245), (548, 115248), (568, 115308), (572, 115326), (591, 115422), (598, 115452), (602, 115470), (610, 115500), (635, 115593), (640, 115608), (656, 115689), (657, 115695), (661, 115707),

Gene: VieEnRose_54 Start: 38895, Stop: 35410, Start Num: 47

Candidate Starts for VieEnRose_54:

(20, 38964), (24, 38955), (30, 38928), (Start: 47 @38895 has 171 MA's), (53, 38880), (55, 38868), (59, 38820), (62, 38808), (67, 38778), (75, 38727), (81, 38685), (84, 38652), (94, 38589), (115, 38454), (121, 38424), (122, 38421), (128, 38379), (138, 38325), (173, 38181), (184, 38100), (197, 38043), (199, 38034), (203, 38016), (208, 37995), (220, 37938), (223, 37926), (233, 37860), (235, 37848), (241, 37821), (261, 37662), (262, 37656), (281, 37509), (291, 37452), (292, 37449), (310, 37380), (314, 37371), (316, 37341), (317, 37338), (326, 37299), (327, 37293), (330, 37272), (336, 37239), (338, 37233), (353, 37161), (359, 37128), (362, 37116), (381, 37035), (386, 36987), (387, 36978), (396, 36933), (397, 36930), (401, 36906), (415, 36801), (420, 36768), (433, 36702), (454, 36606), (455, 36597), (474, 36489), (483, 36447), (492, 36417), (513, 36324), (515, 36315), (517, 36303), (518, 36300), (527, 36237), (531, 36231), (548, 36144), (553, 36123), (560, 36096), (573, 36018), (578, 35997), (589, 35949), (595, 35922), (626, 35805), (629, 35778), (641, 35733), (656, 35658), (664, 35616), (665, 35613), (677, 35526), (681, 35487), (682, 35481), (688, 35424), (689, 35415),

Gene: Vortrix_229 Start: 118087, Stop: 121488, Start Num: 49

Candidate Starts for Vortrix_229:

(26, 118030), (Start: 49 @118087 has 71 MA's), (59, 118162), (85, 118300), (95, 118360), (118, 118510), (125, 118534), (137, 118615), (148, 118675), (159, 118717), (161, 118723), (163, 118732), (164, 118735), (173, 118798), (180, 118858), (181, 118861), (186, 118888), (188, 118903), (190, 118915), (195, 118930), (210, 118993), (236, 119149), (240, 119167), (241, 119170), (243, 119182), (255, 119299), (260, 119338), (272, 119458), (278, 119500), (286, 119545), (288, 119554), (297, 119605), (306, 119647), (321, 119713), (322, 119722), (323, 119725), (324, 119731), (325, 119734), (327, 119749), (347, 119851), (384, 120103), (388, 120133), (393, 120163), (402, 120205), (410, 120277), (414, 120307), (436, 120424), (443, 120469), (453, 120511), (463, 120589), (479, 120655), (480, 120658), (489, 120685), (496, 120715), (518, 120817), (522, 120829), (537, 120904), (541, 120925), (547, 120961), (548, 120964), (563, 121009), (568, 121024), (572, 121042), (591, 121138), (598, 121168), (602, 121186), (606, 121198), (610, 121216), (635, 121309), (640, 121324), (657, 121411), (661, 121423), (668, 121462),

Gene: Wakanda_57 Start: 50039, Stop: 53326, Start Num: 49

Candidate Starts for Wakanda_57:

(Start: 49 @50039 has 71 MA's), (60, 50111), (Start: 65 @50135 has 1 MA's), (80, 50231), (109, 50414), (120, 50474), (136, 50564), (139, 50594), (141, 50609), (144, 50636), (146, 50642), (159, 50699), (169, 50762), (177, 50807), (185, 50855), (229, 51059), (241, 51125), (242, 51134), (252, 51200), (269, 51335), (272, 51368), (285, 51446), (320, 51551), (327, 51590), (328, 51605), (346, 51701), (347, 51707), (353, 51740), (362, 51785), (363, 51791), (372, 51839), (380, 51863), (383, 51890), (385, 51908), (390, 51935), (401, 51998), (410, 52070), (421, 52124), (423, 52133), (427,

52151), (429, 52157), (454, 52283), (460, 52337), (463, 52349), (474, 52400), (476, 52409), (493, 52469), (529, 52643), (540, 52694), (564, 52802), (576, 52859), (577, 52865), (589, 52913), (603, 52976), (606, 52985), (636, 53114), (644, 53156), (648, 53171), (657, 53219),

Gene: Wally_207 Start: 112268, Stop: 115756, Start Num: 14

Candidate Starts for Wally_207:

(Start: 14 @112268 has 47 MA's), (Start: 15 @112274 has 6 MA's), (Start: 18 @112286 has 8 MA's), (22, 112295), (Start: 47 @112361 has 171 MA's), (59, 112436), (78, 112550), (85, 112574), (95, 112634), (113, 112745), (118, 112784), (125, 112808), (130, 112850), (148, 112949), (159, 112991), (161, 112997), (164, 113009), (173, 113072), (180, 113132), (181, 113135), (186, 113162), (195, 113204), (210, 113267), (230, 113387), (236, 113423), (240, 113441), (243, 113456), (255, 113573), (260, 113612), (272, 113732), (278, 113774), (286, 113819), (288, 113828), (297, 113879), (306, 113921), (321, 113987), (322, 113996), (323, 113999), (324, 114005), (325, 114008), (326, 114017), (327, 114023), (328, 114038), (347, 114125), (367, 114230), (375, 114284), (384, 114371), (388, 114401), (393, 114431), (400, 114464), (402, 114473), (410, 114545), (414, 114575), (436, 114692), (443, 114737), (453, 114779), (479, 114923), (496, 114983), (518, 115085), (537, 115172), (538, 115175), (541, 115193), (547, 115229), (548, 115232), (568, 115292), (572, 115310), (591, 115406), (598, 115436), (602, 115454), (610, 115484), (635, 115577), (640, 115592), (656, 115673), (657, 115679), (661, 115691),

Gene: Warpy_83 Start: 59428, Stop: 62712, Start Num: 49

Candidate Starts for Warpy_83:

(Start: 49 @59428 has 71 MA's), (56, 59473), (60, 59503), (64, 59521), (Start: 65 @59527 has 1 MA's), (75, 59593), (109, 59806), (139, 59986), (159, 60091), (169, 60154), (171, 60160), (177, 60199), (193, 60289), (200, 60316), (223, 60415), (242, 60526), (249, 60556), (250, 60559), (253, 60595), (285, 60838), (290, 60868), (327, 60982), (328, 60997), (346, 61093), (347, 61099), (363, 61183), (378, 61246), (380, 61255), (383, 61282), (390, 61327), (401, 61390), (410, 61462), (421, 61516), (423, 61525), (425, 61534), (427, 61543), (429, 61549), (460, 61729), (474, 61792), (493, 61861), (519, 61978), (538, 62068), (545, 62110), (559, 62173), (567, 62206), (577, 62257), (587, 62296), (588, 62302), (603, 62368), (616, 62416), (625, 62452), (633, 62497), (636, 62506), (644, 62548), (653, 62596), (657, 62611),

Gene: Watermoore_80 Start: 59734, Stop: 63018, Start Num: 49

Candidate Starts for Watermoore_80:

(Start: 49 @59734 has 71 MA's), (56, 59779), (60, 59809), (64, 59827), (Start: 65 @59833 has 1 MA's), (109, 60112), (127, 60214), (139, 60292), (159, 60397), (169, 60460), (171, 60466), (177, 60505), (200, 60622), (219, 60706), (242, 60832), (249, 60862), (253, 60901), (254, 60910), (278, 61108), (327, 61288), (345, 61393), (346, 61399), (347, 61405), (363, 61489), (369, 61519), (380, 61561), (383, 61588), (387, 61621), (390, 61633), (401, 61696), (410, 61768), (421, 61822), (423, 61831), (425, 61840), (427, 61849), (429, 61855), (474, 62098), (493, 62167), (496, 62179), (519, 62284), (559, 62479), (567, 62512), (577, 62563), (587, 62602), (588, 62608), (603, 62674), (616, 62722), (625, 62758), (633, 62803), (636, 62812), (644, 62854), (652, 62899), (653, 62902), (657, 62917),

Gene: Weasels2_102 Start: 62486, Stop: 65329, Start Num: 194

Candidate Starts for Weasels2_102:

(183, 62438), (191, 62474), (Start: 194 @62486 has 3 MA's), (223, 62594), (255, 62786), (282, 63011), (288, 63041), (289, 63044), (293, 63062), (324, 63146), (358, 63338), (363, 63359), (378, 63422), (380, 63431), (390, 63503), (394, 63530), (419, 63671), (421, 63689), (468, 63923), (539, 64277), (556, 64361), (569, 64424), (571, 64433), (572, 64436), (589, 64520), (613, 64625), (618, 64652), (621, 64664), (622, 64667), (628, 64697), (654, 64829), (665, 64883), (684, 65030), (692, 65096), (696, 65156), (697, 65165), (702, 65219), (703, 65222), (704, 65225), (705, 65228), (708, 65270),

Gene: Werner_54 Start: 42465, Stop: 38980, Start Num: 47

Candidate Starts for Werner_54:

(Start: 21 @42534 has 1 MA's), (Start: 47 @42465 has 171 MA's), (Start: 58 @42402 has 1 MA's), (59, 42393), (67, 42351), (81, 42258), (90, 42189), (102, 42120), (108, 42066), (122, 41994), (127, 41958), (138, 41898), (184, 41673), (192, 41634), (199, 41607), (203, 41589), (208, 41568), (212, 41553), (220, 41511), (233, 41433), (235, 41421), (261, 41235), (262, 41229), (269, 41184), (279, 41100), (281, 41082), (291, 41025), (292, 41022), (296, 41010), (326, 40872), (327, 40866), (328, 40851), (330, 40845), (353, 40734), (359, 40701), (386, 40560), (401, 40479), (402, 40473), (410, 40404), (420, 40341), (425, 40320), (433, 40275), (454, 40179), (455, 40170), (457, 40164), (474, 40062), (475, 40053), (480, 40041), (483, 40020), (492, 39990), (499, 39963), (513, 39897), (515, 39888), (517, 39876), (534, 39789), (570, 39621), (578, 39573), (604, 39462), (606, 39456), (638, 39324), (640, 39315), (643, 39288), (663, 39207), (680, 39075), (681, 39063),

Gene: Westy_61 Start: 49852, Stop: 53142, Start Num: 49

Candidate Starts for Westy_61:

(Start: 40 @49834 has 5 MA's), (Start: 49 @49852 has 71 MA's), (54, 49867), (55, 49873), (57, 49903), (60, 49924), (64, 49942), (Start: 65 @49948 has 1 MA's), (92, 50116), (99, 50158), (109, 50227), (120, 50287), (138, 50401), (139, 50407), (159, 50512), (169, 50575), (171, 50581), (177, 50620), (216, 50809), (228, 50866), (232, 50893), (241, 50938), (281, 51244), (289, 51280), (316, 51355), (320, 51364), (327, 51403), (345, 51508), (347, 51520), (353, 51553), (358, 51583), (359, 51586), (362, 51598), (363, 51604), (380, 51676), (388, 51742), (390, 51748), (401, 51811), (410, 51883), (421, 51937), (423, 51946), (427, 51964), (429, 51970), (453, 52084), (460, 52150), (463, 52162), (469, 52186), (476, 52222), (478, 52225), (493, 52282), (495, 52288), (498, 52300), (508, 52336), (520, 52405), (561, 52603), (569, 52636), (576, 52672), (577, 52678), (582, 52690), (603, 52789), (606, 52798), (611, 52819), (618, 52849), (630, 52906), (644, 52969), (654, 53020), (657, 53032),

Gene: Whatever_54 Start: 42491, Stop: 39006, Start Num: 47

Candidate Starts for Whatever_54:

(Start: 21 @42560 has 1 MA's), (Start: 47 @42491 has 171 MA's), (Start: 58 @42428 has 1 MA's), (59, 42419), (67, 42377), (81, 42284), (90, 42215), (102, 42146), (108, 42092), (122, 42020), (127, 41984), (138, 41924), (184, 41699), (192, 41660), (199, 41633), (203, 41615), (208, 41594), (212, 41579), (220, 41537), (233, 41459), (235, 41447), (261, 41261), (262, 41255), (269, 41210), (279, 41126), (281, 41108), (291, 41051), (292, 41048), (296, 41036), (326, 40898), (327, 40892), (328, 40877), (330, 40871), (336, 40838), (353, 40760), (359, 40727), (386, 40586), (401, 40505), (402, 40499), (410, 40430), (420, 40367), (425, 40346), (433, 40301), (454, 40205), (455, 40196), (457, 40190), (474, 40088), (475, 40079), (480, 40067), (483, 40046), (492, 40016), (499, 39989), (513, 39923), (515, 39914), (517, 39902), (534, 39815), (570, 39647), (578, 39599), (604, 39488), (606, 39482), (638, 39350), (640, 39341), (643, 39314), (663, 39233), (680, 39101), (681, 39089),

Gene: WhereRU_77 Start: 58001, Stop: 61285, Start Num: 49

Candidate Starts for WhereRU_77:

(Start: 49 @58001 has 71 MA's), (56, 58046), (60, 58076), (64, 58094), (Start: 65 @58100 has 1 MA's), (75, 58166), (109, 58379), (111, 58385), (127, 58481), (139, 58559), (159, 58664), (169, 58727), (171, 58733), (177, 58772), (200, 58889), (223, 58988), (242, 59099), (249, 59129), (253, 59168), (285, 59411), (327, 59555), (328, 59570), (345, 59660), (346, 59666), (347, 59672), (351, 59696), (363, 59756), (372, 59804), (378, 59819), (380, 59828), (390, 59900), (401, 59963), (410, 60035), (421, 60089), (423, 60098), (425, 60107), (427, 60116), (429, 60122), (445, 60203), (460, 60302), (474, 60365), (493, 60434), (496, 60446), (535, 60632), (539, 60650), (559, 60746), (567, 60779), (577, 60830), (588, 60875), (603, 60941), (611, 60971), (616, 60989), (625, 61025), (633, 61070), (636, 61079), (642, 61100), (644, 61121), (653, 61169), (657, 61184),

Gene: Willis_210 Start: 113275, Stop: 116670, Start Num: 47

Candidate Starts for Willis_210:

(Start: 14 @113182 has 47 MA's), (Start: 15 @113188 has 6 MA's), (Start: 18 @113200 has 8 MA's), (22, 113209), (Start: 47 @113275 has 171 MA's), (59, 113350), (78, 113464), (85, 113488), (95, 113548), (113, 113659), (118, 113698), (125, 113722), (130, 113764), (148, 113863), (159, 113905), (161, 113911), (164, 113923), (173, 113986), (180, 114046), (181, 114049), (186, 114076), (195, 114118), (210, 114181), (230, 114301), (236, 114337), (240, 114355), (243, 114370), (255, 114487), (260, 114526), (272, 114646), (278, 114688), (286, 114733), (288, 114742), (297, 114793), (306, 114835), (321, 114901), (322, 114910), (323, 114913), (324, 114919), (325, 114922), (326, 114931), (327, 114937), (328, 114952), (347, 115039), (367, 115144), (375, 115198), (384, 115285), (388, 115315), (393, 115345), (400, 115378), (402, 115387), (410, 115459), (414, 115489), (436, 115606), (443, 115651), (453, 115693), (479, 115837), (496, 115897), (518, 115999), (537, 116086), (538, 116089), (541, 116107), (547, 116143), (548, 116146), (568, 116206), (572, 116224), (591, 116320), (598, 116350), (602, 116368), (610, 116398), (635, 116491), (640, 116506), (656, 116587), (657, 116593), (661, 116605),

Gene: Wipeout_79 Start: 58788, Stop: 62108, Start Num: 48

Candidate Starts for Wipeout_79:

(Start: 48 @58788 has 34 MA's), (57, 58839), (60, 58860), (Start: 65 @58884 has 1 MA's), (77, 58965), (109, 59163), (139, 59343), (146, 59391), (159, 59448), (168, 59499), (169, 59517), (172, 59526), (177, 59562), (198, 59670), (200, 59679), (242, 59889), (253, 59958), (272, 60123), (285, 60201), (326, 60363), (347, 60486), (351, 60510), (363, 60570), (378, 60633), (380, 60642), (410, 60846), (421, 60900), (423, 60909), (427, 60927), (429, 60933), (463, 61125), (469, 61149), (474, 61176), (499, 61284), (539, 61473), (555, 61551), (565, 61593), (569, 61611), (577, 61653), (587, 61692), (588, 61698), (594, 61725), (603, 61764), (616, 61812), (617, 61821), (633, 61893), (640, 61914), (643, 61941), (644, 61944), (648, 61959), (653, 61992), (668, 62061),

Gene: Wofford_81 Start: 59478, Stop: 62798, Start Num: 48

Candidate Starts for Wofford_81:

(35, 59448), (Start: 48 @59478 has 34 MA's), (57, 59529), (60, 59550), (Start: 65 @59574 has 1 MA's), (77, 59655), (109, 59853), (139, 60033), (146, 60081), (159, 60138), (168, 60189), (169, 60207), (172, 60216), (177, 60252), (200, 60369), (216, 60441), (242, 60579), (253, 60648), (272, 60813), (285, 60891), (326, 61053), (330, 61080), (347, 61176), (351, 61200), (363, 61260), (380, 61332), (410, 61536), (421, 61590), (423, 61599), (427, 61617), (429, 61623), (461, 61806), (463, 61815), (469, 61839), (474, 61866), (539, 62163), (554, 62238), (555, 62241), (565, 62283), (577, 62343), (587, 62382), (588, 62388), (594, 62415), (603, 62454), (616, 62502), (617, 62511), (633, 62583), (643, 62631), (644, 62634), (652, 62679), (653, 62682), (665, 62736), (668, 62751),

Gene: Yaboi_82 Start: 58369, Stop: 61689, Start Num: 48

Candidate Starts for Yaboi_82:

(Start: 48 @58369 has 34 MA's), (60, 58441), (Start: 65 @58465 has 1 MA's), (77, 58546), (109, 58744), (139, 58924), (146, 58972), (159, 59029), (168, 59080), (169, 59098), (172, 59107), (177, 59143), (200, 59260), (216, 59332), (239, 59455), (242, 59470), (253, 59539), (272, 59704), (285, 59782), (326, 59944), (329, 59968), (347, 60067), (363, 60151), (380, 60223), (410, 60427), (421, 60481), (423, 60490), (427, 60508), (429, 60514), (453, 60628), (463, 60706), (469, 60730), (474, 60757), (529, 61012), (533, 61030), (537, 61042), (555, 61132), (569, 61192), (577, 61234), (588, 61279), (594, 61306), (603, 61345), (616, 61393), (617, 61402), (633, 61474), (637, 61486), (640, 61495), (643, 61522), (644, 61525), (648, 61540), (653, 61573), (665, 61627), (668, 61642),

Gene: Yasdnii_54 Start: 42454, Stop: 39032, Start Num: 58

Candidate Starts for Yasdnii_54:

(Start: 21 @42586 has 1 MA's), (Start: 47 @42517 has 171 MA's), (Start: 58 @42454 has 1 MA's), (59, 42445), (67, 42403), (81, 42310), (90, 42241), (102, 42172), (108, 42118), (122, 42046), (127, 42010), (138, 41950), (184, 41725), (192, 41686), (199, 41659), (203, 41641), (208, 41620), (212, 41605), (220, 41563), (233, 41485), (235, 41473), (261, 41287), (262, 41281), (269, 41236), (279, 41152),

(281, 41134), (291, 41077), (292, 41074), (296, 41062), (315, 40990), (326, 40924), (327, 40918), (328, 40903), (330, 40897), (336, 40864), (353, 40786), (359, 40753), (386, 40612), (401, 40531), (402, 40525), (410, 40456), (420, 40393), (425, 40372), (433, 40327), (454, 40231), (455, 40222), (457, 40216), (474, 40114), (475, 40105), (480, 40093), (483, 40072), (492, 40042), (499, 40015), (513, 39949), (515, 39940), (517, 39928), (534, 39841), (570, 39673), (578, 39625), (604, 39514), (638, 39376), (640, 39367), (643, 39340), (654, 39292), (663, 39259), (666, 39232), (680, 39127), (681, 39115),

Gene: Yassified_206 Start: 112716, Stop: 116111, Start Num: 47

Candidate Starts for Yassified_206:

(Start: 6 @112593 has 5 MA's), (Start: 14 @112623 has 47 MA's), (Start: 15 @112629 has 6 MA's), (Start: 18 @112641 has 8 MA's), (22, 112650), (Start: 47 @112716 has 171 MA's), (59, 112791), (78, 112905), (85, 112929), (95, 112989), (113, 113100), (118, 113139), (125, 113163), (130, 113205), (148, 113304), (159, 113346), (161, 113352), (164, 113364), (173, 113427), (180, 113487), (181, 113490), (186, 113517), (195, 113559), (210, 113622), (230, 113742), (236, 113778), (240, 113796), (243, 113811), (255, 113928), (260, 113967), (272, 114087), (278, 114129), (286, 114174), (288, 114183), (297, 114234), (306, 114276), (321, 114342), (322, 114351), (323, 114354), (324, 114360), (325, 114363), (326, 114372), (327, 114378), (328, 114393), (347, 114480), (367, 114585), (375, 114639), (384, 114726), (388, 114756), (393, 114786), (400, 114819), (402, 114828), (410, 114900), (414, 114930), (436, 115047), (443, 115092), (453, 115134), (479, 115278), (496, 115338), (518, 115440), (537, 115527), (538, 115530), (541, 115548), (547, 115584), (548, 115587), (568, 115647), (572, 115665), (591, 115761), (598, 115791), (602, 115809), (610, 115839), (635, 115932), (640, 115947), (656, 116028), (657, 116034), (661, 116046),

Gene: YemiJoy2021_210 Start: 114031, Stop: 117426, Start Num: 47

Candidate Starts for YemiJoy2021_210:

(Start: 14 @113938 has 47 MA's), (Start: 15 @113944 has 6 MA's), (Start: 18 @113956 has 8 MA's), (22, 113965), (Start: 47 @114031 has 171 MA's), (59, 114106), (78, 114220), (85, 114244), (95, 114304), (113, 114415), (118, 114454), (125, 114478), (130, 114520), (148, 114619), (159, 114661), (161, 114667), (164, 114679), (173, 114742), (180, 114802), (181, 114805), (186, 114832), (195, 114874), (210, 114937), (230, 115057), (236, 115093), (240, 115111), (243, 115126), (255, 115243), (260, 115282), (272, 115402), (278, 115444), (286, 115489), (288, 115498), (297, 115549), (306, 115591), (321, 115657), (322, 115666), (323, 115669), (324, 115675), (325, 115678), (326, 115687), (327, 115693), (328, 115708), (347, 115795), (367, 115900), (375, 115954), (384, 116041), (388, 116071), (393, 116101), (400, 116134), (402, 116143), (410, 116215), (414, 116245), (436, 116362), (443, 116407), (453, 116449), (479, 116593), (496, 116653), (518, 116755), (537, 116842), (538, 116845), (541, 116863), (547, 116899), (548, 116902), (568, 116962), (572, 116980), (591, 117076), (598, 117106), (602, 117124), (610, 117154), (635, 117247), (640, 117262), (656, 117343), (657, 117349), (661, 117361),

Gene: YoungMoneyMata_207 Start: 112573, Stop: 115968, Start Num: 47

Candidate Starts for YoungMoneyMata_207:

(Start: 14 @112480 has 47 MA's), (Start: 15 @112486 has 6 MA's), (Start: 18 @112498 has 8 MA's), (22, 112507), (Start: 47 @112573 has 171 MA's), (59, 112648), (78, 112762), (85, 112786), (95, 112846), (113, 112957), (118, 112996), (125, 113020), (130, 113062), (148, 113161), (159, 113203), (161, 113209), (164, 113221), (173, 113284), (180, 113344), (181, 113347), (186, 113374), (195, 113416), (210, 113479), (230, 113599), (236, 113635), (240, 113653), (243, 113668), (255, 113785), (260, 113824), (272, 113944), (278, 113986), (286, 114031), (288, 114040), (297, 114091), (306, 114133), (321, 114199), (322, 114208), (323, 114211), (324, 114217), (325, 114220), (326, 114229), (327, 114235), (328, 114250), (347, 114337), (367, 114442), (375, 114496), (384, 114583), (388, 114613), (393, 114643), (400, 114676), (402, 114685), (410, 114757), (414, 114787), (436, 114904), (443, 114949), (453, 114991), (479, 115135), (496, 115195), (518, 115297), (537, 115384), (538, 115387), (541, 115405), (547, 115441), (548, 115444), (568, 115504), (572, 115522), (591, 115618),

(598, 115648), (602, 115666), (610, 115696), (635, 115789), (640, 115804), (656, 115885), (657, 115891), (661, 115903),

Gene: Yucca_209 Start: 113930, Stop: 117418, Start Num: 14

Candidate Starts for Yucca_209:

(Start: 14 @113930 has 47 MA's), (Start: 15 @113936 has 6 MA's), (Start: 18 @113948 has 8 MA's), (22, 113957), (Start: 47 @114023 has 171 MA's), (59, 114098), (78, 114212), (85, 114236), (95, 114296), (113, 114407), (118, 114446), (125, 114470), (130, 114512), (148, 114611), (159, 114653), (161, 114659), (164, 114671), (173, 114734), (180, 114794), (181, 114797), (186, 114824), (195, 114866), (210, 114929), (230, 115049), (236, 115085), (240, 115103), (243, 115118), (255, 115235), (260, 115274), (272, 115394), (278, 115436), (286, 115481), (288, 115490), (297, 115541), (306, 115583), (321, 115649), (322, 115658), (323, 115661), (324, 115667), (325, 115670), (326, 115679), (327, 115685), (328, 115700), (347, 115787), (367, 115892), (375, 115946), (384, 116033), (388, 116063), (393, 116093), (400, 116126), (402, 116135), (410, 116207), (414, 116237), (436, 116354), (443, 116399), (453, 116441), (479, 116585), (496, 116645), (518, 116747), (537, 116834), (538, 116837), (541, 116855), (547, 116891), (548, 116894), (568, 116954), (572, 116972), (591, 117068), (598, 117098), (602, 117116), (610, 117146), (635, 117239), (640, 117254), (656, 117335), (657, 117341), (661, 117353),

Gene: Zalkecks_208 Start: 113011, Stop: 116499, Start Num: 14

Candidate Starts for Zalkecks_208:

(Start: 14 @113011 has 47 MA's), (Start: 15 @113017 has 6 MA's), (Start: 18 @113029 has 8 MA's), (22, 113038), (Start: 47 @113104 has 171 MA's), (59, 113179), (78, 113293), (85, 113317), (95, 113377), (113, 113488), (118, 113527), (125, 113551), (130, 113593), (148, 113692), (159, 113734), (161, 113740), (164, 113752), (173, 113815), (180, 113875), (181, 113878), (186, 113905), (195, 113947), (210, 114010), (230, 114130), (236, 114166), (240, 114184), (243, 114199), (255, 114316), (260, 114355), (272, 114475), (278, 114517), (286, 114562), (288, 114571), (297, 114622), (306, 114664), (321, 114730), (322, 114739), (323, 114742), (324, 114748), (325, 114751), (326, 114760), (327, 114766), (328, 114781), (347, 114868), (367, 114973), (375, 115027), (384, 115114), (388, 115144), (393, 115174), (400, 115207), (402, 115216), (410, 115288), (414, 115318), (436, 115435), (443, 115480), (453, 115522), (479, 115666), (496, 115726), (518, 115828), (537, 115915), (538, 115918), (541, 115936), (547, 115972), (548, 115975), (568, 116035), (572, 116053), (591, 116149), (598, 116179), (602, 116197), (610, 116227), (635, 116320), (640, 116335), (656, 116416), (657, 116422), (661, 116434),

Gene: Zeenon_211 Start: 113675, Stop: 117070, Start Num: 47

Candidate Starts for Zeenon_211:

(Start: 14 @113582 has 47 MA's), (Start: 15 @113588 has 6 MA's), (Start: 18 @113600 has 8 MA's), (22, 113609), (Start: 47 @113675 has 171 MA's), (59, 113750), (78, 113864), (85, 113888), (95, 113948), (113, 114059), (118, 114098), (125, 114122), (130, 114164), (148, 114263), (159, 114305), (161, 114311), (164, 114323), (173, 114386), (180, 114446), (181, 114449), (186, 114476), (195, 114518), (210, 114581), (230, 114701), (236, 114737), (240, 114755), (243, 114770), (255, 114887), (260, 114926), (272, 115046), (278, 115088), (286, 115133), (288, 115142), (297, 115193), (306, 115235), (321, 115301), (322, 115310), (323, 115313), (324, 115319), (325, 115322), (326, 115331), (327, 115337), (328, 115352), (347, 115439), (367, 115544), (375, 115598), (384, 115685), (388, 115715), (393, 115745), (400, 115778), (402, 115787), (410, 115859), (414, 115889), (436, 116006), (443, 116051), (453, 116093), (479, 116237), (496, 116297), (518, 116399), (537, 116486), (538, 116489), (541, 116507), (547, 116543), (548, 116546), (568, 116606), (572, 116624), (591, 116720), (598, 116750), (602, 116768), (610, 116798), (635, 116891), (640, 116906), (656, 116987), (657, 116993), (661, 117005),

Gene: Zemlya_55 Start: 41509, Stop: 38030, Start Num: 50

Candidate Starts for Zemlya_55:

(Start: 50 @41509 has 4 MA's), (59, 41437), (60, 41434), (Start: 65 @41410 has 1 MA's), (68, 41377), (78, 41323), (81, 41302), (90, 41233), (102, 41164), (108, 41110), (122, 41038), (127, 41002), (138, 40942), (163, 40864), (184, 40717), (192, 40678), (199, 40651), (203, 40633), (208, 40612), (212, 40597), (233, 40477), (235, 40465), (261, 40279), (262, 40273), (279, 40144), (281, 40126), (291, 40069), (292, 40066), (296, 40054), (326, 39916), (327, 39910), (328, 39895), (330, 39889), (336, 39856), (353, 39778), (359, 39745), (386, 39604), (401, 39523), (402, 39517), (410, 39448), (417, 39406), (420, 39385), (425, 39364), (433, 39319), (442, 39280), (454, 39223), (455, 39214), (469, 39133), (474, 39106), (480, 39085), (483, 39064), (492, 39034), (499, 39007), (513, 38941), (515, 38932), (517, 38920), (534, 38833), (570, 38665), (578, 38617), (596, 38533), (604, 38506), (638, 38368), (640, 38359), (643, 38332), (654, 38284), (656, 38278), (662, 38257), (663, 38251), (677, 38146), (681, 38107), (688, 38044),

Gene: ZygoTaiga_206 Start: 114202, Stop: 117690, Start Num: 14

Candidate Starts for ZygoTaiga_206:

(Start: 14 @114202 has 47 MA's), (Start: 15 @114208 has 6 MA's), (Start: 18 @114220 has 8 MA's), (22, 114229), (Start: 47 @114295 has 171 MA's), (59, 114370), (78, 114484), (85, 114508), (95, 114568), (113, 114679), (118, 114718), (125, 114742), (130, 114784), (148, 114883), (159, 114925), (161, 114931), (164, 114943), (173, 115006), (180, 115066), (181, 115069), (186, 115096), (195, 115138), (210, 115201), (230, 115321), (236, 115357), (240, 115375), (243, 115390), (255, 115507), (260, 115546), (272, 115666), (278, 115708), (286, 115753), (288, 115762), (297, 115813), (306, 115855), (321, 115921), (322, 115930), (323, 115933), (324, 115939), (325, 115942), (326, 115951), (327, 115957), (328, 115972), (347, 116059), (367, 116164), (375, 116218), (384, 116305), (388, 116335), (393, 116365), (400, 116398), (402, 116407), (410, 116479), (414, 116509), (436, 116626), (443, 116671), (453, 116713), (479, 116857), (496, 116917), (518, 117019), (537, 117106), (538, 117109), (541, 117127), (547, 117163), (548, 117166), (568, 117226), (572, 117244), (591, 117340), (598, 117370), (602, 117388), (610, 117418), (635, 117511), (640, 117526), (656, 117607), (657, 117613), (661, 117625),