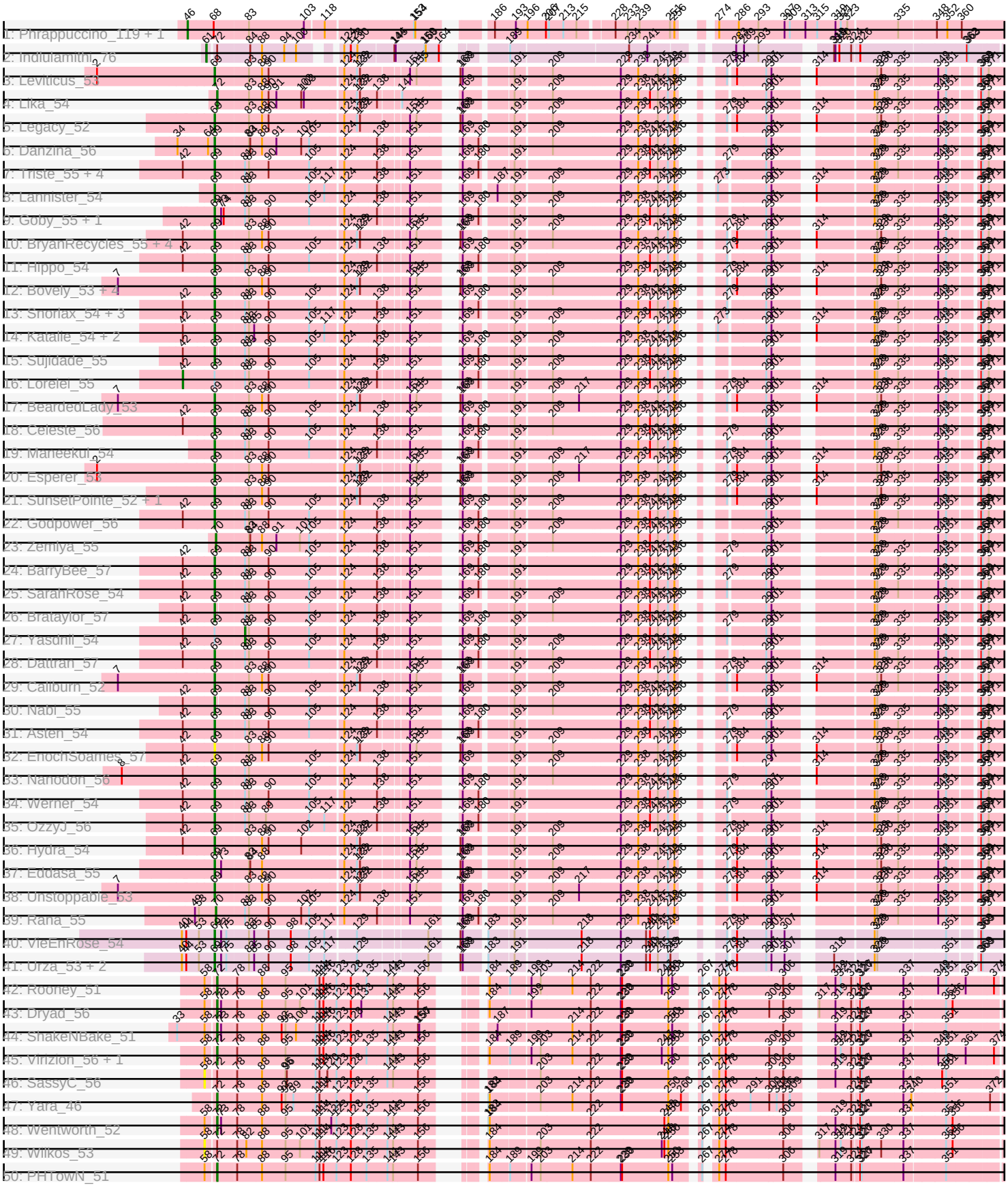
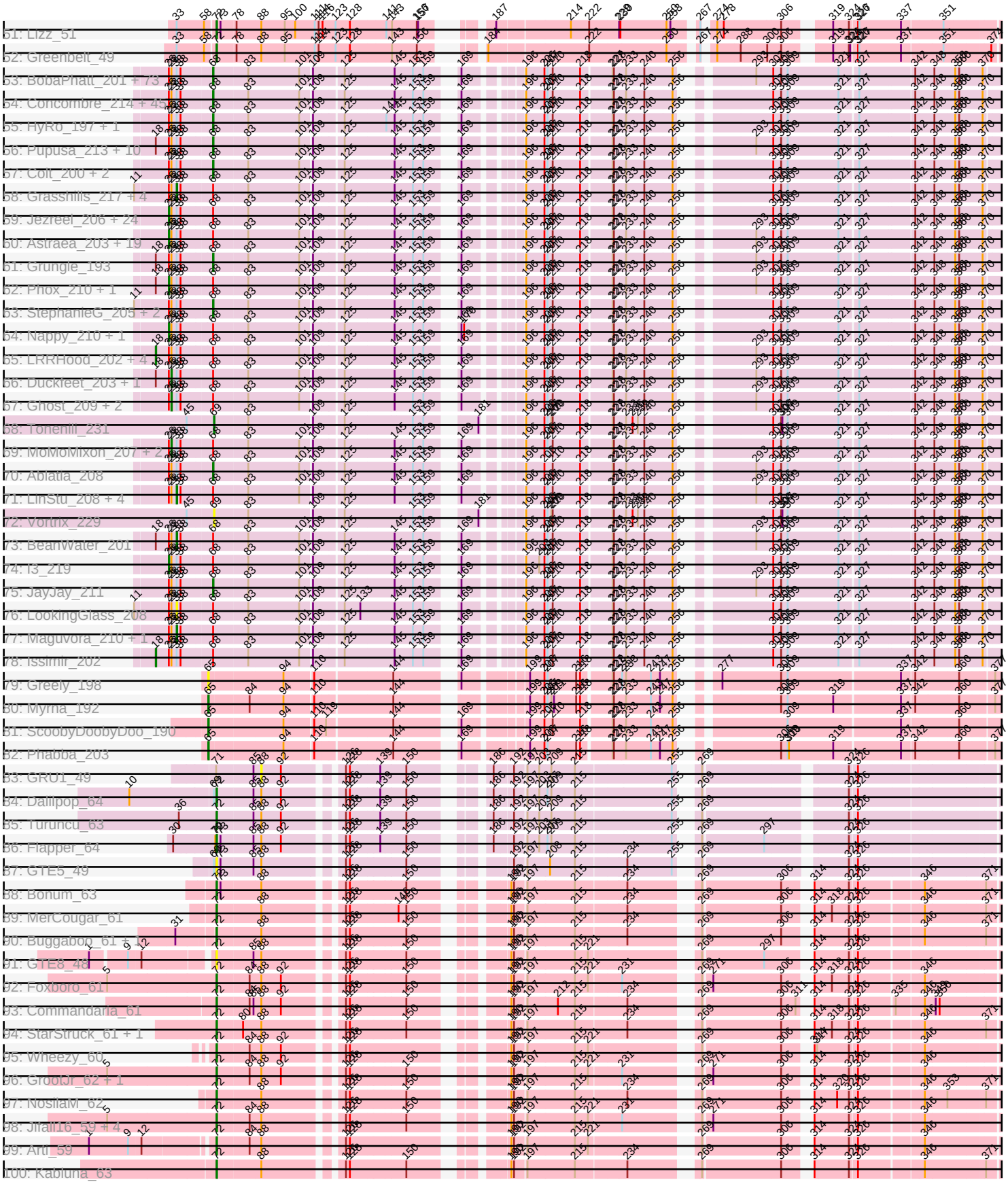
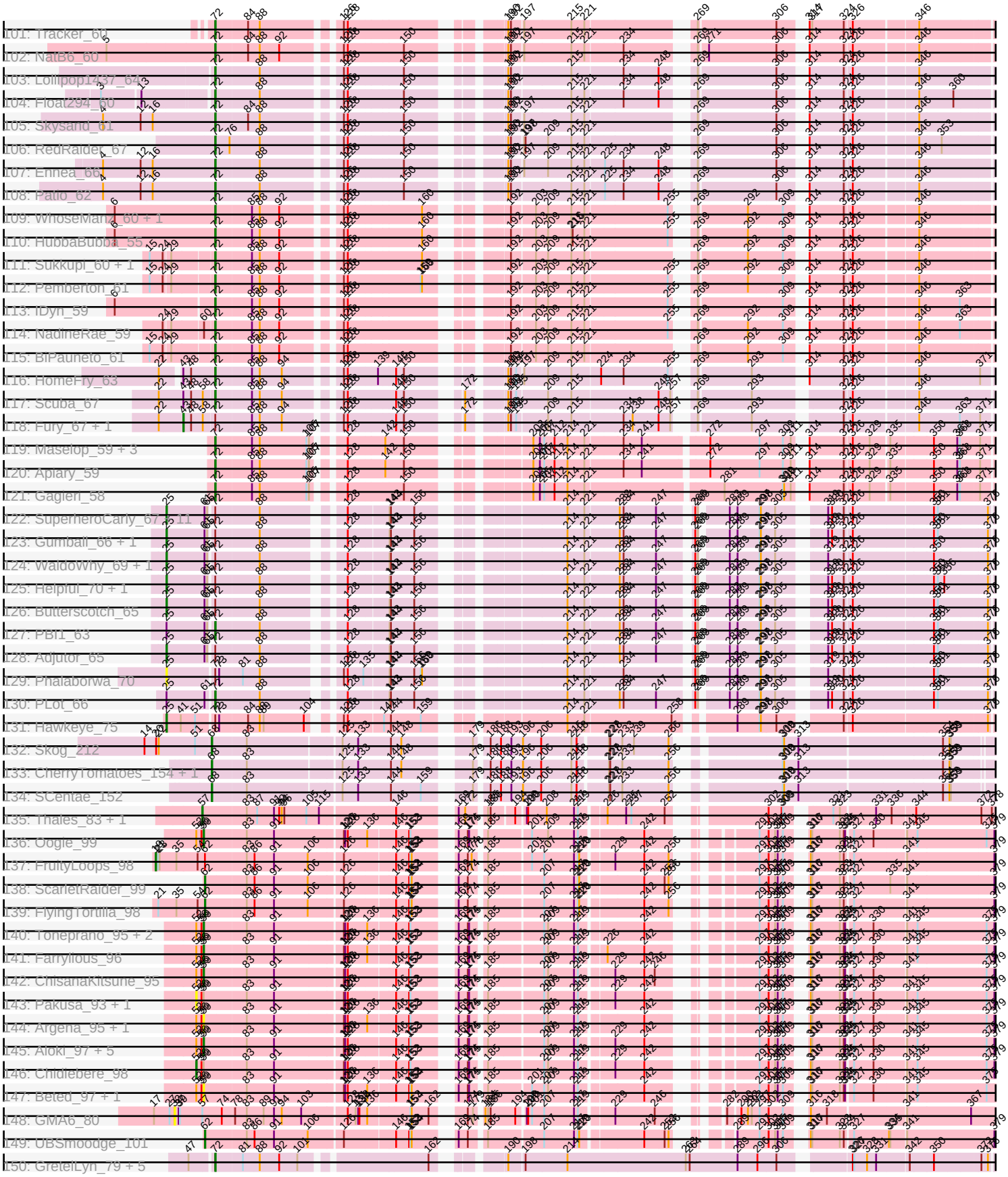
Zoomed Pham 347083



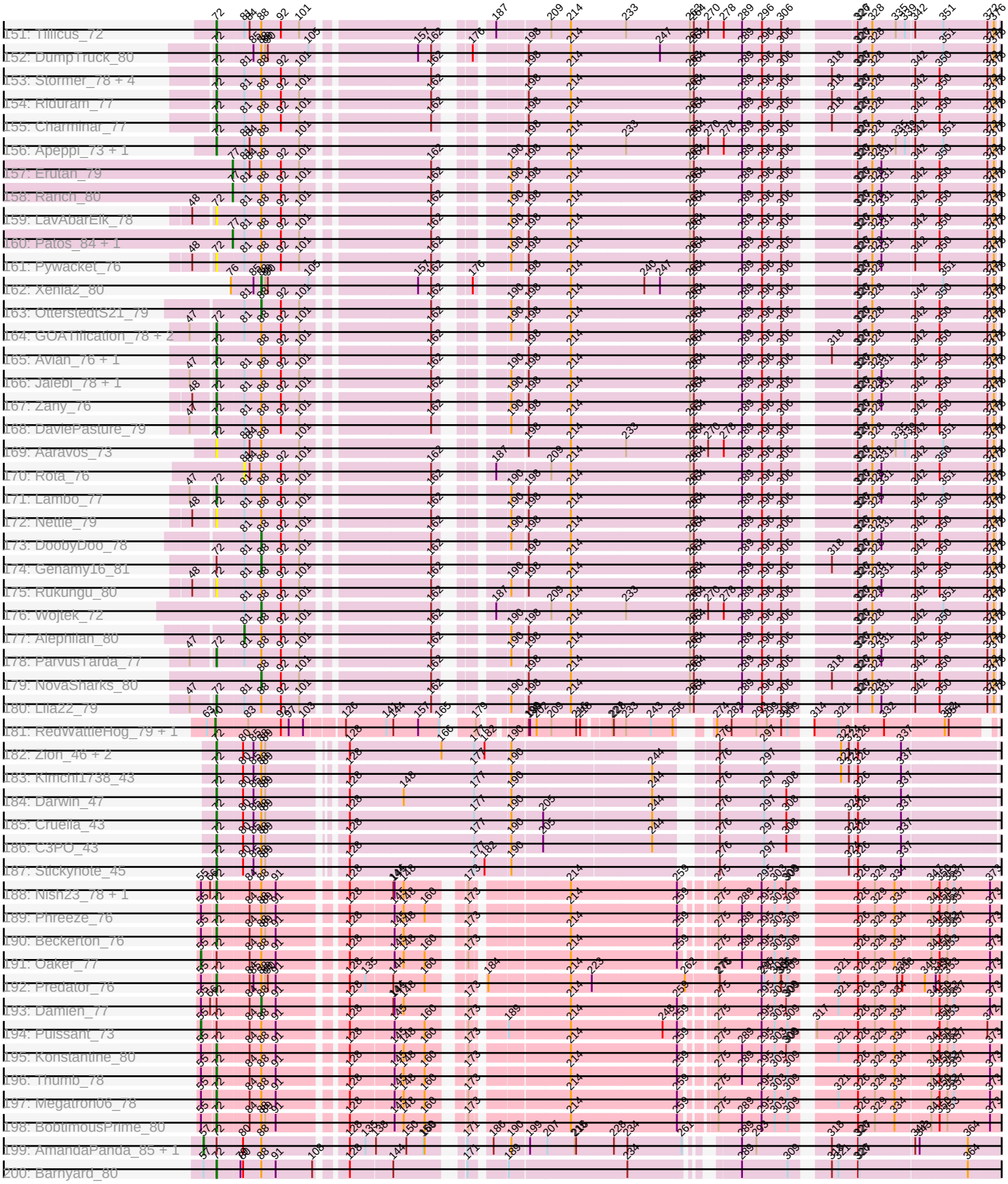
Zoomed Pham 347083



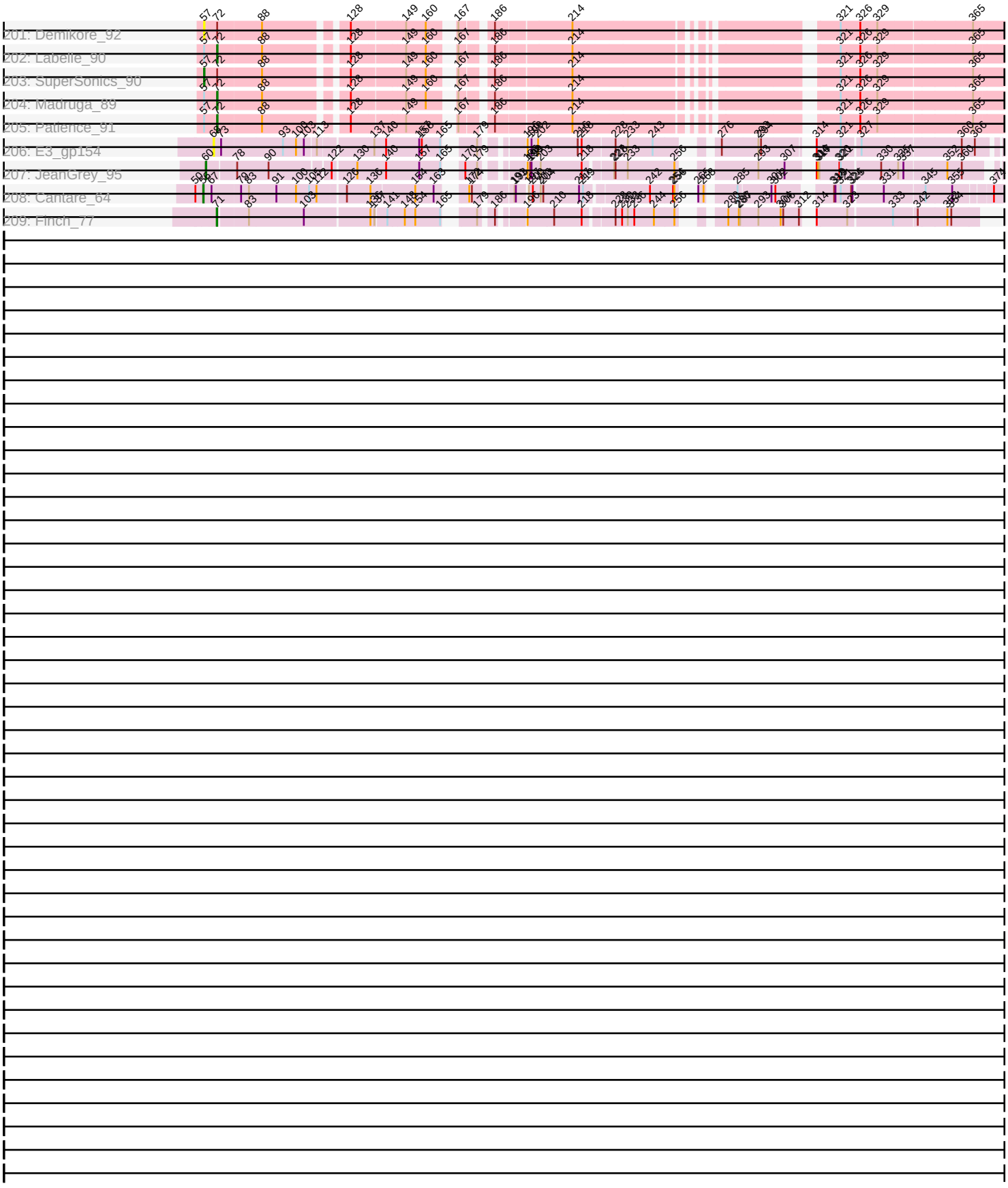
Zoomed Pham 347083



Zoomed Pham 347083



Zoomed Pham 347083



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 347083 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347083 has 487 members, 60 are drafts.

Phages represented in each track:
- Track 1 : Phrappuccino_119, Settecandela_119
- Track 2 : Indlulamithi_76
- Track 3 : Leviticus_53
- Track 4 : Lika_54
- Track 5 : Legacy_52
- Track 6 : Danzina_56
- Track 7 : Triste_55, Chucky_54, Emaanora_57, Whatever_54, TagePhighter_56
- Track 8 : Lannister_54
- Track 9 : Goby_55, Toma_55
- Track 10 : BryanRecycles_55, Rusticus_55, Izzy_55, Jash_55, Oliynyk_55
- Track 11 : Hippo_54
- Track 12 : Bovely_53, Nerdos_52, Indigo_52, Phettuccine_53, Aaronocolus_53
- Track 13 : Snorlax_54, Dwayne_54, Ejemplo_52, TuanPN_52
- Track 14 : Katalie_54, RedBear_55, South40_54
- Track 15 : Sujidade_55
- Track 16 : Lorelei_55
- Track 17 : BeardedLady_53
- Track 18 : Celeste_56
- Track 19 : Maneekul_54
- Track 20 : Esperer_53
- Track 21 : SunsetPointe_52, Ozzie_52
- Track 22 : Godpower_56
- Track 23 : Zemlya_55
- Track 24 : BarryBee_57
- Track 25 : SarahRose_54
- Track 26 : Brataylor_57
- Track 27 : Yasdnil_54
- Track 28 : Dattran_57
- Track 29 : Caliburn_52
- Track 30 : Nabi_55
- Track 31 : Asten_54
- Track 32 : EnochSoames_57
- Track 33 : Nanodon_56
- Track 34 : Werner_54
- Track 35 : OzzyJ_56
- Track 36 : Hydra_54
- Track 37 : Eddasa_55

• Track 38 : Unstoppable_53
• Track 39 : Rana_55
• Track 40 : VieEnRose_54
• Track 41 : Urza_53, Itza_54, Celia_53
• Track 42 : Rooney_51
• Track 43 : Dryad_56
• Track 44 : ShakeNBake_51
• Track 45 : Virizion_56, Gibson_51
• Track 46 : SassyC_56
• Track 47 : Yara_46
• Track 48 : Wentworth_52
• Track 49 : Wilkos_53
• Track 50 : PHTowN_51
• Track 51 : Lizz_51
• Track 52 : Greenbelt_49
• Track 53 : BobaPhatt_201, Shelob_210, MikeLiesIn_211, Basquiat_206, Naval22_216, Ngannou_206, Turret_202, ChickenPhender_205, EmToTheThree_209, Bonray_211, InigoMontoya_212, Atlantean_209, Janiyra_212, Flabslab_204, Nidhogg_210, Stubby_193, Morizzled23_206, JustHall_203, Gamgam_210, Ava3_208, Montpel_207, Bipolarisk_207, SiwenD96_211, Delilah_207, Ading_210, Momo_210, Babyland_212, NedWong_208, InterFolia_212, Lunareta_207, ParkTD_208, Fludd_209, Matsumoto_207, Willis_210, Khaleesi_208, Belieber_202, Lethe_209, OrediggerDelux_210, Kboogie_213, Quasimodo_211, Naija_210, Catera_201, Cactojaque_204, EmmaElysia_212, StubbySaigey_214, Ewok_208, Trinitium_205, Fixie_200, YoungMoneyMata_207, McWolfish_206, ValleyTerrace_210, Amataga_210, Napoleon13_206, Loanshark_206, Patter_210, DrPhinkDaddy_206, Latch_209, Chomp_209, YemiJoy2021_210, Audrick_211, DeejaClivia_197, Zeenon_211, Izajani_207, Maturis_206, ScottMcG_202, ChaylaJr_206, Pivoine_210, Lee7_213, Chargie21_206, Jessibeth14_209, PurduePete_209, Rocha_206, Moiqah_204, Spud_203
• Track 54 : Concombre_214, LolaVinca_207, SoilZilla_204, Phusco_207, NoodleTree_215, Asterius_211, DirtMonster_202, Bowman_209, Kamryn_208, Essence_206, Rahel_210, RoMag_204, Capablanca_214, SmallFry_209, PharkleMinkus_209, FrayBell_212, Demodog_215, TinyTim_207, Domi_203, Iota_204, Shnickers_207, SrishMeg2525_206, ShiaLabeouf_206, Primadonna_204, Blackbrain_206, Melpomini_204, Darko_208, Puhon_211, Specks_213, BananaFence_206, Bxz1_199, Fongie_210, Tortoise16_207, LordLeafolot_210, JigglyPuff_216, Phlegm_213, CindyLou_210, Spec_203, NuevoMundo_212, Tainan_210, Teardrop_206, Gabriel_212, Mikro_205, Maby2021_209, FoxtrotP1_207, GoldenSnow_209
• Track 55 : HyRo_197, Shifa_186
• Track 56 : Pupusa_213, Halldule_202, Shaqnato_200, Yassified_206, Norm_209, JulietS_200, Sauce_205, Ronan_205, Blackdragon_204, QBert_201, Sprinklers_207
• Track 57 : Colt_200, Blubba_198, Cane17_200
• Track 58 : Grasshills_217, Bigswole_214, EggyFarm_218, BigCity_218, Pier_210
• Track 59 : Jezreel_206, Erdmann_210, Bangla1971_209, Shrimp_211, ArcherS7_209, Delylah_211, Derek_206, LifeSavor_208, Jedediah_209, Labradorite_209, EasyJones_212, Drazdys_207, Burrough_211, Breeniome_208, SVoro_205, Gizmo_215, Mangeria_210, Tyke_207, DTDevon_211, Guwapp_204, Bread_204, JPickles_205, Salacia_209, Caravan_200, Pio_217
• Track 60 : Astraea_203, Dessert_209, Cleatunium_202, 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 61 : Grungle_193
• Track 62 : Phox_210, Koguma_208
• Track 63 : StephanieG_205, IkeLoa_201, BadAgartude_203
• Track 64 : Nappy_210, Dandelion_217
• Track 65 : LRRHood_202, Bezza_202, CharlieB_203, Lukilu_200, ET08_197
• Track 66 : Duckfeet_203, Cali_202
• Track 67 : Ghost_209, Alice_196, Pleione_213
• Track 68 : Tonenili_231
• Track 69 : MoMoMixon_207, Substance289_206, Sebata_210
• Track 70 : Ablatia_208
• Track 71 : LinStu_208, Adlitam_208, Dietrick_198, Moby_205, Jemmno_208
• Track 72 : Vortrix_229
• Track 73 : BeanWater_201
• Track 74 : I3_219
• Track 75 : JayJay_211
• Track 76 : LookingGlass_208
• Track 77 : Maguvora_210, Jaygup_205
• Track 78 : Issimir_202
• Track 79 : Greely_198
• Track 80 : Myrna_192
• Track 81 : ScoobyDoobyDoo_190
• Track 82 : Phabba_203
• Track 83 : GRU1_49
• Track 84 : Dalilpop_64
• Track 85 : Turuncu_63
• Track 86 : Flapper_64
• Track 87 : GTE5_49
• Track 88 : Bonum_63
• Track 89 : MerCougar_61
• Track 90 : Buggaboo_61, SuperSulley_61
• Track 91 : GTE8_48
• Track 92 : Foxboro_61
• Track 93 : Commandaria_61
• Track 94 : StarStruck_61, Outis_61
• Track 95 : Wheezy_60
• Track 96 : GrootJr_62, NovumRegina_60
• Track 97 : NosilaM_62
• Track 98 : Jifall16_59, Kurt_60, Emianna_60, KidneyBean_60, Phomeo_59
• Track 99 : Arti_59
• Track 100 : Kabluna_63
• Track 101 : Tracker_60
• Track 102 : NatB6_60
• Track 103 : Lollipop1437_64
• Track 104 : Float294_60
• Track 105 : Skysand_61
• Track 106 : RedRaider_67
• Track 107 : Ennea_66
• Track 108 : Patio_62
• Track 109 : WhoseManz_60, Marietta_61
• Track 110 : HubbaBubba_55
• Track 111 : Sukkupi_60, Yndexa_60

• Track 112 : Pemberton_61
• Track 113 : IDyn_59
• Track 114 : NadineRae_59
• Track 115 : BiPauneto_61
• Track 116 : HomeFry_63
• Track 117 : Scuba_67
• Track 118 : Fury_67, Pleakley_67
• Track 119 : Maselop_59, Braxoaddie_59, CoffeeBean_59, Polyyuki_59
• Track 120 : Apiary_59
• Track 121 : Gagieri_58
• Track 122 : SuperheroCarly_67, Nova_66, Erk16_66, Giuseppe_68, Visconti_68, Penelope2018_67, Troll4_66, BigMama_65, Delton_67, Thoth_67, KandZ_65, Prager_67
• Track 123 : Gumball_66, SirHarley_69
• Track 124 : WaldoWhy_69, Chill_69
• Track 125 : Helpful_70, Mopey_68
• Track 126 : Butterscotch_65
• Track 127 : PBI1_63
• Track 128 : Adjutor_65
• Track 129 : Phalaborwa_70
• Track 130 : PLot_66
• Track 131 : Hawkeye_75
• Track 132 : Skog_212
• Track 133 : CherryTomatoes_154, Pupper_153
• Track 134 : SCentae_152
• Track 135 : Thales_83, DalanDe_85
• Track 136 : Oogie_99
• Track 137 : FruityLoops_98
• Track 138 : ScarletRaider_99
• Track 139 : FlyingTortilla_98
• Track 140 : Toneprano_95, Gray_98, Amoonguss_95
• Track 141 : Farrylious_96
• Track 142 : ChisanaKitsune_95
• Track 143 : Pakusa_93, Twin_92
• Track 144 : Argena_95, MintFritos_93
• Track 145 : Aloki_97, Hanem_97, Schomber_96, Kabocha_99, EmoNemo_92, Mikronejon_98
• Track 146 : Chidiebere_98
• Track 147 : Beted_97, Lenoshki_97
• Track 148 : GMA6_80
• Track 149 : UBSmoodge_101
• Track 150 : GretelLyn_79, Sadboi_79, Mima20_77, MoiGyank_82, Yikes_80, Gibbin_81
• Track 151 : Tillicus_72
• Track 152 : DumpTruck_80
• Track 153 : Stormer_78, Alyssamiracle_81, Rumi_79, Jamemuya19_76, Astralis_78
• Track 154 : Riduram_77
• Track 155 : Charminar_77
• Track 156 : Apeppi_73, LuckyLeo_75
• Track 157 : Erutan_79
• Track 158 : Ranch_80
• Track 159 : LavAbarElk_78
• Track 160 : Patos_84, NorManre_84

• Track 161 : Pywacket_76
• Track 162 : Xenia2_80
• Track 163 : OtterstedtS21_79
• Track 164 : GOATification_78, Fulcrum_78, BirthdayBoy_81
• Track 165 : Avian_76, RazorC_78
• Track 166 : Jalebi_78, Sampudon_80
• Track 167 : Zany_76
• Track 168 : DaviePasture_79
• Track 169 : Aaravos_73
• Track 170 : Rota_76
• Track 171 : Lambo_77
• Track 172 : Nettle_79
• Track 173 : DoobyDoo_78
• Track 174 : Genamy16_81
• Track 175 : Rukungu_80
• Track 176 : Wojtek_72
• Track 177 : Alephilan_80
• Track 178 : ParvusTarda_77
• Track 179 : NovaSharks_80
• Track 180 : Lila22_79
• Track 181 : RedWattleHog_79, Stormageddon_76
• Track 182 : Zion_46, PeteyPab_45, PotatoChip_46
• Track 183 : Kimchi1738_43
• Track 184 : Darwin_47
• Track 185 : Cruella_43
• Track 186 : C3PO_43
• Track 187 : Stickynote_45
• Track 188 : Nish23_78, Cborch11_78
• Track 189 : Phreeze_76
• Track 190 : Beckerton_76
• Track 191 : Oaker_77
• Track 192 : Predator_76
• Track 193 : Damien_77
• Track 194 : Puissant_73
• Track 195 : Konstantine_80
• Track 196 : Thumb_78
• Track 197 : Megatron06_78
• Track 198 : BobtimousPrime_80
• Track 199 : AmandaPanda_85, DrLupo_85
• Track 200 : Barnyard_80
• Track 201 : Demikore_92
• Track 202 : Labelle_90
• Track 203 : SuperSonics_90
• Track 204 : Madruga_89
• Track 205 : Patience_91
• Track 206 : E3_gp154
• Track 207 : JeanGrey_95
• Track 208 : Cantare_64
• Track 209 : 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 68, it was called in 125 of the 427 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ablatia_208, Ading_210, Amataga_210, Asterius_211, Atlantean_209, Audrick_211, Ava3_208, Babyland_212, BadAgartude_203, BananaFence_206, Basquiat_206, Belieber_202, Bipolarisk_207, Blackbrain_206, Blackdragon_204, Blubba_198, BobaPhatt_201, Bonray_211, Bowman_209, Bxz1_199, Cactojaque_204, Cane17_200, Capablanca_214, Catera_201, Chargie21_206, ChaylaJr_206, CherryTomatoes_154, ChickenPhender_205, Chomp_209, CindyLou_210, Colt_200, Concombre_214, Darko_208, DeejaClivia_197, Delilah_207, Demodog_215, DirtMonster_202, Domi_203, DrPhinkDaddy_206, E3_gp154, EmToTheThree_209, EmmaElysia_212, Essence_206, Ewok_208, Fixie_200, Flabslab_204, Fludd_209, Fongie_210, FoxtrotP1_207, FrayBell_212, Gabriel_212, Gamgam_210, GoldenSnow_209, Grungle_193, Halldule_202, HyRo_197, IkeLoa_201, InigoMontoya_212, InterFolia_212, Iota_204, Izajani_207, Janiyra_212, JayJay_211, Jessibeth14_209, JigglyPuff_216, JulietS_200, JustHall_203, Kamryn_208, Kboogie_213, Khaleesi_208, Latch_209, Lee7_213, Lethe_209, Loanshark_206, LolaVinca_207, LordLeafolot_210, Lunareta_207, Maby2021_209, Matsumoto_207, Maturis_206, McWolfish_206, Melpomini_204, MikeLiesIn_211, Mikro_205, Moiqah_204, Momo_210, Montpel_207, Morizzled23_206, Naija_210, Napoleon13_206, Naval22_216, NedWong_208, Ngannou_206, Nidhogg_210, NoodleTree_215, Norm_209, NuevoMundo_212, OrediggerDelux_210, ParkTD_208, Patter_210, PharkleMinkus_209, Phlegm_213, Phusco_207, Pivoine_210, Primadonna_204, Puhon_211, Pupper_153, Pupusa_213, PurduePete_209, QBert_201, Quasimodo_211, Rahel_210, RoMag_204, Rocha_206, Ronan_205, SCentae_152, Sauce_205, ScottMcG_202, Shaqnato_200, Shelob_210, ShiaLabeouf_206, Shifa_186, Shnickers_207, SiwenD96_211, Skog_212, SmallFry_209, SoilZilla_204, Spec_203, Specks_213, Sprinklers_207, Spud_203, SrishMeg2525_206, StephanieG_205, StubbySaigey_214, Stubby_193, Tainan_210, Teardrop_206, TinyTim_207, Tortoise16_207, Trinitium_205, Turret_202, ValleyTerrace_210, 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, Bezza_202, BigCity_218, Bigswole_214, Bread_204, Breeniome_208, Burrough_211, Cali_202, Caravan_200, CharlieB_203, Cleatunium_202, DTDevon_211, Daffodil_214, Dandelion_217, Delylah_211, Derek_206, Dessert_209, 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_209, LifeSavor_208, LinStu_208, Littleton_212, LookingGlass_208, Lukilu_200, Maguvora_210, 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, Yucca_209, Zalkecks_208, ZygoTaiga_206,

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

• Aaravos_73, Aaronocolus_53, Adjutor_65, Alephilan_80, Aloki_97, Alyssamiracle_81, AmandaPanda_85, Amoonguss_95, Apeppi_73, Apiary_59, Argena_95, Arti_59, Asten_54, Astralis_78, Avian_76, Barnyard_80, BarryBee_57, BeardedLady_53, Beckerton_76, Beted_97, BiPauneto_61, BigMama_65, BirthdayBoy_81, BobtimousPrime_80, Bonum_63, Bovely_53, Brataylor_57, Braxoaddie_59, BryanRecycles_55, Buggaboo_61, Butterscotch_65, C3PO_43, Caliburn_52, Cantare_64, Cborch11_78, Celeste_56, Celia_53, Charminar_77, Chidiebere_98, Chill_69, ChisanaKitsune_95, Chucky_54, CoffeeBean_59, Commandaria_61, Cruella_43, DalanDe_85, Dalilpop_64, Damien_77, Danzina_56, Darwin_47, Dattran_57, DaviePasture_79, Delton_67, Demikore_92, DoobyDoo_78, DrLupo_85, Dryad_56, DumpTruck_80, Dwayne_54, Eddasa_55, Ejemplo_52, Emaanora_57, Emianna_60, EmoNemo_92, Ennea_66, EnochSoames_57, Erk16_66, Erutan_79, Esperer_53, Farrylious_96, Finch_77, Flapper_64, Float294_60, FlyingTortilla_98, Foxboro_61, FruityLoops_98, Fulcrum_78, Fury_67, GMA6_80, GOATification_78, GRU1_49, GTE5_49, GTE8_48, Gagieri_58, Genamy16_81, Gibbin_81, Gibson_51, Giuseppe_68, Goby_55, Godpower_56, Gray_98, Greely_198, Greenbelt_49, GretelLyn_79, GrootJr_62, Gumball_66, Hanem_97, Hawkeye_75, Helpful_70, Hippo_54, HomeFry_63, HubbaBubba_55, Hydra_54, IDyn_59, Indigo_52, Indlulamithi_76, Itza_54, Izzy_55, Jalebi_78, Jamemuya19_76, Jash_55, JeanGrey_95, Jifall16_59, Kabluna_63, Kabocha_99, KandZ_65, Katalie_54, KidneyBean_60, Kimchi1738_43, Konstantine_80, Kurt_60, Labelle_90, Lambo_77, Lannister_54, LavAbarElk_78, Legacy_52, Lenoshki_97, Leviticus_53, Lika_54, Lila22_79, Lizz_51, Lollipop1437_64, Lorelei_55, LuckyLeo_75, Madruga_89, Maneekul_54, Marietta_61, Maselop_59, Megatron06_78, MerCougar_61, Mikronejon_98, Mima20_77, MintFritos_93, MoiGyank_82, Mopey_68, Myrna_192, Nabi_55, NadineRae_59, Nanodon_56, NatB6_60, Nerdos_52, Nettle_79, Nish23_78, NorManre_84, NosilaM_62, NovaSharks_80, Nova_66, NovumRegina_60, Oaker_77, Oliynyk_55, Oogie_99, OtterstedtS21_79, Outis_61, Ozzie_52, OzzyJ_56, PBI1_63, PHTowN_51, PLot_66, Pakusa_93, ParvusTarda_77, Patience_91, Patio_62, Patos_84, Pemberton_61, Penelope2018_67, PeteyPab_45, Phabba_203, Phalaborwa_70, Phettuccine_53, Phomeo_59, Phreeze_76, Pleakley_67, Polyyuki_59, PotatoChip_46, Prager_67, Predator_76, Puissant_73, Pywacket_76, Rana_55, Ranch_80, RazorC_78, RedBear_55, RedRaider_67, RedWattleHog_79, Riduram_77, Rooney_51, Rota_76, Rukungu_80, Rumi_79, Rusticus_55, Sadboi_79, Sampudon_80, SarahRose_54, SassyC_56, ScarletRaider_99, Schomber_96, ScoobyDoobyDoo_190, Scuba_67, ShakeNBake_51, SirHarley_69, Skysand_61, Snorlax_54, South40_54, StarStruck_61, Stickynote_45, Stormageddon_76, Stormer_78, Sujidade_55, Sukkupi_60, SunsetPointe_52, SuperSonics_90, SuperSulley_61, SuperheroCarly_67, TagePhighter_56, Thales_83, Thoth_67, Thumb_78, Tillicus_72, Toma_55, Tonenili_231, Toneprano_95, Tracker_60, Triste_55, Troll4_66, TuanPN_52, Turuncu_63, Twin_92, UBSmoodge_101, Unstoppable_53, Urza_53, VieEnRose_54, Virizion_56, Visconti_68, Vortrix_229, WaldoWhy_69, Wentworth_52, Werner_54, Whatever_54, Wheezy_60, WhoseManz_60, Wilkos_53, Wojtek_72, Xenia2_80, Yara_46, Yasdnil_54, Yikes_80, Yndexa_60, Zany_76, Zemlya_55, Zion_46,

Summary by start number:

Start 18:
• Found in 23 of 487 (4.7%) of genes in pham
• Manual Annotations of this start: 6 of 427
• Called 26.1% of time when present

• Phage (with cluster) where this start called: Bezza_202 (C1), CharlieB_203 (C1), ET08_197 (C1), Issimir_202 (C1), LRRHood_202 (C1), Lukilu_200 (C1),

Start 19:
• Found in 1 of 487 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 427
• Called 100.0% of time when present
• Phage (with cluster) where this start called: FruityLoops_98 (DQ),

Start 25:
• Found in 24 of 487 (4.9%) of genes in pham
• Manual Annotations of this start: 21 of 427
• Called 91.7% of time when present
• Phage (with cluster) where this start called: Adjutor_65 (D1), BigMama_65 (D1), Butterscotch_65 (D1), Chill_69 (D1), Delton_67 (D1), Erk16_66 (D1), Giuseppe_68 (D1), Gumball_66 (D1), Hawkeye_75 (D2), Helpful_70 (D1), KandZ_65 (D1), Mopey_68 (D1), Nova_66 (D1), Penelope2018_67 (D1), Phalaborwa_70 (D1), Prager_67 (D1), SirHarley_69 (D1), SuperheroCarly_67 (D1), Thoth_67 (D1), Troll4_66 (D1), Visconti_68 (D1), WaldoWhy_69 (D1),

Start 26:
• Found in 220 of 487 (45.2%) of genes in pham
• Manual Annotations of this start: 50 of 427
• Called 22.7% 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), Cleatunium_202 (C1), DTDevon_211 (C1), Daffodil_214 (C1), Dandelion_217 (C1), Delylah_211 (C1), Derek_206 (C1), Dessert_209 (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), Labradorite_209 (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 28:
• Found in 220 of 487 (45.2%) of genes in pham
• Manual Annotations of this start: 6 of 427
• Called 3.6% 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 32:
• Found in 1 of 487 (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: GMA6_80 (DQ),

Start 33:

• Found in 223 of 487 (45.8%) of genes in pham
• Manual Annotations of this start: 8 of 427
• Called 6.3% of time when present
• Phage (with cluster) where this start called: Adlitam_208 (C1), BeanWater_201 (C1), BigCity_218 (C1), Bigswole_214 (C1), Dietrick_198 (C1), EggyFarm_218 (C1), Grasshills_217 (C1), Jaygup_205 (C1), Jemmno_208 (C1), LinStu_208 (C1), LookingGlass_208 (C1), Maguvora_210 (C1), Moby_205 (C1), Pier_210 (C1),

Start 42:
• Found in 34 of 487 (7.0%) of genes in pham
• Manual Annotations of this start: 1 of 427
• Called 2.9% of time when present
• Phage (with cluster) where this start called: Lorelei_55 (BD1),

Start 43:
• Found in 4 of 487 (0.8%) of genes in pham
• Manual Annotations of this start: 2 of 427
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Fury_67 (CR5), Pleakley_67 (CR5),

Start 46:
• Found in 2 of 487 (0.4%) of genes in pham
• Manual Annotations of this start: 2 of 427
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phrappuccino_119 (AA), Settecandela_119 (AA),

Start 52:
• Found in 19 of 487 (3.9%) of genes in pham
• Manual Annotations of this start: 1 of 427
• Called 15.8% of time when present
• Phage (with cluster) where this start called: Chidiebere_98 (DQ), Pakusa_93 (DQ), Twin_92 (DQ),

Start 55:
• Found in 12 of 487 (2.5%) of genes in pham
• Manual Annotations of this start: 2 of 427
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Oaker_77 (H1), Puissant_73 (H1),

Start 56:
• Found in 20 of 487 (4.1%) of genes in pham
• Manual Annotations of this start: 1 of 427
• Called 5.0% of time when present
• Phage (with cluster) where this start called: Cantare_64 (singleton),

Start 57:
• Found in 11 of 487 (2.3%) of genes in pham
• Manual Annotations of this start: 3 of 427
• Called 54.5% of time when present
• Phage (with cluster) where this start called: AmandaPanda_85 (H2), DalanDe_85 (DQ), Demikore_92 (U), DrLupo_85 (H2), SuperSonics_90 (U), Thales_83 (DQ),

Start 58:
• Found in 14 of 487 (2.9%) of genes in pham
• No Manual Annotations of this start.
• Called 14.3% of time when present
• Phage (with cluster) where this start called: SassyC_56 (BN), Wilkos_53 (BN),

Start 59:
• Found in 19 of 487 (3.9%) of genes in pham
• Manual Annotations of this start: 9 of 427
• Called 84.2% of time when present
• Phage (with cluster) where this start called: Aloki_97 (DQ), Amoonguss_95 (DQ), Argena_95 (DQ), Beted_97 (DQ), ChisanaKitsune_95 (DQ), EmoNemo_92 (DQ), Farrylious_96 (DQ), Gray_98 (DQ), Hanem_97 (DQ), Kabocha_99 (DQ), Lenoshki_97 (DQ), Mikronejon_98 (DQ), MintFritos_93 (DQ), Oogie_99 (DQ), Schomber_96 (DQ), Toneprano_95 (DQ),

Start 60:
• Found in 2 of 487 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 427
• Called 50.0% of time when present
• Phage (with cluster) where this start called: JeanGrey_95 (singleton),

Start 61:
• Found in 23 of 487 (4.7%) of genes in pham
• Manual Annotations of this start: 1 of 427
• Called 4.3% of time when present
• Phage (with cluster) where this start called: Indlulamithi_76 (AC),

Start 62:
• Found in 4 of 487 (0.8%) of genes in pham
• Manual Annotations of this start: 3 of 427
• Called 75.0% of time when present
• Phage (with cluster) where this start called: FlyingTortilla_98 (DQ), ScarletRaider_99 (DQ), UBSmoodge_101 (DQ),

Start 65:
• Found in 25 of 487 (5.1%) of genes in pham
• Manual Annotations of this start: 3 of 427
• Called 16.0% of time when present
• Phage (with cluster) where this start called: Greely_198 (C2), Myrna_192 (C2), Phabba_203 (C2), ScoobyDoobyDoo_190 (C2),

Start 68:
• Found in 227 of 487 (46.6%) of genes in pham
• Manual Annotations of this start: 125 of 427
• Called 64.8% of time when present
• Phage (with cluster) where this start called: Ablatia_208 (C1), Ading_210 (C1), Amataga_210 (C1), Asterius_211 (C1), Atlantean_209 (C1), Audrick_211 (C1), Ava3_208 (C1), Babyland_212 (C1), BadAgartude_203 (C1), BananaFence_206 (C1), Basquiat_206 (C1), Belieber_202 (C1), Bipolarisk_207 (C1), Blackbrain_206 (C1), Blackdragon_204 (C1), Blubba_198 (C1), BobaPhatt_201 (C1), Bonray_211 (C1), Bowman_209 (C1), Bxz1_199 (C1), Cactojaque_204 (C1), Cane17_200 (C1), Capablanca_214 (C1), Catera_201 (C1), Chargie21_206 (C1), ChaylaJr_206 (C1),

CherryTomatoes_154 (DO), ChickenPhender_205 (C1), Chomp_209 (C1), CindyLou_210 (C1), Colt_200 (C1), Concombre_214 (C1), Darko_208 (C1), DeejaClivia_197 (C1), Delilah_207 (C1), Demodog_215 (C1), DirtMonster_202 (C1), Domi_203 (C1), DrPhinkDaddy_206 (C1), E3_gp154 (singleton), EmToTheThree_209 (C1), EmmaElysia_212 (C1), Essence_206 (C1), Ewok_208 (C1), Fixie_200 (C1), Flabslab_204 (C1), Fludd_209 (C1), Fongie_210 (C1), FoxtrotP1_207 (C1), FrayBell_212 (C1), Gabriel_212 (C1), Gamgam_210 (C1), GoldenSnow_209 (C1), Grungle_193 (C1), Halldule_202 (C1), HyRo_197 (C1), IkeLoa_201 (C1), InigoMontoya_212 (C1), InterFolia_212 (C1), Iota_204 (C1), Izajani_207 (C1), Janiyra_212 (C1), JayJay_211 (C1), Jessibeth14_209 (C1), JigglyPuff_216 (C1), JulietS_200 (C1), JustHall_203 (C1), Kamryn_208 (C1), Kboogie_213 (C1), Khaleesi_208 (C1), Latch_209 (C1), Lee7_213 (C1), Lethe_209 (C1), Loanshark_206 (C1), LolaVinca_207 (C1), LordLeafolot_210 (C1), Lunareta_207 (C1), Maby2021_209 (C1), 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), Naija_210 (C1), Napoleon13_206 (C1), Naval22_216 (C1), NedWong_208 (C1), Ngannou_206 (C1), Nidhogg_210 (C1), NoodleTree_215 (C1), Norm_209 (C1), NuevoMundo_212 (C1), OrediggerDelux_210 (C1), ParkTD_208 (C1), Patter_210 (C1), PharkleMinkus_209 (C1), Phlegm_213 (C1), Phusco_207 (C1), Pivoine_210 (C1), Primadonna_204 (C1), Puhon_211 (C1), Pupper_153 (DO), Pupusa_213 (C1), PurduePete_209 (C1), QBert_201 (C1), Quasimodo_211 (C1), Rahel_210 (C1), RoMag_204 (C1), Rocha_206 (C1), Ronan_205 (C1), SCentae_152 (DO), Sauce_205 (C1), ScottMcG_202 (C1), Shaqnato_200 (C1), Shelob_210 (C1), ShiaLabeouf_206 (C1), Shifa_186 (C1), Shnickers_207 (C1), SiwenD96_211 (C1), Skog_212 (DO), SmallFry_209 (C1), SoilZilla_204 (C1), Spec_203 (C1), Specks_213 (C1), Sprinklers_207 (C1), Spud_203 (C1), SrishMeg2525_206 (C1), StephanieG_205 (C1), StubbySaigey_214 (C1), Stubby_193 (C1), Tainan_210 (C1), Teardrop_206 (C1), TinyTim_207 (C1), Tortoise16_207 (C1), Trinitium_205 (C1), Turret_202 (C1), ValleyTerrace_210 (C1), Willis_210 (C1), Yassified_206 (C1), YemiJoy2021_210 (C1), YoungMoneyMata_207 (C1), Zeenon_211 (C1),

Start 69:
• Found in 61 of 487 (12.5%) of genes in pham
• Manual Annotations of this start: 55 of 427
• Called 93.4% of time when present
• Phage (with cluster) where this start called: Aaronocolus_53 (BD1), Asten_54 (BD1), BarryBee_57 (BD1), BeardedLady_53 (BD1), Bovely_53 (BD1), Brataylor_57 (BD1), BryanRecycles_55 (BD1), Caliburn_52 (BD1), Celeste_56 (BD1), Celia_53 (BD6), Chucky_54 (BD1), Danzina_56 (BD1), Dattran_57 (BD1), Dwayne_54 (BD1), Eddasa_55 (BD1), Ejemplo_52 (BD1), Emaanora_57 (BD1), EnochSoames_57 (BD1), Esperer_53 (BD1), Goby_55 (BD1), Godpower_56 (BD1), Hippo_54 (BD1), Hydra_54 (BD1), Indigo_52 (BD1), Itza_54 (BD6), Izzy_55 (BD1), Jash_55 (BD1), Katalie_54 (BD1), Lannister_54 (BD1), Legacy_52 (BD1), Leviticus_53 (BD1), Maneekul_54 (BD1), Nabi_55 (BD1), Nanodon_56 (BD1), Nerdos_52 (BD1), Oliynyk_55 (BD1), Ozzie_52 (BD1), OzzyJ_56 (BD1), Phettuccine_53 (BD1), RedBear_55 (BD1), Rusticus_55 (BD1), SarahRose_54 (BD1), Snorlax_54 (BD1), South40_54 (BD1), Sujidade_55 (BD1), SunsetPointe_52 (BD1), TagePhighter_56 (BD1), Toma_55 (BD1), Tonenili_231 (C1), Triste_55 (BD1), TuanPN_52 (BD1), Unstoppable_53 (BD1), Urza_53 (BD6), VieEnRose_54 (BD6), Vortrix_229 (C1), Werner_54 (BD1), Whatever_54 (BD1),

Start 70:

• Found in 5 of 487 (1.0%) of genes in pham
• Manual Annotations of this start: 4 of 427
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Rana_55 (BD1), RedWattleHog_79 (DX), Stormageddon_76 (DX), Zemlya_55 (BD1),

Start 71:
• Found in 2 of 487 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 427
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Finch_77 (singleton),

Start 72:
• Found in 152 of 487 (31.2%) of genes in pham
• Manual Annotations of this start: 108 of 427
• Called 77.0% of time when present
• Phage (with cluster) where this start called: Aaravos_73 (DV), Alyssamiracle_81 (DV), Apeppi_73 (DV), Apiary_59 (CR6), Arti_59 (CR2), Astralis_78 (DV), Avian_76 (DV), Barnyard_80 (H2), Beckerton_76 (H1), BiPauneto_61 (CR4), BirthdayBoy_81 (DV), BobtimousPrime_80 (H1), Bonum_63 (CR2), Braxoaddie_59 (CR6), Buggaboo_61 (CR2), C3PO_43 (EN), Cborch11_78 (H1), Charminar_77 (DV), CoffeeBean_59 (CR6), Commandaria_61 (CR2), Cruella_43 (EN), Dalilpop_64 (CR1), Darwin_47 (EN), DaviePasture_79 (DV), Dryad_56 (BN), DumpTruck_80 (DV), Emianna_60 (CR2), Ennea_66 (CR3), Flapper_64 (CR1), Float294_60 (CR3), Foxboro_61 (CR2), Fulcrum_78 (DV), GOATification_78 (DV), GTE5_49 (CR1), GTE8_48 (CR2), Gagieri_58 (CR6), Gibbin_81 (DV), Gibson_51 (BN), Greenbelt_49 (BN), GretelLyn_79 (DV), GrootJr_62 (CR2), HomeFry_63 (CR5), HubbaBubba_55 (CR4), IDyn_59 (CR4), Jalebi_78 (DV), Jamemuya19_76 (DV), Jifall16_59 (CR2), Kabluna_63 (CR2), KidneyBean_60 (CR2), Kimchi1738_43 (EN), Konstantine_80 (H1), Kurt_60 (CR2), Labelle_90 (U), Lambo_77 (DV), LavAbarElk_78 (DV), Lika_54 (BD1), Lila22_79 (DV), Lizz_51 (BN), Lollipop1437_64 (CR3), LuckyLeo_75 (DV), Madruga_89 (U), Marietta_61 (CR4), Maselop_59 (CR6), Megatron06_78 (H1), MerCougar_61 (CR2), Mima20_77 (DV), MoiGyank_82 (DV), NadineRae_59 (CR4), NatB6_60 (CR2), Nettle_79 (DV), Nish23_78 (H1), NosilaM_62 (CR2), NovumRegina_60 (CR2), Outis_61 (CR2), PBI1_63 (D1), PHTowN_51 (BN), PLot_66 (D1), ParvusTarda_77 (DV), Patience_91 (U), Patio_62 (CR3), Pemberton_61 (CR4), PeteyPab_45 (EN), Phomeo_59 (CR2), Phreeze_76 (H1), Polyyuki_59 (CR6), PotatoChip_46 (EN), Predator_76 (H1), Pywacket_76 (DV), RazorC_78 (DV), RedRaider_67 (CR3), Riduram_77 (DV), Rooney_51 (BN), Rukungu_80 (DV), Rumi_79 (DV), Sadboi_79 (DV), Sampudon_80 (DV), Scuba_67 (CR5), ShakeNBake_51 (BN), Skysand_61 (CR3), StarStruck_61 (CR2), Stickynote_45 (EN), Stormer_78 (DV), Sukkupi_60 (CR4), SuperSulley_61 (CR2), Thumb_78 (H1), Tillicus_72 (DV), Tracker_60 (CR2), Turuncu_63 (CR1), Virizion_56 (BN), Wentworth_52 (BN), Wheezy_60 (CR2), WhoseManz_60 (CR4), Yara_46 (BN), Yikes_80 (DV), Yndexa_60 (CR4), Zany_76 (DV), Zion_46 (EN),

Start 77:
• Found in 4 of 487 (0.8%) of genes in pham
• Manual Annotations of this start: 4 of 427
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Erutan_79 (DV), NorManre_84 (DV), Patos_84 (DV), Ranch_80 (DV),

Start 81:
• Found in 74 of 487 (15.2%) of genes in pham
• Manual Annotations of this start: 2 of 427
• Called 4.1% of time when present
• Phage (with cluster) where this start called: Alephilan_80 (DV), Rota_76 (DV), Yasdnil_54 (BD1),

Start 88:
• Found in 187 of 487 (38.4%) of genes in pham
• Manual Annotations of this start: 7 of 427
• Called 4.3% of time when present
• Phage (with cluster) where this start called: Damien_77 (H1), DoobyDoo_78 (DV), GRU1_49 (CR1), Genamy16_81 (DV), NovaSharks_80 (DV), OtterstedtS21_79 (DV), Wojtek_72 (DV), Xenia2_80 (DV),

Summary by clusters:

There are 24 clusters represented in this pham: DO, singleton, BN, DX, DV, DQ, BD6, BD1, C2, C1, AA, AC, EN, U, CR2, CR3, CR1, CR6, CR4, CR5, H2, H1, D2, D1,

Info for manual annotations of cluster AA:
•Start number 46 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster AC:
•Start number 61 was manually annotated 1 time for cluster AC.

Info for manual annotations of cluster BD1:
•Start number 42 was manually annotated 1 time for cluster BD1.
•Start number 69 was manually annotated 50 times for cluster BD1.
•Start number 70 was manually annotated 2 times for cluster BD1.
•Start number 72 was manually annotated 1 time for cluster BD1.
•Start number 81 was manually annotated 1 time for cluster BD1.

Info for manual annotations of cluster BD6:
•Start number 69 was manually annotated 4 times for cluster BD6.

Info for manual annotations of cluster BN:
•Start number 72 was manually annotated 9 times for cluster BN.

Info for manual annotations of cluster C1:
•Start number 18 was manually annotated 6 times for cluster C1.
•Start number 26 was manually annotated 50 times for cluster C1.
•Start number 28 was manually annotated 6 times for cluster C1.
•Start number 33 was manually annotated 8 times for cluster C1.
•Start number 68 was manually annotated 121 times for cluster C1.
•Start number 69 was manually annotated 1 time for cluster C1.

Info for manual annotations of cluster C2:
•Start number 65 was manually annotated 3 times for cluster C2.

Info for manual annotations of cluster CR1:
•Start number 72 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:
•Start number 72 was manually annotated 21 times for cluster CR2.

Info for manual annotations of cluster CR3:
•Start number 72 was manually annotated 6 times for cluster CR3.

Info for manual annotations of cluster CR4:
•Start number 72 was manually annotated 9 times for cluster CR4.

Info for manual annotations of cluster CR5:
•Start number 43 was manually annotated 2 times for cluster CR5.
•Start number 72 was manually annotated 2 times for cluster CR5.

Info for manual annotations of cluster CR6:
•Start number 72 was manually annotated 6 times for cluster CR6.

Info for manual annotations of cluster D1:
•Start number 25 was manually annotated 20 times for cluster D1.
•Start number 72 was manually annotated 2 times for cluster D1.

Info for manual annotations of cluster D2:
•Start number 25 was manually annotated 1 time for cluster D2.

Info for manual annotations of cluster DO:
•Start number 68 was manually annotated 4 times for cluster DO.

Info for manual annotations of cluster DQ:
•Start number 19 was manually annotated 1 time for cluster DQ.
•Start number 52 was manually annotated 1 time for cluster DQ.
•Start number 57 was manually annotated 1 time for cluster DQ.
•Start number 59 was manually annotated 9 times for cluster DQ.
•Start number 62 was manually annotated 3 times for cluster DQ.

Info for manual annotations of cluster DV:
•Start number 72 was manually annotated 29 times for cluster DV.
•Start number 77 was manually annotated 4 times for cluster DV.
•Start number 81 was manually annotated 1 time for cluster DV.
•Start number 88 was manually annotated 6 times for cluster DV.

Info for manual annotations of cluster DX:
•Start number 70 was manually annotated 2 times for cluster DX.

Info for manual annotations of cluster EN:
•Start number 72 was manually annotated 8 times for cluster EN.

Info for manual annotations of cluster H1:
•Start number 55 was manually annotated 2 times for cluster H1.
•Start number 72 was manually annotated 8 times for cluster H1.
•Start number 88 was manually annotated 1 time for cluster H1.

Info for manual annotations of cluster H2:
•Start number 57 was manually annotated 1 time for cluster H2.
•Start number 72 was manually annotated 1 time for cluster H2.

Info for manual annotations of cluster U:
•Start number 57 was manually annotated 1 time for cluster U.
•Start number 72 was manually annotated 3 times for cluster U.

Gene Information:

Gene: Aaravos_73 Start: 51128, Stop: 54466, Start Num: 72
Candidate Starts for Aaravos_73:
(Start: 72 @51128 has 108 MA's), (Start: 81 @51188 has 2 MA's), (84, 51200), (Start: 88 @51224 has 7 MA's), (101, 51311), (198, 51707), (214, 51803), (233, 51926), (263, 52073), (264, 52082), (270, 52115), (278, 52151), (289, 52193), (296, 52238), (306, 52280), (326, 52412), (327, 52415), (328, 52445), (335, 52496), (339, 52517), (342, 52535), (351, 52598), (372, 52688), (376, 52703), (382, 52724), (429, 52919), (433, 52952), (437, 52970), (452, 53033), (453, 53036), (470, 53099), (479, 53132), (487, 53174), (490, 53186), (495, 53222), (521, 53336), (538, 53402), (544, 53429), (548, 53444), (553, 53480), (566, 53534), (571, 53552), (589, 53648), (594, 53672), (615, 53744), (707, 53948), (728, 54059), (732, 54074), (736, 54095), (739, 54107), (740, 54113), (741, 54116), (748, 54143), (759, 54188), (779, 54296), (792, 54335), (795, 54341), (801, 54365), (812, 54401),

Gene: Aaronocolus_53 Start: 40236, Stop: 36757, Start Num: 69
Candidate Starts for Aaronocolus_53:
(7, 40446), (Start: 69 @40236 has 55 MA's), (83, 40164), (Start: 88 @40137 has 7 MA's), (90, 40122), (124, 39960), (129, 39933), (132, 39927), (151, 39837), (155, 39822), (168, 39768), (169, 39765), (191, 39669), (209, 39591), (229, 39444), (238, 39405), (245, 39360), (249, 39339), (256, 39324), (279, 39282), (284, 39270), (297, 39204), (301, 39192), (314, 39129), (329, 39000), (330, 38991), (335, 38955), (349, 38871), (351, 38853), (368, 38796), (369, 38793), (371, 38781), (403, 38643), (404, 38637), (405, 38622), (407, 38616), (414, 38583), (431, 38505), (435, 38472), (469, 38331), (483, 38274), (487, 38250), (489, 38244), (500, 38175), (511, 38112), (531, 38046), (536, 38025), (541, 38007), (551, 37950), (552, 37941), (575, 37833), (577, 37824), (581, 37812), (583, 37791), (593, 37761), (598, 37734), (625, 37668), (627, 37659), (630, 37647), (655, 37560), (662, 37536), (677, 37488), (712, 37344), (729, 37269), (767, 37095), (775, 37059), (784, 37011), (794, 36978),

Gene: Ablatia_208 Start: 113334, Stop: 116729, Start Num: 68
Candidate Starts for Ablatia_208:
(Start: 26 @113241 has 50 MA's), (Start: 28 @113247 has 6 MA's), (Start: 33 @113259 has 8 MA's), (38, 113268), (Start: 68 @113334 has 125 MA's), (83, 113409), (101, 113523), (109, 113547), (125, 113607), (145, 113718), (153, 113757), (159, 113781), (169, 113823), (196, 113922), (206, 113964), (210, 113982), (218, 114045), (227, 114105), (228, 114108), (233, 114135), (240, 114177), (256, 114240), (293, 114360), (302, 114396), (306, 114414), (309, 114429), (321, 114546), (327, 114585), (342, 114705), (348, 114747), (358, 114792), (360, 114801), (370, 114852), (381, 114894), (397, 114960), (399, 114969), (400, 114972), (401, 114978), (402, 114981), (403, 114990), (404, 114996), (405, 115011), (426, 115098), (445, 115203), (453, 115257), (467, 115344), (473, 115374), (480, 115404), (486, 115437), (488, 115446), (499, 115518), (505, 115548), (533, 115665), (541, 115710), (549, 115752), (579, 115896), (595, 115956), (632, 116058), (659, 116145), (660, 116148), (666, 116166), (676, 116202), (677, 116205), (698, 116265), (703, 116283), (724, 116379), (732, 116409), (736, 116427), (744, 116457), (765, 116550), (769, 116565), (785, 116646), (787, 116652), (789, 116664),

Gene: Ading_210 Start: 113961, Stop: 117356, Start Num: 68
Candidate Starts for Ading_210:

(Start: 26 @113868 has 50 MA's), (Start: 28 @113874 has 6 MA's), (Start: 33 @113886 has 8 MA's), (38, 113895), (Start: 68 @113961 has 125 MA's), (83, 114036), (101, 114150), (109, 114174), (125, 114234), (145, 114345), (153, 114384), (159, 114408), (169, 114450), (196, 114549), (206, 114591), (207, 114597), (210, 114609), (218, 114672), (227, 114732), (228, 114735), (233, 114762), (240, 114804), (256, 114867), (293, 114987), (302, 115023), (306, 115041), (309, 115056), (321, 115173), (327, 115212), (342, 115332), (348, 115374), (358, 115419), (360, 115428), (370, 115479), (381, 115521), (397, 115587), (399, 115596), (400, 115599), (401, 115605), (402, 115608), (403, 115617), (404, 115623), (405, 115638), (426, 115725), (445, 115830), (453, 115884), (467, 115971), (473, 116001), (480, 116031), (486, 116064), (488, 116073), (499, 116145), (505, 116175), (533, 116292), (541, 116337), (549, 116379), (579, 116523), (595, 116583), (632, 116685), (659, 116772), (660, 116775), (666, 116793), (676, 116829), (677, 116832), (698, 116892), (703, 116910), (724, 117006), (732, 117036), (736, 117054), (744, 117084), (765, 117177), (769, 117192), (785, 117273), (787, 117279), (789, 117291),

Gene: Adjutor_65 Start: 49699, Stop: 53001, Start Num: 25
Candidate Starts for Adjutor_65:
(Start: 25 @49699 has 21 MA's), (Start: 61 @49786 has 1 MA's), (Start: 65 @49792 has 3 MA's), (Start: 72 @49801 has 108 MA's), (Start: 88 @49897 has 7 MA's), (128, 50053), (143, 50140), (144, 50143), (156, 50194), (214, 50458), (221, 50497), (232, 50569), (234, 50578), (247, 50653), (266, 50719), (269, 50725), (283, 50779), (289, 50797), (297, 50848), (298, 50851), (305, 50881), (319, 50965), (320, 50974), (324, 51001), (326, 51016), (350, 51193), (351, 51202), (376, 51307), (403, 51388), (413, 51448), (429, 51523), (433, 51556), (434, 51562), (440, 51583), (442, 51592), (452, 51637), (471, 51706), (476, 51721), (490, 51790), (501, 51853), (509, 51886), (510, 51889), (521, 51940), (540, 52015), (566, 52138), (571, 52156), (587, 52234), (589, 52237), (591, 52249), (601, 52294), (610, 52315), (613, 52327), (622, 52357), (627, 52378), (687, 52450), (704, 52507), (723, 52606), (739, 52672), (761, 52762), (768, 52795), (774, 52825), (782, 52870), (796, 52912), (806, 52942), (809, 52954), (812, 52969), (814, 52978),

Gene: Adlitam_208 Start: 112490, Stop: 115960, Start Num: 33
Candidate Starts for Adlitam_208:
(Start: 26 @112472 has 50 MA's), (Start: 28 @112478 has 6 MA's), (Start: 33 @112490 has 8 MA's), (38, 112499), (Start: 68 @112565 has 125 MA's), (83, 112640), (101, 112754), (109, 112778), (125, 112838), (145, 112949), (153, 112988), (159, 113012), (169, 113054), (196, 113153), (206, 113195), (207, 113201), (210, 113213), (218, 113276), (227, 113336), (228, 113339), (233, 113366), (240, 113408), (256, 113471), (293, 113591), (302, 113627), (306, 113645), (309, 113660), (321, 113777), (327, 113816), (342, 113936), (348, 113978), (358, 114023), (360, 114032), (370, 114083), (381, 114125), (397, 114191), (399, 114200), (400, 114203), (401, 114209), (402, 114212), (403, 114221), (404, 114227), (405, 114242), (426, 114329), (445, 114434), (453, 114488), (467, 114575), (473, 114605), (480, 114635), (486, 114668), (488, 114677), (499, 114749), (505, 114779), (533, 114896), (541, 114941), (549, 114983), (579, 115127), (595, 115187), (632, 115289), (659, 115376), (660, 115379), (666, 115397), (676, 115433), (677, 115436), (698, 115496), (703, 115514), (724, 115610), (732, 115640), (736, 115658), (744, 115688), (765, 115781), (769, 115796), (785, 115877), (787, 115883), (789, 115895),

Gene: Alephilan_80 Start: 52529, Stop: 55810, Start Num: 81
Candidate Starts for Alephilan_80:
(Start: 81 @52529 has 2 MA's), (Start: 88 @52565 has 7 MA's), (92, 52610), (101, 52652), (162, 52913), (190, 53015), (198, 53048), (214, 53144), (263, 53414), (264, 53423), (289, 53531), (296, 53576), (306, 53618), (326, 53750), (327, 53753), (328, 53783), (342, 53873), (350, 53927), (372, 54026), (376, 54041), (393, 54083), (429, 54257), (433, 54290), (437, 54308), (442, 54326), (452, 54371), (453, 54374), (479, 54470), (487, 54512), (490, 54524), (495, 54560), (538, 54740), (548, 54782), (553, 54818), (566, 54872), (571, 54890), (589, 54986), (591, 54998), (673, 55187), (704, 55277), (724, 55382), (728, 55397), (732, 55412), (736, 55433), (739, 55445), (740, 55451), (741,

55454), (748, 55481), (759, 55526), (779, 55634), (795, 55679), (801, 55703), (812, 55739),

Gene: Alice_196 Start: 112446, Stop: 115928, Start Num: 28
Candidate Starts for Alice_196:
(Start: 26 @112440 has 50 MA's), (Start: 28 @112446 has 6 MA's), (Start: 33 @112458 has 8 MA's), (38, 112467), (Start: 68 @112533 has 125 MA's), (83, 112608), (101, 112722), (109, 112746), (125, 112806), (145, 112917), (153, 112956), (159, 112980), (169, 113022), (196, 113121), (206, 113163), (207, 113169), (210, 113181), (218, 113244), (227, 113304), (228, 113307), (233, 113334), (240, 113376), (256, 113439), (293, 113559), (302, 113595), (306, 113613), (309, 113628), (321, 113745), (327, 113784), (342, 113904), (348, 113946), (358, 113991), (360, 114000), (370, 114051), (381, 114093), (397, 114159), (399, 114168), (400, 114171), (401, 114177), (402, 114180), (403, 114189), (404, 114195), (405, 114210), (426, 114297), (445, 114402), (453, 114456), (467, 114543), (473, 114573), (480, 114603), (486, 114636), (488, 114645), (499, 114717), (505, 114747), (533, 114864), (541, 114909), (549, 114951), (579, 115095), (595, 115155), (632, 115257), (659, 115344), (660, 115347), (666, 115365), (676, 115401), (677, 115404), (698, 115464), (703, 115482), (724, 115578), (732, 115608), (736, 115626), (744, 115656), (765, 115749), (769, 115764), (785, 115845), (787, 115851), (789, 115863),

Gene: Aloki_97 Start: 70036, Stop: 72849, Start Num: 59
Candidate Starts for Aloki_97:
(Start: 52 @70021 has 1 MA's), (Start: 56 @70033 has 1 MA's), (Start: 59 @70036 has 9 MA's), (83, 70129), (91, 70189), (126, 70339), (127, 70342), (128, 70348), (146, 70447), (152, 70477), (153, 70480), (169, 70543), (174, 70564), (175, 70567), (185, 70594), (207, 70711), (209, 70720), (217, 70777), (219, 70786), (229, 70852), (242, 70918), (297, 71083), (302, 71101), (305, 71116), (307, 71122), (309, 71134), (316, 71161), (317, 71164), (323, 71224), (324, 71233), (325, 71236), (327, 71248), (330, 71293), (341, 71362), (345, 71386), (375, 71542), (379, 71560), (386, 71584), (389, 71602), (407, 71698), (415, 71740), (417, 71746), (426, 71782), (427, 71791), (430, 71809), (431, 71815), (433, 71839), (434, 71845), (435, 71848), (441, 71866), (442, 71869), (465, 71962), (475, 72007), (477, 72013), (481, 72037), (482, 72040), (484, 72049), (485, 72055), (487, 72067), (509, 72184), (511, 72202), (512, 72205), (515, 72214), (542, 72328), (546, 72343), (575, 72490), (578, 72502), (580, 72508), (590, 72541), (596, 72574), (599, 72592), (604, 72604), (606, 72613), (642, 72727), (651, 72739), (656, 72754), (680, 72829), (683, 72838),

Gene: Alyssamiracle_81 Start: 50715, Stop: 54056, Start Num: 72
Candidate Starts for Alyssamiracle_81:
(Start: 72 @50715 has 108 MA's), (Start: 81 @50775 has 2 MA's), (Start: 88 @50811 has 7 MA's), (92, 50856), (101, 50898), (162, 51159), (198, 51294), (214, 51390), (263, 51660), (264, 51669), (289, 51777), (296, 51822), (306, 51864), (318, 51942), (326, 51996), (327, 51999), (328, 52029), (342, 52119), (350, 52173), (372, 52272), (376, 52287), (393, 52329), (429, 52503), (433, 52536), (437, 52554), (442, 52572), (452, 52617), (453, 52620), (479, 52716), (487, 52758), (490, 52770), (495, 52806), (538, 52986), (548, 53028), (553, 53064), (565, 53106), (566, 53118), (571, 53136), (589, 53232), (591, 53244), (675, 53439), (704, 53523), (724, 53628), (728, 53643), (732, 53658), (736, 53679), (739, 53691), (740, 53697), (741, 53700), (748, 53727), (759, 53772), (779, 53880), (795, 53925), (801, 53949), (812, 53985),

Gene: AmandaPanda_85 Start: 55971, Stop: 59333, Start Num: 57
Candidate Starts for AmandaPanda_85:
(Start: 57 @55971 has 3 MA's), (Start: 72 @55998 has 108 MA's), (80, 56055), (Start: 88 @56094 has 7 MA's), (128, 56262), (135, 56298), (138, 56313), (150, 56379), (159, 56418), (160, 56421), (171, 56472), (186, 56505), (190, 56538), (199, 56574), (207, 56613), (215, 56676), (216, 56679), (228, 56760), (234, 56790), (261, 56913), (289, 56985), (293, 57018), (318, 57150), (326, 57210), (327, 57213), (342, 57333), (343, 57342), (364, 57447), (391, 57555), (392, 57561), (423, 57717), (428, 57750), (429, 57756), (431, 57765), (433, 57789), (436, 57804), (437, 57807), (442, 57825), (443,

57831), (450, 57882), (456, 57921), (457, 57951), (466, 57987), (471, 58017), (480, 58053), (503, 58179), (512, 58221), (517, 58239), (523, 58263), (532, 58296), (571, 58470), (611, 58650), (612, 58656), (619, 58677), (639, 58737), (689, 58794), (710, 58887), (740, 59031), (757, 59100), (763, 59130), (796, 59259), (813, 59319),

Gene: Amataga_210 Start: 112377, Stop: 115772, Start Num: 68
Candidate Starts for Amataga_210:
(Start: 26 @112284 has 50 MA's), (Start: 28 @112290 has 6 MA's), (Start: 33 @112302 has 8 MA's), (38, 112311), (Start: 68 @112377 has 125 MA's), (83, 112452), (101, 112566), (109, 112590), (125, 112650), (145, 112761), (153, 112800), (159, 112824), (169, 112866), (196, 112965), (206, 113007), (207, 113013), (210, 113025), (218, 113088), (227, 113148), (228, 113151), (233, 113178), (240, 113220), (256, 113283), (293, 113403), (302, 113439), (306, 113457), (309, 113472), (321, 113589), (327, 113628), (342, 113748), (348, 113790), (358, 113835), (360, 113844), (370, 113895), (381, 113937), (397, 114003), (399, 114012), (400, 114015), (401, 114021), (402, 114024), (403, 114033), (404, 114039), (405, 114054), (426, 114141), (445, 114246), (453, 114300), (467, 114387), (473, 114417), (480, 114447), (486, 114480), (488, 114489), (499, 114561), (505, 114591), (533, 114708), (541, 114753), (549, 114795), (579, 114939), (595, 114999), (632, 115101), (659, 115188), (660, 115191), (666, 115209), (676, 115245), (677, 115248), (698, 115308), (703, 115326), (724, 115422), (732, 115452), (736, 115470), (744, 115500), (765, 115593), (769, 115608), (785, 115689), (787, 115695), (789, 115707),

Gene: Amoonguss_95 Start: 69991, Stop: 72804, Start Num: 59
Candidate Starts for Amoonguss_95:
(Start: 52 @69976 has 1 MA's), (Start: 56 @69988 has 1 MA's), (Start: 59 @69991 has 9 MA's), (83, 70084), (91, 70144), (126, 70294), (127, 70297), (128, 70303), (136, 70345), (146, 70402), (152, 70432), (153, 70435), (169, 70498), (174, 70519), (175, 70522), (185, 70549), (207, 70666), (209, 70675), (217, 70732), (219, 70741), (242, 70873), (297, 71038), (302, 71056), (305, 71071), (307, 71077), (309, 71089), (316, 71116), (317, 71119), (323, 71179), (324, 71188), (325, 71191), (327, 71203), (330, 71248), (341, 71317), (345, 71341), (375, 71497), (379, 71515), (386, 71539), (389, 71557), (407, 71653), (415, 71695), (417, 71701), (426, 71737), (427, 71746), (430, 71764), (431, 71770), (433, 71794), (434, 71800), (435, 71803), (441, 71821), (442, 71824), (465, 71917), (475, 71962), (477, 71968), (481, 71992), (482, 71995), (484, 72004), (485, 72010), (487, 72022), (509, 72139), (511, 72157), (512, 72160), (515, 72169), (542, 72283), (546, 72298), (575, 72445), (578, 72457), (580, 72463), (590, 72496), (596, 72529), (599, 72547), (604, 72559), (606, 72568), (642, 72682), (651, 72694), (656, 72709), (680, 72784), (683, 72793),

Gene: Apeppi_73 Start: 51198, Stop: 54536, Start Num: 72
Candidate Starts for Apeppi_73:
(Start: 72 @51198 has 108 MA's), (Start: 81 @51258 has 2 MA's), (84, 51270), (Start: 88 @51294 has 7 MA's), (101, 51381), (198, 51777), (214, 51873), (233, 51996), (263, 52143), (264, 52152), (270, 52185), (278, 52221), (289, 52263), (296, 52308), (306, 52350), (326, 52482), (327, 52485), (328, 52515), (335, 52566), (339, 52587), (342, 52605), (351, 52668), (372, 52758), (376, 52773), (382, 52794), (429, 52989), (433, 53022), (437, 53040), (452, 53103), (453, 53106), (470, 53169), (479, 53202), (487, 53244), (490, 53256), (495, 53292), (521, 53406), (538, 53472), (544, 53499), (548, 53514), (553, 53550), (566, 53604), (571, 53622), (589, 53718), (594, 53742), (615, 53814), (707, 54018), (728, 54129), (732, 54144), (736, 54165), (739, 54177), (740, 54183), (741, 54186), (748, 54213), (759, 54258), (779, 54366), (792, 54405), (795, 54411), (801, 54435), (808, 54450), (809, 54456), (812, 54471),

Gene: Apiary_59 Start: 45761, Stop: 42345, Start Num: 72
Candidate Starts for Apiary_59:
(Start: 72 @45761 has 108 MA's), (85, 45680), (Start: 88 @45665 has 7 MA's), (105, 45557), (107, 45551), (128, 45503), (142, 45422), (150, 45380), (202, 45170), (205, 45155), (207, 45146), (212,

45122), (214, 45092), (221, 45053), (234, 44972), (241, 44930), (272, 44795), (297, 44681), (309, 44630), (311, 44612), (314, 44603), (324, 44525), (326, 44510), (329, 44471), (335, 44432), (350, 44339), (361, 44288), (363, 44282), (371, 44243), (404, 44138), (405, 44123), (406, 44120), (429, 44006), (430, 44003), (433, 43973), (437, 43955), (438, 43952), (439, 43946), (441, 43943), (447, 43910), (452, 43889), (490, 43721), (503, 43643), (511, 43604), (512, 43601), (514, 43595), (519, 43577), (543, 43481), (548, 43463), (553, 43427), (571, 43355), (589, 43262), (591, 43250), (609, 43187), (625, 43130), (656, 43001), (665, 42971), (681, 42911), (682, 42908), (695, 42866), (697, 42854), (714, 42764), (722, 42728), (734, 42683), (737, 42668), (747, 42626), (758, 42581), (771, 42527), (773, 42518), (774, 42506), (776, 42500), (778, 42482), (792, 42431), (793, 42428), (808, 42386),

Gene: ArcherS7_209 Start: 113326, Stop: 116814, Start Num: 26
Candidate Starts for ArcherS7_209:
(Start: 26 @113326 has 50 MA's), (Start: 28 @113332 has 6 MA's), (Start: 33 @113344 has 8 MA's), (38, 113353), (Start: 68 @113419 has 125 MA's), (83, 113494), (101, 113608), (109, 113632), (125, 113692), (145, 113803), (153, 113842), (159, 113866), (169, 113908), (196, 114007), (206, 114049), (207, 114055), (210, 114067), (218, 114130), (227, 114190), (228, 114193), (233, 114220), (240, 114262), (256, 114325), (302, 114481), (306, 114499), (309, 114514), (321, 114631), (327, 114670), (342, 114790), (348, 114832), (358, 114877), (360, 114886), (370, 114937), (381, 114979), (397, 115045), (399, 115054), (400, 115057), (401, 115063), (402, 115066), (403, 115075), (404, 115081), (405, 115096), (426, 115183), (445, 115288), (453, 115342), (467, 115429), (473, 115459), (480, 115489), (486, 115522), (488, 115531), (499, 115603), (505, 115633), (533, 115750), (541, 115795), (549, 115837), (579, 115981), (595, 116041), (632, 116143), (659, 116230), (660, 116233), (666, 116251), (676, 116287), (677, 116290), (698, 116350), (703, 116368), (724, 116464), (732, 116494), (736, 116512), (744, 116542), (765, 116635), (769, 116650), (785, 116731), (787, 116737), (789, 116749),

Gene: Argena_95 Start: 70003, Stop: 72816, Start Num: 59
Candidate Starts for Argena_95:
(Start: 52 @69988 has 1 MA's), (Start: 56 @70000 has 1 MA's), (Start: 59 @70003 has 9 MA's), (83, 70096), (91, 70156), (126, 70306), (127, 70309), (128, 70315), (136, 70357), (146, 70414), (152, 70444), (153, 70447), (169, 70510), (174, 70531), (175, 70534), (185, 70561), (207, 70678), (209, 70687), (217, 70744), (219, 70753), (242, 70885), (297, 71050), (302, 71068), (305, 71083), (307, 71089), (309, 71101), (316, 71128), (317, 71131), (323, 71191), (324, 71200), (325, 71203), (327, 71215), (330, 71260), (341, 71329), (345, 71353), (375, 71509), (379, 71527), (386, 71551), (389, 71569), (407, 71665), (415, 71707), (417, 71713), (426, 71749), (427, 71758), (430, 71776), (431, 71782), (433, 71806), (434, 71812), (435, 71815), (441, 71833), (442, 71836), (465, 71929), (475, 71974), (477, 71980), (481, 72004), (482, 72007), (484, 72016), (485, 72022), (487, 72034), (509, 72151), (511, 72169), (512, 72172), (515, 72181), (542, 72295), (546, 72310), (575, 72457), (578, 72469), (580, 72475), (590, 72508), (596, 72541), (599, 72559), (604, 72571), (606, 72580), (643, 72697), (656, 72721),

Gene: Arti_59 Start: 47894, Stop: 44583, Start Num: 72
Candidate Starts for Arti_59:
(1, 48146), (9, 48059), (12, 48032), (Start: 72 @47894 has 108 MA's), (84, 47822), (Start: 88 @47798 has 7 MA's), (126, 47645), (128, 47636), (190, 47354), (192, 47348), (197, 47324), (215, 47216), (221, 47186), (269, 46979), (306, 46808), (314, 46766), (324, 46688), (326, 46673), (346, 46535), (396, 46337), (406, 46280), (419, 46220), (429, 46169), (442, 46100), (452, 46055), (502, 45815), (512, 45770), (514, 45764), (519, 45746), (543, 45650), (553, 45596), (584, 45452), (589, 45443), (616, 45368), (636, 45293), (647, 45239), (677, 45149), (699, 45068), (706, 45047), (737, 44903), (738, 44900), (778, 44717), (796, 44660), (814, 44594),

Gene: Asten_54 Start: 42455, Stop: 38970, Start Num: 69

Candidate Starts for Asten_54:
(Start: 42 @42524 has 1 MA's), (Start: 69 @42455 has 55 MA's), (Start: 81 @42392 has 2 MA's), (83, 42383), (90, 42341), (105, 42248), (124, 42179), (138, 42110), (151, 42056), (169, 41984), (180, 41948), (191, 41888), (229, 41663), (238, 41624), (242, 41597), (245, 41579), (249, 41558), (256, 41543), (279, 41501), (297, 41423), (301, 41411), (328, 41225), (329, 41219), (335, 41174), (349, 41090), (351, 41072), (368, 41015), (369, 41012), (371, 41000), (403, 40862), (404, 40856), (405, 40841), (407, 40835), (414, 40802), (431, 40724), (435, 40691), (469, 40550), (474, 40532), (487, 40469), (489, 40463), (500, 40394), (511, 40331), (517, 40310), (531, 40265), (551, 40169), (552, 40160), (554, 40154), (575, 40052), (577, 40043), (581, 40031), (583, 40010), (593, 39980), (598, 39953), (625, 39887), (627, 39878), (630, 39866), (655, 39779), (701, 39611), (712, 39563), (738, 39452), (767, 39314), (770, 39305), (775, 39278), (784, 39230), (794, 39197), (803, 39170), (818, 39065), (819, 39053),

Gene: Asterius_211 Start: 112786, Stop: 116181, Start Num: 68
Candidate Starts for Asterius_211:
(Start: 26 @112693 has 50 MA's), (Start: 28 @112699 has 6 MA's), (Start: 33 @112711 has 8 MA's), (38, 112720), (Start: 68 @112786 has 125 MA's), (83, 112861), (101, 112975), (109, 112999), (125, 113059), (145, 113170), (153, 113209), (159, 113233), (169, 113275), (196, 113374), (206, 113416), (207, 113422), (210, 113434), (218, 113497), (227, 113557), (228, 113560), (233, 113587), (240, 113629), (256, 113692), (302, 113848), (306, 113866), (309, 113881), (321, 113998), (327, 114037), (342, 114157), (348, 114199), (358, 114244), (360, 114253), (370, 114304), (381, 114346), (397, 114412), (399, 114421), (400, 114424), (401, 114430), (402, 114433), (403, 114442), (404, 114448), (405, 114463), (426, 114550), (445, 114655), (453, 114709), (467, 114796), (473, 114826), (480, 114856), (486, 114889), (488, 114898), (499, 114970), (505, 115000), (533, 115117), (541, 115162), (549, 115204), (579, 115348), (595, 115408), (632, 115510), (659, 115597), (660, 115600), (666, 115618), (676, 115654), (677, 115657), (698, 115717), (703, 115735), (724, 115831), (732, 115861), (736, 115879), (744, 115909), (765, 116002), (769, 116017), (785, 116098), (787, 116104), (789, 116116),

Gene: Astraea_203 Start: 111888, Stop: 115376, Start Num: 26
Candidate Starts for Astraea_203:
(Start: 26 @111888 has 50 MA's), (Start: 28 @111894 has 6 MA's), (Start: 33 @111906 has 8 MA's), (38, 111915), (Start: 68 @111981 has 125 MA's), (83, 112056), (101, 112170), (109, 112194), (125, 112254), (145, 112365), (153, 112404), (159, 112428), (169, 112470), (196, 112569), (206, 112611), (207, 112617), (210, 112629), (218, 112692), (227, 112752), (228, 112755), (233, 112782), (240, 112824), (256, 112887), (293, 113007), (302, 113043), (306, 113061), (309, 113076), (321, 113193), (327, 113232), (342, 113352), (348, 113394), (358, 113439), (360, 113448), (370, 113499), (381, 113541), (397, 113607), (399, 113616), (400, 113619), (401, 113625), (402, 113628), (403, 113637), (404, 113643), (405, 113658), (426, 113745), (445, 113850), (453, 113904), (467, 113991), (473, 114021), (480, 114051), (486, 114084), (488, 114093), (499, 114165), (505, 114195), (533, 114312), (541, 114357), (549, 114399), (579, 114543), (595, 114603), (632, 114705), (659, 114792), (660, 114795), (666, 114813), (676, 114849), (677, 114852), (698, 114912), (703, 114930), (724, 115026), (732, 115056), (736, 115074), (744, 115104), (765, 115197), (769, 115212), (785, 115293), (787, 115299), (789, 115311),

Gene: Astralis_78 Start: 50294, Stop: 53635, Start Num: 72
Candidate Starts for Astralis_78:
(Start: 72 @50294 has 108 MA's), (Start: 81 @50354 has 2 MA's), (Start: 88 @50390 has 7 MA's), (92, 50435), (101, 50477), (162, 50738), (198, 50873), (214, 50969), (263, 51239), (264, 51248), (289, 51356), (296, 51401), (306, 51443), (318, 51521), (326, 51575), (327, 51578), (328, 51608), (342, 51698), (350, 51752), (372, 51851), (376, 51866), (393, 51908), (429, 52082), (433, 52115), (437, 52133), (442, 52151), (452, 52196), (453, 52199), (479, 52295), (487, 52337), (490, 52349), (495, 52385), (538, 52565), (548, 52607), (553, 52643), (565, 52685), (566, 52697), (571, 52715), (589,

52811), (591, 52823), (675, 53018), (704, 53102), (724, 53207), (728, 53222), (732, 53237), (736, 53258), (739, 53270), (740, 53276), (741, 53279), (748, 53306), (759, 53351), (779, 53459), (795, 53504), (801, 53528), (812, 53564),

Gene: Atlantean_209 Start: 112377, Stop: 115772, Start Num: 68
Candidate Starts for Atlantean_209:
(Start: 26 @112284 has 50 MA's), (Start: 28 @112290 has 6 MA's), (Start: 33 @112302 has 8 MA's), (38, 112311), (Start: 68 @112377 has 125 MA's), (83, 112452), (101, 112566), (109, 112590), (125, 112650), (145, 112761), (153, 112800), (159, 112824), (169, 112866), (196, 112965), (206, 113007), (207, 113013), (210, 113025), (218, 113088), (227, 113148), (228, 113151), (233, 113178), (240, 113220), (256, 113283), (293, 113403), (302, 113439), (306, 113457), (309, 113472), (321, 113589), (327, 113628), (342, 113748), (348, 113790), (358, 113835), (360, 113844), (370, 113895), (381, 113937), (397, 114003), (399, 114012), (400, 114015), (401, 114021), (402, 114024), (403, 114033), (404, 114039), (405, 114054), (426, 114141), (445, 114246), (453, 114300), (467, 114387), (473, 114417), (480, 114447), (486, 114480), (488, 114489), (499, 114561), (505, 114591), (533, 114708), (541, 114753), (549, 114795), (579, 114939), (595, 114999), (632, 115101), (659, 115188), (660, 115191), (666, 115209), (676, 115245), (677, 115248), (698, 115308), (703, 115326), (724, 115422), (732, 115452), (736, 115470), (744, 115500), (765, 115593), (769, 115608), (785, 115689), (787, 115695), (789, 115707),

Gene: Audrick_211 Start: 112267, Stop: 115662, Start Num: 68
Candidate Starts for Audrick_211:
(Start: 26 @112174 has 50 MA's), (Start: 28 @112180 has 6 MA's), (Start: 33 @112192 has 8 MA's), (38, 112201), (Start: 68 @112267 has 125 MA's), (83, 112342), (101, 112456), (109, 112480), (125, 112540), (145, 112651), (153, 112690), (159, 112714), (169, 112756), (196, 112855), (206, 112897), (207, 112903), (210, 112915), (218, 112978), (227, 113038), (228, 113041), (233, 113068), (240, 113110), (256, 113173), (293, 113293), (302, 113329), (306, 113347), (309, 113362), (321, 113479), (327, 113518), (342, 113638), (348, 113680), (358, 113725), (360, 113734), (370, 113785), (381, 113827), (397, 113893), (399, 113902), (400, 113905), (401, 113911), (402, 113914), (403, 113923), (404, 113929), (405, 113944), (426, 114031), (445, 114136), (453, 114190), (467, 114277), (473, 114307), (480, 114337), (486, 114370), (488, 114379), (499, 114451), (505, 114481), (533, 114598), (541, 114643), (549, 114685), (579, 114829), (595, 114889), (632, 114991), (659, 115078), (660, 115081), (666, 115099), (676, 115135), (677, 115138), (698, 115198), (703, 115216), (724, 115312), (732, 115342), (736, 115360), (744, 115390), (765, 115483), (769, 115498), (785, 115579), (787, 115585), (789, 115597),

Gene: Ava3_208 Start: 112811, Stop: 116206, Start Num: 68
Candidate Starts for Ava3_208:
(Start: 26 @112718 has 50 MA's), (Start: 28 @112724 has 6 MA's), (Start: 33 @112736 has 8 MA's), (38, 112745), (Start: 68 @112811 has 125 MA's), (83, 112886), (101, 113000), (109, 113024), (125, 113084), (145, 113195), (153, 113234), (159, 113258), (169, 113300), (196, 113399), (206, 113441), (207, 113447), (210, 113459), (218, 113522), (227, 113582), (228, 113585), (233, 113612), (240, 113654), (256, 113717), (293, 113837), (302, 113873), (306, 113891), (309, 113906), (321, 114023), (327, 114062), (342, 114182), (348, 114224), (358, 114269), (360, 114278), (370, 114329), (381, 114371), (397, 114437), (399, 114446), (400, 114449), (401, 114455), (402, 114458), (403, 114467), (404, 114473), (405, 114488), (426, 114575), (445, 114680), (453, 114734), (467, 114821), (473, 114851), (480, 114881), (486, 114914), (488, 114923), (499, 114995), (505, 115025), (533, 115142), (541, 115187), (549, 115229), (579, 115373), (595, 115433), (632, 115535), (659, 115622), (660, 115625), (666, 115643), (676, 115679), (677, 115682), (698, 115742), (703, 115760), (724, 115856), (732, 115886), (736, 115904), (744, 115934), (765, 116027), (769, 116042), (785, 116123), (787, 116129), (789, 116141),

Gene: Avian_76 Start: 50443, Stop: 53784, Start Num: 72

Candidate Starts for Avian_76:
(Start: 72 @50443 has 108 MA's), (Start: 88 @50539 has 7 MA's), (92, 50584), (101, 50626), (162, 50887), (198, 51022), (214, 51118), (263, 51388), (264, 51397), (289, 51505), (296, 51550), (306, 51592), (318, 51670), (326, 51724), (327, 51727), (328, 51757), (342, 51847), (350, 51901), (372, 52000), (376, 52015), (393, 52057), (429, 52231), (433, 52264), (437, 52282), (442, 52300), (452, 52345), (453, 52348), (479, 52444), (487, 52486), (490, 52498), (495, 52534), (538, 52714), (548, 52756), (553, 52792), (565, 52834), (566, 52846), (571, 52864), (589, 52960), (591, 52972), (675, 53167), (704, 53251), (724, 53356), (728, 53371), (732, 53386), (736, 53407), (739, 53419), (740, 53425), (741, 53428), (748, 53455), (759, 53500), (779, 53608), (795, 53653), (801, 53677), (812, 53713),

Gene: Babyland_212 Start: 113154, Stop: 116549, Start Num: 68
Candidate Starts for Babyland_212:
(Start: 26 @113061 has 50 MA's), (Start: 28 @113067 has 6 MA's), (Start: 33 @113079 has 8 MA's), (38, 113088), (Start: 68 @113154 has 125 MA's), (83, 113229), (101, 113343), (109, 113367), (125, 113427), (145, 113538), (153, 113577), (159, 113601), (169, 113643), (196, 113742), (206, 113784), (207, 113790), (210, 113802), (218, 113865), (227, 113925), (228, 113928), (233, 113955), (240, 113997), (256, 114060), (293, 114180), (302, 114216), (306, 114234), (309, 114249), (321, 114366), (327, 114405), (342, 114525), (348, 114567), (358, 114612), (360, 114621), (370, 114672), (381, 114714), (397, 114780), (399, 114789), (400, 114792), (401, 114798), (402, 114801), (403, 114810), (404, 114816), (405, 114831), (426, 114918), (445, 115023), (453, 115077), (467, 115164), (473, 115194), (480, 115224), (486, 115257), (488, 115266), (499, 115338), (505, 115368), (533, 115485), (541, 115530), (549, 115572), (579, 115716), (595, 115776), (632, 115878), (659, 115965), (660, 115968), (666, 115986), (676, 116022), (677, 116025), (698, 116085), (703, 116103), (724, 116199), (732, 116229), (736, 116247), (744, 116277), (765, 116370), (769, 116385), (785, 116466), (787, 116472), (789, 116484),

Gene: BackyardAgain_204 Start: 110970, Stop: 114458, Start Num: 26
Candidate Starts for BackyardAgain_204:
(Start: 26 @110970 has 50 MA's), (Start: 28 @110976 has 6 MA's), (Start: 33 @110988 has 8 MA's), (38, 110997), (Start: 68 @111063 has 125 MA's), (83, 111138), (101, 111252), (109, 111276), (125, 111336), (145, 111447), (153, 111486), (159, 111510), (169, 111552), (196, 111651), (206, 111693), (207, 111699), (210, 111711), (218, 111774), (227, 111834), (228, 111837), (233, 111864), (240, 111906), (256, 111969), (293, 112089), (302, 112125), (306, 112143), (309, 112158), (321, 112275), (327, 112314), (342, 112434), (348, 112476), (358, 112521), (360, 112530), (370, 112581), (381, 112623), (397, 112689), (399, 112698), (400, 112701), (401, 112707), (402, 112710), (403, 112719), (404, 112725), (405, 112740), (426, 112827), (445, 112932), (453, 112986), (467, 113073), (473, 113103), (480, 113133), (486, 113166), (488, 113175), (499, 113247), (505, 113277), (533, 113394), (541, 113439), (549, 113481), (579, 113625), (595, 113685), (632, 113787), (659, 113874), (660, 113877), (666, 113895), (676, 113931), (677, 113934), (698, 113994), (703, 114012), (724, 114108), (732, 114138), (736, 114156), (744, 114186), (765, 114279), (769, 114294), (785, 114375), (787, 114381), (789, 114393),

Gene: BadAgartude_203 Start: 112479, Stop: 115874, Start Num: 68
Candidate Starts for BadAgartude_203:
(11, 112311), (Start: 26 @112386 has 50 MA's), (Start: 28 @112392 has 6 MA's), (Start: 33 @112404 has 8 MA's), (38, 112413), (Start: 68 @112479 has 125 MA's), (83, 112554), (101, 112668), (109, 112692), (125, 112752), (145, 112863), (153, 112902), (159, 112926), (169, 112968), (196, 113067), (206, 113109), (207, 113115), (210, 113127), (218, 113190), (227, 113250), (228, 113253), (233, 113280), (240, 113322), (256, 113385), (302, 113541), (306, 113559), (309, 113574), (321, 113691), (327, 113730), (342, 113850), (348, 113892), (358, 113937), (360, 113946), (370, 113997), (381, 114039), (397, 114105), (399, 114114), (400, 114117), (401, 114123), (402, 114126), (403, 114135), (404, 114141), (405, 114156), (426, 114243), (445, 114348), (453, 114402), (467, 114489), (473,

114519), (480, 114549), (486, 114582), (488, 114591), (499, 114663), (505, 114693), (533, 114810), (541, 114855), (549, 114897), (579, 115041), (595, 115101), (632, 115203), (659, 115290), (660, 115293), (666, 115311), (676, 115347), (677, 115350), (698, 115410), (703, 115428), (724, 115524), (732, 115554), (736, 115572), (744, 115602), (765, 115695), (769, 115710), (785, 115791), (787, 115797), (789, 115809),

Gene: BananaFence_206 Start: 112610, Stop: 116005, Start Num: 68
Candidate Starts for BananaFence_206:
(Start: 26 @112517 has 50 MA's), (Start: 28 @112523 has 6 MA's), (Start: 33 @112535 has 8 MA's), (38, 112544), (Start: 68 @112610 has 125 MA's), (83, 112685), (101, 112799), (109, 112823), (125, 112883), (145, 112994), (153, 113033), (159, 113057), (169, 113099), (196, 113198), (206, 113240), (207, 113246), (210, 113258), (218, 113321), (227, 113381), (228, 113384), (233, 113411), (240, 113453), (256, 113516), (302, 113672), (306, 113690), (309, 113705), (321, 113822), (327, 113861), (342, 113981), (348, 114023), (358, 114068), (360, 114077), (370, 114128), (381, 114170), (397, 114236), (399, 114245), (400, 114248), (401, 114254), (402, 114257), (403, 114266), (404, 114272), (405, 114287), (426, 114374), (445, 114479), (453, 114533), (467, 114620), (473, 114650), (480, 114680), (486, 114713), (488, 114722), (499, 114794), (505, 114824), (533, 114941), (541, 114986), (549, 115028), (579, 115172), (595, 115232), (632, 115334), (659, 115421), (660, 115424), (666, 115442), (676, 115478), (677, 115481), (698, 115541), (703, 115559), (724, 115655), (732, 115685), (736, 115703), (744, 115733), (765, 115826), (769, 115841), (785, 115922), (787, 115928), (789, 115940),

Gene: Bangla1971_209 Start: 112290, Stop: 115778, Start Num: 26
Candidate Starts for Bangla1971_209:
(Start: 26 @112290 has 50 MA's), (Start: 28 @112296 has 6 MA's), (Start: 33 @112308 has 8 MA's), (38, 112317), (Start: 68 @112383 has 125 MA's), (83, 112458), (101, 112572), (109, 112596), (125, 112656), (145, 112767), (153, 112806), (159, 112830), (169, 112872), (196, 112971), (206, 113013), (207, 113019), (210, 113031), (218, 113094), (227, 113154), (228, 113157), (233, 113184), (240, 113226), (256, 113289), (302, 113445), (306, 113463), (309, 113478), (321, 113595), (327, 113634), (342, 113754), (348, 113796), (358, 113841), (360, 113850), (370, 113901), (381, 113943), (397, 114009), (399, 114018), (400, 114021), (401, 114027), (402, 114030), (403, 114039), (404, 114045), (405, 114060), (426, 114147), (445, 114252), (453, 114306), (467, 114393), (473, 114423), (480, 114453), (486, 114486), (488, 114495), (499, 114567), (505, 114597), (533, 114714), (541, 114759), (549, 114801), (579, 114945), (595, 115005), (632, 115107), (659, 115194), (660, 115197), (666, 115215), (676, 115251), (677, 115254), (698, 115314), (703, 115332), (724, 115428), (732, 115458), (736, 115476), (744, 115506), (765, 115599), (769, 115614), (785, 115695), (787, 115701), (789, 115713),

Gene: Barnyard_80 Start: 54919, Stop: 58254, Start Num: 72
Candidate Starts for Barnyard_80:
(Start: 57 @54892 has 3 MA's), (Start: 72 @54919 has 108 MA's), (79, 54970), (80, 54976), (Start: 88 @55015 has 7 MA's), (91, 55048), (108, 55132), (128, 55183), (144, 55273), (171, 55393), (189, 55453), (234, 55711), (289, 55906), (309, 56008), (318, 56071), (321, 56086), (326, 56131), (327, 56134), (364, 56368), (391, 56476), (392, 56482), (423, 56638), (429, 56677), (431, 56686), (433, 56710), (436, 56725), (437, 56728), (442, 56746), (443, 56752), (450, 56803), (466, 56908), (471, 56938), (475, 56950), (478, 56959), (480, 56974), (493, 57043), (503, 57100), (512, 57142), (517, 57160), (571, 57391), (573, 57403), (621, 57604), (639, 57658), (689, 57715), (691, 57718), (710, 57808), (726, 57892), (740, 57952), (757, 58021), (778, 58120), (796, 58180), (813, 58240),

Gene: BarryBee_57 Start: 42477, Stop: 38992, Start Num: 69
Candidate Starts for BarryBee_57:
(Start: 42 @42546 has 1 MA's), (Start: 69 @42477 has 55 MA's), (Start: 81 @42414 has 2 MA's), (83, 42405), (90, 42363), (105, 42270), (124, 42201), (138, 42132), (151, 42078), (169, 42006), (180,

41970), (191, 41910), (229, 41685), (238, 41646), (242, 41619), (245, 41601), (249, 41580), (256, 41565), (279, 41523), (297, 41445), (301, 41433), (328, 41247), (329, 41241), (335, 41196), (349, 41112), (351, 41094), (368, 41037), (369, 41034), (371, 41022), (403, 40884), (404, 40878), (405, 40863), (407, 40857), (414, 40824), (431, 40746), (435, 40713), (465, 40596), (469, 40572), (487, 40491), (489, 40485), (500, 40416), (511, 40353), (517, 40332), (531, 40287), (551, 40191), (552, 40182), (554, 40176), (575, 40074), (577, 40065), (581, 40053), (583, 40032), (593, 40002), (598, 39975), (625, 39909), (627, 39900), (630, 39888), (655, 39801), (701, 39633), (712, 39585), (738, 39474), (767, 39336), (770, 39327), (775, 39300), (784, 39252), (794, 39219), (818, 39087), (819, 39075),

Gene: Basquiat_206 Start: 111889, Stop: 115284, Start Num: 68
Candidate Starts for Basquiat_206:
(Start: 26 @111796 has 50 MA's), (Start: 28 @111802 has 6 MA's), (Start: 33 @111814 has 8 MA's), (38, 111823), (Start: 68 @111889 has 125 MA's), (83, 111964), (101, 112078), (109, 112102), (125, 112162), (145, 112273), (153, 112312), (159, 112336), (169, 112378), (196, 112477), (206, 112519), (207, 112525), (210, 112537), (218, 112600), (227, 112660), (228, 112663), (233, 112690), (240, 112732), (256, 112795), (293, 112915), (302, 112951), (306, 112969), (309, 112984), (321, 113101), (327, 113140), (342, 113260), (348, 113302), (358, 113347), (360, 113356), (370, 113407), (381, 113449), (397, 113515), (399, 113524), (400, 113527), (401, 113533), (402, 113536), (403, 113545), (404, 113551), (405, 113566), (426, 113653), (445, 113758), (453, 113812), (467, 113899), (473, 113929), (480, 113959), (486, 113992), (488, 114001), (499, 114073), (505, 114103), (533, 114220), (541, 114265), (549, 114307), (579, 114451), (595, 114511), (632, 114613), (659, 114700), (660, 114703), (666, 114721), (676, 114757), (677, 114760), (698, 114820), (703, 114838), (724, 114934), (732, 114964), (736, 114982), (744, 115012), (765, 115105), (769, 115120), (785, 115201), (787, 115207), (789, 115219),

Gene: BeanWater_201 Start: 112340, Stop: 115810, Start Num: 33
Candidate Starts for BeanWater_201:
(Start: 18 @112292 has 6 MA's), (Start: 26 @112322 has 50 MA's), (Start: 28 @112328 has 6 MA's), (Start: 33 @112340 has 8 MA's), (38, 112349), (Start: 68 @112415 has 125 MA's), (83, 112490), (101, 112604), (109, 112628), (125, 112688), (145, 112799), (153, 112838), (159, 112862), (169, 112904), (196, 113003), (206, 113045), (207, 113051), (210, 113063), (218, 113126), (227, 113186), (228, 113189), (233, 113216), (240, 113258), (256, 113321), (293, 113441), (302, 113477), (306, 113495), (309, 113510), (321, 113627), (327, 113666), (342, 113786), (348, 113828), (358, 113873), (360, 113882), (370, 113933), (381, 113975), (397, 114041), (399, 114050), (400, 114053), (401, 114059), (402, 114062), (403, 114071), (404, 114077), (405, 114092), (426, 114179), (445, 114284), (453, 114338), (467, 114425), (473, 114455), (480, 114485), (486, 114518), (488, 114527), (499, 114599), (505, 114629), (533, 114746), (541, 114791), (549, 114833), (579, 114977), (595, 115037), (632, 115139), (659, 115226), (660, 115229), (666, 115247), (676, 115283), (677, 115286), (698, 115346), (703, 115364), (724, 115460), (732, 115490), (736, 115508), (744, 115538), (765, 115631), (769, 115646), (785, 115727), (787, 115733), (789, 115745),

Gene: BeardedLady_53 Start: 40610, Stop: 37131, Start Num: 69
Candidate Starts for BeardedLady_53:
(7, 40820), (Start: 69 @40610 has 55 MA's), (83, 40538), (Start: 88 @40511 has 7 MA's), (90, 40496), (124, 40334), (129, 40307), (132, 40301), (151, 40211), (155, 40196), (168, 40142), (169, 40139), (191, 40043), (209, 39965), (217, 39905), (229, 39818), (238, 39779), (245, 39734), (249, 39713), (256, 39698), (279, 39656), (284, 39644), (297, 39578), (301, 39566), (314, 39503), (329, 39374), (330, 39365), (335, 39329), (349, 39245), (351, 39227), (368, 39170), (369, 39167), (371, 39155), (403, 39017), (404, 39011), (405, 38996), (407, 38990), (414, 38957), (431, 38879), (435, 38846), (469, 38705), (483, 38648), (487, 38624), (489, 38618), (500, 38549), (511, 38486), (531, 38420), (541, 38381), (551, 38324), (552, 38315), (575, 38207), (577, 38198), (581, 38186), (583, 38165), (593, 38135), (598, 38108), (625, 38042), (627, 38033), (630, 38021), (655, 37934), (662, 37910),

(677, 37862), (712, 37718), (729, 37643), (767, 37469), (770, 37460), (775, 37433), (784, 37385), (794, 37352),

Gene: Beckerton_76 Start: 56006, Stop: 59302, Start Num: 72
Candidate Starts for Beckerton_76:
(Start: 55 @55979 has 2 MA's), (Start: 72 @56006 has 108 MA's), (84, 56078), (Start: 88 @56102 has 7 MA's), (89, 56111), (91, 56135), (128, 56270), (145, 56363), (148, 56381), (173, 56489), (214, 56681), (259, 56915), (275, 56972), (289, 57026), (295, 57071), (303, 57098), (309, 57128), (326, 57251), (329, 57290), (334, 57332), (347, 57410), (350, 57428), (353, 57446), (357, 57458), (373, 57533), (406, 57689), (423, 57773), (434, 57851), (440, 57872), (442, 57881), (443, 57887), (446, 57896), (461, 57968), (464, 57983), (471, 58022), (475, 58034), (493, 58127), (494, 58133), (503, 58181), (512, 58223), (550, 58373), (551, 58385), (571, 58469), (597, 58610), (639, 58715), (700, 58814), (703, 58823), (718, 58901), (727, 58940), (730, 58955), (741, 59003), (763, 59099), (768, 59117), (774, 59144), (783, 59192), (793, 59222), (795, 59225), (799, 59240), (809, 59270), (811, 59279), (812, 59285), (813, 59288),

Gene: Belieber_202 Start: 111203, Stop: 114598, Start Num: 68
Candidate Starts for Belieber_202:
(Start: 26 @111110 has 50 MA's), (Start: 28 @111116 has 6 MA's), (Start: 33 @111128 has 8 MA's), (38, 111137), (Start: 68 @111203 has 125 MA's), (83, 111278), (101, 111392), (109, 111416), (125, 111476), (145, 111587), (153, 111626), (159, 111650), (169, 111692), (196, 111791), (206, 111833), (207, 111839), (210, 111851), (218, 111914), (227, 111974), (228, 111977), (233, 112004), (240, 112046), (256, 112109), (293, 112229), (302, 112265), (306, 112283), (309, 112298), (321, 112415), (327, 112454), (342, 112574), (348, 112616), (358, 112661), (360, 112670), (370, 112721), (381, 112763), (397, 112829), (399, 112838), (400, 112841), (401, 112847), (402, 112850), (403, 112859), (404, 112865), (405, 112880), (426, 112967), (445, 113072), (453, 113126), (467, 113213), (473, 113243), (480, 113273), (486, 113306), (488, 113315), (499, 113387), (505, 113417), (533, 113534), (541, 113579), (549, 113621), (579, 113765), (595, 113825), (632, 113927), (659, 114014), (660, 114017), (666, 114035), (676, 114071), (677, 114074), (698, 114134), (703, 114152), (724, 114248), (732, 114278), (736, 114296), (744, 114326), (765, 114419), (769, 114434), (785, 114515), (787, 114521), (789, 114533),

Gene: Beted_97 Start: 71922, Stop: 74735, Start Num: 59
Candidate Starts for Beted_97:
(Start: 52 @71907 has 1 MA's), (Start: 56 @71919 has 1 MA's), (Start: 59 @71922 has 9 MA's), (83, 72015), (91, 72075), (126, 72225), (127, 72228), (128, 72234), (136, 72276), (146, 72333), (152, 72363), (153, 72366), (154, 72369), (169, 72429), (174, 72450), (175, 72453), (185, 72480), (201, 72570), (207, 72597), (209, 72606), (217, 72663), (219, 72672), (242, 72804), (297, 72969), (302, 72987), (305, 73002), (307, 73008), (309, 73020), (316, 73047), (317, 73050), (323, 73110), (324, 73119), (325, 73122), (327, 73134), (330, 73179), (341, 73248), (345, 73272), (375, 73428), (386, 73470), (389, 73488), (407, 73584), (415, 73626), (426, 73668), (427, 73677), (430, 73695), (431, 73701), (433, 73725), (434, 73731), (435, 73734), (441, 73752), (442, 73755), (465, 73848), (475, 73893), (477, 73899), (481, 73923), (482, 73926), (484, 73935), (485, 73941), (487, 73953), (509, 74070), (511, 74088), (512, 74091), (515, 74100), (542, 74214), (546, 74229), (575, 74376), (578, 74388), (580, 74394), (596, 74460), (599, 74478), (604, 74490), (606, 74499), (642, 74613), (651, 74625), (656, 74640), (680, 74715), (683, 74724),

Gene: Bezza_202 Start: 112804, Stop: 116322, Start Num: 18
Candidate Starts for Bezza_202:
(Start: 18 @112804 has 6 MA's), (Start: 26 @112834 has 50 MA's), (Start: 28 @112840 has 6 MA's), (Start: 33 @112852 has 8 MA's), (38, 112861), (Start: 68 @112927 has 125 MA's), (83, 113002), (101, 113116), (109, 113140), (125, 113200), (145, 113311), (153, 113350), (159, 113374), (169, 113416), (196, 113515), (206, 113557), (207, 113563), (210, 113575), (218, 113638), (227, 113698), (228,

113701), (233, 113728), (240, 113770), (256, 113833), (293, 113953), (302, 113989), (306, 114007), (309, 114022), (321, 114139), (327, 114178), (342, 114298), (348, 114340), (358, 114385), (360, 114394), (370, 114445), (381, 114487), (397, 114553), (399, 114562), (400, 114565), (401, 114571), (402, 114574), (403, 114583), (404, 114589), (405, 114604), (426, 114691), (445, 114796), (453, 114850), (467, 114937), (473, 114967), (480, 114997), (486, 115030), (488, 115039), (499, 115111), (505, 115141), (533, 115258), (541, 115303), (549, 115345), (579, 115489), (595, 115549), (632, 115651), (659, 115738), (660, 115741), (666, 115759), (676, 115795), (677, 115798), (698, 115858), (703, 115876), (724, 115972), (732, 116002), (736, 116020), (744, 116050), (765, 116143), (769, 116158), (785, 116239), (787, 116245), (789, 116257),

Gene: BiPauneto_61 Start: 47338, Stop: 44087, Start Num: 72
Candidate Starts for BiPauneto_61:
(15, 47470), (24, 47440), (29, 47428), (Start: 72 @47338 has 108 MA's), (85, 47257), (Start: 88 @47242 has 7 MA's), (92, 47197), (126, 47089), (128, 47080), (192, 46792), (203, 46741), (209, 46714), (215, 46660), (221, 46630), (269, 46423), (292, 46315), (309, 46237), (314, 46210), (324, 46132), (326, 46117), (346, 45979), (396, 45781), (398, 45775), (403, 45748), (429, 45613), (433, 45580), (442, 45544), (452, 45499), (459, 45487), (472, 45424), (502, 45259), (503, 45256), (511, 45217), (512, 45214), (514, 45208), (516, 45199), (519, 45190), (543, 45094), (548, 45076), (553, 45040), (587, 44890), (603, 44836), (647, 44740), (677, 44656), (679, 44647), (697, 44596), (714, 44506), (737, 44410), (738, 44407), (749, 44356), (778, 44224), (814, 44101),

Gene: BigCity_218 Start: 115911, Stop: 119381, Start Num: 33
Candidate Starts for BigCity_218:
(11, 115818), (Start: 26 @115893 has 50 MA's), (Start: 28 @115899 has 6 MA's), (Start: 33 @115911 has 8 MA's), (38, 115920), (Start: 68 @115986 has 125 MA's), (83, 116061), (101, 116175), (109, 116199), (125, 116259), (145, 116370), (153, 116409), (159, 116433), (169, 116475), (196, 116574), (206, 116616), (207, 116622), (210, 116634), (218, 116697), (227, 116757), (228, 116760), (233, 116787), (240, 116829), (256, 116892), (302, 117048), (306, 117066), (309, 117081), (321, 117198), (327, 117237), (342, 117357), (348, 117399), (358, 117444), (360, 117453), (370, 117504), (381, 117546), (397, 117612), (399, 117621), (400, 117624), (401, 117630), (402, 117633), (403, 117642), (404, 117648), (405, 117663), (426, 117750), (445, 117855), (453, 117909), (467, 117996), (473, 118026), (480, 118056), (486, 118089), (488, 118098), (499, 118170), (505, 118200), (533, 118317), (541, 118362), (549, 118404), (579, 118548), (595, 118608), (632, 118710), (659, 118797), (660, 118800), (666, 118818), (676, 118854), (677, 118857), (698, 118917), (703, 118935), (724, 119031), (732, 119061), (736, 119079), (744, 119109), (765, 119202), (769, 119217), (785, 119298), (787, 119304), (789, 119316),

Gene: BigMama_65 Start: 49772, Stop: 53074, Start Num: 25
Candidate Starts for BigMama_65:
(Start: 25 @49772 has 21 MA's), (Start: 61 @49859 has 1 MA's), (Start: 65 @49865 has 3 MA's), (Start: 72 @49874 has 108 MA's), (Start: 88 @49970 has 7 MA's), (128, 50126), (143, 50213), (144, 50216), (156, 50267), (214, 50531), (221, 50570), (232, 50642), (234, 50651), (247, 50726), (266, 50792), (269, 50798), (283, 50852), (289, 50870), (297, 50921), (298, 50924), (305, 50954), (319, 51038), (320, 51047), (324, 51074), (326, 51089), (350, 51266), (351, 51275), (376, 51380), (403, 51461), (413, 51521), (429, 51596), (433, 51629), (434, 51635), (440, 51656), (442, 51665), (452, 51710), (471, 51779), (476, 51794), (490, 51863), (501, 51926), (509, 51959), (510, 51962), (521, 52013), (540, 52088), (566, 52211), (571, 52229), (587, 52307), (589, 52310), (591, 52322), (601, 52367), (610, 52388), (613, 52400), (622, 52430), (627, 52451), (687, 52523), (704, 52580), (723, 52679), (739, 52745), (761, 52835), (767, 52865), (768, 52868), (774, 52898), (782, 52943), (796, 52985), (806, 53015), (809, 53027), (812, 53042), (814, 53051),

Gene: Bigswole_214 Start: 115765, Stop: 119235, Start Num: 33
Candidate Starts for Bigswole_214:

(11, 115672), (Start: 26 @115747 has 50 MA's), (Start: 28 @115753 has 6 MA's), (Start: 33 @115765 has 8 MA's), (38, 115774), (Start: 68 @115840 has 125 MA's), (83, 115915), (101, 116029), (109, 116053), (125, 116113), (145, 116224), (153, 116263), (159, 116287), (169, 116329), (196, 116428), (206, 116470), (207, 116476), (210, 116488), (218, 116551), (227, 116611), (228, 116614), (233, 116641), (240, 116683), (256, 116746), (302, 116902), (306, 116920), (309, 116935), (321, 117052), (327, 117091), (342, 117211), (348, 117253), (358, 117298), (360, 117307), (370, 117358), (381, 117400), (397, 117466), (399, 117475), (400, 117478), (401, 117484), (402, 117487), (403, 117496), (404, 117502), (405, 117517), (426, 117604), (445, 117709), (453, 117763), (467, 117850), (473, 117880), (480, 117910), (486, 117943), (488, 117952), (499, 118024), (505, 118054), (533, 118171), (541, 118216), (549, 118258), (579, 118402), (595, 118462), (632, 118564), (659, 118651), (660, 118654), (666, 118672), (676, 118708), (677, 118711), (698, 118771), (703, 118789), (724, 118885), (732, 118915), (736, 118933), (744, 118963), (765, 119056), (769, 119071), (785, 119152), (787, 119158), (789, 119170),

Gene: Bipolarisk_207 Start: 113080, Stop: 116475, Start Num: 68
Candidate Starts for Bipolarisk_207:
(Start: 26 @112987 has 50 MA's), (Start: 28 @112993 has 6 MA's), (Start: 33 @113005 has 8 MA's), (38, 113014), (Start: 68 @113080 has 125 MA's), (83, 113155), (101, 113269), (109, 113293), (125, 113353), (145, 113464), (153, 113503), (159, 113527), (169, 113569), (196, 113668), (206, 113710), (207, 113716), (210, 113728), (218, 113791), (227, 113851), (228, 113854), (233, 113881), (240, 113923), (256, 113986), (293, 114106), (302, 114142), (306, 114160), (309, 114175), (321, 114292), (327, 114331), (342, 114451), (348, 114493), (358, 114538), (360, 114547), (370, 114598), (381, 114640), (397, 114706), (399, 114715), (400, 114718), (401, 114724), (402, 114727), (403, 114736), (404, 114742), (405, 114757), (426, 114844), (445, 114949), (453, 115003), (467, 115090), (473, 115120), (480, 115150), (486, 115183), (488, 115192), (499, 115264), (505, 115294), (533, 115411), (541, 115456), (549, 115498), (579, 115642), (595, 115702), (632, 115804), (659, 115891), (660, 115894), (666, 115912), (676, 115948), (677, 115951), (698, 116011), (703, 116029), (724, 116125), (732, 116155), (736, 116173), (744, 116203), (765, 116296), (769, 116311), (785, 116392), (787, 116398), (789, 116410),

Gene: BirthdayBoy_81 Start: 52357, Stop: 55698, Start Num: 72
Candidate Starts for BirthdayBoy_81:
(47, 52309), (Start: 72 @52357 has 108 MA's), (Start: 81 @52417 has 2 MA's), (Start: 88 @52453 has 7 MA's), (92, 52498), (101, 52540), (162, 52801), (190, 52903), (198, 52936), (214, 53032), (263, 53302), (264, 53311), (289, 53419), (296, 53464), (306, 53506), (326, 53638), (327, 53641), (328, 53671), (342, 53761), (350, 53815), (372, 53914), (376, 53929), (393, 53971), (429, 54145), (433, 54178), (437, 54196), (442, 54214), (452, 54259), (453, 54262), (479, 54358), (487, 54400), (490, 54412), (495, 54448), (538, 54628), (548, 54670), (553, 54706), (566, 54760), (571, 54778), (589, 54874), (591, 54886), (675, 55081), (704, 55165), (724, 55270), (728, 55285), (736, 55321), (739, 55333), (740, 55339), (741, 55342), (748, 55369), (759, 55414), (779, 55522), (795, 55567), (801, 55591), (812, 55627),

Gene: Blackbrain_206 Start: 112974, Stop: 116369, Start Num: 68
Candidate Starts for Blackbrain_206:
(Start: 26 @112881 has 50 MA's), (Start: 28 @112887 has 6 MA's), (Start: 33 @112899 has 8 MA's), (38, 112908), (Start: 68 @112974 has 125 MA's), (83, 113049), (101, 113163), (109, 113187), (125, 113247), (145, 113358), (153, 113397), (159, 113421), (169, 113463), (196, 113562), (206, 113604), (207, 113610), (210, 113622), (218, 113685), (227, 113745), (228, 113748), (233, 113775), (240, 113817), (256, 113880), (302, 114036), (306, 114054), (309, 114069), (321, 114186), (327, 114225), (342, 114345), (348, 114387), (358, 114432), (360, 114441), (370, 114492), (381, 114534), (397, 114600), (399, 114609), (400, 114612), (401, 114618), (402, 114621), (403, 114630), (404, 114636), (405, 114651), (426, 114738), (445, 114843), (453, 114897), (467, 114984), (473, 115014), (480, 115044), (486, 115077), (488, 115086), (499, 115158), (505, 115188), (533, 115305), (541, 115350),

(549, 115392), (579, 115536), (595, 115596), (632, 115698), (659, 115785), (660, 115788), (666, 115806), (676, 115842), (677, 115845), (698, 115905), (703, 115923), (724, 116019), (732, 116049), (736, 116067), (744, 116097), (765, 116190), (769, 116205), (785, 116286), (787, 116292), (789, 116304),

Gene: Blackdragon_204 Start: 112713, Stop: 116108, Start Num: 68
Candidate Starts for Blackdragon_204:
(Start: 18 @112590 has 6 MA's), (Start: 26 @112620 has 50 MA's), (Start: 28 @112626 has 6 MA's), (Start: 33 @112638 has 8 MA's), (38, 112647), (Start: 68 @112713 has 125 MA's), (83, 112788), (101, 112902), (109, 112926), (125, 112986), (145, 113097), (153, 113136), (159, 113160), (169, 113202), (196, 113301), (206, 113343), (207, 113349), (210, 113361), (218, 113424), (227, 113484), (228, 113487), (233, 113514), (240, 113556), (256, 113619), (293, 113739), (302, 113775), (306, 113793), (309, 113808), (321, 113925), (327, 113964), (342, 114084), (348, 114126), (358, 114171), (360, 114180), (370, 114231), (381, 114273), (397, 114339), (399, 114348), (400, 114351), (401, 114357), (402, 114360), (403, 114369), (404, 114375), (405, 114390), (426, 114477), (445, 114582), (453, 114636), (467, 114723), (473, 114753), (480, 114783), (486, 114816), (488, 114825), (499, 114897), (505, 114927), (533, 115044), (541, 115089), (549, 115131), (579, 115275), (595, 115335), (632, 115437), (659, 115524), (660, 115527), (666, 115545), (676, 115581), (677, 115584), (698, 115644), (703, 115662), (724, 115758), (732, 115788), (736, 115806), (744, 115836), (765, 115929), (769, 115944), (785, 116025), (787, 116031), (789, 116043),

Gene: Blubba_198 Start: 116099, Stop: 119494, Start Num: 68
Candidate Starts for Blubba_198:
(Start: 26 @116006 has 50 MA's), (Start: 28 @116012 has 6 MA's), (Start: 33 @116024 has 8 MA's), (38, 116033), (Start: 68 @116099 has 125 MA's), (83, 116174), (101, 116288), (109, 116312), (125, 116372), (145, 116483), (153, 116522), (159, 116546), (169, 116588), (196, 116687), (206, 116729), (207, 116735), (210, 116747), (218, 116810), (227, 116870), (228, 116873), (233, 116900), (240, 116942), (256, 117005), (302, 117161), (306, 117179), (309, 117194), (321, 117311), (327, 117350), (342, 117470), (348, 117512), (358, 117557), (360, 117566), (370, 117617), (381, 117659), (397, 117725), (399, 117734), (400, 117737), (401, 117743), (402, 117746), (403, 117755), (404, 117761), (405, 117776), (426, 117863), (445, 117968), (453, 118022), (467, 118109), (473, 118139), (480, 118169), (486, 118202), (488, 118211), (499, 118283), (505, 118313), (533, 118430), (541, 118475), (549, 118517), (579, 118661), (595, 118721), (632, 118823), (659, 118910), (660, 118913), (666, 118931), (676, 118967), (677, 118970), (698, 119030), (703, 119048), (724, 119144), (732, 119174), (736, 119192), (744, 119222), (765, 119315), (769, 119330), (787, 119417), (789, 119429), (804, 119468),

Gene: BobaPhatt_201 Start: 111088, Stop: 114483, Start Num: 68
Candidate Starts for BobaPhatt_201:
(Start: 26 @110995 has 50 MA's), (Start: 28 @111001 has 6 MA's), (Start: 33 @111013 has 8 MA's), (38, 111022), (Start: 68 @111088 has 125 MA's), (83, 111163), (101, 111277), (109, 111301), (125, 111361), (145, 111472), (153, 111511), (159, 111535), (169, 111577), (196, 111676), (206, 111718), (207, 111724), (210, 111736), (218, 111799), (227, 111859), (228, 111862), (233, 111889), (240, 111931), (256, 111994), (293, 112114), (302, 112150), (306, 112168), (309, 112183), (321, 112300), (327, 112339), (342, 112459), (348, 112501), (358, 112546), (360, 112555), (370, 112606), (381, 112648), (397, 112714), (399, 112723), (400, 112726), (401, 112732), (402, 112735), (403, 112744), (404, 112750), (405, 112765), (426, 112852), (445, 112957), (453, 113011), (467, 113098), (473, 113128), (480, 113158), (486, 113191), (488, 113200), (499, 113272), (505, 113302), (533, 113419), (541, 113464), (549, 113506), (579, 113650), (595, 113710), (632, 113812), (659, 113899), (660, 113902), (666, 113920), (676, 113956), (677, 113959), (698, 114019), (703, 114037), (724, 114133), (732, 114163), (736, 114181), (744, 114211), (765, 114304), (769, 114319), (785, 114400), (787, 114406), (789, 114418),

Gene: BobtimousPrime_80 Start: 56307, Stop: 59603, Start Num: 72
Candidate Starts for BobtimousPrime_80:
(Start: 55 @56280 has 2 MA's), (Start: 72 @56307 has 108 MA's), (84, 56379), (Start: 88 @56403 has 7 MA's), (89, 56412), (91, 56436), (128, 56571), (145, 56664), (148, 56682), (160, 56730), (173, 56790), (214, 56982), (259, 57216), (275, 57273), (289, 57327), (295, 57372), (303, 57399), (309, 57429), (326, 57552), (329, 57591), (334, 57633), (347, 57711), (350, 57729), (353, 57747), (373, 57834), (406, 57990), (423, 58074), (434, 58152), (440, 58173), (442, 58182), (443, 58188), (446, 58197), (461, 58269), (464, 58284), (471, 58323), (475, 58335), (493, 58428), (494, 58434), (503, 58482), (512, 58524), (550, 58674), (551, 58686), (571, 58770), (597, 58911), (639, 59016), (700, 59115), (703, 59124), (718, 59202), (727, 59241), (730, 59256), (741, 59304), (763, 59400), (768, 59418), (774, 59445), (783, 59493), (793, 59523), (795, 59526), (799, 59541), (809, 59571), (811, 59580), (812, 59586), (813, 59589),

Gene: Bonray_211 Start: 114482, Stop: 117877, Start Num: 68
Candidate Starts for Bonray_211:
(Start: 26 @114389 has 50 MA's), (Start: 28 @114395 has 6 MA's), (Start: 33 @114407 has 8 MA's), (38, 114416), (Start: 68 @114482 has 125 MA's), (83, 114557), (101, 114671), (109, 114695), (125, 114755), (145, 114866), (153, 114905), (159, 114929), (169, 114971), (196, 115070), (206, 115112), (207, 115118), (210, 115130), (218, 115193), (227, 115253), (228, 115256), (233, 115283), (240, 115325), (256, 115388), (293, 115508), (302, 115544), (306, 115562), (309, 115577), (321, 115694), (327, 115733), (342, 115853), (348, 115895), (358, 115940), (360, 115949), (370, 116000), (381, 116042), (397, 116108), (399, 116117), (400, 116120), (401, 116126), (402, 116129), (403, 116138), (404, 116144), (405, 116159), (426, 116246), (445, 116351), (453, 116405), (467, 116492), (473, 116522), (480, 116552), (486, 116585), (488, 116594), (499, 116666), (505, 116696), (533, 116813), (541, 116858), (549, 116900), (579, 117044), (595, 117104), (632, 117206), (659, 117293), (660, 117296), (666, 117314), (676, 117350), (677, 117353), (698, 117413), (703, 117431), (724, 117527), (732, 117557), (736, 117575), (744, 117605), (765, 117698), (769, 117713), (785, 117794), (787, 117800), (789, 117812),

Gene: Bonum_63 Start: 48540, Stop: 45238, Start Num: 72
Candidate Starts for Bonum_63:
(Start: 72 @48540 has 108 MA's), (73, 48531), (Start: 88 @48444 has 7 MA's), (126, 48291), (128, 48282), (150, 48159), (190, 48000), (192, 47994), (197, 47970), (215, 47862), (234, 47751), (269, 47625), (306, 47454), (314, 47412), (324, 47334), (326, 47319), (346, 47181), (371, 47049), (396, 46983), (406, 46926), (419, 46866), (429, 46815), (442, 46746), (452, 46701), (502, 46458), (511, 46416), (512, 46413), (514, 46407), (519, 46389), (543, 46293), (553, 46239), (589, 46086), (607, 46026), (616, 46011), (647, 45882), (677, 45804), (697, 45744), (699, 45723), (700, 45720), (706, 45702), (722, 45618), (737, 45558), (744, 45531), (745, 45528), (760, 45462), (808, 45279), (814, 45249),

Gene: Bovely_53 Start: 40239, Stop: 36760, Start Num: 69
Candidate Starts for Bovely_53:
(7, 40449), (Start: 69 @40239 has 55 MA's), (83, 40167), (Start: 88 @40140 has 7 MA's), (90, 40125), (124, 39963), (129, 39936), (132, 39930), (151, 39840), (155, 39825), (168, 39771), (169, 39768), (191, 39672), (209, 39594), (229, 39447), (238, 39408), (245, 39363), (249, 39342), (256, 39327), (279, 39285), (284, 39273), (297, 39207), (301, 39195), (314, 39132), (329, 39003), (330, 38994), (335, 38958), (349, 38874), (351, 38856), (368, 38799), (369, 38796), (371, 38784), (403, 38646), (404, 38640), (405, 38625), (407, 38619), (414, 38586), (431, 38508), (435, 38475), (469, 38334), (483, 38277), (487, 38253), (489, 38247), (500, 38178), (511, 38115), (531, 38049), (536, 38028), (541, 38010), (551, 37953), (552, 37944), (575, 37836), (577, 37827), (581, 37815), (583, 37794), (593, 37764), (598, 37737), (625, 37671), (627, 37662), (630, 37650), (655, 37563), (662, 37539), (677, 37491), (712, 37347), (729, 37272), (767, 37098), (775, 37062), (784, 37014), (794, 36981),

Gene: Bowman_209 Start: 113588, Stop: 116983, Start Num: 68
Candidate Starts for Bowman_209:
(Start: 26 @113495 has 50 MA's), (Start: 28 @113501 has 6 MA's), (Start: 33 @113513 has 8 MA's), (38, 113522), (Start: 68 @113588 has 125 MA's), (83, 113663), (101, 113777), (109, 113801), (125, 113861), (145, 113972), (153, 114011), (159, 114035), (169, 114077), (196, 114176), (206, 114218), (207, 114224), (210, 114236), (218, 114299), (227, 114359), (228, 114362), (233, 114389), (240, 114431), (256, 114494), (302, 114650), (306, 114668), (309, 114683), (321, 114800), (327, 114839), (342, 114959), (348, 115001), (358, 115046), (360, 115055), (370, 115106), (381, 115148), (397, 115214), (399, 115223), (400, 115226), (401, 115232), (402, 115235), (403, 115244), (404, 115250), (405, 115265), (426, 115352), (445, 115457), (453, 115511), (467, 115598), (473, 115628), (480, 115658), (486, 115691), (488, 115700), (499, 115772), (505, 115802), (533, 115919), (541, 115964), (549, 116006), (579, 116150), (595, 116210), (632, 116312), (659, 116399), (660, 116402), (666, 116420), (676, 116456), (677, 116459), (698, 116519), (703, 116537), (724, 116633), (732, 116663), (736, 116681), (744, 116711), (765, 116804), (769, 116819), (785, 116900), (787, 116906), (789, 116918),

Gene: Brataylor_57 Start: 42019, Stop: 38543, Start Num: 69
Candidate Starts for Brataylor_57:
(Start: 42 @42088 has 1 MA's), (Start: 69 @42019 has 55 MA's), (Start: 81 @41959 has 2 MA's), (83, 41950), (90, 41908), (105, 41815), (124, 41746), (138, 41677), (151, 41623), (169, 41551), (191, 41455), (209, 41377), (229, 41230), (238, 41191), (242, 41164), (245, 41146), (249, 41125), (256, 41110), (297, 40990), (301, 40978), (328, 40792), (329, 40786), (349, 40657), (351, 40639), (368, 40582), (369, 40579), (371, 40567), (403, 40429), (404, 40423), (405, 40408), (407, 40402), (414, 40369), (431, 40291), (435, 40258), (469, 40117), (487, 40036), (489, 40030), (500, 39961), (508, 39919), (511, 39898), (517, 39877), (531, 39832), (541, 39793), (551, 39736), (552, 39727), (572, 39646), (575, 39619), (581, 39598), (583, 39577), (593, 39547), (598, 39520), (625, 39454), (627, 39445), (630, 39433), (655, 39346), (701, 39178), (712, 39130), (731, 39046), (767, 38881), (770, 38872), (775, 38845), (784, 38797), (786, 38791), (791, 38770), (794, 38764), (817, 38659), (819, 38620), (822, 38557),

Gene: Braxoaddie_59 Start: 45750, Stop: 42334, Start Num: 72
Candidate Starts for Braxoaddie_59:
(Start: 72 @45750 has 108 MA's), (85, 45669), (Start: 88 @45654 has 7 MA's), (105, 45546), (107, 45540), (128, 45492), (142, 45411), (150, 45369), (202, 45159), (205, 45144), (207, 45135), (212, 45111), (214, 45081), (221, 45042), (234, 44961), (241, 44919), (272, 44784), (297, 44670), (309, 44619), (311, 44601), (314, 44592), (324, 44514), (326, 44499), (329, 44460), (335, 44421), (350, 44328), (361, 44277), (363, 44271), (371, 44232), (404, 44127), (405, 44112), (406, 44109), (429, 43995), (430, 43992), (433, 43962), (437, 43944), (438, 43941), (439, 43935), (441, 43932), (447, 43899), (452, 43878), (490, 43710), (503, 43632), (511, 43593), (512, 43590), (514, 43584), (519, 43566), (543, 43470), (548, 43452), (553, 43416), (571, 43344), (589, 43251), (591, 43239), (609, 43176), (625, 43119), (656, 42990), (665, 42960), (681, 42900), (682, 42897), (697, 42843), (714, 42753), (722, 42717), (734, 42672), (737, 42657), (747, 42615), (758, 42570), (771, 42516), (773, 42507), (774, 42495), (776, 42489), (778, 42471), (792, 42420), (793, 42417), (808, 42375),

Gene: Bread_204 Start: 112387, Stop: 115875, Start Num: 26
Candidate Starts for Bread_204:
(Start: 26 @112387 has 50 MA's), (Start: 28 @112393 has 6 MA's), (Start: 33 @112405 has 8 MA's), (38, 112414), (Start: 68 @112480 has 125 MA's), (83, 112555), (101, 112669), (109, 112693), (125, 112753), (145, 112864), (153, 112903), (159, 112927), (169, 112969), (196, 113068), (206, 113110), (207, 113116), (210, 113128), (218, 113191), (227, 113251), (228, 113254), (233, 113281), (240, 113323), (256, 113386), (302, 113542), (306, 113560), (309, 113575), (321, 113692), (327, 113731), (342, 113851), (348, 113893), (358, 113938), (360, 113947), (370, 113998), (381, 114040), (397, 114106), (399, 114115), (400, 114118), (401, 114124), (402, 114127), (403, 114136), (404, 114142),

(405, 114157), (426, 114244), (445, 114349), (453, 114403), (467, 114490), (473, 114520), (480, 114550), (486, 114583), (488, 114592), (499, 114664), (505, 114694), (533, 114811), (541, 114856), (549, 114898), (579, 115042), (595, 115102), (632, 115204), (659, 115291), (660, 115294), (666, 115312), (676, 115348), (677, 115351), (698, 115411), (703, 115429), (724, 115525), (732, 115555), (736, 115573), (744, 115603), (765, 115696), (769, 115711), (785, 115792), (787, 115798), (789, 115810),

Gene: Breeniome_208 Start: 111841, Stop: 115329, Start Num: 26
Candidate Starts for Breeniome_208:
(Start: 26 @111841 has 50 MA's), (Start: 28 @111847 has 6 MA's), (Start: 33 @111859 has 8 MA's), (38, 111868), (Start: 68 @111934 has 125 MA's), (83, 112009), (101, 112123), (109, 112147), (125, 112207), (145, 112318), (153, 112357), (159, 112381), (169, 112423), (196, 112522), (206, 112564), (207, 112570), (210, 112582), (218, 112645), (227, 112705), (228, 112708), (233, 112735), (240, 112777), (256, 112840), (302, 112996), (306, 113014), (309, 113029), (321, 113146), (327, 113185), (342, 113305), (348, 113347), (358, 113392), (360, 113401), (370, 113452), (381, 113494), (397, 113560), (399, 113569), (400, 113572), (401, 113578), (402, 113581), (403, 113590), (404, 113596), (405, 113611), (426, 113698), (445, 113803), (453, 113857), (467, 113944), (473, 113974), (480, 114004), (486, 114037), (488, 114046), (499, 114118), (505, 114148), (533, 114265), (541, 114310), (549, 114352), (579, 114496), (595, 114556), (632, 114658), (659, 114745), (660, 114748), (666, 114766), (676, 114802), (677, 114805), (698, 114865), (703, 114883), (724, 114979), (732, 115009), (736, 115027), (744, 115057), (765, 115150), (769, 115165), (785, 115246), (787, 115252), (789, 115264),

Gene: BryanRecycles_55 Start: 40726, Stop: 37247, Start Num: 69
Candidate Starts for BryanRecycles_55:
(Start: 42 @40795 has 1 MA's), (Start: 69 @40726 has 55 MA's), (83, 40654), (Start: 88 @40627 has 7 MA's), (90, 40612), (124, 40450), (129, 40423), (132, 40417), (151, 40327), (155, 40312), (168, 40258), (169, 40255), (191, 40159), (209, 40081), (229, 39934), (238, 39895), (245, 39850), (249, 39829), (256, 39814), (279, 39772), (284, 39760), (297, 39694), (301, 39682), (314, 39619), (329, 39490), (330, 39481), (335, 39445), (349, 39361), (351, 39343), (368, 39286), (369, 39283), (371, 39271), (403, 39133), (404, 39127), (405, 39112), (407, 39106), (416, 39067), (431, 38995), (435, 38962), (465, 38845), (469, 38821), (483, 38764), (487, 38740), (489, 38734), (500, 38665), (511, 38602), (531, 38536), (536, 38515), (541, 38497), (551, 38440), (552, 38431), (575, 38323), (577, 38314), (581, 38302), (583, 38281), (593, 38251), (598, 38224), (625, 38158), (627, 38149), (630, 38137), (655, 38050), (662, 38026), (677, 37978), (712, 37834), (729, 37759), (767, 37585), (775, 37549), (784, 37501), (794, 37468),

Gene: Buggaboo_61 Start: 49019, Stop: 45717, Start Num: 72
Candidate Starts for Buggaboo_61:
(31, 49094), (Start: 72 @49019 has 108 MA's), (Start: 88 @48923 has 7 MA's), (126, 48770), (128, 48761), (150, 48638), (190, 48479), (192, 48473), (197, 48449), (215, 48341), (234, 48230), (269, 48104), (306, 47933), (314, 47891), (324, 47813), (326, 47798), (346, 47660), (371, 47528), (396, 47462), (406, 47405), (419, 47345), (429, 47294), (434, 47255), (442, 47225), (452, 47180), (502, 46937), (511, 46895), (512, 46892), (514, 46886), (519, 46868), (543, 46772), (553, 46718), (589, 46565), (607, 46505), (616, 46490), (647, 46361), (677, 46283), (697, 46223), (699, 46202), (700, 46199), (706, 46181), (722, 46097), (737, 46037), (744, 46010), (808, 45758), (814, 45728),

Gene: Burrough_211 Start: 114157, Stop: 117645, Start Num: 26
Candidate Starts for Burrough_211:
(Start: 26 @114157 has 50 MA's), (Start: 28 @114163 has 6 MA's), (Start: 33 @114175 has 8 MA's), (38, 114184), (Start: 68 @114250 has 125 MA's), (83, 114325), (101, 114439), (109, 114463), (125, 114523), (145, 114634), (153, 114673), (159, 114697), (169, 114739), (196, 114838), (206, 114880), (207, 114886), (210, 114898), (218, 114961), (227, 115021), (228, 115024), (233, 115051), (240,

115093), (256, 115156), (302, 115312), (306, 115330), (309, 115345), (321, 115462), (327, 115501), (342, 115621), (348, 115663), (358, 115708), (360, 115717), (370, 115768), (381, 115810), (397, 115876), (399, 115885), (400, 115888), (401, 115894), (402, 115897), (403, 115906), (404, 115912), (405, 115927), (426, 116014), (445, 116119), (453, 116173), (467, 116260), (473, 116290), (480, 116320), (486, 116353), (488, 116362), (499, 116434), (505, 116464), (533, 116581), (541, 116626), (549, 116668), (579, 116812), (595, 116872), (632, 116974), (659, 117061), (660, 117064), (666, 117082), (676, 117118), (677, 117121), (698, 117181), (703, 117199), (724, 117295), (732, 117325), (736, 117343), (744, 117373), (765, 117466), (769, 117481), (785, 117562), (787, 117568), (789, 117580),

Gene: Butterscotch_65 Start: 49750, Stop: 53052, Start Num: 25
Candidate Starts for Butterscotch_65:
(Start: 25 @49750 has 21 MA's), (Start: 61 @49837 has 1 MA's), (Start: 65 @49843 has 3 MA's), (Start: 72 @49852 has 108 MA's), (Start: 88 @49948 has 7 MA's), (128, 50104), (143, 50191), (144, 50194), (156, 50245), (214, 50509), (221, 50548), (232, 50620), (234, 50629), (247, 50704), (266, 50770), (269, 50776), (283, 50830), (289, 50848), (297, 50899), (298, 50902), (305, 50932), (319, 51016), (320, 51025), (324, 51052), (326, 51067), (350, 51244), (351, 51253), (376, 51358), (403, 51439), (413, 51499), (429, 51574), (433, 51607), (434, 51613), (440, 51634), (442, 51643), (452, 51688), (471, 51757), (476, 51772), (490, 51841), (501, 51904), (509, 51937), (510, 51940), (521, 51991), (540, 52066), (566, 52189), (571, 52207), (587, 52285), (589, 52288), (591, 52300), (601, 52345), (610, 52366), (613, 52378), (622, 52408), (627, 52429), (687, 52501), (704, 52558), (723, 52657), (739, 52723), (761, 52813), (767, 52843), (768, 52846), (782, 52921), (796, 52963), (806, 52993), (809, 53005), (812, 53020), (814, 53029),

Gene: Bxz1_199 Start: 115449, Stop: 118844, Start Num: 68
Candidate Starts for Bxz1_199:
(Start: 26 @115356 has 50 MA's), (Start: 28 @115362 has 6 MA's), (Start: 33 @115374 has 8 MA's), (38, 115383), (Start: 68 @115449 has 125 MA's), (83, 115524), (101, 115638), (109, 115662), (125, 115722), (145, 115833), (153, 115872), (159, 115896), (169, 115938), (196, 116037), (206, 116079), (207, 116085), (210, 116097), (218, 116160), (227, 116220), (228, 116223), (233, 116250), (240, 116292), (256, 116355), (302, 116511), (306, 116529), (309, 116544), (321, 116661), (327, 116700), (342, 116820), (348, 116862), (358, 116907), (360, 116916), (370, 116967), (381, 117009), (397, 117075), (399, 117084), (400, 117087), (401, 117093), (402, 117096), (403, 117105), (404, 117111), (405, 117126), (426, 117213), (445, 117318), (453, 117372), (467, 117459), (473, 117489), (480, 117519), (486, 117552), (488, 117561), (499, 117633), (505, 117663), (533, 117780), (541, 117825), (549, 117867), (579, 118011), (595, 118071), (632, 118173), (659, 118260), (660, 118263), (666, 118281), (676, 118317), (677, 118320), (698, 118380), (703, 118398), (724, 118494), (732, 118524), (736, 118542), (744, 118572), (765, 118665), (769, 118680), (785, 118761), (787, 118767), (789, 118779),

Gene: C3PO_43 Start: 41952, Stop: 38659, Start Num: 72
Candidate Starts for C3PO_43:
(Start: 72 @41952 has 108 MA's), (80, 41895), (85, 41871), (Start: 88 @41856 has 7 MA's), (89, 41847), (128, 41700), (177, 41418), (190, 41340), (205, 41274), (244, 41031), (276, 40926), (297, 40824), (308, 40776), (324, 40671), (326, 40656), (337, 40560), (384, 40341), (385, 40338), (393, 40323), (402, 40293), (405, 40263), (429, 40146), (433, 40113), (439, 40086), (445, 40062), (479, 39915), (480, 39909), (487, 39873), (490, 39861), (493, 39840), (510, 39765), (512, 39747), (553, 39570), (564, 39540), (567, 39513), (571, 39498), (604, 39369), (637, 39336), (667, 39249), (704, 39135), (706, 39129), (708, 39117), (741, 38967), (742, 38964), (744, 38958), (748, 38940), (749, 38931), (753, 38913), (777, 38811), (779, 38787), (789, 38751), (792, 38745),

Gene: Cactojaque_204 Start: 111909, Stop: 115304, Start Num: 68
Candidate Starts for Cactojaque_204:

(Start: 26 @111816 has 50 MA's), (Start: 28 @111822 has 6 MA's), (Start: 33 @111834 has 8 MA's), (38, 111843), (Start: 68 @111909 has 125 MA's), (83, 111984), (101, 112098), (109, 112122), (125, 112182), (145, 112293), (153, 112332), (159, 112356), (169, 112398), (196, 112497), (206, 112539), (207, 112545), (210, 112557), (218, 112620), (227, 112680), (228, 112683), (233, 112710), (240, 112752), (256, 112815), (293, 112935), (302, 112971), (306, 112989), (309, 113004), (321, 113121), (327, 113160), (342, 113280), (348, 113322), (358, 113367), (360, 113376), (370, 113427), (381, 113469), (397, 113535), (399, 113544), (400, 113547), (401, 113553), (402, 113556), (403, 113565), (404, 113571), (405, 113586), (426, 113673), (445, 113778), (453, 113832), (467, 113919), (473, 113949), (480, 113979), (486, 114012), (488, 114021), (499, 114093), (505, 114123), (533, 114240), (541, 114285), (549, 114327), (579, 114471), (595, 114531), (632, 114633), (659, 114720), (660, 114723), (666, 114741), (676, 114777), (677, 114780), (698, 114840), (703, 114858), (724, 114954), (732, 114984), (736, 115002), (744, 115032), (765, 115125), (769, 115140), (785, 115221), (787, 115227), (789, 115239),

Gene: Cali_202 Start: 113769, Stop: 117251, Start Num: 28
Candidate Starts for Cali_202:
(Start: 18 @113733 has 6 MA's), (Start: 26 @113763 has 50 MA's), (Start: 28 @113769 has 6 MA's), (Start: 33 @113781 has 8 MA's), (38, 113790), (Start: 68 @113856 has 125 MA's), (83, 113931), (101, 114045), (109, 114069), (125, 114129), (145, 114240), (153, 114279), (159, 114303), (169, 114345), (196, 114444), (206, 114486), (207, 114492), (210, 114504), (218, 114567), (227, 114627), (228, 114630), (233, 114657), (240, 114699), (256, 114762), (293, 114882), (302, 114918), (306, 114936), (309, 114951), (321, 115068), (327, 115107), (342, 115227), (348, 115269), (358, 115314), (360, 115323), (370, 115374), (381, 115416), (397, 115482), (399, 115491), (400, 115494), (401, 115500), (402, 115503), (403, 115512), (404, 115518), (405, 115533), (426, 115620), (445, 115725), (453, 115779), (467, 115866), (473, 115896), (480, 115926), (486, 115959), (488, 115968), (499, 116040), (505, 116070), (533, 116187), (541, 116232), (549, 116274), (579, 116418), (595, 116478), (632, 116580), (659, 116667), (660, 116670), (666, 116688), (676, 116724), (677, 116727), (698, 116787), (703, 116805), (724, 116901), (732, 116931), (736, 116949), (744, 116979), (765, 117072), (769, 117087), (785, 117168), (787, 117174), (789, 117186),

Gene: Caliburn_52 Start: 40340, Stop: 36861, Start Num: 69
Candidate Starts for Caliburn_52:
(7, 40550), (Start: 69 @40340 has 55 MA's), (83, 40268), (Start: 88 @40241 has 7 MA's), (90, 40226), (124, 40064), (129, 40037), (132, 40031), (151, 39941), (155, 39926), (168, 39872), (169, 39869), (191, 39773), (209, 39695), (229, 39548), (238, 39509), (245, 39464), (249, 39443), (256, 39428), (279, 39386), (284, 39374), (297, 39308), (301, 39296), (314, 39233), (329, 39104), (330, 39095), (335, 39059), (349, 38975), (351, 38957), (368, 38900), (369, 38897), (371, 38885), (403, 38747), (404, 38741), (405, 38726), (407, 38720), (416, 38681), (420, 38663), (431, 38609), (435, 38576), (469, 38435), (487, 38354), (489, 38348), (500, 38279), (511, 38216), (531, 38150), (536, 38129), (541, 38111), (551, 38054), (552, 38045), (575, 37937), (577, 37928), (581, 37916), (583, 37895), (593, 37865), (598, 37838), (625, 37772), (627, 37763), (630, 37751), (655, 37664), (662, 37640), (677, 37592), (712, 37448), (729, 37373), (767, 37199), (775, 37163), (784, 37115), (794, 37082), (819, 36938),

Gene: Cane17_200 Start: 116508, Stop: 119903, Start Num: 68
Candidate Starts for Cane17_200:
(Start: 26 @116415 has 50 MA's), (Start: 28 @116421 has 6 MA's), (Start: 33 @116433 has 8 MA's), (38, 116442), (Start: 68 @116508 has 125 MA's), (83, 116583), (101, 116697), (109, 116721), (125, 116781), (145, 116892), (153, 116931), (159, 116955), (169, 116997), (196, 117096), (206, 117138), (207, 117144), (210, 117156), (218, 117219), (227, 117279), (228, 117282), (233, 117309), (240, 117351), (256, 117414), (302, 117570), (306, 117588), (309, 117603), (321, 117720), (327, 117759), (342, 117879), (348, 117921), (358, 117966), (360, 117975), (370, 118026), (381, 118068), (397, 118134), (399, 118143), (400, 118146), (401, 118152), (402, 118155), (403, 118164), (404, 118170),

(405, 118185), (426, 118272), (445, 118377), (453, 118431), (467, 118518), (473, 118548), (480, 118578), (486, 118611), (488, 118620), (499, 118692), (505, 118722), (533, 118839), (541, 118884), (549, 118926), (579, 119070), (595, 119130), (632, 119232), (659, 119319), (660, 119322), (666, 119340), (676, 119376), (677, 119379), (698, 119439), (703, 119457), (724, 119553), (732, 119583), (736, 119601), (744, 119631), (765, 119724), (769, 119739), (787, 119826), (789, 119838), (804, 119877),

Gene: Cantare_64 Start: 54042, Stop: 56888, Start Num: 56
Candidate Starts for Cantare_64:
(50, 54024), (Start: 56 @54042 has 1 MA's), (67, 54060), (79, 54120), (83, 54138), (91, 54198), (100, 54243), (105, 54273), (112, 54288), (126, 54345), (136, 54396), (154, 54489), (163, 54528), (172, 54564), (174, 54570), (191, 54645), (193, 54648), (197, 54669), (200, 54678), (203, 54696), (204, 54702), (217, 54780), (219, 54789), (242, 54921), (254, 54972), (256, 54975), (265, 54984), (268, 54996), (285, 55050), (301, 55122), (302, 55128), (318, 55221), (319, 55224), (321, 55236), (324, 55260), (325, 55263), (331, 55326), (345, 55413), (355, 55473), (374, 55548), (389, 55611), (397, 55653), (399, 55662), (401, 55671), (404, 55689), (415, 55752), (426, 55794), (427, 55803), (431, 55827), (432, 55833), (435, 55860), (442, 55881), (465, 55974), (481, 56049), (485, 56067), (487, 56079), (504, 56175), (517, 56235), (518, 56241), (537, 56322), (545, 56352), (568, 56466), (574, 56502), (575, 56511), (590, 56562), (596, 56595), (606, 56634), (630, 56697), (633, 56703), (642, 56757), (656, 56784), (662, 56805), (684, 56871),

Gene: Capablanca_214 Start: 115077, Stop: 118472, Start Num: 68
Candidate Starts for Capablanca_214:
(Start: 26 @114984 has 50 MA's), (Start: 28 @114990 has 6 MA's), (Start: 33 @115002 has 8 MA's), (38, 115011), (Start: 68 @115077 has 125 MA's), (83, 115152), (101, 115266), (109, 115290), (125, 115350), (145, 115461), (153, 115500), (159, 115524), (169, 115566), (196, 115665), (206, 115707), (207, 115713), (210, 115725), (218, 115788), (227, 115848), (228, 115851), (233, 115878), (240, 115920), (256, 115983), (302, 116139), (306, 116157), (309, 116172), (321, 116289), (327, 116328), (342, 116448), (348, 116490), (358, 116535), (360, 116544), (370, 116595), (381, 116637), (397, 116703), (399, 116712), (400, 116715), (401, 116721), (402, 116724), (403, 116733), (404, 116739), (405, 116754), (426, 116841), (445, 116946), (453, 117000), (467, 117087), (473, 117117), (480, 117147), (486, 117180), (488, 117189), (499, 117261), (505, 117291), (533, 117408), (541, 117453), (549, 117495), (579, 117639), (595, 117699), (632, 117801), (659, 117888), (660, 117891), (666, 117909), (676, 117945), (677, 117948), (698, 118008), (703, 118026), (724, 118122), (732, 118152), (736, 118170), (744, 118200), (765, 118293), (769, 118308), (785, 118389), (787, 118395), (789, 118407),

Gene: Caravan_200 Start: 113104, Stop: 116592, Start Num: 26
Candidate Starts for Caravan_200:
(Start: 26 @113104 has 50 MA's), (Start: 28 @113110 has 6 MA's), (Start: 33 @113122 has 8 MA's), (38, 113131), (Start: 68 @113197 has 125 MA's), (83, 113272), (101, 113386), (109, 113410), (125, 113470), (145, 113581), (153, 113620), (159, 113644), (169, 113686), (196, 113785), (206, 113827), (207, 113833), (210, 113845), (218, 113908), (227, 113968), (228, 113971), (233, 113998), (240, 114040), (256, 114103), (302, 114259), (306, 114277), (309, 114292), (321, 114409), (327, 114448), (342, 114568), (348, 114610), (358, 114655), (360, 114664), (370, 114715), (381, 114757), (397, 114823), (399, 114832), (400, 114835), (401, 114841), (402, 114844), (403, 114853), (404, 114859), (405, 114874), (426, 114961), (445, 115066), (453, 115120), (467, 115207), (473, 115237), (480, 115267), (486, 115300), (488, 115309), (499, 115381), (505, 115411), (533, 115528), (541, 115573), (549, 115615), (579, 115759), (595, 115819), (632, 115921), (659, 116008), (660, 116011), (666, 116029), (676, 116065), (677, 116068), (698, 116128), (703, 116146), (724, 116242), (732, 116272), (736, 116290), (744, 116320), (765, 116413), (769, 116428), (785, 116509), (787, 116515), (789, 116527),

Gene: Catera_201 Start: 111590, Stop: 114985, Start Num: 68
Candidate Starts for Catera_201:
(Start: 26 @111497 has 50 MA's), (Start: 28 @111503 has 6 MA's), (Start: 33 @111515 has 8 MA's), (38, 111524), (Start: 68 @111590 has 125 MA's), (83, 111665), (101, 111779), (109, 111803), (125, 111863), (145, 111974), (153, 112013), (159, 112037), (169, 112079), (196, 112178), (206, 112220), (207, 112226), (210, 112238), (218, 112301), (227, 112361), (228, 112364), (233, 112391), (240, 112433), (256, 112496), (293, 112616), (302, 112652), (306, 112670), (309, 112685), (321, 112802), (327, 112841), (342, 112961), (348, 113003), (358, 113048), (360, 113057), (370, 113108), (381, 113150), (397, 113216), (399, 113225), (400, 113228), (401, 113234), (402, 113237), (403, 113246), (404, 113252), (405, 113267), (426, 113354), (445, 113459), (453, 113513), (467, 113600), (473, 113630), (480, 113660), (486, 113693), (488, 113702), (499, 113774), (505, 113804), (533, 113921), (541, 113966), (549, 114008), (579, 114152), (595, 114212), (632, 114314), (659, 114401), (660, 114404), (666, 114422), (676, 114458), (677, 114461), (698, 114521), (703, 114539), (724, 114635), (732, 114665), (736, 114683), (744, 114713), (765, 114806), (769, 114821), (785, 114902), (787, 114908), (789, 114920),

Gene: Cborch11_78 Start: 55192, Stop: 58488, Start Num: 72
Candidate Starts for Cborch11_78:
(Start: 55 @55162 has 2 MA's), (66, 55183), (Start: 72 @55192 has 108 MA's), (84, 55264), (Start: 88 @55288 has 7 MA's), (91, 55321), (128, 55456), (144, 55546), (145, 55549), (148, 55567), (173, 55675), (214, 55867), (259, 56101), (275, 56158), (295, 56257), (303, 56284), (308, 56311), (309, 56314), (326, 56437), (329, 56476), (334, 56518), (347, 56596), (350, 56614), (353, 56632), (357, 56644), (373, 56719), (406, 56875), (423, 56959), (434, 57037), (440, 57058), (442, 57067), (443, 57073), (446, 57082), (461, 57154), (464, 57169), (471, 57208), (475, 57220), (493, 57313), (494, 57319), (503, 57367), (512, 57409), (550, 57559), (551, 57571), (571, 57655), (597, 57796), (639, 57901), (700, 58000), (703, 58009), (718, 58087), (727, 58126), (730, 58141), (741, 58189), (763, 58285), (768, 58303), (774, 58330), (783, 58378), (793, 58408), (795, 58411), (799, 58426), (809, 58456), (811, 58465), (812, 58471), (813, 58474),

Gene: Celeste_56 Start: 41488, Stop: 38009, Start Num: 69
Candidate Starts for Celeste_56:
(Start: 42 @41557 has 1 MA's), (Start: 69 @41488 has 55 MA's), (Start: 81 @41425 has 2 MA's), (83, 41416), (90, 41374), (105, 41281), (124, 41212), (138, 41143), (151, 41089), (169, 41017), (180, 40981), (191, 40921), (209, 40843), (229, 40696), (238, 40657), (242, 40630), (245, 40612), (249, 40591), (256, 40576), (297, 40456), (301, 40444), (328, 40258), (329, 40252), (335, 40207), (349, 40123), (351, 40105), (368, 40048), (369, 40045), (371, 40033), (403, 39895), (404, 39889), (405, 39874), (407, 39868), (414, 39835), (431, 39757), (435, 39724), (469, 39583), (475, 39562), (487, 39502), (489, 39496), (500, 39427), (511, 39364), (517, 39343), (531, 39298), (541, 39259), (551, 39202), (552, 39193), (575, 39085), (581, 39064), (583, 39043), (593, 39013), (598, 38986), (625, 38920), (627, 38911), (630, 38899), (655, 38812), (662, 38788), (701, 38644), (712, 38596), (731, 38512), (738, 38485), (767, 38347), (770, 38338), (775, 38311), (784, 38263), (786, 38257), (791, 38236), (794, 38230), (817, 38125), (819, 38086), (822, 38023),

Gene: Celia_53 Start: 38881, Stop: 35396, Start Num: 69
Candidate Starts for Celia_53:
(40, 38950), (44, 38941), (53, 38914), (Start: 69 @38881 has 55 MA's), (73, 38866), (75, 38854), (83, 38806), (85, 38794), (90, 38764), (98, 38713), (105, 38671), (117, 38638), (129, 38575), (161, 38440), (168, 38410), (169, 38407), (183, 38365), (191, 38311), (218, 38167), (229, 38086), (240, 38029), (242, 38020), (245, 38002), (249, 37981), (252, 37975), (279, 37924), (284, 37912), (297, 37846), (301, 37834), (307, 37807), (318, 37732), (328, 37648), (329, 37642), (351, 37495), (368, 37438), (369, 37435), (387, 37366), (389, 37357), (394, 37327), (395, 37324), (403, 37285), (404, 37279), (407, 37258), (414, 37225), (416, 37219), (431, 37147), (435, 37114), (438, 37102), (460, 37021), (469, 36973), (471, 36964), (482, 36919), (483, 36916), (487, 36892), (506, 36787), (511, 36754),

(531, 36688), (551, 36592), (552, 36583), (575, 36475), (583, 36433), (593, 36403), (625, 36310), (627, 36301), (630, 36289), (632, 36286), (645, 36223), (650, 36217), (677, 36130), (683, 36109), (693, 36082), (709, 36004), (712, 35983), (722, 35935), (729, 35908), (762, 35764), (772, 35719), (798, 35602), (800, 35599), (817, 35512), (819, 35473), (820, 35467), (822, 35410), (823, 35401),

Gene: Chargie21_206 Start: 111889, Stop: 115284, Start Num: 68
Candidate Starts for Chargie21_206:
(Start: 26 @111796 has 50 MA's), (Start: 28 @111802 has 6 MA's), (Start: 33 @111814 has 8 MA's), (38, 111823), (Start: 68 @111889 has 125 MA's), (83, 111964), (101, 112078), (109, 112102), (125, 112162), (145, 112273), (153, 112312), (159, 112336), (169, 112378), (196, 112477), (206, 112519), (207, 112525), (210, 112537), (218, 112600), (227, 112660), (228, 112663), (233, 112690), (240, 112732), (256, 112795), (293, 112915), (302, 112951), (306, 112969), (309, 112984), (321, 113101), (327, 113140), (342, 113260), (348, 113302), (358, 113347), (360, 113356), (370, 113407), (381, 113449), (397, 113515), (399, 113524), (400, 113527), (401, 113533), (402, 113536), (403, 113545), (404, 113551), (405, 113566), (426, 113653), (445, 113758), (453, 113812), (467, 113899), (473, 113929), (480, 113959), (486, 113992), (488, 114001), (499, 114073), (505, 114103), (533, 114220), (541, 114265), (549, 114307), (579, 114451), (595, 114511), (632, 114613), (659, 114700), (660, 114703), (666, 114721), (676, 114757), (677, 114760), (698, 114820), (703, 114838), (724, 114934), (732, 114964), (736, 114982), (744, 115012), (765, 115105), (769, 115120), (785, 115201), (787, 115207), (789, 115219),

Gene: CharlieB_203 Start: 112494, Stop: 116012, Start Num: 18
Candidate Starts for CharlieB_203:
(Start: 18 @112494 has 6 MA's), (Start: 26 @112524 has 50 MA's), (Start: 28 @112530 has 6 MA's), (Start: 33 @112542 has 8 MA's), (38, 112551), (Start: 68 @112617 has 125 MA's), (83, 112692), (101, 112806), (109, 112830), (125, 112890), (145, 113001), (153, 113040), (159, 113064), (169, 113106), (196, 113205), (206, 113247), (207, 113253), (210, 113265), (218, 113328), (227, 113388), (228, 113391), (233, 113418), (240, 113460), (256, 113523), (293, 113643), (302, 113679), (306, 113697), (309, 113712), (321, 113829), (327, 113868), (342, 113988), (348, 114030), (358, 114075), (360, 114084), (370, 114135), (381, 114177), (397, 114243), (399, 114252), (400, 114255), (401, 114261), (402, 114264), (403, 114273), (404, 114279), (405, 114294), (426, 114381), (445, 114486), (453, 114540), (467, 114627), (473, 114657), (480, 114687), (486, 114720), (488, 114729), (499, 114801), (505, 114831), (533, 114948), (541, 114993), (549, 115035), (579, 115179), (595, 115239), (632, 115341), (659, 115428), (660, 115431), (666, 115449), (676, 115485), (677, 115488), (698, 115548), (703, 115566), (724, 115662), (732, 115692), (736, 115710), (744, 115740), (765, 115833), (769, 115848), (785, 115929), (787, 115935), (789, 115947),

Gene: Charminar_77 Start: 49951, Stop: 53292, Start Num: 72
Candidate Starts for Charminar_77:
(Start: 72 @49951 has 108 MA's), (Start: 81 @50011 has 2 MA's), (Start: 88 @50047 has 7 MA's), (92, 50092), (101, 50134), (162, 50395), (198, 50530), (214, 50626), (263, 50896), (264, 50905), (289, 51013), (296, 51058), (306, 51100), (318, 51178), (326, 51232), (327, 51235), (328, 51265), (342, 51355), (350, 51409), (372, 51508), (376, 51523), (393, 51565), (429, 51739), (433, 51772), (437, 51790), (442, 51808), (452, 51853), (453, 51856), (479, 51952), (487, 51994), (490, 52006), (495, 52042), (538, 52222), (548, 52264), (553, 52300), (566, 52354), (567, 52357), (571, 52372), (589, 52468), (591, 52480), (675, 52675), (704, 52759), (724, 52864), (728, 52879), (732, 52894), (736, 52915), (739, 52927), (740, 52933), (741, 52936), (748, 52963), (759, 53008), (779, 53116), (795, 53161), (801, 53185), (812, 53221),

Gene: ChaylaJr_206 Start: 112317, Stop: 115712, Start Num: 68
Candidate Starts for ChaylaJr_206:
(Start: 26 @112224 has 50 MA's), (Start: 28 @112230 has 6 MA's), (Start: 33 @112242 has 8 MA's), (38, 112251), (Start: 68 @112317 has 125 MA's), (83, 112392), (101, 112506), (109, 112530), (125,

112590), (145, 112701), (153, 112740), (159, 112764), (169, 112806), (196, 112905), (206, 112947), (207, 112953), (210, 112965), (218, 113028), (227, 113088), (228, 113091), (233, 113118), (240, 113160), (256, 113223), (293, 113343), (302, 113379), (306, 113397), (309, 113412), (321, 113529), (327, 113568), (342, 113688), (348, 113730), (358, 113775), (360, 113784), (370, 113835), (381, 113877), (397, 113943), (399, 113952), (400, 113955), (401, 113961), (402, 113964), (403, 113973), (404, 113979), (405, 113994), (426, 114081), (445, 114186), (453, 114240), (467, 114327), (473, 114357), (480, 114387), (486, 114420), (488, 114429), (499, 114501), (505, 114531), (533, 114648), (541, 114693), (549, 114735), (579, 114879), (595, 114939), (632, 115041), (659, 115128), (660, 115131), (666, 115149), (676, 115185), (677, 115188), (698, 115248), (703, 115266), (724, 115362), (732, 115392), (736, 115410), (744, 115440), (765, 115533), (769, 115548), (785, 115629), (787, 115635), (789, 115647),

Gene: CherryTomatoes_154 Start: 105997, Stop: 109452, Start Num: 68
Candidate Starts for CherryTomatoes_154:
(Start: 68 @105997 has 125 MA's), (83, 106072), (125, 106270), (133, 106306), (144, 106378), (148, 106399), (179, 106519), (186, 106543), (188, 106567), (193, 106588), (196, 106615), (206, 106657), (215, 106726), (218, 106738), (227, 106795), (228, 106798), (233, 106825), (256, 106927), (309, 107116), (310, 107119), (313, 107152), (354, 107470), (358, 107485), (359, 107488), (405, 107695), (406, 107698), (407, 107701), (408, 107710), (413, 107728), (426, 107791), (427, 107800), (436, 107863), (454, 107953), (473, 108064), (497, 108202), (499, 108205), (511, 108256), (512, 108259), (534, 108346), (566, 108517), (627, 108739), (690, 108940), (717, 109054), (718, 109063), (724, 109087), (731, 109114), (732, 109117), (736, 109135), (744, 109165), (748, 109183), (754, 109213), (755, 109216), (764, 109255), (765, 109258), (802, 109408),

Gene: ChickenPhender_205 Start: 112036, Stop: 115431, Start Num: 68
Candidate Starts for ChickenPhender_205:
(Start: 26 @111943 has 50 MA's), (Start: 28 @111949 has 6 MA's), (Start: 33 @111961 has 8 MA's), (38, 111970), (Start: 68 @112036 has 125 MA's), (83, 112111), (101, 112225), (109, 112249), (125, 112309), (145, 112420), (153, 112459), (159, 112483), (169, 112525), (196, 112624), (206, 112666), (207, 112672), (210, 112684), (218, 112747), (227, 112807), (228, 112810), (233, 112837), (240, 112879), (256, 112942), (293, 113062), (302, 113098), (306, 113116), (309, 113131), (321, 113248), (327, 113287), (342, 113407), (348, 113449), (358, 113494), (360, 113503), (370, 113554), (381, 113596), (397, 113662), (399, 113671), (400, 113674), (401, 113680), (402, 113683), (403, 113692), (404, 113698), (405, 113713), (426, 113800), (445, 113905), (453, 113959), (467, 114046), (473, 114076), (480, 114106), (486, 114139), (488, 114148), (499, 114220), (505, 114250), (533, 114367), (541, 114412), (549, 114454), (579, 114598), (595, 114658), (632, 114760), (659, 114847), (660, 114850), (666, 114868), (676, 114904), (677, 114907), (698, 114967), (703, 114985), (724, 115081), (732, 115111), (736, 115129), (744, 115159), (765, 115252), (769, 115267), (785, 115348), (787, 115354), (789, 115366),

Gene: Chidiebere_98 Start: 70671, Stop: 73499, Start Num: 52
Candidate Starts for Chidiebere_98:
(Start: 52 @70671 has 1 MA's), (Start: 56 @70683 has 1 MA's), (Start: 59 @70686 has 9 MA's), (83, 70779), (91, 70839), (126, 70989), (127, 70992), (128, 70998), (146, 71097), (152, 71127), (153, 71130), (169, 71193), (174, 71214), (175, 71217), (185, 71244), (207, 71361), (209, 71370), (217, 71427), (219, 71436), (229, 71502), (242, 71568), (297, 71733), (302, 71751), (305, 71766), (307, 71772), (309, 71784), (316, 71811), (317, 71814), (323, 71874), (324, 71883), (325, 71886), (327, 71898), (330, 71943), (341, 72012), (345, 72036), (375, 72192), (379, 72210), (386, 72234), (389, 72252), (407, 72348), (415, 72390), (417, 72396), (426, 72432), (427, 72441), (430, 72459), (431, 72465), (433, 72489), (434, 72495), (435, 72498), (441, 72516), (442, 72519), (465, 72612), (475, 72657), (477, 72663), (481, 72687), (482, 72690), (484, 72699), (485, 72705), (487, 72717), (509, 72834), (511, 72852), (512, 72855), (515, 72864), (542, 72978), (546, 72993), (575, 73140), (577, 73149), (578, 73152), (580, 73158), (596, 73224), (599, 73242), (604, 73254), (606, 73263), (642,

73377), (651, 73389), (656, 73404), (680, 73479), (683, 73488),

Gene: Chill_69 Start: 49783, Stop: 53085, Start Num: 25
Candidate Starts for Chill_69:
(Start: 25 @49783 has 21 MA's), (Start: 61 @49870 has 1 MA's), (Start: 65 @49876 has 3 MA's), (Start: 72 @49885 has 108 MA's), (Start: 88 @49981 has 7 MA's), (128, 50137), (143, 50224), (144, 50227), (156, 50278), (214, 50542), (221, 50581), (232, 50653), (234, 50662), (247, 50737), (266, 50803), (269, 50809), (283, 50863), (289, 50881), (297, 50932), (298, 50935), (305, 50965), (319, 51049), (324, 51085), (326, 51100), (350, 51277), (376, 51391), (403, 51472), (429, 51607), (433, 51640), (434, 51646), (440, 51667), (442, 51676), (452, 51721), (471, 51790), (476, 51805), (480, 51826), (490, 51874), (501, 51937), (509, 51970), (510, 51973), (511, 51988), (521, 52024), (540, 52099), (566, 52222), (571, 52240), (587, 52318), (589, 52321), (591, 52333), (610, 52399), (613, 52411), (622, 52441), (627, 52462), (687, 52534), (704, 52591), (723, 52690), (739, 52756), (761, 52846), (767, 52876), (768, 52879), (774, 52909), (782, 52954), (796, 52996), (806, 53026), (809, 53038), (812, 53053), (814, 53062),

Gene: ChisanaKitsune_95 Start: 69630, Stop: 72443, Start Num: 59
Candidate Starts for ChisanaKitsune_95:
(Start: 52 @69615 has 1 MA's), (Start: 56 @69627 has 1 MA's), (Start: 59 @69630 has 9 MA's), (83, 69723), (91, 69783), (126, 69933), (127, 69936), (128, 69942), (146, 70041), (152, 70071), (153, 70074), (169, 70137), (174, 70158), (175, 70161), (185, 70188), (207, 70305), (209, 70314), (217, 70371), (219, 70380), (229, 70446), (242, 70512), (246, 70536), (297, 70677), (302, 70695), (305, 70710), (307, 70716), (309, 70728), (316, 70755), (317, 70758), (323, 70818), (324, 70827), (325, 70830), (327, 70842), (330, 70887), (341, 70956), (375, 71136), (379, 71154), (386, 71178), (389, 71196), (407, 71292), (415, 71334), (426, 71376), (427, 71385), (430, 71403), (431, 71409), (433, 71433), (434, 71439), (435, 71442), (441, 71460), (442, 71463), (465, 71556), (475, 71601), (477, 71607), (481, 71631), (482, 71634), (484, 71643), (485, 71649), (487, 71661), (509, 71778), (511, 71796), (512, 71799), (515, 71808), (546, 71937), (575, 72084), (577, 72093), (578, 72096), (580, 72102), (599, 72186), (604, 72198), (606, 72207), (643, 72324), (656, 72348),

Gene: Chomp_209 Start: 113666, Stop: 117061, Start Num: 68
Candidate Starts for Chomp_209:
(Start: 26 @113573 has 50 MA's), (Start: 28 @113579 has 6 MA's), (Start: 33 @113591 has 8 MA's), (38, 113600), (Start: 68 @113666 has 125 MA's), (83, 113741), (101, 113855), (109, 113879), (125, 113939), (145, 114050), (153, 114089), (159, 114113), (169, 114155), (196, 114254), (206, 114296), (207, 114302), (210, 114314), (218, 114377), (227, 114437), (228, 114440), (233, 114467), (240, 114509), (256, 114572), (293, 114692), (302, 114728), (306, 114746), (309, 114761), (321, 114878), (327, 114917), (342, 115037), (348, 115079), (358, 115124), (360, 115133), (370, 115184), (381, 115226), (397, 115292), (399, 115301), (400, 115304), (401, 115310), (402, 115313), (403, 115322), (404, 115328), (405, 115343), (426, 115430), (445, 115535), (453, 115589), (467, 115676), (473, 115706), (480, 115736), (486, 115769), (488, 115778), (499, 115850), (505, 115880), (533, 115997), (541, 116042), (549, 116084), (579, 116228), (595, 116288), (632, 116390), (659, 116477), (660, 116480), (666, 116498), (676, 116534), (677, 116537), (698, 116597), (703, 116615), (724, 116711), (732, 116741), (736, 116759), (744, 116789), (765, 116882), (769, 116897), (785, 116978), (787, 116984), (789, 116996),

Gene: Chucky_54 Start: 42494, Stop: 39009, Start Num: 69
Candidate Starts for Chucky_54:
(Start: 42 @42563 has 1 MA's), (Start: 69 @42494 has 55 MA's), (Start: 81 @42431 has 2 MA's), (83, 42422), (90, 42380), (105, 42287), (124, 42218), (138, 42149), (151, 42095), (169, 42023), (180, 41987), (191, 41927), (229, 41702), (238, 41663), (242, 41636), (245, 41618), (249, 41597), (256, 41582), (279, 41540), (297, 41462), (301, 41450), (328, 41264), (329, 41258), (335, 41213), (349, 41129), (351, 41111), (368, 41054), (369, 41051), (371, 41039), (403, 40901), (404, 40895), (405,

40880), (407, 40874), (414, 40841), (431, 40763), (435, 40730), (469, 40589), (487, 40508), (489, 40502), (500, 40433), (511, 40370), (517, 40349), (531, 40304), (551, 40208), (552, 40199), (554, 40193), (575, 40091), (577, 40082), (581, 40070), (583, 40049), (593, 40019), (598, 39992), (625, 39926), (627, 39917), (630, 39905), (655, 39818), (701, 39650), (712, 39602), (738, 39491), (739, 39485), (767, 39353), (770, 39344), (775, 39317), (794, 39236), (818, 39104), (819, 39092),

Gene: CindyLou_210 Start: 113926, Stop: 117321, Start Num: 68
Candidate Starts for CindyLou_210:
(Start: 26 @113833 has 50 MA's), (Start: 28 @113839 has 6 MA's), (Start: 33 @113851 has 8 MA's), (38, 113860), (Start: 68 @113926 has 125 MA's), (83, 114001), (101, 114115), (109, 114139), (125, 114199), (145, 114310), (153, 114349), (159, 114373), (169, 114415), (196, 114514), (206, 114556), (207, 114562), (210, 114574), (218, 114637), (227, 114697), (228, 114700), (233, 114727), (240, 114769), (256, 114832), (302, 114988), (306, 115006), (309, 115021), (321, 115138), (327, 115177), (342, 115297), (348, 115339), (358, 115384), (360, 115393), (370, 115444), (381, 115486), (397, 115552), (399, 115561), (400, 115564), (401, 115570), (402, 115573), (403, 115582), (404, 115588), (405, 115603), (426, 115690), (445, 115795), (453, 115849), (467, 115936), (473, 115966), (480, 115996), (486, 116029), (488, 116038), (499, 116110), (505, 116140), (533, 116257), (541, 116302), (549, 116344), (579, 116488), (595, 116548), (632, 116650), (659, 116737), (660, 116740), (666, 116758), (676, 116794), (677, 116797), (698, 116857), (703, 116875), (724, 116971), (732, 117001), (736, 117019), (744, 117049), (765, 117142), (769, 117157), (785, 117238), (787, 117244), (789, 117256),

Gene: Cleatunium_202 Start: 112216, Stop: 115704, Start Num: 26
Candidate Starts for Cleatunium_202:
(Start: 26 @112216 has 50 MA's), (Start: 28 @112222 has 6 MA's), (Start: 33 @112234 has 8 MA's), (38, 112243), (Start: 68 @112309 has 125 MA's), (83, 112384), (101, 112498), (109, 112522), (125, 112582), (145, 112693), (153, 112732), (159, 112756), (169, 112798), (196, 112897), (206, 112939), (207, 112945), (210, 112957), (218, 113020), (227, 113080), (228, 113083), (233, 113110), (240, 113152), (256, 113215), (293, 113335), (302, 113371), (306, 113389), (309, 113404), (321, 113521), (327, 113560), (342, 113680), (348, 113722), (358, 113767), (360, 113776), (370, 113827), (381, 113869), (397, 113935), (399, 113944), (400, 113947), (401, 113953), (402, 113956), (403, 113965), (404, 113971), (405, 113986), (426, 114073), (445, 114178), (453, 114232), (467, 114319), (473, 114349), (480, 114379), (486, 114412), (488, 114421), (499, 114493), (505, 114523), (533, 114640), (541, 114685), (549, 114727), (579, 114871), (595, 114931), (632, 115033), (659, 115120), (660, 115123), (666, 115141), (676, 115177), (677, 115180), (698, 115240), (703, 115258), (724, 115354), (732, 115384), (736, 115402), (744, 115432), (765, 115525), (769, 115540), (785, 115621), (787, 115627), (789, 115639),

Gene: CoffeeBean_59 Start: 45708, Stop: 42292, Start Num: 72
Candidate Starts for CoffeeBean_59:
(Start: 72 @45708 has 108 MA's), (85, 45627), (Start: 88 @45612 has 7 MA's), (105, 45504), (107, 45498), (128, 45450), (142, 45369), (150, 45327), (202, 45117), (205, 45102), (207, 45093), (212, 45069), (214, 45039), (221, 45000), (234, 44919), (241, 44877), (272, 44742), (297, 44628), (309, 44577), (311, 44559), (314, 44550), (324, 44472), (326, 44457), (329, 44418), (335, 44379), (350, 44286), (361, 44235), (363, 44229), (371, 44190), (404, 44085), (405, 44070), (406, 44067), (429, 43953), (430, 43950), (433, 43920), (437, 43902), (438, 43899), (439, 43893), (441, 43890), (447, 43857), (452, 43836), (490, 43668), (503, 43590), (511, 43551), (512, 43548), (514, 43542), (519, 43524), (543, 43428), (548, 43410), (553, 43374), (571, 43302), (589, 43209), (591, 43197), (609, 43134), (625, 43077), (656, 42948), (665, 42918), (681, 42858), (682, 42855), (697, 42801), (714, 42711), (722, 42675), (734, 42630), (737, 42615), (747, 42573), (758, 42528), (771, 42474), (773, 42465), (774, 42453), (776, 42447), (778, 42429), (792, 42378), (793, 42375), (808, 42333),

Gene: Colt_200 Start: 115739, Stop: 119134, Start Num: 68

Candidate Starts for Colt_200:
(Start: 26 @115646 has 50 MA's), (Start: 28 @115652 has 6 MA's), (Start: 33 @115664 has 8 MA's), (38, 115673), (Start: 68 @115739 has 125 MA's), (83, 115814), (101, 115928), (109, 115952), (125, 116012), (145, 116123), (153, 116162), (159, 116186), (169, 116228), (196, 116327), (206, 116369), (207, 116375), (210, 116387), (218, 116450), (227, 116510), (228, 116513), (233, 116540), (240, 116582), (256, 116645), (302, 116801), (306, 116819), (309, 116834), (321, 116951), (327, 116990), (342, 117110), (348, 117152), (358, 117197), (360, 117206), (370, 117257), (381, 117299), (397, 117365), (399, 117374), (400, 117377), (401, 117383), (402, 117386), (403, 117395), (404, 117401), (405, 117416), (426, 117503), (445, 117608), (453, 117662), (467, 117749), (473, 117779), (480, 117809), (486, 117842), (488, 117851), (499, 117923), (505, 117953), (533, 118070), (541, 118115), (549, 118157), (579, 118301), (595, 118361), (632, 118463), (659, 118550), (660, 118553), (666, 118571), (676, 118607), (677, 118610), (698, 118670), (703, 118688), (724, 118784), (732, 118814), (736, 118832), (744, 118862), (765, 118955), (769, 118970), (787, 119057), (789, 119069), (804, 119108),

Gene: Commandaria_61 Start: 49218, Stop: 45910, Start Num: 72
Candidate Starts for Commandaria_61:
(Start: 72 @49218 has 108 MA's), (84, 49146), (85, 49137), (Start: 88 @49122 has 7 MA's), (92, 49077), (126, 48969), (128, 48960), (150, 48837), (190, 48678), (192, 48672), (197, 48648), (212, 48579), (215, 48540), (234, 48429), (269, 48303), (306, 48132), (311, 48099), (314, 48090), (324, 48012), (326, 47997), (335, 47919), (346, 47859), (349, 47835), (350, 47826), (396, 47661), (429, 47493), (433, 47460), (434, 47454), (437, 47442), (442, 47424), (452, 47379), (502, 47139), (512, 47094), (514, 47088), (519, 47070), (543, 46974), (548, 46956), (553, 46920), (616, 46692), (619, 46680), (631, 46635), (647, 46560), (677, 46476), (706, 46374), (714, 46326), (737, 46230), (738, 46227), (744, 46203), (774, 46068), (777, 46056), (796, 45987), (808, 45951),

Gene: Concombre_214 Start: 115529, Stop: 118924, Start Num: 68
Candidate Starts for Concombre_214:
(Start: 26 @115436 has 50 MA's), (Start: 28 @115442 has 6 MA's), (Start: 33 @115454 has 8 MA's), (38, 115463), (Start: 68 @115529 has 125 MA's), (83, 115604), (101, 115718), (109, 115742), (125, 115802), (145, 115913), (153, 115952), (159, 115976), (169, 116018), (196, 116117), (206, 116159), (207, 116165), (210, 116177), (218, 116240), (227, 116300), (228, 116303), (233, 116330), (240, 116372), (256, 116435), (302, 116591), (306, 116609), (309, 116624), (321, 116741), (327, 116780), (342, 116900), (348, 116942), (358, 116987), (360, 116996), (370, 117047), (381, 117089), (397, 117155), (399, 117164), (400, 117167), (401, 117173), (402, 117176), (403, 117185), (404, 117191), (405, 117206), (426, 117293), (445, 117398), (453, 117452), (467, 117539), (473, 117569), (480, 117599), (486, 117632), (488, 117641), (499, 117713), (505, 117743), (533, 117860), (541, 117905), (549, 117947), (579, 118091), (595, 118151), (632, 118253), (659, 118340), (660, 118343), (666, 118361), (676, 118397), (677, 118400), (698, 118460), (703, 118478), (724, 118574), (732, 118604), (736, 118622), (744, 118652), (765, 118745), (769, 118760), (785, 118841), (787, 118847), (789, 118859),

Gene: Cruella_43 Start: 41952, Stop: 38659, Start Num: 72
Candidate Starts for Cruella_43:
(Start: 72 @41952 has 108 MA's), (80, 41895), (85, 41871), (Start: 88 @41856 has 7 MA's), (89, 41847), (128, 41700), (177, 41418), (190, 41340), (205, 41274), (244, 41031), (276, 40926), (297, 40824), (308, 40776), (324, 40671), (326, 40656), (337, 40560), (384, 40341), (385, 40338), (393, 40323), (402, 40293), (405, 40263), (429, 40146), (433, 40113), (439, 40086), (445, 40062), (479, 39915), (480, 39909), (487, 39873), (490, 39861), (493, 39840), (510, 39765), (512, 39747), (553, 39570), (564, 39540), (567, 39513), (571, 39498), (604, 39369), (637, 39336), (667, 39249), (704, 39135), (706, 39129), (708, 39117), (741, 38967), (742, 38964), (744, 38958), (748, 38940), (749, 38931), (777, 38811), (779, 38787), (789, 38751), (792, 38745),

Gene: DTDevon_211 Start: 114322, Stop: 117810, Start Num: 26
Candidate Starts for DTDevon_211:
(Start: 26 @114322 has 50 MA's), (Start: 28 @114328 has 6 MA's), (Start: 33 @114340 has 8 MA's), (38, 114349), (Start: 68 @114415 has 125 MA's), (83, 114490), (101, 114604), (109, 114628), (125, 114688), (145, 114799), (153, 114838), (159, 114862), (169, 114904), (196, 115003), (206, 115045), (207, 115051), (210, 115063), (218, 115126), (227, 115186), (228, 115189), (233, 115216), (240, 115258), (256, 115321), (302, 115477), (306, 115495), (309, 115510), (321, 115627), (327, 115666), (342, 115786), (348, 115828), (358, 115873), (360, 115882), (370, 115933), (381, 115975), (397, 116041), (399, 116050), (400, 116053), (401, 116059), (402, 116062), (403, 116071), (404, 116077), (405, 116092), (426, 116179), (445, 116284), (453, 116338), (467, 116425), (473, 116455), (480, 116485), (486, 116518), (488, 116527), (499, 116599), (505, 116629), (533, 116746), (541, 116791), (549, 116833), (579, 116977), (595, 117037), (632, 117139), (659, 117226), (660, 117229), (666, 117247), (676, 117283), (677, 117286), (698, 117346), (703, 117364), (724, 117460), (732, 117490), (736, 117508), (744, 117538), (765, 117631), (769, 117646), (785, 117727), (787, 117733), (789, 117745),

Gene: Daffodil_214 Start: 113287, Stop: 116775, Start Num: 26
Candidate Starts for Daffodil_214:
(Start: 26 @113287 has 50 MA's), (Start: 28 @113293 has 6 MA's), (Start: 33 @113305 has 8 MA's), (38, 113314), (Start: 68 @113380 has 125 MA's), (83, 113455), (101, 113569), (109, 113593), (125, 113653), (145, 113764), (153, 113803), (159, 113827), (169, 113869), (196, 113968), (206, 114010), (207, 114016), (210, 114028), (218, 114091), (227, 114151), (228, 114154), (233, 114181), (240, 114223), (256, 114286), (293, 114406), (302, 114442), (306, 114460), (309, 114475), (321, 114592), (327, 114631), (342, 114751), (348, 114793), (358, 114838), (360, 114847), (370, 114898), (381, 114940), (397, 115006), (399, 115015), (400, 115018), (401, 115024), (402, 115027), (403, 115036), (404, 115042), (405, 115057), (426, 115144), (445, 115249), (453, 115303), (467, 115390), (473, 115420), (480, 115450), (486, 115483), (488, 115492), (499, 115564), (505, 115594), (533, 115711), (541, 115756), (549, 115798), (579, 115942), (595, 116002), (632, 116104), (659, 116191), (660, 116194), (666, 116212), (676, 116248), (677, 116251), (698, 116311), (703, 116329), (724, 116425), (732, 116455), (736, 116473), (744, 116503), (765, 116596), (769, 116611), (785, 116692), (787, 116698), (789, 116710),

Gene: DalanDe_85 Start: 69803, Stop: 72664, Start Num: 57
Candidate Starts for DalanDe_85:
(Start: 57 @69803 has 3 MA's), (83, 69899), (87, 69923), (91, 69962), (92, 69974), (94, 69980), (96, 69986), (105, 70037), (115, 70064), (146, 70223), (169, 70319), (172, 70334), (185, 70370), (186, 70376), (194, 70424), (199, 70442), (200, 70445), (208, 70487), (217, 70547), (219, 70556), (226, 70604), (235, 70646), (237, 70658), (252, 70733), (302, 70895), (308, 70925), (309, 70928), (321, 71003), (323, 71018), (331, 71093), (336, 71126), (344, 71177), (372, 71324), (378, 71348), (396, 71435), (401, 71456), (407, 71495), (415, 71537), (426, 71579), (427, 71588), (431, 71612), (433, 71636), (434, 71642), (435, 71645), (459, 71729), (475, 71804), (481, 71834), (485, 71852), (487, 71864), (507, 71972), (514, 72008), (518, 72026), (520, 72032), (546, 72140), (575, 72287), (577, 72296), (598, 72383), (604, 72401), (619, 72431), (620, 72434), (627, 72464), (635, 72491), (641, 72515), (656, 72551), (662, 72572), (686, 72641), (692, 72659),

Gene: Dalilpop_64 Start: 50147, Stop: 46866, Start Num: 72
Candidate Starts for Dalilpop_64:
(10, 50339), (Start: 69 @50153 has 55 MA's), (Start: 72 @50147 has 108 MA's), (85, 50066), (Start: 88 @50051 has 7 MA's), (92, 50006), (126, 49895), (128, 49886), (139, 49820), (150, 49763), (186, 49637), (192, 49598), (197, 49574), (203, 49547), (207, 49529), (209, 49520), (215, 49466), (255, 49253), (269, 49229), (324, 48935), (326, 48920), (384, 48602), (396, 48578), (406, 48521), (429, 48410), (430, 48407), (442, 48341), (446, 48326), (494, 48107), (502, 48059), (511, 48017), (512, 48014), (514, 48008), (519, 47990), (543, 47894), (548, 47876), (553, 47840), (589, 47675), (595,

47645), (607, 47615), (646, 47528), (647, 47522), (677, 47435), (697, 47375), (706, 47333), (737, 47189), (738, 47186), (744, 47162), (796, 46946), (808, 46910), (814, 46880),

Gene: Damien_77 Start: 55598, Stop: 58798, Start Num: 88
Candidate Starts for Damien_77:
(Start: 55 @55472 has 2 MA's), (66, 55493), (Start: 72 @55502 has 108 MA's), (84, 55574), (Start: 88 @55598 has 7 MA's), (91, 55631), (128, 55766), (144, 55856), (145, 55859), (148, 55877), (173, 55985), (214, 56177), (259, 56411), (275, 56468), (295, 56567), (303, 56594), (308, 56621), (309, 56624), (321, 56702), (326, 56747), (329, 56786), (334, 56828), (347, 56906), (350, 56924), (353, 56942), (357, 56954), (373, 57029), (406, 57185), (423, 57269), (434, 57347), (440, 57368), (442, 57377), (443, 57383), (446, 57392), (461, 57464), (464, 57479), (471, 57518), (475, 57530), (493, 57623), (494, 57629), (503, 57677), (512, 57719), (550, 57869), (551, 57881), (571, 57965), (597, 58106), (639, 58211), (700, 58310), (703, 58319), (718, 58397), (727, 58436), (730, 58451), (741, 58499), (763, 58595), (768, 58613), (774, 58640), (783, 58688), (793, 58718), (795, 58721), (799, 58736), (809, 58766), (811, 58775), (812, 58781), (813, 58784),

Gene: Dandelion_217 Start: 116920, Stop: 120408, Start Num: 26
Candidate Starts for Dandelion_217:
(Start: 26 @116920 has 50 MA's), (Start: 28 @116926 has 6 MA's), (Start: 33 @116938 has 8 MA's), (38, 116947), (Start: 68 @117013 has 125 MA's), (83, 117088), (101, 117202), (109, 117226), (125, 117286), (145, 117397), (153, 117436), (159, 117460), (169, 117502), (170, 117508), (196, 117601), (206, 117643), (207, 117649), (210, 117661), (218, 117724), (227, 117784), (228, 117787), (233, 117814), (240, 117856), (256, 117919), (302, 118075), (306, 118093), (309, 118108), (321, 118225), (327, 118264), (342, 118384), (348, 118426), (358, 118471), (360, 118480), (370, 118531), (381, 118573), (397, 118639), (399, 118648), (400, 118651), (401, 118657), (402, 118660), (403, 118669), (404, 118675), (405, 118690), (426, 118777), (445, 118882), (453, 118936), (467, 119023), (473, 119053), (480, 119083), (486, 119116), (488, 119125), (499, 119197), (505, 119227), (533, 119344), (541, 119389), (549, 119431), (579, 119575), (595, 119635), (632, 119737), (659, 119824), (660, 119827), (666, 119845), (676, 119881), (677, 119884), (698, 119944), (703, 119962), (724, 120058), (732, 120088), (736, 120106), (744, 120136), (765, 120229), (769, 120244), (785, 120325), (787, 120331), (789, 120343),

Gene: Danzina_56 Start: 41718, Stop: 38236, Start Num: 69
Candidate Starts for Danzina_56:
(34, 41802), (64, 41733), (Start: 69 @41718 has 55 MA's), (83, 41643), (84, 41640), (Start: 88 @41616 has 7 MA's), (91, 41583), (102, 41526), (105, 41508), (124, 41439), (138, 41370), (151, 41316), (169, 41244), (180, 41208), (191, 41148), (209, 41070), (229, 40923), (238, 40884), (242, 40857), (245, 40839), (249, 40818), (256, 40803), (297, 40683), (301, 40671), (328, 40485), (329, 40479), (335, 40434), (349, 40350), (351, 40332), (368, 40275), (369, 40272), (371, 40260), (403, 40122), (404, 40116), (405, 40101), (407, 40095), (414, 40062), (431, 39984), (435, 39951), (469, 39810), (475, 39789), (487, 39729), (489, 39723), (500, 39654), (511, 39591), (517, 39570), (531, 39525), (541, 39486), (551, 39429), (552, 39420), (575, 39312), (581, 39291), (583, 39270), (593, 39240), (598, 39213), (625, 39147), (627, 39138), (630, 39126), (655, 39039), (701, 38871), (712, 38823), (731, 38739), (738, 38712), (767, 38574), (770, 38565), (775, 38538), (784, 38490), (786, 38484), (791, 38463), (794, 38457), (817, 38352), (819, 38313), (822, 38250),

Gene: Darko_208 Start: 112614, Stop: 116009, Start Num: 68
Candidate Starts for Darko_208:
(Start: 26 @112521 has 50 MA's), (Start: 28 @112527 has 6 MA's), (Start: 33 @112539 has 8 MA's), (38, 112548), (Start: 68 @112614 has 125 MA's), (83, 112689), (101, 112803), (109, 112827), (125, 112887), (145, 112998), (153, 113037), (159, 113061), (169, 113103), (196, 113202), (206, 113244), (207, 113250), (210, 113262), (218, 113325), (227, 113385), (228, 113388), (233, 113415), (240, 113457), (256, 113520), (302, 113676), (306, 113694), (309, 113709), (321, 113826), (327, 113865),

(342, 113985), (348, 114027), (358, 114072), (360, 114081), (370, 114132), (381, 114174), (397, 114240), (399, 114249), (400, 114252), (401, 114258), (402, 114261), (403, 114270), (404, 114276), (405, 114291), (426, 114378), (445, 114483), (453, 114537), (467, 114624), (473, 114654), (480, 114684), (486, 114717), (488, 114726), (499, 114798), (505, 114828), (533, 114945), (541, 114990), (549, 115032), (579, 115176), (595, 115236), (632, 115338), (659, 115425), (660, 115428), (666, 115446), (676, 115482), (677, 115485), (698, 115545), (703, 115563), (724, 115659), (732, 115689), (736, 115707), (744, 115737), (765, 115830), (769, 115845), (785, 115926), (787, 115932), (789, 115944),

Gene: Darwin_47 Start: 41830, Stop: 38537, Start Num: 72
Candidate Starts for Darwin_47:
(Start: 72 @41830 has 108 MA's), (80, 41773), (85, 41749), (Start: 88 @41734 has 7 MA's), (89, 41725), (128, 41578), (148, 41458), (177, 41296), (190, 41218), (244, 40909), (276, 40804), (297, 40702), (308, 40654), (326, 40534), (337, 40438), (384, 40219), (385, 40216), (393, 40201), (402, 40171), (405, 40141), (429, 40024), (433, 39991), (439, 39964), (445, 39940), (472, 39835), (479, 39793), (490, 39739), (493, 39718), (510, 39643), (512, 39625), (546, 39493), (553, 39448), (564, 39418), (567, 39391), (571, 39376), (604, 39247), (637, 39214), (667, 39127), (678, 39100), (704, 39013), (706, 39007), (708, 38995), (741, 38845), (742, 38842), (744, 38836), (748, 38818), (749, 38809), (753, 38791), (777, 38689), (779, 38665), (789, 38629), (792, 38623), (808, 38578),

Gene: Dattran_57 Start: 41879, Stop: 38400, Start Num: 69
Candidate Starts for Dattran_57:
(Start: 42 @41948 has 1 MA's), (Start: 69 @41879 has 55 MA's), (Start: 81 @41816 has 2 MA's), (83, 41807), (90, 41765), (105, 41672), (124, 41603), (138, 41534), (151, 41480), (169, 41408), (180, 41372), (191, 41312), (209, 41234), (229, 41087), (238, 41048), (242, 41021), (245, 41003), (249, 40982), (256, 40967), (297, 40847), (301, 40835), (328, 40649), (329, 40643), (335, 40598), (349, 40514), (351, 40496), (368, 40439), (369, 40436), (371, 40424), (403, 40286), (404, 40280), (405, 40265), (407, 40259), (414, 40226), (431, 40148), (435, 40115), (469, 39974), (487, 39893), (489, 39887), (500, 39818), (511, 39755), (517, 39734), (531, 39689), (541, 39650), (551, 39593), (552, 39584), (575, 39476), (581, 39455), (583, 39434), (593, 39404), (598, 39377), (625, 39311), (627, 39302), (630, 39290), (655, 39203), (662, 39179), (701, 39035), (712, 38987), (731, 38903), (738, 38876), (767, 38738), (770, 38729), (775, 38702), (784, 38654), (786, 38648), (791, 38627), (794, 38621), (817, 38516), (818, 38489), (819, 38477), (822, 38414),

Gene: DaviePasture_79 Start: 51941, Stop: 55282, Start Num: 72
Candidate Starts for DaviePasture_79:
(47, 51893), (Start: 72 @51941 has 108 MA's), (Start: 81 @52001 has 2 MA's), (Start: 88 @52037 has 7 MA's), (92, 52082), (101, 52124), (162, 52385), (190, 52487), (198, 52520), (214, 52616), (263, 52886), (264, 52895), (289, 53003), (296, 53048), (306, 53090), (326, 53222), (327, 53225), (328, 53255), (342, 53345), (350, 53399), (372, 53498), (376, 53513), (393, 53555), (429, 53729), (433, 53762), (437, 53780), (438, 53783), (442, 53798), (452, 53843), (453, 53846), (479, 53942), (487, 53984), (490, 53996), (495, 54032), (538, 54212), (548, 54254), (553, 54290), (566, 54344), (571, 54362), (589, 54458), (591, 54470), (673, 54659), (704, 54749), (724, 54854), (728, 54869), (736, 54905), (739, 54917), (740, 54923), (741, 54926), (748, 54953), (759, 54998), (779, 55106), (795, 55151), (801, 55175), (812, 55211),

Gene: DeejaClivia_197 Start: 111749, Stop: 115144, Start Num: 68
Candidate Starts for DeejaClivia_197:
(Start: 26 @111656 has 50 MA's), (Start: 28 @111662 has 6 MA's), (Start: 33 @111674 has 8 MA's), (38, 111683), (Start: 68 @111749 has 125 MA's), (83, 111824), (101, 111938), (109, 111962), (125, 112022), (145, 112133), (153, 112172), (159, 112196), (169, 112238), (196, 112337), (206, 112379), (207, 112385), (210, 112397), (218, 112460), (227, 112520), (228, 112523), (233, 112550), (240, 112592), (256, 112655), (293, 112775), (302, 112811), (306, 112829), (309, 112844), (321, 112961),

(327, 113000), (342, 113120), (348, 113162), (358, 113207), (360, 113216), (370, 113267), (381, 113309), (397, 113375), (399, 113384), (400, 113387), (401, 113393), (402, 113396), (403, 113405), (404, 113411), (405, 113426), (426, 113513), (445, 113618), (453, 113672), (467, 113759), (473, 113789), (480, 113819), (486, 113852), (488, 113861), (499, 113933), (505, 113963), (533, 114080), (541, 114125), (549, 114167), (579, 114311), (595, 114371), (632, 114473), (659, 114560), (660, 114563), (666, 114581), (676, 114617), (677, 114620), (698, 114680), (703, 114698), (724, 114794), (732, 114824), (736, 114842), (744, 114872), (765, 114965), (769, 114980), (785, 115061), (787, 115067), (789, 115079),

Gene: Delilah_207 Start: 113498, Stop: 116893, Start Num: 68
Candidate Starts for Delilah_207:
(Start: 26 @113405 has 50 MA's), (Start: 28 @113411 has 6 MA's), (Start: 33 @113423 has 8 MA's), (38, 113432), (Start: 68 @113498 has 125 MA's), (83, 113573), (101, 113687), (109, 113711), (125, 113771), (145, 113882), (153, 113921), (159, 113945), (169, 113987), (196, 114086), (206, 114128), (207, 114134), (210, 114146), (218, 114209), (227, 114269), (228, 114272), (233, 114299), (240, 114341), (256, 114404), (293, 114524), (302, 114560), (306, 114578), (309, 114593), (321, 114710), (327, 114749), (342, 114869), (348, 114911), (358, 114956), (360, 114965), (370, 115016), (381, 115058), (397, 115124), (399, 115133), (400, 115136), (401, 115142), (402, 115145), (403, 115154), (404, 115160), (405, 115175), (426, 115262), (445, 115367), (453, 115421), (467, 115508), (473, 115538), (480, 115568), (486, 115601), (488, 115610), (499, 115682), (505, 115712), (533, 115829), (541, 115874), (549, 115916), (579, 116060), (595, 116120), (632, 116222), (659, 116309), (660, 116312), (666, 116330), (676, 116366), (677, 116369), (698, 116429), (703, 116447), (724, 116543), (732, 116573), (736, 116591), (744, 116621), (765, 116714), (769, 116729), (785, 116810), (787, 116816), (789, 116828),

Gene: Delton_67 Start: 50148, Stop: 53450, Start Num: 25
Candidate Starts for Delton_67:
(Start: 25 @50148 has 21 MA's), (Start: 61 @50235 has 1 MA's), (Start: 65 @50241 has 3 MA's), (Start: 72 @50250 has 108 MA's), (Start: 88 @50346 has 7 MA's), (128, 50502), (143, 50589), (144, 50592), (156, 50643), (214, 50907), (221, 50946), (232, 51018), (234, 51027), (247, 51102), (266, 51168), (269, 51174), (283, 51228), (289, 51246), (297, 51297), (298, 51300), (305, 51330), (319, 51414), (320, 51423), (324, 51450), (326, 51465), (350, 51642), (351, 51651), (376, 51756), (403, 51837), (413, 51897), (429, 51972), (433, 52005), (434, 52011), (440, 52032), (442, 52041), (452, 52086), (471, 52155), (476, 52170), (490, 52239), (501, 52302), (509, 52335), (510, 52338), (521, 52389), (540, 52464), (566, 52587), (571, 52605), (587, 52683), (589, 52686), (591, 52698), (601, 52743), (610, 52764), (613, 52776), (622, 52806), (627, 52827), (687, 52899), (704, 52956), (723, 53055), (739, 53121), (761, 53211), (767, 53241), (768, 53244), (774, 53274), (782, 53319), (796, 53361), (806, 53391), (809, 53403), (812, 53418), (814, 53427),

Gene: Delylah_211 Start: 113694, Stop: 117182, Start Num: 26
Candidate Starts for Delylah_211:
(Start: 26 @113694 has 50 MA's), (Start: 28 @113700 has 6 MA's), (Start: 33 @113712 has 8 MA's), (38, 113721), (Start: 68 @113787 has 125 MA's), (83, 113862), (101, 113976), (109, 114000), (125, 114060), (145, 114171), (153, 114210), (159, 114234), (169, 114276), (196, 114375), (206, 114417), (207, 114423), (210, 114435), (218, 114498), (227, 114558), (228, 114561), (233, 114588), (240, 114630), (256, 114693), (302, 114849), (306, 114867), (309, 114882), (321, 114999), (327, 115038), (342, 115158), (348, 115200), (358, 115245), (360, 115254), (370, 115305), (381, 115347), (397, 115413), (399, 115422), (400, 115425), (401, 115431), (402, 115434), (403, 115443), (404, 115449), (405, 115464), (426, 115551), (445, 115656), (453, 115710), (467, 115797), (473, 115827), (480, 115857), (486, 115890), (488, 115899), (499, 115971), (505, 116001), (533, 116118), (541, 116163), (549, 116205), (579, 116349), (595, 116409), (632, 116511), (659, 116598), (660, 116601), (666, 116619), (676, 116655), (677, 116658), (698, 116718), (703, 116736), (724, 116832), (732, 116862), (736, 116880), (744, 116910), (765, 117003), (769, 117018), (785, 117099), (787, 117105), (789,

117117),

Gene: Demikore_92 Start: 57551, Stop: 60811, Start Num: 57
Candidate Starts for Demikore_92:
(Start: 57 @57551 has 3 MA's), (Start: 72 @57578 has 108 MA's), (Start: 88 @57674 has 7 MA's), (128, 57839), (149, 57953), (160, 57998), (167, 58037), (186, 58088), (214, 58253), (321, 58751), (326, 58796), (329, 58835), (365, 59039), (403, 59180), (411, 59231), (429, 59327), (431, 59336), (433, 59360), (434, 59366), (442, 59396), (443, 59402), (446, 59411), (471, 59534), (472, 59537), (475, 59546), (484, 59588), (487, 59606), (512, 59738), (571, 59984), (600, 60134), (624, 60191), (639, 60233), (670, 60257), (704, 60326), (739, 60494), (761, 60584), (774, 60656), (792, 60731),

Gene: Demodog_215 Start: 115539, Stop: 118934, Start Num: 68
Candidate Starts for Demodog_215:
(Start: 26 @115446 has 50 MA's), (Start: 28 @115452 has 6 MA's), (Start: 33 @115464 has 8 MA's), (38, 115473), (Start: 68 @115539 has 125 MA's), (83, 115614), (101, 115728), (109, 115752), (125, 115812), (145, 115923), (153, 115962), (159, 115986), (169, 116028), (196, 116127), (206, 116169), (207, 116175), (210, 116187), (218, 116250), (227, 116310), (228, 116313), (233, 116340), (240, 116382), (256, 116445), (302, 116601), (306, 116619), (309, 116634), (321, 116751), (327, 116790), (342, 116910), (348, 116952), (358, 116997), (360, 117006), (370, 117057), (381, 117099), (397, 117165), (399, 117174), (400, 117177), (401, 117183), (402, 117186), (403, 117195), (404, 117201), (405, 117216), (426, 117303), (445, 117408), (453, 117462), (467, 117549), (473, 117579), (480, 117609), (486, 117642), (488, 117651), (499, 117723), (505, 117753), (533, 117870), (541, 117915), (549, 117957), (579, 118101), (595, 118161), (632, 118263), (659, 118350), (660, 118353), (666, 118371), (676, 118407), (677, 118410), (698, 118470), (703, 118488), (724, 118584), (732, 118614), (736, 118632), (744, 118662), (765, 118755), (769, 118770), (785, 118851), (787, 118857), (789, 118869),

Gene: Derek_206 Start: 112850, Stop: 116338, Start Num: 26
Candidate Starts for Derek_206:
(Start: 26 @112850 has 50 MA's), (Start: 28 @112856 has 6 MA's), (Start: 33 @112868 has 8 MA's), (38, 112877), (Start: 68 @112943 has 125 MA's), (83, 113018), (101, 113132), (109, 113156), (125, 113216), (145, 113327), (153, 113366), (159, 113390), (169, 113432), (196, 113531), (206, 113573), (207, 113579), (210, 113591), (218, 113654), (227, 113714), (228, 113717), (233, 113744), (240, 113786), (256, 113849), (302, 114005), (306, 114023), (309, 114038), (321, 114155), (327, 114194), (342, 114314), (348, 114356), (358, 114401), (360, 114410), (370, 114461), (381, 114503), (397, 114569), (399, 114578), (400, 114581), (401, 114587), (402, 114590), (403, 114599), (404, 114605), (405, 114620), (426, 114707), (445, 114812), (453, 114866), (467, 114953), (473, 114983), (480, 115013), (486, 115046), (488, 115055), (499, 115127), (505, 115157), (533, 115274), (541, 115319), (549, 115361), (579, 115505), (595, 115565), (632, 115667), (659, 115754), (660, 115757), (666, 115775), (676, 115811), (677, 115814), (698, 115874), (703, 115892), (724, 115988), (732, 116018), (736, 116036), (744, 116066), (765, 116159), (769, 116174), (785, 116255), (787, 116261), (789, 116273),

Gene: Dessert_209 Start: 111850, Stop: 115338, Start Num: 26
Candidate Starts for Dessert_209:
(Start: 26 @111850 has 50 MA's), (Start: 28 @111856 has 6 MA's), (Start: 33 @111868 has 8 MA's), (38, 111877), (Start: 68 @111943 has 125 MA's), (83, 112018), (101, 112132), (109, 112156), (125, 112216), (145, 112327), (153, 112366), (159, 112390), (169, 112432), (196, 112531), (206, 112573), (207, 112579), (210, 112591), (218, 112654), (227, 112714), (228, 112717), (233, 112744), (240, 112786), (256, 112849), (293, 112969), (302, 113005), (306, 113023), (309, 113038), (321, 113155), (327, 113194), (342, 113314), (348, 113356), (358, 113401), (360, 113410), (370, 113461), (381, 113503), (397, 113569), (399, 113578), (400, 113581), (401, 113587), (402, 113590), (403, 113599), (404, 113605), (405, 113620), (426, 113707), (445, 113812), (453, 113866), (467, 113953), (473,

113983), (480, 114013), (486, 114046), (488, 114055), (499, 114127), (505, 114157), (533, 114274), (541, 114319), (549, 114361), (579, 114505), (595, 114565), (632, 114667), (659, 114754), (660, 114757), (666, 114775), (676, 114811), (677, 114814), (698, 114874), (703, 114892), (724, 114988), (732, 115018), (736, 115036), (744, 115066), (765, 115159), (769, 115174), (785, 115255), (787, 115261), (789, 115273),

Gene: Dietrick_198 Start: 111544, Stop: 115014, Start Num: 33
Candidate Starts for Dietrick_198:
(Start: 26 @111526 has 50 MA's), (Start: 28 @111532 has 6 MA's), (Start: 33 @111544 has 8 MA's), (38, 111553), (Start: 68 @111619 has 125 MA's), (83, 111694), (101, 111808), (109, 111832), (125, 111892), (145, 112003), (153, 112042), (159, 112066), (169, 112108), (196, 112207), (206, 112249), (207, 112255), (210, 112267), (218, 112330), (227, 112390), (228, 112393), (233, 112420), (240, 112462), (256, 112525), (293, 112645), (302, 112681), (306, 112699), (309, 112714), (321, 112831), (327, 112870), (342, 112990), (348, 113032), (358, 113077), (360, 113086), (370, 113137), (381, 113179), (397, 113245), (399, 113254), (400, 113257), (401, 113263), (402, 113266), (403, 113275), (404, 113281), (405, 113296), (426, 113383), (445, 113488), (453, 113542), (467, 113629), (473, 113659), (480, 113689), (486, 113722), (488, 113731), (499, 113803), (505, 113833), (533, 113950), (541, 113995), (549, 114037), (579, 114181), (595, 114241), (632, 114343), (659, 114430), (660, 114433), (666, 114451), (676, 114487), (677, 114490), (698, 114550), (703, 114568), (724, 114664), (732, 114694), (736, 114712), (744, 114742), (765, 114835), (769, 114850), (785, 114931), (787, 114937), (789, 114949),

Gene: DirtMonster_202 Start: 112859, Stop: 116254, Start Num: 68
Candidate Starts for DirtMonster_202:
(Start: 26 @112766 has 50 MA's), (Start: 28 @112772 has 6 MA's), (Start: 33 @112784 has 8 MA's), (38, 112793), (Start: 68 @112859 has 125 MA's), (83, 112934), (101, 113048), (109, 113072), (125, 113132), (145, 113243), (153, 113282), (159, 113306), (169, 113348), (196, 113447), (206, 113489), (207, 113495), (210, 113507), (218, 113570), (227, 113630), (228, 113633), (233, 113660), (240, 113702), (256, 113765), (302, 113921), (306, 113939), (309, 113954), (321, 114071), (327, 114110), (342, 114230), (348, 114272), (358, 114317), (360, 114326), (370, 114377), (381, 114419), (397, 114485), (399, 114494), (400, 114497), (401, 114503), (402, 114506), (403, 114515), (404, 114521), (405, 114536), (426, 114623), (445, 114728), (453, 114782), (467, 114869), (473, 114899), (480, 114929), (486, 114962), (488, 114971), (499, 115043), (505, 115073), (533, 115190), (541, 115235), (549, 115277), (579, 115421), (595, 115481), (632, 115583), (659, 115670), (660, 115673), (666, 115691), (676, 115727), (677, 115730), (698, 115790), (703, 115808), (724, 115904), (732, 115934), (736, 115952), (744, 115982), (765, 116075), (769, 116090), (785, 116171), (787, 116177), (789, 116189),

Gene: Domi_203 Start: 112970, Stop: 116365, Start Num: 68
Candidate Starts for Domi_203:
(Start: 26 @112877 has 50 MA's), (Start: 28 @112883 has 6 MA's), (Start: 33 @112895 has 8 MA's), (38, 112904), (Start: 68 @112970 has 125 MA's), (83, 113045), (101, 113159), (109, 113183), (125, 113243), (145, 113354), (153, 113393), (159, 113417), (169, 113459), (196, 113558), (206, 113600), (207, 113606), (210, 113618), (218, 113681), (227, 113741), (228, 113744), (233, 113771), (240, 113813), (256, 113876), (302, 114032), (306, 114050), (309, 114065), (321, 114182), (327, 114221), (342, 114341), (348, 114383), (358, 114428), (360, 114437), (370, 114488), (381, 114530), (397, 114596), (399, 114605), (400, 114608), (401, 114614), (402, 114617), (403, 114626), (404, 114632), (405, 114647), (426, 114734), (445, 114839), (453, 114893), (467, 114980), (473, 115010), (480, 115040), (486, 115073), (488, 115082), (499, 115154), (505, 115184), (533, 115301), (541, 115346), (549, 115388), (579, 115532), (595, 115592), (632, 115694), (659, 115781), (660, 115784), (666, 115802), (676, 115838), (677, 115841), (698, 115901), (703, 115919), (724, 116015), (732, 116045), (736, 116063), (744, 116093), (765, 116186), (769, 116201), (785, 116282), (787, 116288), (789, 116300),

Gene: DoobyDoo_78 Start: 50921, Stop: 54166, Start Num: 88
Candidate Starts for DoobyDoo_78:
(Start: 81 @50885 has 2 MA's), (Start: 88 @50921 has 7 MA's), (92, 50966), (101, 51008), (162, 51269), (190, 51371), (198, 51404), (214, 51500), (263, 51770), (264, 51779), (289, 51887), (296, 51932), (306, 51974), (326, 52106), (327, 52109), (328, 52139), (331, 52160), (342, 52229), (350, 52283), (372, 52382), (376, 52397), (393, 52439), (429, 52613), (433, 52646), (437, 52664), (442, 52682), (452, 52727), (453, 52730), (479, 52826), (487, 52868), (490, 52880), (495, 52916), (538, 53096), (548, 53138), (553, 53174), (566, 53228), (571, 53246), (589, 53342), (591, 53354), (675, 53549), (704, 53633), (720, 53714), (724, 53738), (728, 53753), (736, 53789), (739, 53801), (740, 53807), (741, 53810), (748, 53837), (759, 53882), (779, 53990), (795, 54035), (801, 54059), (812, 54095),

Gene: DrLupo_85 Start: 55971, Stop: 59333, Start Num: 57
Candidate Starts for DrLupo_85:
(Start: 57 @55971 has 3 MA's), (Start: 72 @55998 has 108 MA's), (80, 56055), (Start: 88 @56094 has 7 MA's), (128, 56262), (135, 56298), (138, 56313), (150, 56379), (159, 56418), (160, 56421), (171, 56472), (186, 56505), (190, 56538), (199, 56574), (207, 56613), (215, 56676), (216, 56679), (228, 56760), (234, 56790), (261, 56913), (289, 56985), (293, 57018), (318, 57150), (326, 57210), (327, 57213), (342, 57333), (343, 57342), (364, 57447), (391, 57555), (392, 57561), (423, 57717), (428, 57750), (429, 57756), (431, 57765), (433, 57789), (436, 57804), (437, 57807), (442, 57825), (443, 57831), (450, 57882), (456, 57921), (457, 57951), (466, 57987), (471, 58017), (480, 58053), (503, 58179), (512, 58221), (517, 58239), (523, 58263), (532, 58296), (571, 58470), (611, 58650), (612, 58656), (619, 58677), (639, 58737), (689, 58794), (710, 58887), (740, 59031), (757, 59100), (763, 59130), (796, 59259), (813, 59319),

Gene: DrPhinkDaddy_206 Start: 114158, Stop: 117553, Start Num: 68
Candidate Starts for DrPhinkDaddy_206:
(Start: 26 @114065 has 50 MA's), (Start: 28 @114071 has 6 MA's), (Start: 33 @114083 has 8 MA's), (38, 114092), (Start: 68 @114158 has 125 MA's), (83, 114233), (101, 114347), (109, 114371), (125, 114431), (145, 114542), (153, 114581), (159, 114605), (169, 114647), (196, 114746), (206, 114788), (207, 114794), (210, 114806), (218, 114869), (227, 114929), (228, 114932), (233, 114959), (240, 115001), (256, 115064), (293, 115184), (302, 115220), (306, 115238), (309, 115253), (321, 115370), (327, 115409), (342, 115529), (348, 115571), (358, 115616), (360, 115625), (370, 115676), (381, 115718), (397, 115784), (399, 115793), (400, 115796), (401, 115802), (402, 115805), (403, 115814), (404, 115820), (405, 115835), (426, 115922), (445, 116027), (453, 116081), (467, 116168), (473, 116198), (480, 116228), (486, 116261), (488, 116270), (499, 116342), (505, 116372), (533, 116489), (541, 116534), (549, 116576), (579, 116720), (595, 116780), (632, 116882), (659, 116969), (660, 116972), (666, 116990), (676, 117026), (677, 117029), (698, 117089), (703, 117107), (724, 117203), (732, 117233), (736, 117251), (744, 117281), (765, 117374), (769, 117389), (785, 117470), (787, 117476), (789, 117488),

Gene: Drazdys_207 Start: 112967, Stop: 116455, Start Num: 26
Candidate Starts for Drazdys_207:
(Start: 26 @112967 has 50 MA's), (Start: 28 @112973 has 6 MA's), (Start: 33 @112985 has 8 MA's), (38, 112994), (Start: 68 @113060 has 125 MA's), (83, 113135), (101, 113249), (109, 113273), (125, 113333), (145, 113444), (153, 113483), (159, 113507), (169, 113549), (196, 113648), (206, 113690), (207, 113696), (210, 113708), (218, 113771), (227, 113831), (228, 113834), (233, 113861), (240, 113903), (256, 113966), (302, 114122), (306, 114140), (309, 114155), (321, 114272), (327, 114311), (342, 114431), (348, 114473), (358, 114518), (360, 114527), (370, 114578), (381, 114620), (397, 114686), (399, 114695), (400, 114698), (401, 114704), (402, 114707), (403, 114716), (404, 114722), (405, 114737), (426, 114824), (445, 114929), (453, 114983), (467, 115070), (473, 115100), (480, 115130), (486, 115163), (488, 115172), (499, 115244), (505, 115274), (533, 115391), (541, 115436),

(549, 115478), (579, 115622), (595, 115682), (632, 115784), (659, 115871), (660, 115874), (666, 115892), (676, 115928), (677, 115931), (698, 115991), (703, 116009), (724, 116105), (732, 116135), (736, 116153), (744, 116183), (765, 116276), (769, 116291), (785, 116372), (787, 116378), (789, 116390),

Gene: Dryad_56 Start: 40017, Stop: 36817, Start Num: 72
Candidate Starts for Dryad_56:
(58, 40038), (Start: 72 @40017 has 108 MA's), (73, 40008), (78, 39975), (Start: 88 @39921 has 7 MA's), (95, 39867), (101, 39834), (111, 39798), (114, 39789), (116, 39780), (123, 39750), (128, 39717), (133, 39693), (141, 39639), (143, 39627), (156, 39573), (184, 39504), (199, 39423), (222, 39288), (229, 39225), (230, 39222), (250, 39117), (267, 39066), (274, 39051), (278, 39036), (300, 38940), (306, 38910), (317, 38865), (319, 38829), (324, 38793), (326, 38778), (327, 38775), (337, 38682), (351, 38592), (356, 38577), (382, 38466), (405, 38385), (407, 38379), (412, 38352), (423, 38301), (433, 38229), (434, 38223), (442, 38193), (448, 38163), (464, 38118), (470, 38082), (496, 37953), (522, 37842), (528, 37818), (564, 37674), (565, 37662), (566, 37650), (586, 37539), (634, 37359), (700, 37299), (704, 37287), (711, 37254), (723, 37188), (739, 37122), (767, 37011), (771, 36999), (774, 36978), (778, 36954), (796, 36894), (808, 36858), (811, 36843),

Gene: Duckfeet_203 Start: 112499, Stop: 115981, Start Num: 28
Candidate Starts for Duckfeet_203:
(Start: 18 @112463 has 6 MA's), (Start: 26 @112493 has 50 MA's), (Start: 28 @112499 has 6 MA's), (Start: 33 @112511 has 8 MA's), (38, 112520), (Start: 68 @112586 has 125 MA's), (83, 112661), (101, 112775), (109, 112799), (125, 112859), (145, 112970), (153, 113009), (159, 113033), (169, 113075), (196, 113174), (206, 113216), (207, 113222), (210, 113234), (218, 113297), (227, 113357), (228, 113360), (233, 113387), (240, 113429), (256, 113492), (293, 113612), (302, 113648), (306, 113666), (309, 113681), (321, 113798), (327, 113837), (342, 113957), (348, 113999), (358, 114044), (360, 114053), (370, 114104), (381, 114146), (397, 114212), (399, 114221), (400, 114224), (401, 114230), (402, 114233), (403, 114242), (404, 114248), (405, 114263), (426, 114350), (445, 114455), (453, 114509), (467, 114596), (473, 114626), (480, 114656), (486, 114689), (488, 114698), (499, 114770), (505, 114800), (533, 114917), (541, 114962), (549, 115004), (579, 115148), (595, 115208), (632, 115310), (659, 115397), (660, 115400), (666, 115418), (676, 115454), (677, 115457), (698, 115517), (703, 115535), (724, 115631), (732, 115661), (736, 115679), (744, 115709), (765, 115802), (769, 115817), (785, 115898), (787, 115904), (789, 115916),

Gene: DumpTruck_80 Start: 51478, Stop: 54825, Start Num: 72
Candidate Starts for DumpTruck_80:
(Start: 72 @51478 has 108 MA's), (85, 51559), (Start: 88 @51574 has 7 MA's), (89, 51583), (90, 51589), (105, 51682), (157, 51892), (162, 51922), (176, 51970), (198, 52057), (214, 52153), (247, 52354), (263, 52423), (264, 52432), (289, 52543), (296, 52588), (306, 52630), (326, 52762), (327, 52765), (328, 52795), (351, 52948), (372, 53038), (376, 53053), (382, 53074), (429, 53269), (433, 53302), (437, 53320), (448, 53368), (452, 53383), (453, 53386), (479, 53482), (490, 53536), (495, 53572), (521, 53686), (538, 53752), (548, 53794), (553, 53830), (566, 53884), (571, 53902), (589, 53998), (591, 54010), (594, 54022), (618, 54106), (707, 54301), (724, 54397), (728, 54412), (739, 54460), (740, 54466), (741, 54469), (748, 54496), (759, 54541), (792, 54688), (795, 54694), (801, 54718), (812, 54754),

Gene: Dwayne_54 Start: 42482, Stop: 38997, Start Num: 69
Candidate Starts for Dwayne_54:
(Start: 42 @42551 has 1 MA's), (Start: 69 @42482 has 55 MA's), (Start: 81 @42419 has 2 MA's), (83, 42410), (90, 42368), (105, 42275), (124, 42206), (138, 42137), (151, 42083), (169, 42011), (180, 41975), (191, 41915), (229, 41690), (238, 41651), (242, 41624), (245, 41606), (249, 41585), (256, 41570), (279, 41528), (297, 41450), (301, 41438), (328, 41252), (329, 41246), (335, 41201), (349, 41117), (351, 41099), (368, 41042), (369, 41039), (371, 41027), (403, 40889), (404, 40883), (405,

40868), (407, 40862), (414, 40829), (431, 40751), (435, 40718), (469, 40577), (487, 40496), (489, 40490), (500, 40421), (511, 40358), (517, 40337), (531, 40292), (551, 40196), (552, 40187), (554, 40181), (575, 40079), (577, 40070), (581, 40058), (583, 40037), (593, 40007), (598, 39980), (625, 39914), (627, 39905), (630, 39893), (655, 39806), (701, 39638), (712, 39590), (738, 39479), (767, 39341), (770, 39332), (775, 39305), (784, 39257), (794, 39224), (803, 39197), (818, 39092), (819, 39080),

Gene: E3_gp154 Start: 103974, Stop: 107150, Start Num: 68
Candidate Starts for E3_gp154:
(Start: 68 @103974 has 125 MA's), (73, 103989), (93, 104124), (100, 104154), (103, 104172), (113, 104196), (137, 104310), (140, 104334), (157, 104406), (158, 104412), (165, 104454), (179, 104493), (196, 104559), (199, 104568), (202, 104583), (216, 104673), (218, 104682), (228, 104751), (233, 104778), (243, 104835), (276, 104919), (293, 105000), (294, 105006), (314, 105090), (321, 105144), (327, 105183), (360, 105399), (366, 105429), (381, 105477), (390, 105513), (399, 105552), (400, 105555), (401, 105561), (405, 105594), (414, 105633), (426, 105672), (496, 106023), (497, 106041), (499, 106044), (566, 106344), (572, 106368), (590, 106440), (596, 106473), (608, 106515), (660, 106662), (678, 106716), (736, 106857), (751, 106920), (765, 106977),

Gene: ET08_197 Start: 112528, Stop: 116046, Start Num: 18
Candidate Starts for ET08_197:
(Start: 18 @112528 has 6 MA's), (Start: 26 @112558 has 50 MA's), (Start: 28 @112564 has 6 MA's), (Start: 33 @112576 has 8 MA's), (38, 112585), (Start: 68 @112651 has 125 MA's), (83, 112726), (101, 112840), (109, 112864), (125, 112924), (145, 113035), (153, 113074), (159, 113098), (169, 113140), (196, 113239), (206, 113281), (207, 113287), (210, 113299), (218, 113362), (227, 113422), (228, 113425), (233, 113452), (240, 113494), (256, 113557), (293, 113677), (302, 113713), (306, 113731), (309, 113746), (321, 113863), (327, 113902), (342, 114022), (348, 114064), (358, 114109), (360, 114118), (370, 114169), (381, 114211), (397, 114277), (399, 114286), (400, 114289), (401, 114295), (402, 114298), (403, 114307), (404, 114313), (405, 114328), (426, 114415), (445, 114520), (453, 114574), (467, 114661), (473, 114691), (480, 114721), (486, 114754), (488, 114763), (499, 114835), (505, 114865), (533, 114982), (541, 115027), (549, 115069), (579, 115213), (595, 115273), (632, 115375), (659, 115462), (660, 115465), (666, 115483), (676, 115519), (677, 115522), (698, 115582), (703, 115600), (724, 115696), (732, 115726), (736, 115744), (744, 115774), (765, 115867), (769, 115882), (785, 115963), (787, 115969), (789, 115981),

Gene: EasyJones_212 Start: 113039, Stop: 116527, Start Num: 26
Candidate Starts for EasyJones_212:
(Start: 26 @113039 has 50 MA's), (Start: 28 @113045 has 6 MA's), (Start: 33 @113057 has 8 MA's), (38, 113066), (Start: 68 @113132 has 125 MA's), (83, 113207), (101, 113321), (109, 113345), (125, 113405), (145, 113516), (153, 113555), (159, 113579), (169, 113621), (196, 113720), (206, 113762), (207, 113768), (210, 113780), (218, 113843), (227, 113903), (228, 113906), (233, 113933), (240, 113975), (256, 114038), (302, 114194), (306, 114212), (309, 114227), (321, 114344), (327, 114383), (342, 114503), (348, 114545), (358, 114590), (360, 114599), (370, 114650), (381, 114692), (397, 114758), (399, 114767), (400, 114770), (401, 114776), (402, 114779), (403, 114788), (404, 114794), (405, 114809), (426, 114896), (445, 115001), (453, 115055), (467, 115142), (473, 115172), (480, 115202), (486, 115235), (488, 115244), (499, 115316), (505, 115346), (533, 115463), (541, 115508), (549, 115550), (579, 115694), (595, 115754), (632, 115856), (659, 115943), (660, 115946), (666, 115964), (676, 116000), (677, 116003), (698, 116063), (703, 116081), (724, 116177), (732, 116207), (736, 116225), (744, 116255), (765, 116348), (769, 116363), (785, 116444), (787, 116450), (789, 116462),

Gene: Eddasa_55 Start: 40726, Stop: 37247, Start Num: 69
Candidate Starts for Eddasa_55:

(Start: 69 @40726 has 55 MA's), (73, 40714), (83, 40654), (84, 40651), (Start: 88 @40627 has 7 MA's), (124, 40450), (129, 40423), (132, 40417), (151, 40327), (155, 40312), (168, 40258), (169, 40255), (191, 40159), (209, 40081), (229, 39934), (238, 39895), (245, 39850), (249, 39829), (256, 39814), (279, 39772), (284, 39760), (297, 39694), (301, 39682), (314, 39619), (329, 39490), (330, 39481), (335, 39445), (349, 39361), (351, 39343), (368, 39286), (369, 39283), (371, 39271), (403, 39133), (404, 39127), (405, 39112), (407, 39106), (416, 39067), (431, 38995), (435, 38962), (465, 38845), (469, 38821), (483, 38764), (487, 38740), (489, 38734), (500, 38665), (511, 38602), (531, 38536), (536, 38515), (541, 38497), (551, 38440), (552, 38431), (575, 38323), (577, 38314), (581, 38302), (583, 38281), (593, 38251), (598, 38224), (625, 38158), (627, 38149), (630, 38137), (655, 38050), (662, 38026), (677, 37978), (712, 37834), (729, 37759), (767, 37585), (775, 37549), (784, 37501), (794, 37468),

Gene: EggyFarm_218 Start: 115912, Stop: 119382, Start Num: 33
Candidate Starts for EggyFarm_218:
(11, 115819), (Start: 26 @115894 has 50 MA's), (Start: 28 @115900 has 6 MA's), (Start: 33 @115912 has 8 MA's), (38, 115921), (Start: 68 @115987 has 125 MA's), (83, 116062), (101, 116176), (109, 116200), (125, 116260), (145, 116371), (153, 116410), (159, 116434), (169, 116476), (196, 116575), (206, 116617), (207, 116623), (210, 116635), (218, 116698), (227, 116758), (228, 116761), (233, 116788), (240, 116830), (256, 116893), (302, 117049), (306, 117067), (309, 117082), (321, 117199), (327, 117238), (342, 117358), (348, 117400), (358, 117445), (360, 117454), (370, 117505), (381, 117547), (397, 117613), (399, 117622), (400, 117625), (401, 117631), (402, 117634), (403, 117643), (404, 117649), (405, 117664), (426, 117751), (445, 117856), (453, 117910), (467, 117997), (473, 118027), (480, 118057), (486, 118090), (488, 118099), (499, 118171), (505, 118201), (533, 118318), (541, 118363), (549, 118405), (579, 118549), (595, 118609), (632, 118711), (659, 118798), (660, 118801), (666, 118819), (676, 118855), (677, 118858), (698, 118918), (703, 118936), (724, 119032), (732, 119062), (736, 119080), (744, 119110), (765, 119203), (769, 119218), (785, 119299), (787, 119305), (789, 119317),

Gene: Ejemplo_52 Start: 42420, Stop: 38935, Start Num: 69
Candidate Starts for Ejemplo_52:
(Start: 42 @42489 has 1 MA's), (Start: 69 @42420 has 55 MA's), (Start: 81 @42357 has 2 MA's), (83, 42348), (90, 42306), (105, 42213), (124, 42144), (138, 42075), (151, 42021), (169, 41949), (180, 41913), (191, 41853), (229, 41628), (238, 41589), (242, 41562), (245, 41544), (249, 41523), (256, 41508), (279, 41466), (297, 41388), (301, 41376), (328, 41190), (329, 41184), (335, 41139), (349, 41055), (351, 41037), (368, 40980), (369, 40977), (371, 40965), (403, 40827), (404, 40821), (405, 40806), (407, 40800), (414, 40767), (431, 40689), (435, 40656), (469, 40515), (487, 40434), (489, 40428), (500, 40359), (511, 40296), (517, 40275), (531, 40230), (551, 40134), (552, 40125), (554, 40119), (575, 40017), (577, 40008), (581, 39996), (583, 39975), (593, 39945), (598, 39918), (625, 39852), (627, 39843), (630, 39831), (655, 39744), (701, 39576), (712, 39528), (738, 39417), (767, 39279), (770, 39270), (775, 39243), (784, 39195), (794, 39162), (803, 39135), (818, 39030), (819, 39018),

Gene: EmToTheThree_209 Start: 113531, Stop: 116926, Start Num: 68
Candidate Starts for EmToTheThree_209:
(Start: 26 @113438 has 50 MA's), (Start: 28 @113444 has 6 MA's), (Start: 33 @113456 has 8 MA's), (38, 113465), (Start: 68 @113531 has 125 MA's), (83, 113606), (101, 113720), (109, 113744), (125, 113804), (145, 113915), (153, 113954), (159, 113978), (169, 114020), (196, 114119), (206, 114161), (207, 114167), (210, 114179), (218, 114242), (227, 114302), (228, 114305), (233, 114332), (240, 114374), (256, 114437), (293, 114557), (302, 114593), (306, 114611), (309, 114626), (321, 114743), (327, 114782), (342, 114902), (348, 114944), (358, 114989), (360, 114998), (370, 115049), (381, 115091), (397, 115157), (399, 115166), (400, 115169), (401, 115175), (402, 115178), (403, 115187), (404, 115193), (405, 115208), (426, 115295), (445, 115400), (453, 115454), (467, 115541), (473, 115571), (480, 115601), (486, 115634), (488, 115643), (499, 115715), (505, 115745), (533, 115862),

(541, 115907), (549, 115949), (579, 116093), (595, 116153), (632, 116255), (659, 116342), (660, 116345), (666, 116363), (676, 116399), (677, 116402), (698, 116462), (703, 116480), (724, 116576), (732, 116606), (736, 116624), (744, 116654), (765, 116747), (769, 116762), (785, 116843), (787, 116849), (789, 116861),

Gene: Emaanora_57 Start: 42405, Stop: 38920, Start Num: 69
Candidate Starts for Emaanora_57:
(Start: 42 @42474 has 1 MA's), (Start: 69 @42405 has 55 MA's), (Start: 81 @42342 has 2 MA's), (83, 42333), (90, 42291), (105, 42198), (124, 42129), (138, 42060), (151, 42006), (169, 41934), (180, 41898), (191, 41838), (229, 41613), (238, 41574), (242, 41547), (245, 41529), (249, 41508), (256, 41493), (279, 41451), (297, 41373), (301, 41361), (328, 41175), (329, 41169), (335, 41124), (349, 41040), (351, 41022), (368, 40965), (369, 40962), (371, 40950), (403, 40812), (404, 40806), (405, 40791), (407, 40785), (414, 40752), (431, 40674), (435, 40641), (469, 40500), (487, 40419), (489, 40413), (500, 40344), (511, 40281), (517, 40260), (531, 40215), (551, 40119), (552, 40110), (554, 40104), (575, 40002), (577, 39993), (581, 39981), (583, 39960), (593, 39930), (598, 39903), (625, 39837), (627, 39828), (630, 39816), (655, 39729), (701, 39561), (712, 39513), (738, 39402), (739, 39396), (767, 39264), (770, 39255), (775, 39228), (794, 39147), (818, 39015), (819, 39003),

Gene: Emianna_60 Start: 49104, Stop: 45793, Start Num: 72
Candidate Starts for Emianna_60:
(5, 49347), (Start: 72 @49104 has 108 MA's), (84, 49032), (Start: 88 @49008 has 7 MA's), (126, 48855), (128, 48846), (150, 48723), (190, 48564), (192, 48558), (197, 48534), (215, 48426), (221, 48396), (231, 48327), (269, 48189), (271, 48171), (306, 48018), (314, 47976), (324, 47898), (326, 47883), (346, 47745), (396, 47547), (405, 47493), (406, 47490), (419, 47430), (429, 47379), (442, 47310), (452, 47265), (502, 47025), (511, 46983), (512, 46980), (514, 46974), (519, 46956), (543, 46860), (553, 46806), (584, 46662), (589, 46653), (616, 46578), (636, 46503), (647, 46449), (662, 46407), (677, 46359), (699, 46278), (706, 46257), (724, 46167), (732, 46137), (737, 46113), (738, 46110), (778, 45927), (796, 45870),

Gene: EmmaElysia_212 Start: 113550, Stop: 116945, Start Num: 68
Candidate Starts for EmmaElysia_212:
(Start: 26 @113457 has 50 MA's), (Start: 28 @113463 has 6 MA's), (Start: 33 @113475 has 8 MA's), (38, 113484), (Start: 68 @113550 has 125 MA's), (83, 113625), (101, 113739), (109, 113763), (125, 113823), (145, 113934), (153, 113973), (159, 113997), (169, 114039), (196, 114138), (206, 114180), (207, 114186), (210, 114198), (218, 114261), (227, 114321), (228, 114324), (233, 114351), (240, 114393), (256, 114456), (293, 114576), (302, 114612), (306, 114630), (309, 114645), (321, 114762), (327, 114801), (342, 114921), (348, 114963), (358, 115008), (360, 115017), (370, 115068), (381, 115110), (397, 115176), (399, 115185), (400, 115188), (401, 115194), (402, 115197), (403, 115206), (404, 115212), (405, 115227), (426, 115314), (445, 115419), (453, 115473), (467, 115560), (473, 115590), (480, 115620), (486, 115653), (488, 115662), (499, 115734), (505, 115764), (533, 115881), (541, 115926), (549, 115968), (579, 116112), (595, 116172), (632, 116274), (659, 116361), (660, 116364), (666, 116382), (676, 116418), (677, 116421), (698, 116481), (703, 116499), (724, 116595), (732, 116625), (736, 116643), (744, 116673), (765, 116766), (769, 116781), (785, 116862), (787, 116868), (789, 116880),

Gene: EmoNemo_92 Start: 70036, Stop: 72849, Start Num: 59
Candidate Starts for EmoNemo_92:
(Start: 52 @70021 has 1 MA's), (Start: 56 @70033 has 1 MA's), (Start: 59 @70036 has 9 MA's), (83, 70129), (91, 70189), (126, 70339), (127, 70342), (128, 70348), (146, 70447), (152, 70477), (153, 70480), (169, 70543), (174, 70564), (175, 70567), (185, 70594), (207, 70711), (209, 70720), (217, 70777), (219, 70786), (229, 70852), (242, 70918), (297, 71083), (302, 71101), (305, 71116), (307, 71122), (309, 71134), (316, 71161), (317, 71164), (323, 71224), (324, 71233), (325, 71236), (327, 71248), (330, 71293), (341, 71362), (345, 71386), (375, 71542), (379, 71560), (386, 71584), (389,

71602), (407, 71698), (415, 71740), (417, 71746), (426, 71782), (427, 71791), (430, 71809), (431, 71815), (433, 71839), (434, 71845), (435, 71848), (441, 71866), (442, 71869), (465, 71962), (475, 72007), (477, 72013), (481, 72037), (482, 72040), (484, 72049), (485, 72055), (487, 72067), (509, 72184), (511, 72202), (512, 72205), (515, 72214), (542, 72328), (546, 72343), (575, 72490), (578, 72502), (580, 72508), (590, 72541), (596, 72574), (599, 72592), (604, 72604), (606, 72613), (642, 72727), (651, 72739), (656, 72754), (680, 72829), (683, 72838),

Gene: Ennea_66 Start: 49878, Stop: 46564, Start Num: 72
Candidate Starts for Ennea_66:
(4, 50130), (12, 50043), (16, 50016), (Start: 72 @49878 has 108 MA's), (Start: 88 @49782 has 7 MA's), (126, 49629), (128, 49620), (150, 49497), (190, 49338), (192, 49332), (197, 49308), (209, 49254), (215, 49200), (221, 49170), (225, 49131), (234, 49089), (248, 49008), (269, 48963), (306, 48792), (314, 48750), (324, 48672), (326, 48657), (346, 48519), (396, 48321), (415, 48219), (429, 48153), (437, 48102), (442, 48084), (452, 48039), (502, 47796), (511, 47754), (512, 47751), (514, 47745), (519, 47727), (543, 47631), (548, 47613), (553, 47577), (584, 47433), (589, 47424), (594, 47400), (616, 47349), (647, 47220), (677, 47130), (679, 47121), (699, 47049), (706, 47028), (740, 46872), (745, 46857), (808, 46608),

Gene: EnochSoames_57 Start: 40522, Stop: 37043, Start Num: 69
Candidate Starts for EnochSoames_57:
(Start: 42 @40591 has 1 MA's), (Start: 69 @40522 has 55 MA's), (83, 40450), (Start: 88 @40423 has 7 MA's), (90, 40408), (124, 40246), (129, 40219), (132, 40213), (151, 40123), (155, 40108), (168, 40054), (169, 40051), (191, 39955), (209, 39877), (229, 39730), (238, 39691), (245, 39646), (249, 39625), (256, 39610), (279, 39568), (284, 39556), (297, 39490), (301, 39478), (314, 39415), (329, 39286), (330, 39277), (335, 39241), (349, 39157), (351, 39139), (368, 39082), (369, 39079), (371, 39067), (403, 38929), (404, 38923), (405, 38908), (407, 38902), (420, 38845), (431, 38791), (435, 38758), (469, 38617), (483, 38560), (487, 38536), (489, 38530), (500, 38461), (511, 38398), (531, 38332), (536, 38311), (541, 38293), (551, 38236), (552, 38227), (575, 38119), (577, 38110), (581, 38098), (583, 38077), (593, 38047), (598, 38020), (625, 37954), (627, 37945), (630, 37933), (655, 37846), (662, 37822), (677, 37774), (712, 37630), (729, 37555), (767, 37381), (775, 37345), (784, 37297), (794, 37264),

Gene: Erdmann_210 Start: 113397, Stop: 116885, Start Num: 26
Candidate Starts for Erdmann_210:
(Start: 26 @113397 has 50 MA's), (Start: 28 @113403 has 6 MA's), (Start: 33 @113415 has 8 MA's), (38, 113424), (Start: 68 @113490 has 125 MA's), (83, 113565), (101, 113679), (109, 113703), (125, 113763), (145, 113874), (153, 113913), (159, 113937), (169, 113979), (196, 114078), (206, 114120), (207, 114126), (210, 114138), (218, 114201), (227, 114261), (228, 114264), (233, 114291), (240, 114333), (256, 114396), (302, 114552), (306, 114570), (309, 114585), (321, 114702), (327, 114741), (342, 114861), (348, 114903), (358, 114948), (360, 114957), (370, 115008), (381, 115050), (397, 115116), (399, 115125), (400, 115128), (401, 115134), (402, 115137), (403, 115146), (404, 115152), (405, 115167), (426, 115254), (445, 115359), (453, 115413), (467, 115500), (473, 115530), (480, 115560), (486, 115593), (488, 115602), (499, 115674), (505, 115704), (533, 115821), (541, 115866), (549, 115908), (579, 116052), (595, 116112), (632, 116214), (659, 116301), (660, 116304), (666, 116322), (676, 116358), (677, 116361), (698, 116421), (703, 116439), (724, 116535), (732, 116565), (736, 116583), (744, 116613), (765, 116706), (769, 116721), (785, 116802), (787, 116808), (789, 116820),

Gene: Erk16_66 Start: 49865, Stop: 53167, Start Num: 25
Candidate Starts for Erk16_66:
(Start: 25 @49865 has 21 MA's), (Start: 61 @49952 has 1 MA's), (Start: 65 @49958 has 3 MA's), (Start: 72 @49967 has 108 MA's), (Start: 88 @50063 has 7 MA's), (128, 50219), (143, 50306), (144, 50309), (156, 50360), (214, 50624), (221, 50663), (232, 50735), (234, 50744), (247, 50819), (266,

50885), (269, 50891), (283, 50945), (289, 50963), (297, 51014), (298, 51017), (305, 51047), (319, 51131), (320, 51140), (324, 51167), (326, 51182), (350, 51359), (351, 51368), (376, 51473), (403, 51554), (413, 51614), (429, 51689), (433, 51722), (434, 51728), (440, 51749), (442, 51758), (452, 51803), (471, 51872), (476, 51887), (490, 51956), (501, 52019), (509, 52052), (510, 52055), (521, 52106), (540, 52181), (566, 52304), (571, 52322), (587, 52400), (589, 52403), (591, 52415), (601, 52460), (610, 52481), (613, 52493), (622, 52523), (627, 52544), (687, 52616), (704, 52673), (723, 52772), (739, 52838), (761, 52928), (767, 52958), (768, 52961), (774, 52991), (782, 53036), (796, 53078), (806, 53108), (809, 53120), (812, 53135), (814, 53144),

Gene: ErnieJ_202 Start: 111218, Stop: 114706, Start Num: 26
Candidate Starts for ErnieJ_202:
(Start: 26 @111218 has 50 MA's), (Start: 28 @111224 has 6 MA's), (Start: 33 @111236 has 8 MA's), (38, 111245), (Start: 68 @111311 has 125 MA's), (83, 111386), (101, 111500), (109, 111524), (125, 111584), (145, 111695), (153, 111734), (159, 111758), (169, 111800), (196, 111899), (206, 111941), (207, 111947), (210, 111959), (218, 112022), (227, 112082), (228, 112085), (233, 112112), (240, 112154), (256, 112217), (293, 112337), (302, 112373), (306, 112391), (309, 112406), (321, 112523), (327, 112562), (342, 112682), (348, 112724), (358, 112769), (360, 112778), (370, 112829), (381, 112871), (397, 112937), (399, 112946), (400, 112949), (401, 112955), (402, 112958), (403, 112967), (404, 112973), (405, 112988), (426, 113075), (445, 113180), (453, 113234), (467, 113321), (473, 113351), (480, 113381), (486, 113414), (488, 113423), (499, 113495), (505, 113525), (533, 113642), (541, 113687), (549, 113729), (579, 113873), (595, 113933), (632, 114035), (659, 114122), (660, 114125), (666, 114143), (676, 114179), (677, 114182), (698, 114242), (703, 114260), (724, 114356), (732, 114386), (736, 114404), (744, 114434), (765, 114527), (769, 114542), (785, 114623), (787, 114629), (789, 114641),

Gene: Erutan_79 Start: 51975, Stop: 55283, Start Num: 77
Candidate Starts for Erutan_79:
(Start: 77 @51975 has 4 MA's), (Start: 81 @52002 has 2 MA's), (84, 52014), (Start: 88 @52038 has 7 MA's), (92, 52083), (101, 52125), (162, 52386), (190, 52488), (198, 52521), (214, 52617), (263, 52887), (264, 52896), (289, 53004), (296, 53049), (306, 53091), (326, 53223), (327, 53226), (328, 53256), (331, 53277), (342, 53346), (350, 53400), (372, 53499), (376, 53514), (393, 53556), (429, 53730), (433, 53763), (437, 53781), (442, 53799), (452, 53844), (453, 53847), (479, 53943), (487, 53985), (490, 53997), (495, 54033), (538, 54213), (548, 54255), (553, 54291), (566, 54345), (571, 54363), (589, 54459), (591, 54471), (675, 54666), (704, 54750), (720, 54831), (724, 54855), (728, 54870), (736, 54906), (739, 54918), (740, 54924), (741, 54927), (748, 54954), (759, 54999), (779, 55107), (795, 55152), (801, 55176), (812, 55212),

Gene: Esperer_53 Start: 40052, Stop: 36573, Start Num: 69
Candidate Starts for Esperer_53:
(2, 40313), (Start: 69 @40052 has 55 MA's), (83, 39980), (Start: 88 @39953 has 7 MA's), (90, 39938), (124, 39776), (129, 39749), (132, 39743), (151, 39653), (155, 39638), (168, 39584), (169, 39581), (191, 39485), (209, 39407), (217, 39347), (229, 39260), (238, 39221), (245, 39176), (249, 39155), (256, 39140), (279, 39098), (284, 39086), (297, 39020), (301, 39008), (314, 38945), (329, 38816), (330, 38807), (335, 38771), (349, 38687), (351, 38669), (368, 38612), (369, 38609), (371, 38597), (403, 38459), (404, 38453), (405, 38438), (407, 38432), (414, 38399), (431, 38321), (435, 38288), (469, 38147), (483, 38090), (487, 38066), (489, 38060), (500, 37991), (511, 37928), (531, 37862), (536, 37841), (541, 37823), (551, 37766), (552, 37757), (575, 37649), (577, 37640), (581, 37628), (583, 37607), (593, 37577), (598, 37550), (625, 37484), (627, 37475), (630, 37463), (655, 37376), (662, 37352), (677, 37304), (712, 37160), (729, 37085), (767, 36911), (775, 36875), (784, 36827), (794, 36794),

Gene: Essence_206 Start: 112272, Stop: 115667, Start Num: 68
Candidate Starts for Essence_206:

(Start: 26 @112179 has 50 MA's), (Start: 28 @112185 has 6 MA's), (Start: 33 @112197 has 8 MA's), (38, 112206), (Start: 68 @112272 has 125 MA's), (83, 112347), (101, 112461), (109, 112485), (125, 112545), (145, 112656), (153, 112695), (159, 112719), (169, 112761), (196, 112860), (206, 112902), (207, 112908), (210, 112920), (218, 112983), (227, 113043), (228, 113046), (233, 113073), (240, 113115), (256, 113178), (302, 113334), (306, 113352), (309, 113367), (321, 113484), (327, 113523), (342, 113643), (348, 113685), (358, 113730), (360, 113739), (370, 113790), (381, 113832), (397, 113898), (399, 113907), (400, 113910), (401, 113916), (402, 113919), (403, 113928), (404, 113934), (405, 113949), (426, 114036), (445, 114141), (453, 114195), (467, 114282), (473, 114312), (480, 114342), (486, 114375), (488, 114384), (499, 114456), (505, 114486), (533, 114603), (541, 114648), (549, 114690), (579, 114834), (595, 114894), (632, 114996), (659, 115083), (660, 115086), (666, 115104), (676, 115140), (677, 115143), (698, 115203), (703, 115221), (724, 115317), (732, 115347), (736, 115365), (744, 115395), (765, 115488), (769, 115503), (785, 115584), (787, 115590), (789, 115602),

Gene: Ewok_208 Start: 113408, Stop: 116803, Start Num: 68
Candidate Starts for Ewok_208:
(Start: 26 @113315 has 50 MA's), (Start: 28 @113321 has 6 MA's), (Start: 33 @113333 has 8 MA's), (38, 113342), (Start: 68 @113408 has 125 MA's), (83, 113483), (101, 113597), (109, 113621), (125, 113681), (145, 113792), (153, 113831), (159, 113855), (169, 113897), (196, 113996), (206, 114038), (207, 114044), (210, 114056), (218, 114119), (227, 114179), (228, 114182), (233, 114209), (240, 114251), (256, 114314), (293, 114434), (302, 114470), (306, 114488), (309, 114503), (321, 114620), (327, 114659), (342, 114779), (348, 114821), (358, 114866), (360, 114875), (370, 114926), (381, 114968), (397, 115034), (399, 115043), (400, 115046), (401, 115052), (402, 115055), (403, 115064), (404, 115070), (405, 115085), (426, 115172), (445, 115277), (453, 115331), (467, 115418), (473, 115448), (480, 115478), (486, 115511), (488, 115520), (499, 115592), (505, 115622), (533, 115739), (541, 115784), (549, 115826), (579, 115970), (595, 116030), (632, 116132), (659, 116219), (660, 116222), (666, 116240), (676, 116276), (677, 116279), (698, 116339), (703, 116357), (724, 116453), (732, 116483), (736, 116501), (744, 116531), (765, 116624), (769, 116639), (785, 116720), (787, 116726), (789, 116738),

Gene: Farrylious_96 Start: 69768, Stop: 72581, Start Num: 59
Candidate Starts for Farrylious_96:
(Start: 52 @69753 has 1 MA's), (Start: 56 @69765 has 1 MA's), (Start: 59 @69768 has 9 MA's), (83, 69861), (91, 69921), (126, 70071), (127, 70074), (128, 70080), (136, 70122), (146, 70179), (152, 70209), (153, 70212), (169, 70275), (174, 70296), (175, 70299), (185, 70326), (207, 70443), (209, 70452), (217, 70509), (219, 70518), (226, 70566), (242, 70650), (297, 70815), (302, 70833), (305, 70848), (307, 70854), (309, 70866), (316, 70893), (317, 70896), (323, 70956), (324, 70965), (325, 70968), (327, 70980), (330, 71025), (341, 71094), (345, 71118), (375, 71274), (379, 71292), (386, 71316), (389, 71334), (407, 71430), (415, 71472), (417, 71478), (426, 71514), (427, 71523), (430, 71541), (431, 71547), (433, 71571), (434, 71577), (435, 71580), (441, 71598), (442, 71601), (465, 71694), (475, 71739), (477, 71745), (481, 71769), (482, 71772), (484, 71781), (485, 71787), (487, 71799), (498, 71871), (509, 71916), (511, 71934), (512, 71937), (515, 71946), (542, 72060), (546, 72075), (575, 72222), (578, 72234), (580, 72240), (590, 72273), (596, 72306), (599, 72324), (604, 72336), (606, 72345), (643, 72462), (656, 72486),

Gene: Finch_77 Start: 65462, Stop: 68653, Start Num: 71
Candidate Starts for Finch_77:
(Start: 71 @65462 has 1 MA's), (83, 65525), (103, 65648), (136, 65789), (137, 65798), (141, 65822), (148, 65858), (154, 65882), (165, 65939), (179, 65978), (186, 66002), (196, 66044), (210, 66104), (218, 66167), (228, 66224), (230, 66239), (233, 66251), (236, 66266), (244, 66311), (256, 66353), (280, 66407), (286, 66431), (287, 66434), (293, 66473), (304, 66521), (306, 66527), (312, 66563), (314, 66569), (323, 66638), (333, 66734), (342, 66782), (352, 66848), (354, 66854), (381, 66926), (382, 66929), (399, 67001), (400, 67004), (401, 67010), (410, 67067), (414, 67082), (417, 67091),

(420, 67106), (426, 67127), (427, 67136), (438, 67205), (458, 67289), (460, 67295), (464, 67313), (469, 67343), (479, 67382), (497, 67496), (499, 67499), (511, 67550), (512, 67553), (514, 67559), (528, 67613), (529, 67616), (533, 67631), (537, 67658), (546, 67694), (553, 67748), (565, 67790), (583, 67892), (595, 67934), (596, 67937), (598, 67949), (625, 68012), (626, 68018), (642, 68090), (650, 68102), (659, 68132), (677, 68189), (719, 68270), (721, 68279), (741, 68360), (752, 68408), (755, 68420), (765, 68462), (767, 68471), (774, 68504), (783, 68552),

Gene: Fixie_200 Start: 113052, Stop: 116447, Start Num: 68
Candidate Starts for Fixie_200:
(Start: 26 @112959 has 50 MA's), (Start: 28 @112965 has 6 MA's), (Start: 33 @112977 has 8 MA's), (38, 112986), (Start: 68 @113052 has 125 MA's), (83, 113127), (101, 113241), (109, 113265), (125, 113325), (145, 113436), (153, 113475), (159, 113499), (169, 113541), (196, 113640), (206, 113682), (207, 113688), (210, 113700), (218, 113763), (227, 113823), (228, 113826), (233, 113853), (240, 113895), (256, 113958), (293, 114078), (302, 114114), (306, 114132), (309, 114147), (321, 114264), (327, 114303), (342, 114423), (348, 114465), (358, 114510), (360, 114519), (370, 114570), (381, 114612), (397, 114678), (399, 114687), (400, 114690), (401, 114696), (402, 114699), (403, 114708), (404, 114714), (405, 114729), (426, 114816), (445, 114921), (453, 114975), (467, 115062), (473, 115092), (480, 115122), (486, 115155), (488, 115164), (499, 115236), (505, 115266), (533, 115383), (541, 115428), (549, 115470), (579, 115614), (595, 115674), (632, 115776), (659, 115863), (660, 115866), (666, 115884), (676, 115920), (677, 115923), (698, 115983), (703, 116001), (724, 116097), (732, 116127), (736, 116145), (744, 116175), (765, 116268), (769, 116283), (785, 116364), (787, 116370), (789, 116382),

Gene: Flabslab_204 Start: 111453, Stop: 114848, Start Num: 68
Candidate Starts for Flabslab_204:
(Start: 26 @111360 has 50 MA's), (Start: 28 @111366 has 6 MA's), (Start: 33 @111378 has 8 MA's), (38, 111387), (Start: 68 @111453 has 125 MA's), (83, 111528), (101, 111642), (109, 111666), (125, 111726), (145, 111837), (153, 111876), (159, 111900), (169, 111942), (196, 112041), (206, 112083), (207, 112089), (210, 112101), (218, 112164), (227, 112224), (228, 112227), (233, 112254), (240, 112296), (256, 112359), (293, 112479), (302, 112515), (306, 112533), (309, 112548), (321, 112665), (327, 112704), (342, 112824), (348, 112866), (358, 112911), (360, 112920), (370, 112971), (381, 113013), (397, 113079), (399, 113088), (400, 113091), (401, 113097), (402, 113100), (403, 113109), (404, 113115), (405, 113130), (426, 113217), (445, 113322), (453, 113376), (467, 113463), (473, 113493), (480, 113523), (486, 113556), (488, 113565), (499, 113637), (505, 113667), (533, 113784), (541, 113829), (549, 113871), (579, 114015), (595, 114075), (632, 114177), (659, 114264), (660, 114267), (666, 114285), (676, 114321), (677, 114324), (698, 114384), (703, 114402), (724, 114498), (732, 114528), (736, 114546), (744, 114576), (765, 114669), (769, 114684), (785, 114765), (787, 114771), (789, 114783),

Gene: Flapper_64 Start: 49579, Stop: 46298, Start Num: 72
Candidate Starts for Flapper_64:
(30, 49672), (Start: 70 @49582 has 4 MA's), (Start: 72 @49579 has 108 MA's), (73, 49570), (85, 49498), (Start: 88 @49483 has 7 MA's), (92, 49438), (126, 49327), (128, 49318), (139, 49252), (150, 49195), (186, 49069), (192, 49030), (197, 49006), (203, 48979), (207, 48961), (209, 48952), (215, 48898), (255, 48685), (269, 48661), (297, 48526), (324, 48367), (326, 48352), (384, 48034), (396, 48010), (406, 47953), (429, 47842), (442, 47773), (446, 47758), (452, 47728), (494, 47539), (502, 47491), (511, 47449), (512, 47446), (514, 47440), (519, 47422), (543, 47326), (548, 47308), (553, 47272), (589, 47107), (595, 47077), (607, 47047), (636, 47008), (647, 46954), (657, 46930), (677, 46867), (697, 46807), (706, 46765), (737, 46621), (738, 46618), (744, 46594), (796, 46378), (808, 46342), (814, 46312),

Gene: Float294_60 Start: 49099, Stop: 45785, Start Num: 72
Candidate Starts for Float294_60:

(3, 49324), (13, 49240), (Start: 72 @49099 has 108 MA's), (Start: 88 @49003 has 7 MA's), (126, 48850), (128, 48841), (150, 48718), (190, 48559), (192, 48553), (215, 48421), (221, 48391), (234, 48310), (248, 48229), (269, 48184), (306, 48013), (314, 47971), (324, 47893), (326, 47878), (346, 47740), (360, 47662), (396, 47542), (415, 47440), (429, 47374), (437, 47323), (442, 47305), (452, 47260), (502, 47017), (511, 46975), (512, 46972), (514, 46966), (519, 46948), (543, 46852), (548, 46834), (553, 46798), (584, 46654), (589, 46645), (594, 46621), (616, 46570), (647, 46441), (677, 46351), (679, 46342), (697, 46291), (699, 46270), (706, 46249), (740, 46093), (745, 46078), (808, 45829),

Gene: Fludd_209 Start: 112844, Stop: 116239, Start Num: 68
Candidate Starts for Fludd_209:
(Start: 26 @112751 has 50 MA's), (Start: 28 @112757 has 6 MA's), (Start: 33 @112769 has 8 MA's), (38, 112778), (Start: 68 @112844 has 125 MA's), (83, 112919), (101, 113033), (109, 113057), (125, 113117), (145, 113228), (153, 113267), (159, 113291), (169, 113333), (196, 113432), (206, 113474), (207, 113480), (210, 113492), (218, 113555), (227, 113615), (228, 113618), (233, 113645), (240, 113687), (256, 113750), (293, 113870), (302, 113906), (306, 113924), (309, 113939), (321, 114056), (327, 114095), (342, 114215), (348, 114257), (358, 114302), (360, 114311), (370, 114362), (381, 114404), (397, 114470), (399, 114479), (400, 114482), (401, 114488), (402, 114491), (403, 114500), (404, 114506), (405, 114521), (426, 114608), (445, 114713), (453, 114767), (467, 114854), (473, 114884), (480, 114914), (486, 114947), (488, 114956), (499, 115028), (505, 115058), (533, 115175), (541, 115220), (549, 115262), (579, 115406), (595, 115466), (632, 115568), (659, 115655), (660, 115658), (666, 115676), (676, 115712), (677, 115715), (698, 115775), (703, 115793), (724, 115889), (732, 115919), (736, 115937), (744, 115967), (765, 116060), (769, 116075), (785, 116156), (787, 116162), (789, 116174),

Gene: FlyingTortilla_98 Start: 74166, Stop: 76973, Start Num: 62
Candidate Starts for FlyingTortilla_98:
(21, 74061), (35, 74103), (54, 74151), (Start: 62 @74166 has 3 MA's), (83, 74256), (86, 74271), (91, 74316), (106, 74394), (126, 74466), (146, 74574), (152, 74604), (153, 74607), (154, 74610), (169, 74670), (174, 74691), (185, 74721), (207, 74838), (217, 74904), (219, 74913), (220, 74916), (242, 75045), (256, 75099), (297, 75210), (302, 75228), (305, 75243), (307, 75249), (309, 75261), (316, 75288), (317, 75291), (323, 75351), (324, 75360), (327, 75375), (341, 75489), (379, 75687), (386, 75711), (389, 75729), (395, 75762), (405, 75819), (406, 75822), (415, 75867), (416, 75870), (426, 75909), (427, 75918), (431, 75942), (432, 75948), (434, 75972), (435, 75975), (441, 75993), (444, 76005), (475, 76134), (477, 76140), (481, 76164), (485, 76182), (487, 76194), (509, 76311), (511, 76329), (512, 76332), (515, 76341), (540, 76446), (542, 76455), (547, 76482), (575, 76614), (578, 76626), (580, 76632), (596, 76698), (599, 76716), (604, 76728), (606, 76737), (623, 76773), (642, 76851), (656, 76878), (680, 76953), (683, 76962),

Gene: Fongie_210 Start: 113431, Stop: 116826, Start Num: 68
Candidate Starts for Fongie_210:
(Start: 26 @113338 has 50 MA's), (Start: 28 @113344 has 6 MA's), (Start: 33 @113356 has 8 MA's), (38, 113365), (Start: 68 @113431 has 125 MA's), (83, 113506), (101, 113620), (109, 113644), (125, 113704), (145, 113815), (153, 113854), (159, 113878), (169, 113920), (196, 114019), (206, 114061), (207, 114067), (210, 114079), (218, 114142), (227, 114202), (228, 114205), (233, 114232), (240, 114274), (256, 114337), (302, 114493), (306, 114511), (309, 114526), (321, 114643), (327, 114682), (342, 114802), (348, 114844), (358, 114889), (360, 114898), (370, 114949), (381, 114991), (397, 115057), (399, 115066), (400, 115069), (401, 115075), (402, 115078), (403, 115087), (404, 115093), (405, 115108), (426, 115195), (445, 115300), (453, 115354), (467, 115441), (473, 115471), (480, 115501), (486, 115534), (488, 115543), (499, 115615), (505, 115645), (533, 115762), (541, 115807), (549, 115849), (579, 115993), (595, 116053), (632, 116155), (659, 116242), (660, 116245), (666, 116263), (676, 116299), (677, 116302), (698, 116362), (703, 116380), (724, 116476), (732, 116506), (736, 116524), (744, 116554), (765, 116647), (769, 116662), (785, 116743), (787, 116749), (789,

116761),

Gene: Foxboro_61 Start: 49613, Stop: 46299, Start Num: 72
Candidate Starts for Foxboro_61:
(5, 49856), (Start: 72 @49613 has 108 MA's), (84, 49541), (Start: 88 @49517 has 7 MA's), (92, 49472), (126, 49364), (128, 49355), (150, 49232), (190, 49073), (192, 49067), (197, 49043), (215, 48935), (221, 48905), (231, 48836), (269, 48698), (271, 48680), (306, 48527), (314, 48485), (318, 48446), (324, 48407), (326, 48392), (346, 48254), (396, 48056), (406, 47999), (419, 47939), (429, 47888), (442, 47819), (452, 47774), (511, 47489), (512, 47486), (514, 47480), (519, 47462), (543, 47366), (553, 47312), (570, 47243), (589, 47159), (603, 47108), (607, 47099), (636, 47009), (647, 46955), (662, 46913), (677, 46865), (699, 46784), (706, 46763), (724, 46673), (732, 46643), (737, 46619), (738, 46616), (778, 46433), (796, 46376),

Gene: FoxtrotP1_207 Start: 114088, Stop: 117483, Start Num: 68
Candidate Starts for FoxtrotP1_207:
(Start: 26 @113995 has 50 MA's), (Start: 28 @114001 has 6 MA's), (Start: 33 @114013 has 8 MA's), (38, 114022), (Start: 68 @114088 has 125 MA's), (83, 114163), (101, 114277), (109, 114301), (125, 114361), (145, 114472), (153, 114511), (159, 114535), (169, 114577), (196, 114676), (206, 114718), (207, 114724), (210, 114736), (218, 114799), (227, 114859), (228, 114862), (233, 114889), (240, 114931), (256, 114994), (302, 115150), (306, 115168), (309, 115183), (321, 115300), (327, 115339), (342, 115459), (348, 115501), (358, 115546), (360, 115555), (370, 115606), (381, 115648), (397, 115714), (399, 115723), (400, 115726), (401, 115732), (402, 115735), (403, 115744), (404, 115750), (405, 115765), (426, 115852), (445, 115957), (453, 116011), (467, 116098), (473, 116128), (480, 116158), (486, 116191), (488, 116200), (499, 116272), (505, 116302), (533, 116419), (541, 116464), (549, 116506), (579, 116650), (595, 116710), (632, 116812), (659, 116899), (660, 116902), (666, 116920), (676, 116956), (677, 116959), (698, 117019), (703, 117037), (724, 117133), (732, 117163), (736, 117181), (744, 117211), (765, 117304), (769, 117319), (785, 117400), (787, 117406), (789, 117418),

Gene: FrayBell_212 Start: 112934, Stop: 116329, Start Num: 68
Candidate Starts for FrayBell_212:
(Start: 26 @112841 has 50 MA's), (Start: 28 @112847 has 6 MA's), (Start: 33 @112859 has 8 MA's), (38, 112868), (Start: 68 @112934 has 125 MA's), (83, 113009), (101, 113123), (109, 113147), (125, 113207), (145, 113318), (153, 113357), (159, 113381), (169, 113423), (196, 113522), (206, 113564), (207, 113570), (210, 113582), (218, 113645), (227, 113705), (228, 113708), (233, 113735), (240, 113777), (256, 113840), (302, 113996), (306, 114014), (309, 114029), (321, 114146), (327, 114185), (342, 114305), (348, 114347), (358, 114392), (360, 114401), (370, 114452), (381, 114494), (397, 114560), (399, 114569), (400, 114572), (401, 114578), (402, 114581), (403, 114590), (404, 114596), (405, 114611), (426, 114698), (445, 114803), (453, 114857), (467, 114944), (473, 114974), (480, 115004), (486, 115037), (488, 115046), (499, 115118), (505, 115148), (533, 115265), (541, 115310), (549, 115352), (579, 115496), (595, 115556), (632, 115658), (659, 115745), (660, 115748), (666, 115766), (676, 115802), (677, 115805), (698, 115865), (703, 115883), (724, 115979), (732, 116009), (736, 116027), (744, 116057), (765, 116150), (769, 116165), (785, 116246), (787, 116252), (789, 116264),

Gene: FruityLoops_98 Start: 73376, Stop: 76291, Start Num: 19
Candidate Starts for FruityLoops_98:
(Start: 19 @73376 has 1 MA's), (21, 73382), (23, 73385), (35, 73421), (54, 73469), (Start: 62 @73484 has 3 MA's), (83, 73574), (86, 73589), (91, 73634), (106, 73712), (126, 73784), (146, 73892), (152, 73922), (153, 73925), (154, 73928), (169, 73988), (174, 74009), (178, 74018), (185, 74039), (201, 74129), (207, 74156), (217, 74222), (219, 74231), (220, 74234), (229, 74297), (242, 74363), (256, 74417), (297, 74528), (302, 74546), (305, 74561), (307, 74567), (309, 74579), (316, 74606), (317, 74609), (323, 74669), (324, 74678), (327, 74693), (341, 74807), (379, 75005), (386, 75029), (389,

75047), (405, 75137), (406, 75140), (415, 75185), (416, 75188), (426, 75227), (427, 75236), (431, 75260), (432, 75266), (434, 75290), (435, 75293), (441, 75311), (475, 75452), (477, 75458), (481, 75482), (482, 75485), (485, 75500), (487, 75512), (509, 75629), (511, 75647), (512, 75650), (515, 75659), (540, 75764), (542, 75773), (547, 75800), (575, 75932), (578, 75944), (580, 75950), (596, 76016), (599, 76034), (604, 76046), (606, 76055), (623, 76091), (642, 76169), (656, 76196), (680, 76271), (683, 76280),

Gene: FudgeTart_204 Start: 112462, Stop: 115950, Start Num: 26
Candidate Starts for FudgeTart_204:
(Start: 26 @112462 has 50 MA's), (Start: 28 @112468 has 6 MA's), (Start: 33 @112480 has 8 MA's), (38, 112489), (Start: 68 @112555 has 125 MA's), (83, 112630), (101, 112744), (109, 112768), (125, 112828), (145, 112939), (153, 112978), (159, 113002), (169, 113044), (196, 113143), (206, 113185), (207, 113191), (210, 113203), (218, 113266), (227, 113326), (228, 113329), (233, 113356), (240, 113398), (256, 113461), (293, 113581), (302, 113617), (306, 113635), (309, 113650), (321, 113767), (327, 113806), (342, 113926), (348, 113968), (358, 114013), (360, 114022), (370, 114073), (381, 114115), (397, 114181), (399, 114190), (400, 114193), (401, 114199), (402, 114202), (403, 114211), (404, 114217), (405, 114232), (426, 114319), (445, 114424), (453, 114478), (467, 114565), (473, 114595), (480, 114625), (486, 114658), (488, 114667), (499, 114739), (505, 114769), (533, 114886), (541, 114931), (549, 114973), (579, 115117), (595, 115177), (632, 115279), (659, 115366), (660, 115369), (666, 115387), (676, 115423), (677, 115426), (698, 115486), (703, 115504), (724, 115600), (732, 115630), (736, 115648), (744, 115678), (765, 115771), (769, 115786), (785, 115867), (787, 115873), (789, 115885),

Gene: Fulcrum_78 Start: 51710, Stop: 55051, Start Num: 72
Candidate Starts for Fulcrum_78:
(47, 51662), (Start: 72 @51710 has 108 MA's), (Start: 81 @51770 has 2 MA's), (Start: 88 @51806 has 7 MA's), (92, 51851), (101, 51893), (162, 52154), (190, 52256), (198, 52289), (214, 52385), (263, 52655), (264, 52664), (289, 52772), (296, 52817), (306, 52859), (326, 52991), (327, 52994), (328, 53024), (342, 53114), (350, 53168), (372, 53267), (376, 53282), (393, 53324), (429, 53498), (433, 53531), (437, 53549), (442, 53567), (452, 53612), (453, 53615), (479, 53711), (487, 53753), (490, 53765), (495, 53801), (538, 53981), (548, 54023), (553, 54059), (566, 54113), (571, 54131), (589, 54227), (591, 54239), (675, 54434), (704, 54518), (724, 54623), (728, 54638), (736, 54674), (739, 54686), (740, 54692), (741, 54695), (748, 54722), (759, 54767), (779, 54875), (795, 54920), (801, 54944), (812, 54980),

Gene: Fury_67 Start: 47998, Stop: 44609, Start Num: 43
Candidate Starts for Fury_67:
(22, 48049), (Start: 43 @47998 has 2 MA's), (48, 47980), (58, 47953), (Start: 72 @47929 has 108 MA's), (85, 47848), (Start: 88 @47833 has 7 MA's), (94, 47782), (126, 47680), (128, 47671), (146, 47566), (150, 47548), (172, 47455), (190, 47389), (192, 47383), (195, 47371), (209, 47305), (215, 47251), (234, 47140), (238, 47119), (248, 47059), (257, 47032), (269, 47014), (293, 46897), (324, 46723), (326, 46708), (346, 46570), (363, 46477), (371, 46438), (396, 46372), (403, 46339), (406, 46315), (419, 46255), (429, 46204), (430, 46201), (431, 46195), (433, 46171), (437, 46153), (442, 46135), (452, 46090), (502, 45850), (510, 45823), (512, 45805), (514, 45799), (519, 45781), (543, 45685), (548, 45667), (551, 45643), (553, 45631), (582, 45499), (585, 45478), (589, 45472), (595, 45442), (647, 45265), (661, 45229), (677, 45178), (697, 45118), (699, 45097), (706, 45076), (745, 44902), (796, 44689), (814, 44623),

Gene: GMA6_80 Start: 61160, Stop: 64054, Start Num: 32
Candidate Starts for GMA6_80:
(17, 61112), (27, 61148), (32, 61160), (37, 61169), (39, 61172), (Start: 57 @61223 has 3 MA's), (74, 61265), (78, 61292), (83, 61319), (89, 61355), (91, 61379), (94, 61397), (103, 61442), (128, 61538), (131, 61556), (133, 61562), (134, 61565), (136, 61580), (153, 61670), (154, 61673), (162, 61709),

(174, 61754), (179, 61766), (184, 61778), (185, 61784), (186, 61790), (194, 61847), (199, 61862), (200, 61865), (201, 61874), (207, 61901), (217, 61967), (219, 61976), (229, 62042), (246, 62132), (282, 62210), (290, 62234), (292, 62246), (293, 62255), (297, 62273), (302, 62291), (309, 62324), (316, 62351), (318, 62384), (341, 62552), (367, 62696), (387, 62783), (389, 62792), (395, 62825), (397, 62834), (399, 62843), (404, 62870), (405, 62885), (407, 62891), (415, 62933), (416, 62936), (423, 62960), (426, 62975), (427, 62984), (429, 62999), (431, 63008), (433, 63032), (434, 63038), (435, 63041), (443, 63068), (465, 63155), (475, 63200), (481, 63230), (485, 63248), (487, 63260), (509, 63377), (515, 63407), (524, 63443), (526, 63455), (527, 63458), (537, 63503), (540, 63512), (546, 63536), (552, 63575), (575, 63683), (577, 63692), (598, 63779), (599, 63785), (628, 63866), (656, 63947), (672, 64004), (684, 64034),

Gene: GOATification_78 Start: 51710, Stop: 55051, Start Num: 72
Candidate Starts for GOATification_78:
(47, 51662), (Start: 72 @51710 has 108 MA's), (Start: 81 @51770 has 2 MA's), (Start: 88 @51806 has 7 MA's), (92, 51851), (101, 51893), (162, 52154), (190, 52256), (198, 52289), (214, 52385), (263, 52655), (264, 52664), (289, 52772), (296, 52817), (306, 52859), (326, 52991), (327, 52994), (328, 53024), (342, 53114), (350, 53168), (372, 53267), (376, 53282), (393, 53324), (429, 53498), (433, 53531), (437, 53549), (442, 53567), (452, 53612), (453, 53615), (479, 53711), (487, 53753), (490, 53765), (495, 53801), (538, 53981), (548, 54023), (553, 54059), (566, 54113), (571, 54131), (589, 54227), (591, 54239), (675, 54434), (704, 54518), (724, 54623), (728, 54638), (736, 54674), (739, 54686), (740, 54692), (741, 54695), (748, 54722), (759, 54767), (779, 54875), (795, 54920), (801, 54944), (812, 54980),

Gene: GRU1_49 Start: 41041, Stop: 37856, Start Num: 88
Candidate Starts for GRU1_49:
(Start: 71 @41137 has 1 MA's), (85, 41056), (Start: 88 @41041 has 7 MA's), (92, 40996), (126, 40885), (128, 40876), (139, 40810), (150, 40753), (186, 40627), (192, 40588), (197, 40564), (203, 40537), (209, 40510), (215, 40456), (255, 40243), (269, 40219), (324, 39925), (326, 39910), (384, 39592), (396, 39568), (406, 39511), (419, 39451), (429, 39400), (442, 39331), (446, 39316), (494, 39097), (502, 39049), (511, 39007), (512, 39004), (514, 38998), (519, 38980), (543, 38884), (548, 38866), (553, 38830), (589, 38665), (595, 38635), (607, 38605), (646, 38518), (647, 38512), (677, 38425), (697, 38365), (706, 38323), (737, 38179), (744, 38152), (796, 37936), (808, 37900), (814, 37870), (815, 37861),

Gene: GTE5_49 Start: 42214, Stop: 38933, Start Num: 72
Candidate Starts for GTE5_49:
(Start: 69 @42220 has 55 MA's), (Start: 72 @42214 has 108 MA's), (73, 42205), (85, 42133), (Start: 88 @42118 has 7 MA's), (126, 41962), (128, 41953), (150, 41830), (192, 41665), (197, 41641), (208, 41590), (215, 41533), (234, 41422), (255, 41320), (269, 41296), (324, 41002), (326, 40987), (384, 40669), (396, 40645), (406, 40588), (429, 40477), (430, 40474), (442, 40408), (446, 40393), (494, 40174), (502, 40126), (511, 40084), (512, 40081), (514, 40075), (519, 40057), (543, 39961), (548, 39943), (553, 39907), (589, 39742), (595, 39712), (607, 39682), (646, 39595), (647, 39589), (677, 39502), (697, 39442), (706, 39400), (737, 39256), (738, 39253), (744, 39229), (796, 39013), (808, 38977), (814, 38947),

Gene: GTE8_48 Start: 42138, Stop: 38830, Start Num: 72
Candidate Starts for GTE8_48:
(1, 42387), (9, 42309), (12, 42282), (Start: 72 @42138 has 108 MA's), (85, 42057), (Start: 88 @42042 has 7 MA's), (126, 41889), (128, 41880), (150, 41757), (190, 41598), (192, 41592), (197, 41568), (215, 41460), (221, 41430), (269, 41223), (297, 41088), (314, 41010), (324, 40932), (326, 40917), (396, 40581), (406, 40524), (419, 40464), (429, 40413), (442, 40344), (462, 40278), (511, 40014), (512, 40011), (514, 40005), (519, 39987), (525, 39963), (543, 39891), (553, 39837), (584, 39693), (589, 39684), (616, 39609), (647, 39480), (677, 39396), (699, 39315), (706, 39294), (737, 39150), (738,

39147), (744, 39123), (745, 39120), (768, 39018), (814, 38841),

Gene: Gabriel_212 Start: 112010, Stop: 115405, Start Num: 68
Candidate Starts for Gabriel_212:
(Start: 26 @111917 has 50 MA's), (Start: 28 @111923 has 6 MA's), (Start: 33 @111935 has 8 MA's), (38, 111944), (Start: 68 @112010 has 125 MA's), (83, 112085), (101, 112199), (109, 112223), (125, 112283), (145, 112394), (153, 112433), (159, 112457), (169, 112499), (196, 112598), (206, 112640), (207, 112646), (210, 112658), (218, 112721), (227, 112781), (228, 112784), (233, 112811), (240, 112853), (256, 112916), (302, 113072), (306, 113090), (309, 113105), (321, 113222), (327, 113261), (342, 113381), (348, 113423), (358, 113468), (360, 113477), (370, 113528), (381, 113570), (397, 113636), (399, 113645), (400, 113648), (401, 113654), (402, 113657), (403, 113666), (404, 113672), (405, 113687), (426, 113774), (445, 113879), (453, 113933), (467, 114020), (473, 114050), (480, 114080), (486, 114113), (488, 114122), (499, 114194), (505, 114224), (533, 114341), (541, 114386), (549, 114428), (579, 114572), (595, 114632), (632, 114734), (659, 114821), (660, 114824), (666, 114842), (676, 114878), (677, 114881), (698, 114941), (703, 114959), (724, 115055), (732, 115085), (736, 115103), (744, 115133), (765, 115226), (769, 115241), (785, 115322), (787, 115328), (789, 115340),

Gene: Gagieri_58 Start: 45944, Stop: 42528, Start Num: 72
Candidate Starts for Gagieri_58:
(Start: 72 @45944 has 108 MA's), (85, 45863), (Start: 88 @45848 has 7 MA's), (105, 45740), (107, 45734), (128, 45686), (150, 45563), (202, 45353), (205, 45338), (207, 45329), (212, 45305), (214, 45275), (221, 45236), (281, 44942), (309, 44810), (310, 44807), (311, 44792), (314, 44783), (324, 44705), (326, 44690), (329, 44651), (335, 44612), (350, 44519), (361, 44468), (363, 44462), (371, 44423), (404, 44318), (405, 44303), (406, 44300), (429, 44186), (430, 44183), (433, 44153), (437, 44135), (438, 44132), (439, 44126), (441, 44123), (447, 44090), (452, 44069), (490, 43901), (501, 43835), (503, 43823), (512, 43781), (514, 43775), (519, 43757), (543, 43661), (548, 43643), (553, 43607), (565, 43565), (571, 43535), (576, 43499), (589, 43442), (591, 43430), (609, 43367), (625, 43310), (640, 43241), (653, 43193), (656, 43184), (663, 43157), (665, 43154), (681, 43094), (714, 42947), (734, 42866), (737, 42851), (738, 42848), (747, 42809), (771, 42710), (773, 42701), (774, 42689), (776, 42683), (777, 42677), (778, 42665), (792, 42614), (793, 42611), (808, 42569),

Gene: Gamgam_210 Start: 112367, Stop: 115762, Start Num: 68
Candidate Starts for Gamgam_210:
(Start: 26 @112274 has 50 MA's), (Start: 28 @112280 has 6 MA's), (Start: 33 @112292 has 8 MA's), (38, 112301), (Start: 68 @112367 has 125 MA's), (83, 112442), (101, 112556), (109, 112580), (125, 112640), (145, 112751), (153, 112790), (159, 112814), (169, 112856), (196, 112955), (206, 112997), (207, 113003), (210, 113015), (218, 113078), (227, 113138), (228, 113141), (233, 113168), (240, 113210), (256, 113273), (293, 113393), (302, 113429), (306, 113447), (309, 113462), (321, 113579), (327, 113618), (342, 113738), (348, 113780), (358, 113825), (360, 113834), (370, 113885), (381, 113927), (397, 113993), (399, 114002), (400, 114005), (401, 114011), (402, 114014), (403, 114023), (404, 114029), (405, 114044), (426, 114131), (445, 114236), (453, 114290), (467, 114377), (473, 114407), (480, 114437), (486, 114470), (488, 114479), (499, 114551), (505, 114581), (533, 114698), (541, 114743), (549, 114785), (579, 114929), (595, 114989), (632, 115091), (659, 115178), (660, 115181), (666, 115199), (676, 115235), (677, 115238), (698, 115298), (703, 115316), (724, 115412), (732, 115442), (736, 115460), (744, 115490), (765, 115583), (769, 115598), (785, 115679), (787, 115685), (789, 115697),

Gene: Genamy16_81 Start: 50797, Stop: 54042, Start Num: 88
Candidate Starts for Genamy16_81:
(Start: 72 @50701 has 108 MA's), (Start: 81 @50761 has 2 MA's), (Start: 88 @50797 has 7 MA's), (92, 50842), (101, 50884), (162, 51145), (198, 51280), (214, 51376), (263, 51646), (264, 51655), (289, 51763), (296, 51808), (306, 51850), (318, 51928), (326, 51982), (327, 51985), (328, 52015), (342,

52105), (350, 52159), (372, 52258), (376, 52273), (393, 52315), (429, 52489), (433, 52522), (437, 52540), (442, 52558), (452, 52603), (453, 52606), (479, 52702), (487, 52744), (490, 52756), (495, 52792), (538, 52972), (548, 53014), (553, 53050), (565, 53092), (566, 53104), (571, 53122), (589, 53218), (591, 53230), (675, 53425), (704, 53509), (724, 53614), (728, 53629), (732, 53644), (736, 53665), (739, 53677), (740, 53683), (741, 53686), (748, 53713), (759, 53758), (779, 53866), (795, 53911), (801, 53935), (812, 53971),

Gene: Ghost_209 Start: 112201, Stop: 115683, Start Num: 28
Candidate Starts for Ghost_209:
(Start: 26 @112195 has 50 MA's), (Start: 28 @112201 has 6 MA's), (Start: 33 @112213 has 8 MA's), (38, 112222), (Start: 68 @112288 has 125 MA's), (83, 112363), (101, 112477), (109, 112501), (125, 112561), (145, 112672), (153, 112711), (159, 112735), (169, 112777), (196, 112876), (206, 112918), (207, 112924), (210, 112936), (218, 112999), (227, 113059), (228, 113062), (233, 113089), (240, 113131), (256, 113194), (293, 113314), (302, 113350), (306, 113368), (309, 113383), (321, 113500), (327, 113539), (342, 113659), (348, 113701), (358, 113746), (360, 113755), (370, 113806), (381, 113848), (397, 113914), (399, 113923), (400, 113926), (401, 113932), (402, 113935), (403, 113944), (404, 113950), (405, 113965), (426, 114052), (445, 114157), (453, 114211), (467, 114298), (473, 114328), (480, 114358), (486, 114391), (488, 114400), (499, 114472), (505, 114502), (533, 114619), (541, 114664), (549, 114706), (579, 114850), (595, 114910), (632, 115012), (659, 115099), (660, 115102), (666, 115120), (676, 115156), (677, 115159), (698, 115219), (703, 115237), (724, 115333), (732, 115363), (736, 115381), (744, 115411), (765, 115504), (769, 115519), (785, 115600), (787, 115606), (789, 115618),

Gene: Gibbin_81 Start: 52515, Stop: 55856, Start Num: 72
Candidate Starts for Gibbin_81:
(47, 52467), (Start: 72 @52515 has 108 MA's), (Start: 81 @52575 has 2 MA's), (Start: 88 @52611 has 7 MA's), (92, 52656), (101, 52698), (162, 52959), (190, 53061), (198, 53094), (214, 53190), (263, 53460), (264, 53469), (289, 53577), (296, 53622), (306, 53664), (326, 53796), (327, 53799), (328, 53829), (331, 53850), (342, 53919), (350, 53973), (372, 54072), (376, 54087), (393, 54129), (429, 54303), (433, 54336), (437, 54354), (442, 54372), (452, 54417), (453, 54420), (479, 54516), (487, 54558), (490, 54570), (495, 54606), (538, 54786), (548, 54828), (553, 54864), (566, 54918), (571, 54936), (589, 55032), (591, 55044), (675, 55239), (704, 55323), (720, 55404), (724, 55428), (728, 55443), (736, 55479), (739, 55491), (740, 55497), (741, 55500), (748, 55527), (759, 55572), (779, 55680), (795, 55725), (801, 55749), (812, 55785),

Gene: Gibson_51 Start: 39054, Stop: 35857, Start Num: 72
Candidate Starts for Gibson_51:
(58, 39075), (Start: 72 @39054 has 108 MA's), (78, 39012), (Start: 88 @38958 has 7 MA's), (95, 38904), (111, 38835), (114, 38826), (116, 38817), (123, 38787), (128, 38754), (135, 38718), (141, 38676), (143, 38664), (156, 38610), (184, 38541), (189, 38502), (199, 38460), (203, 38439), (214, 38367), (222, 38325), (229, 38262), (230, 38259), (247, 38169), (250, 38154), (253, 38145), (267, 38103), (274, 38088), (278, 38073), (300, 37977), (306, 37947), (319, 37866), (321, 37854), (324, 37830), (326, 37815), (327, 37812), (337, 37719), (349, 37647), (351, 37629), (361, 37587), (374, 37530), (382, 37503), (405, 37422), (407, 37416), (412, 37389), (423, 37338), (430, 37296), (433, 37266), (434, 37260), (442, 37230), (446, 37215), (448, 37200), (463, 37158), (464, 37155), (470, 37119), (475, 37104), (496, 36990), (564, 36711), (565, 36699), (566, 36687), (571, 36669), (586, 36576), (614, 36471), (697, 36360), (700, 36336), (724, 36219), (747, 36126), (767, 36048), (771, 36036), (774, 36015), (783, 35967), (796, 35931), (808, 35895), (811, 35880),

Gene: Giuseppe_68 Start: 49677, Stop: 52979, Start Num: 25
Candidate Starts for Giuseppe_68:
(Start: 25 @49677 has 21 MA's), (Start: 61 @49764 has 1 MA's), (Start: 65 @49770 has 3 MA's), (Start: 72 @49779 has 108 MA's), (Start: 88 @49875 has 7 MA's), (128, 50031), (143, 50118), (144,

50121), (156, 50172), (214, 50436), (221, 50475), (232, 50547), (234, 50556), (247, 50631), (266, 50697), (269, 50703), (283, 50757), (289, 50775), (297, 50826), (298, 50829), (305, 50859), (319, 50943), (320, 50952), (324, 50979), (326, 50994), (350, 51171), (351, 51180), (376, 51285), (403, 51366), (413, 51426), (429, 51501), (433, 51534), (434, 51540), (440, 51561), (442, 51570), (452, 51615), (471, 51684), (476, 51699), (490, 51768), (501, 51831), (509, 51864), (510, 51867), (521, 51918), (540, 51993), (566, 52116), (571, 52134), (587, 52212), (589, 52215), (591, 52227), (601, 52272), (610, 52293), (613, 52305), (622, 52335), (627, 52356), (687, 52428), (704, 52485), (723, 52584), (739, 52650), (761, 52740), (767, 52770), (768, 52773), (774, 52803), (782, 52848), (796, 52890), (806, 52920), (809, 52932), (812, 52947), (814, 52956),

Gene: Gizmo_215 Start: 115313, Stop: 118801, Start Num: 26
Candidate Starts for Gizmo_215:
(Start: 26 @115313 has 50 MA's), (Start: 28 @115319 has 6 MA's), (Start: 33 @115331 has 8 MA's), (38, 115340), (Start: 68 @115406 has 125 MA's), (83, 115481), (101, 115595), (109, 115619), (125, 115679), (145, 115790), (153, 115829), (159, 115853), (169, 115895), (196, 115994), (206, 116036), (207, 116042), (210, 116054), (218, 116117), (227, 116177), (228, 116180), (233, 116207), (240, 116249), (256, 116312), (302, 116468), (306, 116486), (309, 116501), (321, 116618), (327, 116657), (342, 116777), (348, 116819), (358, 116864), (360, 116873), (370, 116924), (381, 116966), (397, 117032), (399, 117041), (400, 117044), (401, 117050), (402, 117053), (403, 117062), (404, 117068), (405, 117083), (426, 117170), (445, 117275), (453, 117329), (467, 117416), (473, 117446), (480, 117476), (486, 117509), (488, 117518), (499, 117590), (505, 117620), (533, 117737), (541, 117782), (549, 117824), (579, 117968), (595, 118028), (632, 118130), (659, 118217), (660, 118220), (666, 118238), (676, 118274), (677, 118277), (698, 118337), (703, 118355), (724, 118451), (732, 118481), (736, 118499), (744, 118529), (765, 118622), (769, 118637), (785, 118718), (787, 118724), (789, 118736),

Gene: GlutenPhree_210 Start: 112285, Stop: 115773, Start Num: 26
Candidate Starts for GlutenPhree_210:
(Start: 26 @112285 has 50 MA's), (Start: 28 @112291 has 6 MA's), (Start: 33 @112303 has 8 MA's), (38, 112312), (Start: 68 @112378 has 125 MA's), (83, 112453), (101, 112567), (109, 112591), (125, 112651), (145, 112762), (153, 112801), (159, 112825), (169, 112867), (196, 112966), (206, 113008), (207, 113014), (210, 113026), (218, 113089), (227, 113149), (228, 113152), (233, 113179), (240, 113221), (256, 113284), (293, 113404), (302, 113440), (306, 113458), (309, 113473), (321, 113590), (327, 113629), (342, 113749), (348, 113791), (358, 113836), (360, 113845), (370, 113896), (381, 113938), (397, 114004), (399, 114013), (400, 114016), (401, 114022), (402, 114025), (403, 114034), (404, 114040), (405, 114055), (426, 114142), (445, 114247), (453, 114301), (467, 114388), (473, 114418), (480, 114448), (486, 114481), (488, 114490), (499, 114562), (505, 114592), (533, 114709), (541, 114754), (549, 114796), (579, 114940), (595, 115000), (632, 115102), (659, 115189), (660, 115192), (666, 115210), (676, 115246), (677, 115249), (698, 115309), (703, 115327), (724, 115423), (732, 115453), (736, 115471), (744, 115501), (765, 115594), (769, 115609), (785, 115690), (787, 115696), (789, 115708),

Gene: Goby_55 Start: 41781, Stop: 38299, Start Num: 69
Candidate Starts for Goby_55:
(Start: 69 @41781 has 55 MA's), (73, 41766), (74, 41760), (Start: 81 @41715 has 2 MA's), (83, 41706), (90, 41664), (105, 41571), (124, 41502), (138, 41433), (151, 41379), (169, 41307), (180, 41271), (191, 41211), (209, 41133), (229, 40986), (238, 40947), (242, 40920), (245, 40902), (249, 40881), (256, 40866), (297, 40746), (301, 40734), (328, 40548), (329, 40542), (335, 40497), (349, 40413), (351, 40395), (368, 40338), (369, 40335), (371, 40323), (403, 40185), (404, 40179), (405, 40164), (407, 40158), (414, 40125), (431, 40047), (435, 40014), (469, 39873), (487, 39792), (489, 39786), (500, 39717), (511, 39654), (517, 39633), (531, 39588), (541, 39549), (551, 39492), (552, 39483), (575, 39375), (581, 39354), (583, 39333), (593, 39303), (598, 39276), (625, 39210), (627, 39201), (630, 39189), (655, 39102), (662, 39078), (701, 38934), (712, 38886), (731, 38802), (738, 38775), (767,

38637), (770, 38628), (775, 38601), (784, 38553), (786, 38547), (791, 38526), (794, 38520), (817, 38415), (818, 38388), (819, 38376), (822, 38313),

Gene: Godpower_56 Start: 41758, Stop: 38279, Start Num: 69
Candidate Starts for Godpower_56:
(Start: 42 @41827 has 1 MA's), (Start: 69 @41758 has 55 MA's), (Start: 81 @41695 has 2 MA's), (83, 41686), (90, 41644), (105, 41551), (124, 41482), (138, 41413), (151, 41359), (169, 41287), (180, 41251), (191, 41191), (209, 41113), (229, 40966), (238, 40927), (242, 40900), (245, 40882), (249, 40861), (256, 40846), (297, 40726), (301, 40714), (328, 40528), (329, 40522), (335, 40477), (349, 40393), (351, 40375), (368, 40318), (369, 40315), (371, 40303), (403, 40165), (404, 40159), (405, 40144), (407, 40138), (414, 40105), (431, 40027), (435, 39994), (469, 39853), (487, 39772), (489, 39766), (500, 39697), (511, 39634), (517, 39613), (531, 39568), (541, 39529), (551, 39472), (552, 39463), (575, 39355), (581, 39334), (583, 39313), (593, 39283), (598, 39256), (625, 39190), (627, 39181), (630, 39169), (655, 39082), (662, 39058), (712, 38866), (731, 38782), (738, 38755), (767, 38617), (770, 38608), (775, 38581), (784, 38533), (786, 38527), (791, 38506), (794, 38500), (817, 38395), (819, 38356), (820, 38350), (822, 38293),

Gene: GoldenSnow_209 Start: 113057, Stop: 116452, Start Num: 68
Candidate Starts for GoldenSnow_209:
(Start: 26 @112964 has 50 MA's), (Start: 28 @112970 has 6 MA's), (Start: 33 @112982 has 8 MA's), (38, 112991), (Start: 68 @113057 has 125 MA's), (83, 113132), (101, 113246), (109, 113270), (125, 113330), (145, 113441), (153, 113480), (159, 113504), (169, 113546), (196, 113645), (206, 113687), (207, 113693), (210, 113705), (218, 113768), (227, 113828), (228, 113831), (233, 113858), (240, 113900), (256, 113963), (302, 114119), (306, 114137), (309, 114152), (321, 114269), (327, 114308), (342, 114428), (348, 114470), (358, 114515), (360, 114524), (370, 114575), (381, 114617), (397, 114683), (399, 114692), (400, 114695), (401, 114701), (402, 114704), (403, 114713), (404, 114719), (405, 114734), (426, 114821), (445, 114926), (453, 114980), (467, 115067), (473, 115097), (480, 115127), (486, 115160), (488, 115169), (499, 115241), (505, 115271), (533, 115388), (541, 115433), (549, 115475), (579, 115619), (595, 115679), (632, 115781), (659, 115868), (660, 115871), (666, 115889), (676, 115925), (677, 115928), (698, 115988), (703, 116006), (724, 116102), (732, 116132), (736, 116150), (744, 116180), (765, 116273), (769, 116288), (785, 116369), (787, 116375), (789, 116387),

Gene: Grasshills_217 Start: 115911, Stop: 119381, Start Num: 33
Candidate Starts for Grasshills_217:
(11, 115818), (Start: 26 @115893 has 50 MA's), (Start: 28 @115899 has 6 MA's), (Start: 33 @115911 has 8 MA's), (38, 115920), (Start: 68 @115986 has 125 MA's), (83, 116061), (101, 116175), (109, 116199), (125, 116259), (145, 116370), (153, 116409), (159, 116433), (169, 116475), (196, 116574), (206, 116616), (207, 116622), (210, 116634), (218, 116697), (227, 116757), (228, 116760), (233, 116787), (240, 116829), (256, 116892), (302, 117048), (306, 117066), (309, 117081), (321, 117198), (327, 117237), (342, 117357), (348, 117399), (358, 117444), (360, 117453), (370, 117504), (381, 117546), (397, 117612), (399, 117621), (400, 117624), (401, 117630), (402, 117633), (403, 117642), (404, 117648), (405, 117663), (426, 117750), (445, 117855), (453, 117909), (467, 117996), (473, 118026), (480, 118056), (486, 118089), (488, 118098), (499, 118170), (505, 118200), (533, 118317), (541, 118362), (549, 118404), (579, 118548), (595, 118608), (632, 118710), (659, 118797), (660, 118800), (666, 118818), (676, 118854), (677, 118857), (698, 118917), (703, 118935), (724, 119031), (732, 119061), (736, 119079), (744, 119109), (765, 119202), (769, 119217), (785, 119298), (787, 119304), (789, 119316),

Gene: Gray_98 Start: 70297, Stop: 73110, Start Num: 59
Candidate Starts for Gray_98:
(Start: 52 @70282 has 1 MA's), (Start: 56 @70294 has 1 MA's), (Start: 59 @70297 has 9 MA's), (83, 70390), (91, 70450), (126, 70600), (127, 70603), (128, 70609), (136, 70651), (146, 70708), (152,

70738), (153, 70741), (169, 70804), (174, 70825), (175, 70828), (185, 70855), (207, 70972), (209, 70981), (217, 71038), (219, 71047), (242, 71179), (297, 71344), (302, 71362), (305, 71377), (307, 71383), (309, 71395), (316, 71422), (317, 71425), (323, 71485), (324, 71494), (325, 71497), (327, 71509), (330, 71554), (341, 71623), (345, 71647), (375, 71803), (379, 71821), (386, 71845), (389, 71863), (407, 71959), (415, 72001), (417, 72007), (426, 72043), (427, 72052), (430, 72070), (431, 72076), (433, 72100), (434, 72106), (435, 72109), (441, 72127), (442, 72130), (465, 72223), (475, 72268), (477, 72274), (481, 72298), (482, 72301), (484, 72310), (485, 72316), (487, 72328), (509, 72445), (511, 72463), (512, 72466), (515, 72475), (542, 72589), (546, 72604), (575, 72751), (578, 72763), (580, 72769), (590, 72802), (596, 72835), (599, 72853), (604, 72865), (606, 72874), (642, 72988), (651, 73000), (656, 73015), (680, 73090), (683, 73099),

Gene: Greely_198 Start: 110173, Stop: 113589, Start Num: 65
Candidate Starts for Greely_198:
(Start: 65 @110173 has 3 MA's), (94, 110335), (110, 110398), (144, 110563), (169, 110671), (199, 110791), (206, 110824), (207, 110830), (216, 110896), (218, 110905), (227, 110962), (228, 110965), (231, 110983), (233, 110992), (243, 111049), (247, 111070), (256, 111094), (277, 111139), (306, 111268), (309, 111283), (337, 111532), (342, 111559), (360, 111655), (377, 111721), (390, 111778), (399, 111823), (400, 111826), (404, 111850), (407, 111871), (426, 111955), (427, 111964), (431, 111988), (455, 112123), (483, 112270), (486, 112291), (488, 112300), (492, 112324), (497, 112369), (505, 112396), (512, 112426), (534, 112513), (553, 112615), (565, 112657), (566, 112669), (569, 112678), (581, 112738), (588, 112780), (595, 112816), (601, 112843), (630, 112915), (660, 113008), (677, 113065), (693, 113098), (719, 113221), (732, 113272), (736, 113290), (746, 113326), (751, 113356), (756, 113374), (764, 113410), (769, 113425), (780, 113491), (781, 113494), (787, 113512), (789, 113524), (810, 113581),

Gene: Greenbelt_49 Start: 35561, Stop: 32364, Start Num: 72
Candidate Starts for Greenbelt_49:
(Start: 33 @35642 has 8 MA's), (58, 35579), (Start: 72 @35561 has 108 MA's), (78, 35519), (Start: 88 @35465 has 7 MA's), (95, 35411), (111, 35342), (114, 35333), (123, 35294), (128, 35261), (143, 35171), (156, 35117), (184, 35048), (222, 34832), (250, 34661), (267, 34610), (274, 34595), (288, 34544), (300, 34484), (306, 34454), (319, 34373), (324, 34337), (325, 34334), (326, 34322), (327, 34319), (337, 34226), (351, 34136), (374, 34037), (382, 34010), (405, 33929), (407, 33923), (412, 33896), (433, 33773), (434, 33767), (442, 33737), (448, 33707), (470, 33626), (471, 33623), (564, 33218), (565, 33206), (566, 33194), (586, 33083), (595, 33041), (700, 32843), (702, 32837), (704, 32831), (717, 32765), (738, 32672), (739, 32666), (767, 32555), (771, 32543), (774, 32522), (778, 32498), (793, 32444), (796, 32438), (808, 32402), (811, 32387),

Gene: GretelLyn_79 Start: 52344, Stop: 55685, Start Num: 72
Candidate Starts for GretelLyn_79:
(47, 52296), (Start: 72 @52344 has 108 MA's), (Start: 81 @52404 has 2 MA's), (Start: 88 @52440 has 7 MA's), (92, 52485), (101, 52527), (162, 52788), (190, 52890), (198, 52923), (214, 53019), (263, 53289), (264, 53298), (289, 53406), (296, 53451), (306, 53493), (326, 53625), (327, 53628), (328, 53658), (331, 53679), (342, 53748), (350, 53802), (372, 53901), (376, 53916), (393, 53958), (429, 54132), (433, 54165), (437, 54183), (442, 54201), (452, 54246), (453, 54249), (479, 54345), (487, 54387), (490, 54399), (495, 54435), (538, 54615), (548, 54657), (553, 54693), (566, 54747), (571, 54765), (589, 54861), (591, 54873), (675, 55068), (704, 55152), (720, 55233), (724, 55257), (728, 55272), (736, 55308), (739, 55320), (740, 55326), (741, 55329), (748, 55356), (759, 55401), (779, 55509), (795, 55554), (801, 55578), (812, 55614),

Gene: GrootJr_62 Start: 48486, Stop: 45175, Start Num: 72
Candidate Starts for GrootJr_62:
(5, 48729), (Start: 72 @48486 has 108 MA's), (84, 48414), (Start: 88 @48390 has 7 MA's), (92, 48345), (126, 48237), (128, 48228), (150, 48105), (190, 47946), (192, 47940), (197, 47916), (215, 47808),

(221, 47778), (231, 47709), (269, 47571), (271, 47553), (306, 47400), (314, 47358), (324, 47280), (326, 47265), (346, 47127), (396, 46929), (405, 46875), (406, 46872), (419, 46812), (429, 46761), (442, 46692), (452, 46647), (502, 46407), (511, 46365), (512, 46362), (514, 46356), (519, 46338), (543, 46242), (553, 46188), (584, 46044), (589, 46035), (616, 45960), (636, 45885), (647, 45831), (662, 45789), (677, 45741), (699, 45660), (706, 45639), (724, 45549), (732, 45519), (737, 45495), (738, 45492), (778, 45309), (796, 45252),

Gene: Grungle_193 Start: 110325, Stop: 113720, Start Num: 68
Candidate Starts for Grungle_193:
(Start: 18 @110202 has 6 MA's), (Start: 26 @110232 has 50 MA's), (Start: 28 @110238 has 6 MA's), (Start: 33 @110250 has 8 MA's), (38, 110259), (Start: 68 @110325 has 125 MA's), (83, 110400), (101, 110514), (109, 110538), (125, 110598), (145, 110709), (153, 110748), (159, 110772), (169, 110814), (196, 110913), (206, 110955), (207, 110961), (210, 110973), (218, 111036), (227, 111096), (228, 111099), (233, 111126), (240, 111168), (256, 111231), (293, 111351), (302, 111387), (306, 111405), (309, 111420), (321, 111537), (327, 111576), (342, 111696), (348, 111738), (358, 111783), (360, 111792), (370, 111843), (381, 111885), (397, 111951), (399, 111960), (400, 111963), (401, 111969), (402, 111972), (403, 111981), (404, 111987), (405, 112002), (426, 112089), (445, 112194), (453, 112248), (467, 112335), (473, 112365), (480, 112395), (486, 112428), (488, 112437), (499, 112509), (505, 112539), (533, 112656), (535, 112674), (541, 112701), (549, 112743), (579, 112887), (595, 112947), (632, 113049), (659, 113136), (660, 113139), (666, 113157), (676, 113193), (677, 113196), (698, 113256), (703, 113274), (724, 113370), (732, 113400), (736, 113418), (744, 113448), (765, 113541), (769, 113556), (785, 113637), (787, 113643), (789, 113655),

Gene: Gumball_66 Start: 50219, Stop: 53521, Start Num: 25
Candidate Starts for Gumball_66:
(Start: 25 @50219 has 21 MA's), (Start: 61 @50306 has 1 MA's), (Start: 65 @50312 has 3 MA's), (Start: 72 @50321 has 108 MA's), (Start: 88 @50417 has 7 MA's), (128, 50573), (143, 50660), (144, 50663), (156, 50714), (214, 50978), (221, 51017), (232, 51089), (234, 51098), (247, 51173), (266, 51239), (269, 51245), (283, 51299), (289, 51317), (297, 51368), (298, 51371), (305, 51401), (319, 51485), (320, 51494), (324, 51521), (326, 51536), (350, 51713), (351, 51722), (376, 51827), (403, 51908), (413, 51968), (429, 52043), (433, 52076), (434, 52082), (440, 52103), (442, 52112), (452, 52157), (471, 52226), (476, 52241), (490, 52310), (509, 52406), (510, 52409), (521, 52460), (540, 52535), (566, 52658), (571, 52676), (587, 52754), (589, 52757), (591, 52769), (601, 52814), (610, 52835), (613, 52847), (622, 52877), (627, 52898), (687, 52970), (704, 53027), (723, 53126), (739, 53192), (761, 53282), (767, 53312), (768, 53315), (774, 53345), (782, 53390), (796, 53432), (806, 53462), (809, 53474), (812, 53489), (814, 53498),

Gene: Guwapp_204 Start: 111029, Stop: 114517, Start Num: 26
Candidate Starts for Guwapp_204:
(Start: 26 @111029 has 50 MA's), (Start: 28 @111035 has 6 MA's), (Start: 33 @111047 has 8 MA's), (38, 111056), (Start: 68 @111122 has 125 MA's), (83, 111197), (101, 111311), (109, 111335), (125, 111395), (145, 111506), (153, 111545), (159, 111569), (169, 111611), (196, 111710), (206, 111752), (207, 111758), (210, 111770), (218, 111833), (227, 111893), (228, 111896), (233, 111923), (240, 111965), (256, 112028), (302, 112184), (306, 112202), (309, 112217), (321, 112334), (327, 112373), (342, 112493), (348, 112535), (358, 112580), (360, 112589), (370, 112640), (381, 112682), (397, 112748), (399, 112757), (400, 112760), (401, 112766), (402, 112769), (403, 112778), (404, 112784), (405, 112799), (426, 112886), (445, 112991), (453, 113045), (467, 113132), (473, 113162), (480, 113192), (486, 113225), (488, 113234), (499, 113306), (505, 113336), (533, 113453), (541, 113498), (549, 113540), (579, 113684), (595, 113744), (632, 113846), (659, 113933), (660, 113936), (666, 113954), (676, 113990), (677, 113993), (698, 114053), (703, 114071), (724, 114167), (732, 114197), (736, 114215), (744, 114245), (765, 114338), (769, 114353), (785, 114434), (787, 114440), (789, 114452),

Gene: Halldule_202 Start: 111507, Stop: 114902, Start Num: 68
Candidate Starts for Halldule_202:
(Start: 18 @111384 has 6 MA's), (Start: 26 @111414 has 50 MA's), (Start: 28 @111420 has 6 MA's), (Start: 33 @111432 has 8 MA's), (38, 111441), (Start: 68 @111507 has 125 MA's), (83, 111582), (101, 111696), (109, 111720), (125, 111780), (145, 111891), (153, 111930), (159, 111954), (169, 111996), (196, 112095), (206, 112137), (207, 112143), (210, 112155), (218, 112218), (227, 112278), (228, 112281), (233, 112308), (240, 112350), (256, 112413), (293, 112533), (302, 112569), (306, 112587), (309, 112602), (321, 112719), (327, 112758), (342, 112878), (348, 112920), (358, 112965), (360, 112974), (370, 113025), (381, 113067), (397, 113133), (399, 113142), (400, 113145), (401, 113151), (402, 113154), (403, 113163), (404, 113169), (405, 113184), (426, 113271), (445, 113376), (453, 113430), (467, 113517), (473, 113547), (480, 113577), (486, 113610), (488, 113619), (499, 113691), (505, 113721), (533, 113838), (541, 113883), (549, 113925), (579, 114069), (595, 114129), (632, 114231), (659, 114318), (660, 114321), (666, 114339), (676, 114375), (677, 114378), (698, 114438), (703, 114456), (724, 114552), (732, 114582), (736, 114600), (744, 114630), (765, 114723), (769, 114738), (785, 114819), (787, 114825), (789, 114837),

Gene: Hanem_97 Start: 70036, Stop: 72849, Start Num: 59
Candidate Starts for Hanem_97:
(Start: 52 @70021 has 1 MA's), (Start: 56 @70033 has 1 MA's), (Start: 59 @70036 has 9 MA's), (83, 70129), (91, 70189), (126, 70339), (127, 70342), (128, 70348), (146, 70447), (152, 70477), (153, 70480), (169, 70543), (174, 70564), (175, 70567), (185, 70594), (207, 70711), (209, 70720), (217, 70777), (219, 70786), (229, 70852), (242, 70918), (297, 71083), (302, 71101), (305, 71116), (307, 71122), (309, 71134), (316, 71161), (317, 71164), (323, 71224), (324, 71233), (325, 71236), (327, 71248), (330, 71293), (341, 71362), (345, 71386), (375, 71542), (379, 71560), (386, 71584), (389, 71602), (407, 71698), (415, 71740), (417, 71746), (426, 71782), (427, 71791), (430, 71809), (431, 71815), (433, 71839), (434, 71845), (435, 71848), (441, 71866), (442, 71869), (465, 71962), (475, 72007), (477, 72013), (481, 72037), (482, 72040), (484, 72049), (485, 72055), (487, 72067), (509, 72184), (511, 72202), (512, 72205), (515, 72214), (542, 72328), (546, 72343), (575, 72490), (578, 72502), (580, 72508), (590, 72541), (596, 72574), (599, 72592), (604, 72604), (606, 72613), (642, 72727), (651, 72739), (656, 72754), (680, 72829), (683, 72838),

Gene: Hawkeye_75 Start: 50526, Stop: 53972, Start Num: 25
Candidate Starts for Hawkeye_75:
(Start: 25 @50526 has 21 MA's), (41, 50559), (51, 50589), (Start: 72 @50625 has 108 MA's), (73, 50634), (84, 50697), (Start: 88 @50721 has 7 MA's), (89, 50730), (104, 50823), (126, 50868), (128, 50877), (141, 50952), (144, 50967), (159, 51033), (214, 51282), (221, 51321), (258, 51513), (289, 51621), (297, 51672), (298, 51675), (306, 51708), (324, 51825), (326, 51840), (376, 52131), (403, 52212), (413, 52272), (429, 52347), (433, 52380), (434, 52386), (442, 52416), (476, 52545), (484, 52584), (490, 52614), (509, 52710), (510, 52713), (511, 52728), (521, 52764), (540, 52839), (566, 52962), (567, 52965), (571, 52980), (587, 53058), (589, 53061), (591, 53073), (648, 53280), (649, 53283), (669, 53364), (704, 53478), (716, 53541), (724, 53583), (739, 53643), (761, 53733), (768, 53766), (774, 53796), (782, 53841), (792, 53874), (793, 53877), (809, 53925), (816, 53967),

Gene: Helpful_70 Start: 50059, Stop: 53361, Start Num: 25
Candidate Starts for Helpful_70:
(Start: 25 @50059 has 21 MA's), (Start: 61 @50146 has 1 MA's), (Start: 65 @50152 has 3 MA's), (Start: 72 @50161 has 108 MA's), (Start: 88 @50257 has 7 MA's), (128, 50413), (143, 50500), (144, 50503), (156, 50554), (214, 50818), (221, 50857), (232, 50929), (234, 50938), (247, 51013), (266, 51079), (269, 51085), (283, 51139), (289, 51157), (297, 51208), (298, 51211), (305, 51241), (319, 51325), (320, 51334), (324, 51361), (326, 51376), (350, 51553), (351, 51562), (356, 51577), (376, 51667), (403, 51748), (413, 51808), (429, 51883), (433, 51916), (434, 51922), (440, 51943), (442, 51952), (452, 51997), (471, 52066), (476, 52081), (490, 52150), (501, 52213), (509, 52246), (510, 52249), (521, 52300), (540, 52375), (566, 52498), (571, 52516), (587, 52594), (589, 52597), (591,

52609), (601, 52654), (610, 52675), (613, 52687), (622, 52717), (627, 52738), (687, 52810), (704, 52867), (723, 52966), (739, 53032), (761, 53122), (767, 53152), (768, 53155), (774, 53185), (782, 53230), (796, 53272), (806, 53302), (809, 53314), (812, 53329), (814, 53338),

Gene: Hippo_54 Start: 42468, Stop: 38983, Start Num: 69
Candidate Starts for Hippo_54:
(Start: 42 @42537 has 1 MA's), (Start: 69 @42468 has 55 MA's), (Start: 81 @42405 has 2 MA's), (83, 42396), (90, 42354), (105, 42261), (124, 42192), (138, 42123), (151, 42069), (169, 41997), (180, 41961), (191, 41901), (229, 41676), (238, 41637), (242, 41610), (245, 41592), (249, 41571), (256, 41556), (279, 41514), (297, 41436), (301, 41424), (328, 41238), (329, 41232), (335, 41187), (349, 41103), (351, 41085), (368, 41028), (369, 41025), (371, 41013), (403, 40875), (404, 40869), (405, 40854), (407, 40848), (414, 40815), (431, 40737), (435, 40704), (444, 40668), (469, 40563), (487, 40482), (489, 40476), (500, 40407), (511, 40344), (517, 40323), (531, 40278), (551, 40182), (552, 40173), (554, 40167), (575, 40065), (577, 40056), (581, 40044), (583, 40023), (593, 39993), (598, 39966), (625, 39900), (627, 39891), (630, 39879), (655, 39792), (701, 39624), (712, 39576), (738, 39465), (767, 39327), (770, 39318), (775, 39291), (784, 39243), (794, 39210), (803, 39183), (818, 39078), (819, 39066),

Gene: HomeFry_63 Start: 46539, Stop: 43219, Start Num: 72
Candidate Starts for HomeFry_63:
(22, 46644), (Start: 43 @46611 has 2 MA's), (48, 46593), (Start: 72 @46539 has 108 MA's), (85, 46458), (Start: 88 @46443 has 7 MA's), (94, 46392), (126, 46290), (128, 46281), (139, 46215), (146, 46176), (150, 46158), (190, 45999), (192, 45993), (195, 45981), (197, 45969), (209, 45915), (215, 45861), (224, 45798), (234, 45750), (255, 45648), (269, 45624), (293, 45507), (314, 45411), (324, 45333), (326, 45318), (346, 45180), (371, 45048), (384, 45006), (396, 44982), (403, 44949), (406, 44925), (429, 44814), (430, 44811), (431, 44805), (433, 44781), (437, 44763), (442, 44745), (446, 44730), (452, 44700), (493, 44514), (502, 44460), (511, 44418), (512, 44415), (514, 44409), (516, 44400), (519, 44391), (543, 44295), (548, 44277), (551, 44253), (553, 44241), (582, 44109), (585, 44088), (589, 44082), (595, 44052), (607, 44022), (629, 43953), (647, 43875), (677, 43788), (697, 43728), (699, 43707), (706, 43686), (714, 43638), (745, 43512), (749, 43488), (796, 43299), (814, 43233),

Gene: HubbaBubba_55 Start: 44123, Stop: 40872, Start Num: 72
Candidate Starts for HubbaBubba_55:
(6, 44351), (Start: 72 @44123 has 108 MA's), (85, 44042), (Start: 88 @44027 has 7 MA's), (92, 43982), (126, 43874), (128, 43865), (160, 43700), (192, 43577), (203, 43526), (209, 43499), (215, 43445), (216, 43442), (221, 43415), (255, 43232), (269, 43208), (292, 43100), (309, 43022), (314, 42995), (324, 42917), (326, 42902), (346, 42764), (396, 42566), (398, 42560), (403, 42533), (429, 42398), (433, 42365), (442, 42329), (452, 42284), (459, 42272), (472, 42209), (502, 42044), (503, 42041), (511, 42002), (512, 41999), (514, 41993), (516, 41984), (519, 41975), (543, 41879), (548, 41861), (553, 41825), (603, 41621), (647, 41525), (677, 41441), (679, 41432), (714, 41291), (737, 41195), (738, 41192), (778, 41009),

Gene: HyRo_197 Start: 112631, Stop: 116026, Start Num: 68
Candidate Starts for HyRo_197:
(Start: 26 @112538 has 50 MA's), (Start: 28 @112544 has 6 MA's), (Start: 33 @112556 has 8 MA's), (38, 112565), (Start: 68 @112631 has 125 MA's), (83, 112706), (101, 112820), (109, 112844), (125, 112904), (141, 112997), (145, 113015), (153, 113054), (159, 113078), (169, 113120), (196, 113219), (206, 113261), (207, 113267), (210, 113279), (218, 113342), (227, 113402), (228, 113405), (233, 113432), (240, 113474), (256, 113537), (302, 113693), (306, 113711), (309, 113726), (321, 113843), (327, 113882), (342, 114002), (348, 114044), (358, 114089), (360, 114098), (370, 114149), (381, 114191), (397, 114257), (399, 114266), (400, 114269), (401, 114275), (402, 114278), (403, 114287), (404, 114293), (405, 114308), (426, 114395), (445, 114500), (453, 114554), (467, 114641), (473,

114671), (480, 114701), (486, 114734), (488, 114743), (499, 114815), (505, 114845), (533, 114962), (541, 115007), (549, 115049), (579, 115193), (595, 115253), (632, 115355), (659, 115442), (660, 115445), (666, 115463), (676, 115499), (677, 115502), (698, 115562), (703, 115580), (724, 115676), (732, 115706), (736, 115724), (744, 115754), (765, 115847), (769, 115862), (785, 115943), (787, 115949), (789, 115961),

Gene: Hydra_54 Start: 40888, Stop: 37409, Start Num: 69
Candidate Starts for Hydra_54:
(Start: 42 @40957 has 1 MA's), (Start: 69 @40888 has 55 MA's), (83, 40816), (Start: 88 @40789 has 7 MA's), (90, 40774), (102, 40699), (124, 40612), (129, 40585), (132, 40579), (151, 40489), (155, 40474), (168, 40420), (169, 40417), (191, 40321), (209, 40243), (229, 40096), (238, 40057), (245, 40012), (249, 39991), (256, 39976), (279, 39934), (284, 39922), (297, 39856), (301, 39844), (314, 39781), (329, 39652), (330, 39643), (335, 39607), (349, 39523), (351, 39505), (368, 39448), (369, 39445), (371, 39433), (403, 39295), (404, 39289), (405, 39274), (407, 39268), (414, 39235), (431, 39157), (435, 39124), (469, 38983), (483, 38926), (487, 38902), (489, 38896), (500, 38827), (511, 38764), (531, 38698), (536, 38677), (541, 38659), (551, 38602), (552, 38593), (575, 38485), (577, 38476), (581, 38464), (583, 38443), (593, 38413), (598, 38386), (625, 38320), (627, 38311), (630, 38299), (655, 38212), (662, 38188), (677, 38140), (712, 37996), (729, 37921), (767, 37747), (775, 37711), (784, 37663), (794, 37630),

Gene: I3_219 Start: 115274, Stop: 118762, Start Num: 26
Candidate Starts for I3_219:
(Start: 26 @115274 has 50 MA's), (Start: 28 @115280 has 6 MA's), (Start: 33 @115292 has 8 MA's), (38, 115301), (Start: 68 @115367 has 125 MA's), (83, 115442), (101, 115556), (109, 115580), (125, 115640), (145, 115751), (153, 115790), (159, 115814), (169, 115856), (196, 115955), (203, 115985), (206, 115997), (207, 116003), (210, 116015), (218, 116078), (227, 116138), (228, 116141), (233, 116168), (240, 116210), (256, 116273), (302, 116429), (306, 116447), (309, 116462), (321, 116579), (327, 116618), (342, 116738), (348, 116780), (358, 116825), (360, 116834), (370, 116885), (381, 116927), (397, 116993), (399, 117002), (400, 117005), (401, 117011), (402, 117014), (403, 117023), (404, 117029), (405, 117044), (426, 117131), (445, 117236), (453, 117290), (467, 117377), (473, 117407), (480, 117437), (486, 117470), (488, 117479), (499, 117551), (505, 117581), (533, 117698), (541, 117743), (549, 117785), (579, 117929), (595, 117989), (632, 118091), (659, 118178), (660, 118181), (666, 118199), (676, 118235), (677, 118238), (698, 118298), (703, 118316), (724, 118412), (732, 118442), (736, 118460), (744, 118490), (765, 118583), (769, 118598), (785, 118679), (787, 118685), (789, 118697),

Gene: IDyn_59 Start: 45555, Stop: 42304, Start Num: 72
Candidate Starts for IDyn_59:
(6, 45774), (Start: 72 @45555 has 108 MA's), (85, 45474), (Start: 88 @45459 has 7 MA's), (92, 45414), (126, 45306), (128, 45297), (192, 45009), (203, 44958), (209, 44931), (215, 44877), (221, 44847), (255, 44664), (269, 44640), (309, 44454), (314, 44427), (324, 44349), (326, 44334), (346, 44196), (363, 44103), (396, 43998), (398, 43992), (403, 43965), (429, 43830), (433, 43797), (442, 43761), (452, 43716), (459, 43704), (472, 43641), (502, 43476), (503, 43473), (511, 43434), (512, 43431), (514, 43425), (516, 43416), (519, 43407), (543, 43311), (548, 43293), (553, 43257), (587, 43107), (603, 43053), (647, 42957), (677, 42873), (679, 42864), (697, 42813), (714, 42723), (737, 42627), (738, 42624), (778, 42441), (814, 42318),

Gene: IkeLoa_201 Start: 112032, Stop: 115427, Start Num: 68
Candidate Starts for IkeLoa_201:
(11, 111864), (Start: 26 @111939 has 50 MA's), (Start: 28 @111945 has 6 MA's), (Start: 33 @111957 has 8 MA's), (38, 111966), (Start: 68 @112032 has 125 MA's), (83, 112107), (101, 112221), (109, 112245), (125, 112305), (145, 112416), (153, 112455), (159, 112479), (169, 112521), (196, 112620), (206, 112662), (207, 112668), (210, 112680), (218, 112743), (227, 112803), (228, 112806), (233,

112833), (240, 112875), (256, 112938), (302, 113094), (306, 113112), (309, 113127), (321, 113244), (327, 113283), (342, 113403), (348, 113445), (358, 113490), (360, 113499), (370, 113550), (381, 113592), (397, 113658), (399, 113667), (400, 113670), (401, 113676), (402, 113679), (403, 113688), (404, 113694), (405, 113709), (426, 113796), (445, 113901), (453, 113955), (467, 114042), (473, 114072), (480, 114102), (486, 114135), (488, 114144), (499, 114216), (505, 114246), (533, 114363), (541, 114408), (549, 114450), (579, 114594), (595, 114654), (632, 114756), (659, 114843), (660, 114846), (666, 114864), (676, 114900), (677, 114903), (698, 114963), (703, 114981), (724, 115077), (732, 115107), (736, 115125), (744, 115155), (765, 115248), (769, 115263), (785, 115344), (787, 115350), (789, 115362),

Gene: Indigo_52 Start: 40232, Stop: 36753, Start Num: 69
Candidate Starts for Indigo_52:
(7, 40442), (Start: 69 @40232 has 55 MA's), (83, 40160), (Start: 88 @40133 has 7 MA's), (90, 40118), (124, 39956), (129, 39929), (132, 39923), (151, 39833), (155, 39818), (168, 39764), (169, 39761), (191, 39665), (209, 39587), (229, 39440), (238, 39401), (245, 39356), (249, 39335), (256, 39320), (279, 39278), (284, 39266), (297, 39200), (301, 39188), (314, 39125), (329, 38996), (330, 38987), (335, 38951), (349, 38867), (351, 38849), (368, 38792), (369, 38789), (371, 38777), (403, 38639), (404, 38633), (405, 38618), (407, 38612), (414, 38579), (431, 38501), (435, 38468), (469, 38327), (483, 38270), (487, 38246), (489, 38240), (500, 38171), (511, 38108), (531, 38042), (536, 38021), (541, 38003), (551, 37946), (552, 37937), (575, 37829), (577, 37820), (581, 37808), (583, 37787), (593, 37757), (598, 37730), (625, 37664), (627, 37655), (630, 37643), (655, 37556), (662, 37532), (677, 37484), (712, 37340), (729, 37265), (767, 37091), (775, 37055), (784, 37007), (794, 36974),

Gene: Indlulamithi_76 Start: 52921, Stop: 56100, Start Num: 61
Candidate Starts for Indlulamithi_76:
(Start: 61 @52921 has 1 MA's), (Start: 72 @52936 has 108 MA's), (84, 53008), (Start: 88 @53032 has 7 MA's), (94, 53083), (100, 53110), (124, 53173), (128, 53188), (130, 53203), (144, 53278), (145, 53281), (159, 53344), (160, 53347), (164, 53377), (189, 53458), (234, 53713), (241, 53755), (283, 53905), (289, 53923), (293, 53956), (318, 54091), (319, 54094), (320, 54103), (324, 54130), (326, 54142), (362, 54373), (363, 54376), (383, 54454), (393, 54475), (405, 54535), (411, 54565), (429, 54649), (433, 54682), (440, 54709), (442, 54718), (443, 54724), (446, 54733), (448, 54748), (464, 54793), (468, 54817), (475, 54844), (479, 54862), (482, 54877), (513, 55033), (517, 55048), (525, 55081), (532, 55105), (553, 55204), (617, 55477), (702, 55609), (707, 55624), (711, 55648), (713, 55666), (714, 55669), (723, 55714), (763, 55888), (768, 55906), (774, 55936), (792, 56011), (793, 56014),

Gene: InigoMontoya_212 Start: 113041, Stop: 116436, Start Num: 68
Candidate Starts for InigoMontoya_212:
(Start: 26 @112948 has 50 MA's), (Start: 28 @112954 has 6 MA's), (Start: 33 @112966 has 8 MA's), (38, 112975), (Start: 68 @113041 has 125 MA's), (83, 113116), (101, 113230), (109, 113254), (125, 113314), (145, 113425), (153, 113464), (159, 113488), (169, 113530), (196, 113629), (206, 113671), (207, 113677), (210, 113689), (218, 113752), (227, 113812), (228, 113815), (233, 113842), (240, 113884), (256, 113947), (293, 114067), (302, 114103), (306, 114121), (309, 114136), (321, 114253), (327, 114292), (342, 114412), (348, 114454), (358, 114499), (360, 114508), (370, 114559), (381, 114601), (397, 114667), (399, 114676), (400, 114679), (401, 114685), (402, 114688), (403, 114697), (404, 114703), (405, 114718), (426, 114805), (445, 114910), (453, 114964), (467, 115051), (473, 115081), (480, 115111), (486, 115144), (488, 115153), (499, 115225), (505, 115255), (533, 115372), (541, 115417), (549, 115459), (579, 115603), (595, 115663), (632, 115765), (659, 115852), (660, 115855), (666, 115873), (676, 115909), (677, 115912), (698, 115972), (703, 115990), (724, 116086), (732, 116116), (736, 116134), (744, 116164), (765, 116257), (769, 116272), (785, 116353), (787, 116359), (789, 116371),

Gene: InterFolia_212 Start: 114739, Stop: 118134, Start Num: 68

Candidate Starts for InterFolia_212:
(Start: 26 @114646 has 50 MA's), (Start: 28 @114652 has 6 MA's), (Start: 33 @114664 has 8 MA's), (38, 114673), (Start: 68 @114739 has 125 MA's), (83, 114814), (101, 114928), (109, 114952), (125, 115012), (145, 115123), (153, 115162), (159, 115186), (169, 115228), (196, 115327), (206, 115369), (207, 115375), (210, 115387), (218, 115450), (227, 115510), (228, 115513), (233, 115540), (240, 115582), (256, 115645), (293, 115765), (302, 115801), (306, 115819), (309, 115834), (321, 115951), (327, 115990), (342, 116110), (348, 116152), (358, 116197), (360, 116206), (370, 116257), (381, 116299), (397, 116365), (399, 116374), (400, 116377), (401, 116383), (402, 116386), (403, 116395), (404, 116401), (405, 116416), (426, 116503), (445, 116608), (453, 116662), (467, 116749), (473, 116779), (480, 116809), (486, 116842), (488, 116851), (499, 116923), (505, 116953), (533, 117070), (541, 117115), (549, 117157), (579, 117301), (595, 117361), (632, 117463), (659, 117550), (660, 117553), (666, 117571), (676, 117607), (677, 117610), (698, 117670), (703, 117688), (724, 117784), (732, 117814), (736, 117832), (744, 117862), (765, 117955), (769, 117970), (785, 118051), (787, 118057), (789, 118069),

Gene: Iota_204 Start: 112726, Stop: 116121, Start Num: 68
Candidate Starts for Iota_204:
(Start: 26 @112633 has 50 MA's), (Start: 28 @112639 has 6 MA's), (Start: 33 @112651 has 8 MA's), (38, 112660), (Start: 68 @112726 has 125 MA's), (83, 112801), (101, 112915), (109, 112939), (125, 112999), (145, 113110), (153, 113149), (159, 113173), (169, 113215), (196, 113314), (206, 113356), (207, 113362), (210, 113374), (218, 113437), (227, 113497), (228, 113500), (233, 113527), (240, 113569), (256, 113632), (302, 113788), (306, 113806), (309, 113821), (321, 113938), (327, 113977), (342, 114097), (348, 114139), (358, 114184), (360, 114193), (370, 114244), (381, 114286), (397, 114352), (399, 114361), (400, 114364), (401, 114370), (402, 114373), (403, 114382), (404, 114388), (405, 114403), (426, 114490), (445, 114595), (453, 114649), (467, 114736), (473, 114766), (480, 114796), (486, 114829), (488, 114838), (499, 114910), (505, 114940), (533, 115057), (541, 115102), (549, 115144), (579, 115288), (595, 115348), (632, 115450), (659, 115537), (660, 115540), (666, 115558), (676, 115594), (677, 115597), (698, 115657), (703, 115675), (724, 115771), (732, 115801), (736, 115819), (744, 115849), (765, 115942), (769, 115957), (785, 116038), (787, 116044), (789, 116056),

Gene: Issimir_202 Start: 112556, Stop: 116074, Start Num: 18
Candidate Starts for Issimir_202:
(Start: 18 @112556 has 6 MA's), (Start: 26 @112586 has 50 MA's), (Start: 28 @112592 has 6 MA's), (Start: 33 @112604 has 8 MA's), (38, 112613), (Start: 68 @112679 has 125 MA's), (83, 112754), (101, 112868), (109, 112892), (125, 112952), (145, 113063), (153, 113102), (159, 113126), (169, 113168), (196, 113267), (206, 113309), (207, 113315), (210, 113327), (218, 113390), (227, 113450), (228, 113453), (233, 113480), (240, 113522), (256, 113585), (302, 113741), (306, 113759), (309, 113774), (321, 113891), (327, 113930), (342, 114050), (348, 114092), (358, 114137), (360, 114146), (370, 114197), (381, 114239), (397, 114305), (399, 114314), (400, 114317), (401, 114323), (402, 114326), (403, 114335), (404, 114341), (405, 114356), (426, 114443), (445, 114548), (453, 114602), (467, 114689), (473, 114719), (480, 114749), (486, 114782), (488, 114791), (499, 114863), (505, 114893), (533, 115010), (541, 115055), (549, 115097), (579, 115241), (595, 115301), (632, 115403), (659, 115490), (660, 115493), (666, 115511), (676, 115547), (677, 115550), (698, 115610), (703, 115628), (724, 115724), (732, 115754), (736, 115772), (744, 115802), (765, 115895), (769, 115910), (785, 115991), (787, 115997), (789, 116009),

Gene: Itza_54 Start: 38814, Stop: 35329, Start Num: 69
Candidate Starts for Itza_54:
(40, 38883), (44, 38874), (53, 38847), (Start: 69 @38814 has 55 MA's), (73, 38799), (75, 38787), (83, 38739), (85, 38727), (90, 38697), (98, 38646), (105, 38604), (117, 38571), (129, 38508), (161, 38373), (168, 38343), (169, 38340), (183, 38298), (191, 38244), (218, 38100), (229, 38019), (240, 37962), (242, 37953), (245, 37935), (249, 37914), (252, 37908), (279, 37857), (284, 37845), (297, 37779),

(301, 37767), (307, 37740), (318, 37665), (328, 37581), (329, 37575), (351, 37428), (368, 37371), (369, 37368), (387, 37299), (389, 37290), (394, 37260), (395, 37257), (403, 37218), (404, 37212), (407, 37191), (414, 37158), (416, 37152), (431, 37080), (435, 37047), (438, 37035), (460, 36954), (469, 36906), (471, 36897), (482, 36852), (483, 36849), (487, 36825), (506, 36720), (511, 36687), (531, 36621), (551, 36525), (552, 36516), (575, 36408), (583, 36366), (593, 36336), (625, 36243), (627, 36234), (630, 36222), (632, 36219), (645, 36156), (650, 36150), (677, 36063), (683, 36042), (693, 36015), (709, 35937), (712, 35916), (722, 35868), (729, 35841), (762, 35697), (772, 35652), (798, 35535), (800, 35532), (817, 35445), (819, 35406), (820, 35400), (822, 35343), (823, 35334),

Gene: Izajani_207 Start: 113548, Stop: 116943, Start Num: 68
Candidate Starts for Izajani_207:
(Start: 26 @113455 has 50 MA's), (Start: 28 @113461 has 6 MA's), (Start: 33 @113473 has 8 MA's), (38, 113482), (Start: 68 @113548 has 125 MA's), (83, 113623), (101, 113737), (109, 113761), (125, 113821), (145, 113932), (153, 113971), (159, 113995), (169, 114037), (196, 114136), (206, 114178), (207, 114184), (210, 114196), (218, 114259), (227, 114319), (228, 114322), (233, 114349), (240, 114391), (256, 114454), (293, 114574), (302, 114610), (306, 114628), (309, 114643), (321, 114760), (327, 114799), (342, 114919), (348, 114961), (358, 115006), (360, 115015), (370, 115066), (381, 115108), (397, 115174), (399, 115183), (400, 115186), (401, 115192), (402, 115195), (403, 115204), (404, 115210), (405, 115225), (426, 115312), (445, 115417), (453, 115471), (467, 115558), (473, 115588), (480, 115618), (486, 115651), (488, 115660), (499, 115732), (505, 115762), (533, 115879), (541, 115924), (549, 115966), (579, 116110), (595, 116170), (632, 116272), (659, 116359), (660, 116362), (666, 116380), (676, 116416), (677, 116419), (698, 116479), (703, 116497), (724, 116593), (732, 116623), (736, 116641), (744, 116671), (765, 116764), (769, 116779), (785, 116860), (787, 116866), (789, 116878),

Gene: Izzy_55 Start: 40773, Stop: 37294, Start Num: 69
Candidate Starts for Izzy_55:
(Start: 42 @40842 has 1 MA's), (Start: 69 @40773 has 55 MA's), (83, 40701), (Start: 88 @40674 has 7 MA's), (90, 40659), (124, 40497), (129, 40470), (132, 40464), (151, 40374), (155, 40359), (168, 40305), (169, 40302), (191, 40206), (209, 40128), (229, 39981), (238, 39942), (245, 39897), (249, 39876), (256, 39861), (279, 39819), (284, 39807), (297, 39741), (301, 39729), (314, 39666), (329, 39537), (330, 39528), (335, 39492), (349, 39408), (351, 39390), (368, 39333), (369, 39330), (371, 39318), (403, 39180), (404, 39174), (405, 39159), (407, 39153), (416, 39114), (431, 39042), (435, 39009), (465, 38892), (469, 38868), (483, 38811), (487, 38787), (489, 38781), (500, 38712), (511, 38649), (531, 38583), (536, 38562), (541, 38544), (551, 38487), (552, 38478), (575, 38370), (577, 38361), (581, 38349), (583, 38328), (593, 38298), (598, 38271), (625, 38205), (627, 38196), (630, 38184), (655, 38097), (662, 38073), (677, 38025), (712, 37881), (729, 37806), (767, 37632), (775, 37596), (784, 37548), (794, 37515),

Gene: JPickles_205 Start: 110933, Stop: 114421, Start Num: 26
Candidate Starts for JPickles_205:
(Start: 26 @110933 has 50 MA's), (Start: 28 @110939 has 6 MA's), (Start: 33 @110951 has 8 MA's), (38, 110960), (Start: 68 @111026 has 125 MA's), (83, 111101), (101, 111215), (109, 111239), (125, 111299), (145, 111410), (153, 111449), (159, 111473), (169, 111515), (196, 111614), (206, 111656), (207, 111662), (210, 111674), (218, 111737), (227, 111797), (228, 111800), (233, 111827), (240, 111869), (256, 111932), (302, 112088), (306, 112106), (309, 112121), (321, 112238), (327, 112277), (342, 112397), (348, 112439), (358, 112484), (360, 112493), (370, 112544), (381, 112586), (397, 112652), (399, 112661), (400, 112664), (401, 112670), (402, 112673), (403, 112682), (404, 112688), (405, 112703), (426, 112790), (445, 112895), (453, 112949), (467, 113036), (473, 113066), (480, 113096), (486, 113129), (488, 113138), (499, 113210), (505, 113240), (533, 113357), (541, 113402), (549, 113444), (579, 113588), (595, 113648), (632, 113750), (659, 113837), (660, 113840), (666, 113858), (676, 113894), (677, 113897), (698, 113957), (703, 113975), (724, 114071), (732, 114101), (736, 114119), (744, 114149), (765, 114242), (769, 114257), (785, 114338), (787, 114344), (789,

114356),

Gene: Jalebi_78 Start: 52937, Stop: 56278, Start Num: 72
Candidate Starts for Jalebi_78:
(47, 52889), (Start: 72 @52937 has 108 MA's), (Start: 81 @52997 has 2 MA's), (Start: 88 @53033 has 7 MA's), (92, 53078), (101, 53120), (162, 53381), (190, 53483), (198, 53516), (214, 53612), (263, 53882), (264, 53891), (289, 53999), (296, 54044), (306, 54086), (326, 54218), (327, 54221), (328, 54251), (331, 54272), (342, 54341), (350, 54395), (372, 54494), (376, 54509), (429, 54725), (433, 54758), (437, 54776), (442, 54794), (452, 54839), (453, 54842), (479, 54938), (487, 54980), (490, 54992), (495, 55028), (517, 55127), (538, 55208), (548, 55250), (553, 55286), (566, 55340), (571, 55358), (589, 55454), (591, 55466), (675, 55661), (704, 55745), (720, 55826), (724, 55850), (728, 55865), (736, 55901), (739, 55913), (740, 55919), (741, 55922), (748, 55949), (759, 55994), (779, 56102), (795, 56147), (801, 56171), (812, 56207),

Gene: Jamemuya19_76 Start: 50306, Stop: 53647, Start Num: 72
Candidate Starts for Jamemuya19_76:
(Start: 72 @50306 has 108 MA's), (Start: 81 @50366 has 2 MA's), (Start: 88 @50402 has 7 MA's), (92, 50447), (101, 50489), (162, 50750), (198, 50885), (214, 50981), (263, 51251), (264, 51260), (289, 51368), (296, 51413), (306, 51455), (318, 51533), (326, 51587), (327, 51590), (328, 51620), (342, 51710), (350, 51764), (372, 51863), (376, 51878), (393, 51920), (429, 52094), (433, 52127), (437, 52145), (442, 52163), (452, 52208), (453, 52211), (479, 52307), (487, 52349), (490, 52361), (495, 52397), (538, 52577), (548, 52619), (553, 52655), (565, 52697), (566, 52709), (571, 52727), (589, 52823), (591, 52835), (675, 53030), (704, 53114), (724, 53219), (728, 53234), (732, 53249), (736, 53270), (739, 53282), (740, 53288), (741, 53291), (748, 53318), (759, 53363), (779, 53471), (795, 53516), (801, 53540), (812, 53576),

Gene: Janiyra_212 Start: 113266, Stop: 116661, Start Num: 68
Candidate Starts for Janiyra_212:
(Start: 26 @113173 has 50 MA's), (Start: 28 @113179 has 6 MA's), (Start: 33 @113191 has 8 MA's), (38, 113200), (Start: 68 @113266 has 125 MA's), (83, 113341), (101, 113455), (109, 113479), (125, 113539), (145, 113650), (153, 113689), (159, 113713), (169, 113755), (196, 113854), (206, 113896), (207, 113902), (210, 113914), (218, 113977), (227, 114037), (228, 114040), (233, 114067), (240, 114109), (256, 114172), (293, 114292), (302, 114328), (306, 114346), (309, 114361), (321, 114478), (327, 114517), (342, 114637), (348, 114679), (358, 114724), (360, 114733), (370, 114784), (381, 114826), (397, 114892), (399, 114901), (400, 114904), (401, 114910), (402, 114913), (403, 114922), (404, 114928), (405, 114943), (426, 115030), (445, 115135), (453, 115189), (467, 115276), (473, 115306), (480, 115336), (486, 115369), (488, 115378), (499, 115450), (505, 115480), (533, 115597), (541, 115642), (549, 115684), (579, 115828), (595, 115888), (632, 115990), (659, 116077), (660, 116080), (666, 116098), (676, 116134), (677, 116137), (698, 116197), (703, 116215), (724, 116311), (732, 116341), (736, 116359), (744, 116389), (765, 116482), (769, 116497), (785, 116578), (787, 116584), (789, 116596),

Gene: Jash_55 Start: 40726, Stop: 37247, Start Num: 69
Candidate Starts for Jash_55:
(Start: 42 @40795 has 1 MA's), (Start: 69 @40726 has 55 MA's), (83, 40654), (Start: 88 @40627 has 7 MA's), (90, 40612), (124, 40450), (129, 40423), (132, 40417), (151, 40327), (155, 40312), (168, 40258), (169, 40255), (191, 40159), (209, 40081), (229, 39934), (238, 39895), (245, 39850), (249, 39829), (256, 39814), (279, 39772), (284, 39760), (297, 39694), (301, 39682), (314, 39619), (329, 39490), (330, 39481), (335, 39445), (349, 39361), (351, 39343), (368, 39286), (369, 39283), (371, 39271), (403, 39133), (404, 39127), (405, 39112), (407, 39106), (416, 39067), (431, 38995), (435, 38962), (465, 38845), (469, 38821), (483, 38764), (487, 38740), (489, 38734), (500, 38665), (511, 38602), (531, 38536), (536, 38515), (541, 38497), (551, 38440), (552, 38431), (575, 38323), (577, 38314), (581, 38302), (583, 38281), (593, 38251), (598, 38224), (625, 38158), (627, 38149), (630,

38137), (655, 38050), (662, 38026), (677, 37978), (712, 37834), (729, 37759), (767, 37585), (775, 37549), (784, 37501), (794, 37468),

Gene: JayJay_211 Start: 113963, Stop: 117358, Start Num: 68
Candidate Starts for JayJay_211:
(Start: 26 @113870 has 50 MA's), (Start: 28 @113876 has 6 MA's), (Start: 33 @113888 has 8 MA's), (38, 113897), (Start: 68 @113963 has 125 MA's), (83, 114038), (101, 114152), (109, 114176), (125, 114236), (145, 114347), (153, 114386), (159, 114410), (169, 114452), (196, 114551), (206, 114593), (207, 114599), (210, 114611), (218, 114674), (227, 114734), (228, 114737), (233, 114764), (240, 114806), (256, 114869), (293, 114989), (302, 115025), (306, 115043), (309, 115058), (321, 115175), (327, 115214), (342, 115334), (348, 115376), (358, 115421), (360, 115430), (370, 115481), (381, 115523), (397, 115589), (399, 115598), (400, 115601), (401, 115607), (402, 115610), (403, 115619), (404, 115625), (405, 115640), (426, 115727), (445, 115832), (453, 115886), (467, 115973), (473, 116003), (480, 116033), (486, 116066), (488, 116075), (499, 116147), (505, 116177), (533, 116294), (541, 116339), (549, 116381), (595, 116585), (632, 116687), (659, 116774), (660, 116777), (666, 116795), (676, 116831), (677, 116834), (698, 116894), (703, 116912), (724, 117008), (732, 117038), (736, 117056), (744, 117086), (765, 117179), (769, 117194), (785, 117275), (787, 117281), (789, 117293),

Gene: Jaygup_205 Start: 112012, Stop: 115482, Start Num: 33
Candidate Starts for Jaygup_205:
(Start: 26 @111994 has 50 MA's), (Start: 28 @112000 has 6 MA's), (Start: 33 @112012 has 8 MA's), (38, 112021), (Start: 68 @112087 has 125 MA's), (83, 112162), (101, 112276), (109, 112300), (125, 112360), (145, 112471), (153, 112510), (159, 112534), (169, 112576), (196, 112675), (206, 112717), (207, 112723), (210, 112735), (218, 112798), (227, 112858), (228, 112861), (233, 112888), (240, 112930), (256, 112993), (302, 113149), (306, 113167), (309, 113182), (321, 113299), (327, 113338), (342, 113458), (348, 113500), (358, 113545), (360, 113554), (370, 113605), (381, 113647), (397, 113713), (399, 113722), (400, 113725), (401, 113731), (402, 113734), (403, 113743), (404, 113749), (405, 113764), (426, 113851), (445, 113956), (453, 114010), (467, 114097), (473, 114127), (480, 114157), (486, 114190), (488, 114199), (499, 114271), (505, 114301), (533, 114418), (541, 114463), (549, 114505), (579, 114649), (595, 114709), (632, 114811), (659, 114898), (660, 114901), (666, 114919), (676, 114955), (677, 114958), (698, 115018), (703, 115036), (724, 115132), (732, 115162), (736, 115180), (744, 115210), (765, 115303), (769, 115318), (785, 115399), (787, 115405), (789, 115417),

Gene: JeanGrey_95 Start: 74979, Stop: 78152, Start Num: 60
Candidate Starts for JeanGrey_95:
(Start: 60 @74979 has 1 MA's), (78, 75033), (90, 75102), (122, 75231), (130, 75279), (140, 75339), (157, 75411), (165, 75459), (170, 75471), (179, 75498), (196, 75564), (198, 75570), (199, 75573), (203, 75594), (218, 75687), (227, 75741), (228, 75744), (233, 75771), (256, 75873), (293, 75993), (307, 76050), (314, 76089), (316, 76092), (317, 76095), (320, 76140), (321, 76143), (330, 76227), (335, 76263), (337, 76275), (352, 76368), (360, 76398), (382, 76467), (388, 76488), (397, 76530), (399, 76539), (401, 76548), (459, 76824), (469, 76875), (492, 76983), (497, 77028), (499, 77031), (529, 77148), (530, 77157), (534, 77172), (567, 77343), (578, 77403), (579, 77406), (683, 77733), (732, 77832), (736, 77850), (765, 77973), (788, 78084), (807, 78132),

Gene: Jedediah_209 Start: 113047, Stop: 116535, Start Num: 26
Candidate Starts for Jedediah_209:
(Start: 26 @113047 has 50 MA's), (Start: 28 @113053 has 6 MA's), (Start: 33 @113065 has 8 MA's), (38, 113074), (Start: 68 @113140 has 125 MA's), (83, 113215), (101, 113329), (109, 113353), (125, 113413), (145, 113524), (153, 113563), (159, 113587), (169, 113629), (196, 113728), (206, 113770), (207, 113776), (210, 113788), (218, 113851), (227, 113911), (228, 113914), (233, 113941), (240, 113983), (256, 114046), (302, 114202), (306, 114220), (309, 114235), (321, 114352), (327, 114391),

(342, 114511), (348, 114553), (358, 114598), (360, 114607), (370, 114658), (381, 114700), (397, 114766), (399, 114775), (400, 114778), (401, 114784), (402, 114787), (403, 114796), (404, 114802), (405, 114817), (426, 114904), (445, 115009), (453, 115063), (467, 115150), (473, 115180), (480, 115210), (486, 115243), (488, 115252), (499, 115324), (505, 115354), (533, 115471), (541, 115516), (549, 115558), (579, 115702), (595, 115762), (632, 115864), (659, 115951), (660, 115954), (666, 115972), (676, 116008), (677, 116011), (698, 116071), (703, 116089), (724, 116185), (732, 116215), (736, 116233), (744, 116263), (765, 116356), (769, 116371), (785, 116452), (787, 116458), (789, 116470),

Gene: Jemmno_208 Start: 111894, Stop: 115364, Start Num: 33
Candidate Starts for Jemmno_208:
(Start: 26 @111876 has 50 MA's), (Start: 28 @111882 has 6 MA's), (Start: 33 @111894 has 8 MA's), (38, 111903), (Start: 68 @111969 has 125 MA's), (83, 112044), (101, 112158), (109, 112182), (125, 112242), (145, 112353), (153, 112392), (159, 112416), (169, 112458), (196, 112557), (206, 112599), (207, 112605), (210, 112617), (218, 112680), (227, 112740), (228, 112743), (233, 112770), (240, 112812), (256, 112875), (293, 112995), (302, 113031), (306, 113049), (309, 113064), (321, 113181), (327, 113220), (342, 113340), (348, 113382), (358, 113427), (360, 113436), (370, 113487), (381, 113529), (397, 113595), (399, 113604), (400, 113607), (401, 113613), (402, 113616), (403, 113625), (404, 113631), (405, 113646), (426, 113733), (445, 113838), (453, 113892), (467, 113979), (473, 114009), (480, 114039), (486, 114072), (488, 114081), (499, 114153), (505, 114183), (533, 114300), (541, 114345), (549, 114387), (579, 114531), (595, 114591), (632, 114693), (659, 114780), (660, 114783), (666, 114801), (676, 114837), (677, 114840), (698, 114900), (703, 114918), (724, 115014), (732, 115044), (736, 115062), (744, 115092), (765, 115185), (769, 115200), (785, 115281), (787, 115287), (789, 115299),

Gene: Jessibeth14_209 Start: 114157, Stop: 117552, Start Num: 68
Candidate Starts for Jessibeth14_209:
(Start: 26 @114064 has 50 MA's), (Start: 28 @114070 has 6 MA's), (Start: 33 @114082 has 8 MA's), (38, 114091), (Start: 68 @114157 has 125 MA's), (83, 114232), (101, 114346), (109, 114370), (125, 114430), (145, 114541), (153, 114580), (159, 114604), (169, 114646), (196, 114745), (206, 114787), (207, 114793), (210, 114805), (218, 114868), (227, 114928), (228, 114931), (233, 114958), (240, 115000), (256, 115063), (293, 115183), (302, 115219), (306, 115237), (309, 115252), (321, 115369), (327, 115408), (342, 115528), (348, 115570), (358, 115615), (360, 115624), (370, 115675), (381, 115717), (397, 115783), (399, 115792), (400, 115795), (401, 115801), (402, 115804), (403, 115813), (404, 115819), (405, 115834), (426, 115921), (445, 116026), (453, 116080), (467, 116167), (473, 116197), (480, 116227), (486, 116260), (488, 116269), (499, 116341), (505, 116371), (533, 116488), (541, 116533), (549, 116575), (579, 116719), (595, 116779), (632, 116881), (659, 116968), (660, 116971), (666, 116989), (676, 117025), (677, 117028), (698, 117088), (703, 117106), (724, 117202), (732, 117232), (736, 117250), (744, 117280), (765, 117373), (769, 117388), (785, 117469), (787, 117475), (789, 117487),

Gene: Jezreel_206 Start: 113134, Stop: 116622, Start Num: 26
Candidate Starts for Jezreel_206:
(Start: 26 @113134 has 50 MA's), (Start: 28 @113140 has 6 MA's), (Start: 33 @113152 has 8 MA's), (38, 113161), (Start: 68 @113227 has 125 MA's), (83, 113302), (101, 113416), (109, 113440), (125, 113500), (145, 113611), (153, 113650), (159, 113674), (169, 113716), (196, 113815), (206, 113857), (207, 113863), (210, 113875), (218, 113938), (227, 113998), (228, 114001), (233, 114028), (240, 114070), (256, 114133), (302, 114289), (306, 114307), (309, 114322), (321, 114439), (327, 114478), (342, 114598), (348, 114640), (358, 114685), (360, 114694), (370, 114745), (381, 114787), (397, 114853), (399, 114862), (400, 114865), (401, 114871), (402, 114874), (403, 114883), (404, 114889), (405, 114904), (426, 114991), (445, 115096), (453, 115150), (467, 115237), (473, 115267), (480, 115297), (486, 115330), (488, 115339), (499, 115411), (505, 115441), (533, 115558), (541, 115603), (549, 115645), (579, 115789), (595, 115849), (632, 115951), (659, 116038), (660, 116041), (666,

116059), (676, 116095), (677, 116098), (698, 116158), (703, 116176), (724, 116272), (732, 116302), (736, 116320), (744, 116350), (765, 116443), (769, 116458), (785, 116539), (787, 116545), (789, 116557),

Gene: Jifall16_59 Start: 48758, Stop: 45447, Start Num: 72
Candidate Starts for Jifall16_59:
(5, 49001), (Start: 72 @48758 has 108 MA's), (84, 48686), (Start: 88 @48662 has 7 MA's), (126, 48509), (128, 48500), (150, 48377), (190, 48218), (192, 48212), (197, 48188), (215, 48080), (221, 48050), (231, 47981), (269, 47843), (271, 47825), (306, 47672), (314, 47630), (324, 47552), (326, 47537), (346, 47399), (396, 47201), (405, 47147), (406, 47144), (419, 47084), (429, 47033), (442, 46964), (452, 46919), (502, 46679), (511, 46637), (512, 46634), (514, 46628), (519, 46610), (543, 46514), (553, 46460), (584, 46316), (589, 46307), (616, 46232), (636, 46157), (647, 46103), (662, 46061), (677, 46013), (699, 45932), (706, 45911), (724, 45821), (732, 45791), (737, 45767), (738, 45764), (778, 45581), (796, 45524),

Gene: JigglyPuff_216 Start: 115537, Stop: 118932, Start Num: 68
Candidate Starts for JigglyPuff_216:
(Start: 26 @115444 has 50 MA's), (Start: 28 @115450 has 6 MA's), (Start: 33 @115462 has 8 MA's), (38, 115471), (Start: 68 @115537 has 125 MA's), (83, 115612), (101, 115726), (109, 115750), (125, 115810), (145, 115921), (153, 115960), (159, 115984), (169, 116026), (196, 116125), (206, 116167), (207, 116173), (210, 116185), (218, 116248), (227, 116308), (228, 116311), (233, 116338), (240, 116380), (256, 116443), (302, 116599), (306, 116617), (309, 116632), (321, 116749), (327, 116788), (342, 116908), (348, 116950), (358, 116995), (360, 117004), (370, 117055), (381, 117097), (397, 117163), (399, 117172), (400, 117175), (401, 117181), (402, 117184), (403, 117193), (404, 117199), (405, 117214), (426, 117301), (445, 117406), (453, 117460), (467, 117547), (473, 117577), (480, 117607), (486, 117640), (488, 117649), (499, 117721), (505, 117751), (533, 117868), (541, 117913), (549, 117955), (579, 118099), (595, 118159), (632, 118261), (659, 118348), (660, 118351), (666, 118369), (676, 118405), (677, 118408), (698, 118468), (703, 118486), (724, 118582), (732, 118612), (736, 118630), (744, 118660), (765, 118753), (769, 118768), (785, 118849), (787, 118855), (789, 118867),

Gene: JulietS_200 Start: 110258, Stop: 113653, Start Num: 68
Candidate Starts for JulietS_200:
(Start: 18 @110135 has 6 MA's), (Start: 26 @110165 has 50 MA's), (Start: 28 @110171 has 6 MA's), (Start: 33 @110183 has 8 MA's), (38, 110192), (Start: 68 @110258 has 125 MA's), (83, 110333), (101, 110447), (109, 110471), (125, 110531), (145, 110642), (153, 110681), (159, 110705), (169, 110747), (196, 110846), (206, 110888), (207, 110894), (210, 110906), (218, 110969), (227, 111029), (228, 111032), (233, 111059), (240, 111101), (256, 111164), (293, 111284), (302, 111320), (306, 111338), (309, 111353), (321, 111470), (327, 111509), (342, 111629), (348, 111671), (358, 111716), (360, 111725), (370, 111776), (381, 111818), (397, 111884), (399, 111893), (400, 111896), (401, 111902), (402, 111905), (403, 111914), (404, 111920), (405, 111935), (426, 112022), (445, 112127), (453, 112181), (467, 112268), (473, 112298), (480, 112328), (486, 112361), (488, 112370), (499, 112442), (505, 112472), (533, 112589), (541, 112634), (549, 112676), (579, 112820), (595, 112880), (632, 112982), (659, 113069), (660, 113072), (666, 113090), (676, 113126), (677, 113129), (698, 113189), (703, 113207), (724, 113303), (732, 113333), (736, 113351), (744, 113381), (765, 113474), (769, 113489), (785, 113570), (787, 113576), (789, 113588),

Gene: JustHall_203 Start: 112173, Stop: 115568, Start Num: 68
Candidate Starts for JustHall_203:
(Start: 26 @112080 has 50 MA's), (Start: 28 @112086 has 6 MA's), (Start: 33 @112098 has 8 MA's), (38, 112107), (Start: 68 @112173 has 125 MA's), (83, 112248), (101, 112362), (109, 112386), (125, 112446), (145, 112557), (153, 112596), (159, 112620), (169, 112662), (196, 112761), (206, 112803), (207, 112809), (210, 112821), (218, 112884), (227, 112944), (228, 112947), (233, 112974), (240,

113016), (256, 113079), (293, 113199), (302, 113235), (306, 113253), (309, 113268), (321, 113385), (327, 113424), (342, 113544), (348, 113586), (358, 113631), (360, 113640), (370, 113691), (381, 113733), (397, 113799), (399, 113808), (400, 113811), (401, 113817), (402, 113820), (403, 113829), (404, 113835), (405, 113850), (426, 113937), (445, 114042), (453, 114096), (467, 114183), (473, 114213), (480, 114243), (486, 114276), (488, 114285), (499, 114357), (505, 114387), (533, 114504), (541, 114549), (549, 114591), (579, 114735), (595, 114795), (632, 114897), (659, 114984), (660, 114987), (666, 115005), (676, 115041), (677, 115044), (698, 115104), (703, 115122), (724, 115218), (732, 115248), (736, 115266), (744, 115296), (765, 115389), (769, 115404), (785, 115485), (787, 115491), (789, 115503),

Gene: Kabluna_63 Start: 47955, Stop: 44653, Start Num: 72
Candidate Starts for Kabluna_63:
(Start: 72 @47955 has 108 MA's), (Start: 88 @47859 has 7 MA's), (126, 47706), (128, 47697), (150, 47574), (190, 47415), (192, 47409), (197, 47385), (215, 47277), (234, 47166), (269, 47040), (306, 46869), (314, 46827), (324, 46749), (326, 46734), (346, 46596), (371, 46464), (396, 46398), (406, 46341), (419, 46281), (429, 46230), (442, 46161), (452, 46116), (502, 45873), (511, 45831), (512, 45828), (514, 45822), (519, 45804), (543, 45708), (553, 45654), (589, 45501), (607, 45441), (616, 45426), (647, 45297), (677, 45219), (697, 45159), (699, 45138), (700, 45135), (706, 45117), (722, 45033), (737, 44973), (744, 44946), (745, 44943), (760, 44877), (808, 44694), (814, 44664),

Gene: Kabocha_99 Start: 71499, Stop: 74312, Start Num: 59
Candidate Starts for Kabocha_99:
(Start: 52 @71484 has 1 MA's), (Start: 56 @71496 has 1 MA's), (Start: 59 @71499 has 9 MA's), (83, 71592), (91, 71652), (126, 71802), (127, 71805), (128, 71811), (146, 71910), (152, 71940), (153, 71943), (169, 72006), (174, 72027), (175, 72030), (185, 72057), (207, 72174), (209, 72183), (217, 72240), (219, 72249), (229, 72315), (242, 72381), (297, 72546), (302, 72564), (305, 72579), (307, 72585), (309, 72597), (316, 72624), (317, 72627), (323, 72687), (324, 72696), (325, 72699), (327, 72711), (330, 72756), (341, 72825), (345, 72849), (375, 73005), (379, 73023), (386, 73047), (389, 73065), (407, 73161), (415, 73203), (417, 73209), (426, 73245), (427, 73254), (430, 73272), (431, 73278), (433, 73302), (434, 73308), (435, 73311), (441, 73329), (442, 73332), (465, 73425), (475, 73470), (477, 73476), (481, 73500), (482, 73503), (484, 73512), (485, 73518), (487, 73530), (509, 73647), (511, 73665), (512, 73668), (515, 73677), (542, 73791), (546, 73806), (575, 73953), (578, 73965), (580, 73971), (590, 74004), (596, 74037), (599, 74055), (604, 74067), (606, 74076), (642, 74190), (651, 74202), (656, 74217), (680, 74292), (683, 74301),

Gene: Kamryn_208 Start: 113803, Stop: 117198, Start Num: 68
Candidate Starts for Kamryn_208:
(Start: 26 @113710 has 50 MA's), (Start: 28 @113716 has 6 MA's), (Start: 33 @113728 has 8 MA's), (38, 113737), (Start: 68 @113803 has 125 MA's), (83, 113878), (101, 113992), (109, 114016), (125, 114076), (145, 114187), (153, 114226), (159, 114250), (169, 114292), (196, 114391), (206, 114433), (207, 114439), (210, 114451), (218, 114514), (227, 114574), (228, 114577), (233, 114604), (240, 114646), (256, 114709), (302, 114865), (306, 114883), (309, 114898), (321, 115015), (327, 115054), (342, 115174), (348, 115216), (358, 115261), (360, 115270), (370, 115321), (381, 115363), (397, 115429), (399, 115438), (400, 115441), (401, 115447), (402, 115450), (403, 115459), (404, 115465), (405, 115480), (426, 115567), (445, 115672), (453, 115726), (467, 115813), (473, 115843), (480, 115873), (486, 115906), (488, 115915), (499, 115987), (505, 116017), (533, 116134), (541, 116179), (549, 116221), (579, 116365), (595, 116425), (632, 116527), (659, 116614), (660, 116617), (666, 116635), (676, 116671), (677, 116674), (698, 116734), (703, 116752), (724, 116848), (732, 116878), (736, 116896), (744, 116926), (765, 117019), (769, 117034), (785, 117115), (787, 117121), (789, 117133),

Gene: KandZ_65 Start: 49894, Stop: 53196, Start Num: 25
Candidate Starts for KandZ_65:

(Start: 25 @49894 has 21 MA's), (Start: 61 @49981 has 1 MA's), (Start: 65 @49987 has 3 MA's), (Start: 72 @49996 has 108 MA's), (Start: 88 @50092 has 7 MA's), (128, 50248), (143, 50335), (144, 50338), (156, 50389), (214, 50653), (221, 50692), (232, 50764), (234, 50773), (247, 50848), (266, 50914), (269, 50920), (283, 50974), (289, 50992), (297, 51043), (298, 51046), (305, 51076), (319, 51160), (320, 51169), (324, 51196), (326, 51211), (350, 51388), (351, 51397), (376, 51502), (403, 51583), (413, 51643), (429, 51718), (433, 51751), (434, 51757), (440, 51778), (442, 51787), (452, 51832), (471, 51901), (476, 51916), (490, 51985), (501, 52048), (509, 52081), (510, 52084), (521, 52135), (540, 52210), (566, 52333), (571, 52351), (587, 52429), (589, 52432), (591, 52444), (601, 52489), (610, 52510), (613, 52522), (622, 52552), (627, 52573), (687, 52645), (704, 52702), (723, 52801), (739, 52867), (761, 52957), (767, 52987), (768, 52990), (774, 53020), (782, 53065), (796, 53107), (806, 53137), (809, 53149), (812, 53164), (814, 53173),

Gene: Katalie_54 Start: 42740, Stop: 39261, Start Num: 69
Candidate Starts for Katalie_54:
(Start: 42 @42806 has 1 MA's), (Start: 69 @42740 has 55 MA's), (Start: 81 @42677 has 2 MA's), (83, 42668), (85, 42656), (90, 42626), (105, 42533), (117, 42500), (124, 42464), (138, 42395), (151, 42341), (169, 42269), (191, 42173), (209, 42095), (229, 41948), (238, 41909), (245, 41864), (249, 41843), (256, 41828), (273, 41807), (297, 41708), (301, 41696), (314, 41633), (328, 41510), (329, 41504), (335, 41459), (349, 41375), (351, 41357), (368, 41300), (369, 41297), (371, 41285), (403, 41147), (405, 41126), (407, 41120), (409, 41105), (420, 41063), (430, 41015), (431, 41009), (435, 40976), (469, 40835), (483, 40778), (487, 40754), (489, 40748), (500, 40679), (510, 40631), (511, 40616), (517, 40595), (531, 40550), (551, 40454), (552, 40445), (575, 40337), (577, 40328), (581, 40316), (583, 40295), (593, 40265), (598, 40238), (627, 40163), (630, 40151), (655, 40064), (662, 40040), (712, 39848), (738, 39737), (767, 39599), (775, 39563), (784, 39515), (786, 39509), (794, 39482), (818, 39350), (819, 39338), (820, 39332), (822, 39275),

Gene: Kboogie_213 Start: 112831, Stop: 116226, Start Num: 68
Candidate Starts for Kboogie_213:
(Start: 26 @112738 has 50 MA's), (Start: 28 @112744 has 6 MA's), (Start: 33 @112756 has 8 MA's), (38, 112765), (Start: 68 @112831 has 125 MA's), (83, 112906), (101, 113020), (109, 113044), (125, 113104), (145, 113215), (153, 113254), (159, 113278), (169, 113320), (196, 113419), (206, 113461), (207, 113467), (210, 113479), (218, 113542), (227, 113602), (228, 113605), (233, 113632), (240, 113674), (256, 113737), (293, 113857), (302, 113893), (306, 113911), (309, 113926), (321, 114043), (327, 114082), (342, 114202), (348, 114244), (358, 114289), (360, 114298), (370, 114349), (381, 114391), (397, 114457), (399, 114466), (400, 114469), (401, 114475), (402, 114478), (403, 114487), (404, 114493), (405, 114508), (426, 114595), (445, 114700), (453, 114754), (467, 114841), (473, 114871), (480, 114901), (486, 114934), (488, 114943), (499, 115015), (505, 115045), (533, 115162), (541, 115207), (549, 115249), (579, 115393), (595, 115453), (632, 115555), (659, 115642), (660, 115645), (666, 115663), (676, 115699), (677, 115702), (698, 115762), (703, 115780), (724, 115876), (732, 115906), (736, 115924), (744, 115954), (765, 116047), (769, 116062), (785, 116143), (787, 116149), (789, 116161),

Gene: Khaleesi_208 Start: 113624, Stop: 117019, Start Num: 68
Candidate Starts for Khaleesi_208:
(Start: 26 @113531 has 50 MA's), (Start: 28 @113537 has 6 MA's), (Start: 33 @113549 has 8 MA's), (38, 113558), (Start: 68 @113624 has 125 MA's), (83, 113699), (101, 113813), (109, 113837), (125, 113897), (145, 114008), (153, 114047), (159, 114071), (169, 114113), (196, 114212), (206, 114254), (207, 114260), (210, 114272), (218, 114335), (227, 114395), (228, 114398), (233, 114425), (240, 114467), (256, 114530), (293, 114650), (302, 114686), (306, 114704), (309, 114719), (321, 114836), (327, 114875), (342, 114995), (348, 115037), (358, 115082), (360, 115091), (370, 115142), (381, 115184), (397, 115250), (399, 115259), (400, 115262), (401, 115268), (402, 115271), (403, 115280), (404, 115286), (405, 115301), (426, 115388), (445, 115493), (453, 115547), (467, 115634), (473, 115664), (480, 115694), (486, 115727), (488, 115736), (499, 115808), (505, 115838), (533, 115955),

(541, 116000), (549, 116042), (579, 116186), (595, 116246), (632, 116348), (659, 116435), (660, 116438), (666, 116456), (676, 116492), (677, 116495), (698, 116555), (703, 116573), (724, 116669), (732, 116699), (736, 116717), (744, 116747), (765, 116840), (769, 116855), (785, 116936), (787, 116942), (789, 116954),

Gene: KidneyBean_60 Start: 48882, Stop: 45571, Start Num: 72
Candidate Starts for KidneyBean_60:
(5, 49125), (Start: 72 @48882 has 108 MA's), (84, 48810), (Start: 88 @48786 has 7 MA's), (126, 48633), (128, 48624), (150, 48501), (190, 48342), (192, 48336), (197, 48312), (215, 48204), (221, 48174), (231, 48105), (269, 47967), (271, 47949), (306, 47796), (314, 47754), (324, 47676), (326, 47661), (346, 47523), (396, 47325), (405, 47271), (406, 47268), (419, 47208), (429, 47157), (442, 47088), (452, 47043), (502, 46803), (511, 46761), (512, 46758), (514, 46752), (519, 46734), (543, 46638), (553, 46584), (584, 46440), (589, 46431), (616, 46356), (636, 46281), (647, 46227), (662, 46185), (677, 46137), (699, 46056), (706, 46035), (724, 45945), (732, 45915), (737, 45891), (738, 45888), (778, 45705), (796, 45648),

Gene: Kimchi1738_43 Start: 41039, Stop: 37746, Start Num: 72
Candidate Starts for Kimchi1738_43:
(Start: 72 @41039 has 108 MA's), (80, 40982), (85, 40958), (Start: 88 @40943 has 7 MA's), (89, 40934), (128, 40787), (177, 40505), (190, 40427), (244, 40118), (276, 40013), (297, 39911), (322, 39776), (324, 39758), (326, 39743), (337, 39647), (384, 39428), (385, 39425), (393, 39410), (402, 39380), (405, 39350), (429, 39233), (433, 39200), (439, 39173), (445, 39149), (479, 39002), (490, 38948), (493, 38927), (510, 38852), (512, 38834), (553, 38657), (564, 38627), (567, 38600), (571, 38585), (604, 38456), (637, 38423), (667, 38336), (704, 38222), (706, 38216), (708, 38204), (741, 38054), (742, 38051), (744, 38045), (748, 38027), (749, 38018), (753, 38000), (779, 37874), (789, 37838), (792, 37832),

Gene: Koguma_208 Start: 112391, Stop: 115879, Start Num: 26
Candidate Starts for Koguma_208:
(Start: 18 @112361 has 6 MA's), (Start: 26 @112391 has 50 MA's), (Start: 28 @112397 has 6 MA's), (Start: 33 @112409 has 8 MA's), (38, 112418), (Start: 68 @112484 has 125 MA's), (83, 112559), (101, 112673), (109, 112697), (125, 112757), (145, 112868), (153, 112907), (159, 112931), (169, 112973), (196, 113072), (206, 113114), (207, 113120), (210, 113132), (218, 113195), (227, 113255), (228, 113258), (233, 113285), (240, 113327), (256, 113390), (293, 113510), (302, 113546), (306, 113564), (309, 113579), (321, 113696), (327, 113735), (342, 113855), (348, 113897), (358, 113942), (360, 113951), (370, 114002), (381, 114044), (397, 114110), (399, 114119), (400, 114122), (401, 114128), (402, 114131), (403, 114140), (404, 114146), (405, 114161), (426, 114248), (445, 114353), (453, 114407), (467, 114494), (473, 114524), (480, 114554), (486, 114587), (488, 114596), (499, 114668), (505, 114698), (533, 114815), (541, 114860), (549, 114902), (579, 115046), (595, 115106), (632, 115208), (659, 115295), (660, 115298), (666, 115316), (676, 115352), (677, 115355), (698, 115415), (703, 115433), (724, 115529), (732, 115559), (736, 115577), (744, 115607), (765, 115700), (769, 115715), (785, 115796), (787, 115802), (789, 115814),

Gene: Konstantine_80 Start: 55996, Stop: 59292, Start Num: 72
Candidate Starts for Konstantine_80:
(Start: 55 @55969 has 2 MA's), (Start: 72 @55996 has 108 MA's), (84, 56068), (Start: 88 @56092 has 7 MA's), (91, 56125), (128, 56260), (145, 56353), (148, 56371), (160, 56419), (173, 56479), (214, 56671), (259, 56905), (275, 56962), (289, 57016), (295, 57061), (303, 57088), (308, 57115), (309, 57118), (321, 57196), (326, 57241), (329, 57280), (334, 57322), (347, 57400), (350, 57418), (353, 57436), (357, 57448), (373, 57523), (406, 57679), (423, 57763), (434, 57841), (440, 57862), (442, 57871), (443, 57877), (446, 57886), (461, 57958), (464, 57973), (471, 58012), (475, 58024), (493, 58117), (494, 58123), (503, 58171), (512, 58213), (550, 58363), (551, 58375), (571, 58459), (597, 58600), (639, 58705), (700, 58804), (703, 58813), (718, 58891), (727, 58930), (730, 58945), (741,

58993), (763, 59089), (768, 59107), (774, 59134), (783, 59182), (793, 59212), (795, 59215), (799, 59230), (809, 59260), (811, 59269), (812, 59275), (813, 59278),

Gene: Kurt_60 Start: 49119, Stop: 45808, Start Num: 72
Candidate Starts for Kurt_60:
(5, 49362), (Start: 72 @49119 has 108 MA's), (84, 49047), (Start: 88 @49023 has 7 MA's), (126, 48870), (128, 48861), (150, 48738), (190, 48579), (192, 48573), (197, 48549), (215, 48441), (221, 48411), (231, 48342), (269, 48204), (271, 48186), (306, 48033), (314, 47991), (324, 47913), (326, 47898), (346, 47760), (396, 47562), (405, 47508), (406, 47505), (419, 47445), (429, 47394), (442, 47325), (452, 47280), (502, 47040), (511, 46998), (512, 46995), (514, 46989), (519, 46971), (543, 46875), (553, 46821), (584, 46677), (589, 46668), (616, 46593), (636, 46518), (647, 46464), (662, 46422), (677, 46374), (699, 46293), (706, 46272), (724, 46182), (732, 46152), (737, 46128), (738, 46125), (778, 45942), (796, 45885),

Gene: LRRHood_202 Start: 112706, Stop: 116224, Start Num: 18
Candidate Starts for LRRHood_202:
(Start: 18 @112706 has 6 MA's), (Start: 26 @112736 has 50 MA's), (Start: 28 @112742 has 6 MA's), (Start: 33 @112754 has 8 MA's), (38, 112763), (Start: 68 @112829 has 125 MA's), (83, 112904), (101, 113018), (109, 113042), (125, 113102), (145, 113213), (153, 113252), (159, 113276), (169, 113318), (196, 113417), (206, 113459), (207, 113465), (210, 113477), (218, 113540), (227, 113600), (228, 113603), (233, 113630), (240, 113672), (256, 113735), (293, 113855), (302, 113891), (306, 113909), (309, 113924), (321, 114041), (327, 114080), (342, 114200), (348, 114242), (358, 114287), (360, 114296), (370, 114347), (381, 114389), (397, 114455), (399, 114464), (400, 114467), (401, 114473), (402, 114476), (403, 114485), (404, 114491), (405, 114506), (426, 114593), (445, 114698), (453, 114752), (467, 114839), (473, 114869), (480, 114899), (486, 114932), (488, 114941), (499, 115013), (505, 115043), (533, 115160), (541, 115205), (549, 115247), (579, 115391), (595, 115451), (632, 115553), (659, 115640), (660, 115643), (666, 115661), (676, 115697), (677, 115700), (698, 115760), (703, 115778), (724, 115874), (732, 115904), (736, 115922), (744, 115952), (765, 116045), (769, 116060), (785, 116141), (787, 116147), (789, 116159),

Gene: Labelle_90 Start: 57766, Stop: 60999, Start Num: 72
Candidate Starts for Labelle_90:
(Start: 57 @57739 has 3 MA's), (Start: 72 @57766 has 108 MA's), (Start: 88 @57862 has 7 MA's), (128, 58027), (149, 58141), (160, 58186), (167, 58225), (186, 58276), (214, 58441), (321, 58939), (326, 58984), (329, 59023), (365, 59227), (384, 59308), (403, 59368), (411, 59419), (429, 59515), (431, 59524), (433, 59548), (434, 59554), (442, 59584), (443, 59590), (446, 59599), (471, 59722), (472, 59725), (475, 59734), (484, 59776), (487, 59794), (512, 59926), (571, 60172), (600, 60322), (624, 60379), (639, 60421), (670, 60445), (704, 60514), (739, 60682), (761, 60772), (774, 60844), (792, 60919),

Gene: Labradorite_209 Start: 111485, Stop: 114973, Start Num: 26
Candidate Starts for Labradorite_209:
(Start: 26 @111485 has 50 MA's), (Start: 28 @111491 has 6 MA's), (Start: 33 @111503 has 8 MA's), (38, 111512), (Start: 68 @111578 has 125 MA's), (83, 111653), (101, 111767), (109, 111791), (125, 111851), (145, 111962), (153, 112001), (159, 112025), (169, 112067), (196, 112166), (206, 112208), (207, 112214), (210, 112226), (218, 112289), (227, 112349), (228, 112352), (233, 112379), (240, 112421), (256, 112484), (302, 112640), (306, 112658), (309, 112673), (321, 112790), (327, 112829), (342, 112949), (348, 112991), (358, 113036), (360, 113045), (370, 113096), (381, 113138), (397, 113204), (399, 113213), (400, 113216), (401, 113222), (402, 113225), (403, 113234), (404, 113240), (405, 113255), (426, 113342), (445, 113447), (453, 113501), (467, 113588), (473, 113618), (480, 113648), (486, 113681), (488, 113690), (499, 113762), (505, 113792), (533, 113909), (541, 113954), (549, 113996), (579, 114140), (595, 114200), (632, 114302), (659, 114389), (660, 114392), (666, 114410), (676, 114446), (677, 114449), (698, 114509), (703, 114527), (724, 114623), (732, 114653),

(736, 114671), (744, 114701), (765, 114794), (769, 114809), (785, 114890), (787, 114896), (789, 114908),

Gene: Lambo_77 Start: 51507, Stop: 54848, Start Num: 72
Candidate Starts for Lambo_77:
(47, 51459), (Start: 72 @51507 has 108 MA's), (Start: 81 @51567 has 2 MA's), (Start: 88 @51603 has 7 MA's), (92, 51648), (101, 51690), (162, 51951), (190, 52053), (198, 52086), (214, 52182), (263, 52452), (264, 52461), (289, 52569), (296, 52614), (306, 52656), (326, 52788), (327, 52791), (328, 52821), (331, 52842), (342, 52911), (351, 52974), (372, 53064), (376, 53079), (393, 53121), (429, 53295), (433, 53328), (437, 53346), (442, 53364), (452, 53409), (453, 53412), (479, 53508), (487, 53550), (490, 53562), (495, 53598), (538, 53778), (548, 53820), (553, 53856), (566, 53910), (571, 53928), (589, 54024), (591, 54036), (675, 54231), (704, 54315), (720, 54396), (724, 54420), (728, 54435), (736, 54471), (739, 54483), (740, 54489), (741, 54492), (748, 54519), (759, 54564), (779, 54672), (795, 54717), (801, 54741), (812, 54777),

Gene: Lannister_54 Start: 41433, Stop: 37954, Start Num: 69
Candidate Starts for Lannister_54:
(Start: 69 @41433 has 55 MA's), (Start: 81 @41370 has 2 MA's), (83, 41361), (105, 41226), (117, 41193), (124, 41157), (138, 41088), (151, 41034), (169, 40962), (187, 40899), (191, 40866), (209, 40788), (229, 40641), (238, 40602), (245, 40557), (249, 40536), (256, 40521), (273, 40500), (297, 40401), (301, 40389), (314, 40326), (328, 40203), (329, 40197), (349, 40068), (351, 40050), (368, 39993), (369, 39990), (371, 39978), (394, 39882), (403, 39840), (404, 39834), (405, 39819), (407, 39813), (414, 39780), (428, 39717), (431, 39702), (435, 39669), (465, 39552), (469, 39528), (487, 39447), (500, 39372), (511, 39309), (531, 39243), (541, 39204), (551, 39147), (552, 39138), (575, 39030), (577, 39021), (581, 39009), (583, 38988), (593, 38958), (598, 38931), (625, 38865), (627, 38856), (630, 38844), (643, 38781), (655, 38757), (662, 38733), (699, 38595), (701, 38589), (712, 38541), (738, 38430), (767, 38292), (770, 38283), (775, 38256), (784, 38208), (786, 38202), (794, 38175), (819, 38031), (821, 38010),

Gene: Latch_209 Start: 112377, Stop: 115772, Start Num: 68
Candidate Starts for Latch_209:
(Start: 26 @112284 has 50 MA's), (Start: 28 @112290 has 6 MA's), (Start: 33 @112302 has 8 MA's), (38, 112311), (Start: 68 @112377 has 125 MA's), (83, 112452), (101, 112566), (109, 112590), (125, 112650), (145, 112761), (153, 112800), (159, 112824), (169, 112866), (196, 112965), (206, 113007), (207, 113013), (210, 113025), (218, 113088), (227, 113148), (228, 113151), (233, 113178), (240, 113220), (256, 113283), (293, 113403), (302, 113439), (306, 113457), (309, 113472), (321, 113589), (327, 113628), (342, 113748), (348, 113790), (358, 113835), (360, 113844), (370, 113895), (381, 113937), (397, 114003), (399, 114012), (400, 114015), (401, 114021), (402, 114024), (403, 114033), (404, 114039), (405, 114054), (426, 114141), (445, 114246), (453, 114300), (467, 114387), (473, 114417), (480, 114447), (486, 114480), (488, 114489), (499, 114561), (505, 114591), (533, 114708), (541, 114753), (549, 114795), (579, 114939), (595, 114999), (632, 115101), (659, 115188), (660, 115191), (666, 115209), (676, 115245), (677, 115248), (698, 115308), (703, 115326), (724, 115422), (732, 115452), (736, 115470), (744, 115500), (765, 115593), (769, 115608), (785, 115689), (787, 115695), (789, 115707),

Gene: LavAbarElk_78 Start: 51143, Stop: 54484, Start Num: 72
Candidate Starts for LavAbarElk_78:
(48, 51101), (Start: 72 @51143 has 108 MA's), (Start: 81 @51203 has 2 MA's), (Start: 88 @51239 has 7 MA's), (92, 51284), (101, 51326), (162, 51587), (190, 51689), (198, 51722), (214, 51818), (263, 52088), (264, 52097), (289, 52205), (296, 52250), (306, 52292), (326, 52424), (327, 52427), (328, 52457), (331, 52478), (342, 52547), (350, 52601), (372, 52700), (376, 52715), (393, 52757), (429, 52931), (433, 52964), (437, 52982), (442, 53000), (452, 53045), (453, 53048), (479, 53144), (487, 53186), (490, 53198), (495, 53234), (538, 53414), (548, 53456), (553, 53492), (566, 53546), (571,

53564), (589, 53660), (591, 53672), (675, 53867), (704, 53951), (724, 54056), (728, 54071), (736, 54107), (739, 54119), (740, 54125), (741, 54128), (748, 54155), (759, 54200), (779, 54308), (795, 54353), (801, 54377), (812, 54413),

Gene: Lee7_213 Start: 115004, Stop: 118399, Start Num: 68
Candidate Starts for Lee7_213:
(Start: 26 @114911 has 50 MA's), (Start: 28 @114917 has 6 MA's), (Start: 33 @114929 has 8 MA's), (38, 114938), (Start: 68 @115004 has 125 MA's), (83, 115079), (101, 115193), (109, 115217), (125, 115277), (145, 115388), (153, 115427), (159, 115451), (169, 115493), (196, 115592), (206, 115634), (207, 115640), (210, 115652), (218, 115715), (227, 115775), (228, 115778), (233, 115805), (240, 115847), (256, 115910), (293, 116030), (302, 116066), (306, 116084), (309, 116099), (321, 116216), (327, 116255), (342, 116375), (348, 116417), (358, 116462), (360, 116471), (370, 116522), (381, 116564), (397, 116630), (399, 116639), (400, 116642), (401, 116648), (402, 116651), (403, 116660), (404, 116666), (405, 116681), (426, 116768), (445, 116873), (453, 116927), (467, 117014), (473, 117044), (480, 117074), (486, 117107), (488, 117116), (499, 117188), (505, 117218), (533, 117335), (541, 117380), (549, 117422), (579, 117566), (595, 117626), (632, 117728), (659, 117815), (660, 117818), (666, 117836), (676, 117872), (677, 117875), (698, 117935), (703, 117953), (724, 118049), (732, 118079), (736, 118097), (744, 118127), (765, 118220), (769, 118235), (785, 118316), (787, 118322), (789, 118334),

Gene: Legacy_52 Start: 40331, Stop: 36852, Start Num: 69
Candidate Starts for Legacy_52:
(Start: 69 @40331 has 55 MA's), (83, 40259), (Start: 88 @40232 has 7 MA's), (90, 40217), (124, 40055), (129, 40028), (132, 40022), (151, 39932), (155, 39917), (168, 39863), (169, 39860), (191, 39764), (209, 39686), (229, 39539), (238, 39500), (245, 39455), (249, 39434), (256, 39419), (279, 39377), (284, 39365), (297, 39299), (301, 39287), (314, 39224), (329, 39095), (330, 39086), (335, 39050), (349, 38966), (351, 38948), (368, 38891), (369, 38888), (371, 38876), (403, 38738), (404, 38732), (405, 38717), (407, 38711), (414, 38678), (431, 38600), (435, 38567), (469, 38426), (483, 38369), (487, 38345), (489, 38339), (500, 38270), (511, 38207), (531, 38141), (536, 38120), (541, 38102), (551, 38045), (552, 38036), (575, 37928), (577, 37919), (581, 37907), (583, 37886), (593, 37856), (598, 37829), (625, 37763), (627, 37754), (630, 37742), (655, 37655), (662, 37631), (677, 37583), (712, 37439), (729, 37364), (767, 37190), (775, 37154), (784, 37106), (794, 37073), (819, 36929),

Gene: Lenoshki_97 Start: 71922, Stop: 74735, Start Num: 59
Candidate Starts for Lenoshki_97:
(Start: 52 @71907 has 1 MA's), (Start: 56 @71919 has 1 MA's), (Start: 59 @71922 has 9 MA's), (83, 72015), (91, 72075), (126, 72225), (127, 72228), (128, 72234), (136, 72276), (146, 72333), (152, 72363), (153, 72366), (154, 72369), (169, 72429), (174, 72450), (175, 72453), (185, 72480), (201, 72570), (207, 72597), (209, 72606), (217, 72663), (219, 72672), (242, 72804), (297, 72969), (302, 72987), (305, 73002), (307, 73008), (309, 73020), (316, 73047), (317, 73050), (323, 73110), (324, 73119), (325, 73122), (327, 73134), (330, 73179), (341, 73248), (345, 73272), (375, 73428), (386, 73470), (389, 73488), (407, 73584), (415, 73626), (426, 73668), (427, 73677), (430, 73695), (431, 73701), (433, 73725), (434, 73731), (435, 73734), (441, 73752), (442, 73755), (465, 73848), (475, 73893), (477, 73899), (481, 73923), (482, 73926), (484, 73935), (485, 73941), (487, 73953), (509, 74070), (511, 74088), (512, 74091), (515, 74100), (542, 74214), (546, 74229), (575, 74376), (578, 74388), (580, 74394), (596, 74460), (599, 74478), (604, 74490), (606, 74499), (642, 74613), (651, 74625), (656, 74640), (680, 74715), (683, 74724),

Gene: Lethe_209 Start: 114267, Stop: 117662, Start Num: 68
Candidate Starts for Lethe_209:
(Start: 26 @114174 has 50 MA's), (Start: 28 @114180 has 6 MA's), (Start: 33 @114192 has 8 MA's), (38, 114201), (Start: 68 @114267 has 125 MA's), (83, 114342), (101, 114456), (109, 114480), (125,

114540), (145, 114651), (153, 114690), (159, 114714), (169, 114756), (196, 114855), (206, 114897), (207, 114903), (210, 114915), (218, 114978), (227, 115038), (228, 115041), (233, 115068), (240, 115110), (256, 115173), (293, 115293), (302, 115329), (306, 115347), (309, 115362), (321, 115479), (327, 115518), (342, 115638), (348, 115680), (358, 115725), (360, 115734), (370, 115785), (381, 115827), (397, 115893), (399, 115902), (400, 115905), (401, 115911), (402, 115914), (403, 115923), (404, 115929), (405, 115944), (426, 116031), (445, 116136), (453, 116190), (467, 116277), (473, 116307), (480, 116337), (486, 116370), (488, 116379), (499, 116451), (505, 116481), (533, 116598), (541, 116643), (549, 116685), (579, 116829), (595, 116889), (632, 116991), (659, 117078), (660, 117081), (666, 117099), (676, 117135), (677, 117138), (698, 117198), (703, 117216), (724, 117312), (732, 117342), (736, 117360), (744, 117390), (765, 117483), (769, 117498), (785, 117579), (787, 117585), (789, 117597),

Gene: Leviticus_53 Start: 40239, Stop: 36760, Start Num: 69
Candidate Starts for Leviticus_53:
(2, 40500), (Start: 69 @40239 has 55 MA's), (83, 40167), (Start: 88 @40140 has 7 MA's), (90, 40125), (124, 39963), (129, 39936), (132, 39930), (151, 39840), (155, 39825), (168, 39771), (169, 39768), (191, 39672), (209, 39594), (229, 39447), (238, 39408), (245, 39363), (249, 39342), (256, 39327), (279, 39285), (284, 39273), (297, 39207), (301, 39195), (314, 39132), (329, 39003), (330, 38994), (335, 38958), (349, 38874), (351, 38856), (368, 38799), (369, 38796), (371, 38784), (403, 38646), (404, 38640), (405, 38625), (407, 38619), (414, 38586), (431, 38508), (435, 38475), (469, 38334), (483, 38277), (487, 38253), (489, 38247), (500, 38178), (511, 38115), (531, 38049), (536, 38028), (541, 38010), (551, 37953), (552, 37944), (575, 37836), (577, 37827), (581, 37815), (583, 37794), (593, 37764), (598, 37737), (625, 37671), (627, 37662), (630, 37650), (655, 37563), (662, 37539), (677, 37491), (712, 37347), (729, 37272), (767, 37098), (775, 37062), (784, 37014), (794, 36981),

Gene: LifeSavor_208 Start: 112809, Stop: 116297, Start Num: 26
Candidate Starts for LifeSavor_208:
(Start: 26 @112809 has 50 MA's), (Start: 28 @112815 has 6 MA's), (Start: 33 @112827 has 8 MA's), (38, 112836), (Start: 68 @112902 has 125 MA's), (83, 112977), (101, 113091), (109, 113115), (125, 113175), (145, 113286), (153, 113325), (159, 113349), (169, 113391), (196, 113490), (206, 113532), (207, 113538), (210, 113550), (218, 113613), (227, 113673), (228, 113676), (233, 113703), (240, 113745), (256, 113808), (302, 113964), (306, 113982), (309, 113997), (321, 114114), (327, 114153), (342, 114273), (348, 114315), (358, 114360), (360, 114369), (370, 114420), (381, 114462), (397, 114528), (399, 114537), (400, 114540), (401, 114546), (402, 114549), (403, 114558), (404, 114564), (405, 114579), (426, 114666), (445, 114771), (453, 114825), (467, 114912), (473, 114942), (480, 114972), (486, 115005), (488, 115014), (499, 115086), (505, 115116), (533, 115233), (541, 115278), (549, 115320), (579, 115464), (595, 115524), (632, 115626), (659, 115713), (660, 115716), (666, 115734), (676, 115770), (677, 115773), (698, 115833), (703, 115851), (724, 115947), (732, 115977), (736, 115995), (744, 116025), (765, 116118), (769, 116133), (785, 116214), (787, 116220), (789, 116232),

Gene: Lika_54 Start: 41758, Stop: 38282, Start Num: 72
Candidate Starts for Lika_54:
(Start: 72 @41758 has 108 MA's), (83, 41689), (Start: 88 @41662 has 7 MA's), (90, 41647), (91, 41629), (102, 41572), (103, 41566), (124, 41485), (129, 41458), (132, 41452), (138, 41416), (147, 41380), (169, 41290), (191, 41194), (209, 41116), (229, 40969), (238, 40930), (242, 40903), (245, 40885), (249, 40864), (256, 40849), (297, 40729), (301, 40717), (328, 40531), (329, 40525), (335, 40480), (349, 40396), (351, 40378), (368, 40321), (369, 40318), (371, 40306), (403, 40168), (404, 40162), (405, 40147), (407, 40141), (414, 40108), (416, 40102), (431, 40030), (435, 39997), (469, 39856), (487, 39775), (489, 39769), (500, 39700), (511, 39637), (517, 39616), (531, 39571), (541, 39532), (551, 39475), (552, 39466), (575, 39358), (581, 39337), (583, 39316), (593, 39286), (598, 39259), (625, 39193), (627, 39184), (630, 39172), (655, 39085), (662, 39061), (712, 38869), (731, 38785), (738, 38758), (767, 38620), (770, 38611), (775, 38584), (784, 38536), (786, 38530), (791,

38509), (794, 38503), (817, 38398), (819, 38359), (820, 38353), (822, 38296),

Gene: Lila22_79 Start: 52415, Stop: 55756, Start Num: 72
Candidate Starts for Lila22_79:
(47, 52367), (Start: 72 @52415 has 108 MA's), (Start: 81 @52475 has 2 MA's), (Start: 88 @52511 has 7 MA's), (92, 52556), (101, 52598), (162, 52859), (190, 52961), (198, 52994), (214, 53090), (263, 53360), (264, 53369), (289, 53477), (296, 53522), (306, 53564), (326, 53696), (327, 53699), (328, 53729), (331, 53750), (342, 53819), (350, 53873), (372, 53972), (376, 53987), (393, 54029), (429, 54203), (433, 54236), (437, 54254), (442, 54272), (452, 54317), (453, 54320), (479, 54416), (487, 54458), (490, 54470), (495, 54506), (538, 54686), (548, 54728), (553, 54764), (566, 54818), (571, 54836), (589, 54932), (591, 54944), (675, 55139), (704, 55223), (724, 55328), (728, 55343), (736, 55379), (739, 55391), (740, 55397), (741, 55400), (748, 55427), (759, 55472), (779, 55580), (795, 55625), (801, 55649), (812, 55685),

Gene: LinStu_208 Start: 113041, Stop: 116511, Start Num: 33
Candidate Starts for LinStu_208:
(Start: 26 @113023 has 50 MA's), (Start: 28 @113029 has 6 MA's), (Start: 33 @113041 has 8 MA's), (38, 113050), (Start: 68 @113116 has 125 MA's), (83, 113191), (101, 113305), (109, 113329), (125, 113389), (145, 113500), (153, 113539), (159, 113563), (169, 113605), (196, 113704), (206, 113746), (207, 113752), (210, 113764), (218, 113827), (227, 113887), (228, 113890), (233, 113917), (240, 113959), (256, 114022), (293, 114142), (302, 114178), (306, 114196), (309, 114211), (321, 114328), (327, 114367), (342, 114487), (348, 114529), (358, 114574), (360, 114583), (370, 114634), (381, 114676), (397, 114742), (399, 114751), (400, 114754), (401, 114760), (402, 114763), (403, 114772), (404, 114778), (405, 114793), (426, 114880), (445, 114985), (453, 115039), (467, 115126), (473, 115156), (480, 115186), (486, 115219), (488, 115228), (499, 115300), (505, 115330), (533, 115447), (541, 115492), (549, 115534), (579, 115678), (595, 115738), (632, 115840), (659, 115927), (660, 115930), (666, 115948), (676, 115984), (677, 115987), (698, 116047), (703, 116065), (724, 116161), (732, 116191), (736, 116209), (744, 116239), (765, 116332), (769, 116347), (785, 116428), (787, 116434), (789, 116446),

Gene: Littleton_212 Start: 113521, Stop: 117009, Start Num: 26
Candidate Starts for Littleton_212:
(Start: 26 @113521 has 50 MA's), (Start: 28 @113527 has 6 MA's), (Start: 33 @113539 has 8 MA's), (38, 113548), (Start: 68 @113614 has 125 MA's), (83, 113689), (101, 113803), (109, 113827), (125, 113887), (145, 113998), (153, 114037), (159, 114061), (169, 114103), (196, 114202), (206, 114244), (207, 114250), (210, 114262), (218, 114325), (227, 114385), (228, 114388), (233, 114415), (240, 114457), (256, 114520), (293, 114640), (302, 114676), (306, 114694), (309, 114709), (321, 114826), (327, 114865), (342, 114985), (348, 115027), (358, 115072), (360, 115081), (370, 115132), (381, 115174), (397, 115240), (399, 115249), (400, 115252), (401, 115258), (402, 115261), (403, 115270), (404, 115276), (405, 115291), (426, 115378), (445, 115483), (453, 115537), (467, 115624), (473, 115654), (480, 115684), (486, 115717), (488, 115726), (499, 115798), (505, 115828), (533, 115945), (541, 115990), (549, 116032), (579, 116176), (595, 116236), (632, 116338), (659, 116425), (660, 116428), (666, 116446), (676, 116482), (677, 116485), (698, 116545), (703, 116563), (724, 116659), (732, 116689), (736, 116707), (744, 116737), (765, 116830), (769, 116845), (785, 116926), (787, 116932), (789, 116944),

Gene: Lizz_51 Start: 38864, Stop: 35667, Start Num: 72
Candidate Starts for Lizz_51:
(Start: 33 @38945 has 8 MA's), (58, 38885), (Start: 72 @38864 has 108 MA's), (73, 38855), (78, 38822), (Start: 88 @38768 has 7 MA's), (95, 38714), (100, 38690), (111, 38645), (114, 38636), (116, 38627), (123, 38597), (128, 38564), (141, 38486), (143, 38474), (156, 38420), (157, 38417), (187, 38333), (214, 38177), (222, 38135), (229, 38072), (230, 38069), (250, 37964), (253, 37955), (267, 37913), (274, 37898), (278, 37883), (306, 37757), (319, 37676), (324, 37640), (326, 37625), (327,

37622), (337, 37529), (351, 37439), (405, 37232), (412, 37199), (423, 37148), (433, 37076), (434, 37070), (442, 37040), (448, 37010), (470, 36929), (475, 36914), (496, 36800), (528, 36665), (564, 36521), (565, 36509), (566, 36497), (571, 36479), (586, 36386), (614, 36281), (697, 36170), (700, 36146), (724, 36029), (767, 35858), (771, 35846), (774, 35825), (793, 35747), (796, 35741), (808, 35705), (811, 35690),

Gene: Loanshark_206 Start: 112939, Stop: 116334, Start Num: 68
Candidate Starts for Loanshark_206:
(Start: 26 @112846 has 50 MA's), (Start: 28 @112852 has 6 MA's), (Start: 33 @112864 has 8 MA's), (38, 112873), (Start: 68 @112939 has 125 MA's), (83, 113014), (101, 113128), (109, 113152), (125, 113212), (145, 113323), (153, 113362), (159, 113386), (169, 113428), (196, 113527), (206, 113569), (207, 113575), (210, 113587), (218, 113650), (227, 113710), (228, 113713), (233, 113740), (240, 113782), (256, 113845), (293, 113965), (302, 114001), (306, 114019), (309, 114034), (321, 114151), (327, 114190), (342, 114310), (348, 114352), (358, 114397), (360, 114406), (370, 114457), (381, 114499), (397, 114565), (399, 114574), (400, 114577), (401, 114583), (402, 114586), (403, 114595), (404, 114601), (405, 114616), (426, 114703), (445, 114808), (453, 114862), (467, 114949), (473, 114979), (480, 115009), (486, 115042), (488, 115051), (499, 115123), (505, 115153), (533, 115270), (541, 115315), (549, 115357), (579, 115501), (595, 115561), (632, 115663), (659, 115750), (660, 115753), (666, 115771), (676, 115807), (677, 115810), (698, 115870), (703, 115888), (724, 115984), (732, 116014), (736, 116032), (744, 116062), (765, 116155), (769, 116170), (785, 116251), (787, 116257), (789, 116269),

Gene: LolaVinca_207 Start: 114169, Stop: 117564, Start Num: 68
Candidate Starts for LolaVinca_207:
(Start: 26 @114076 has 50 MA's), (Start: 28 @114082 has 6 MA's), (Start: 33 @114094 has 8 MA's), (38, 114103), (Start: 68 @114169 has 125 MA's), (83, 114244), (101, 114358), (109, 114382), (125, 114442), (145, 114553), (153, 114592), (159, 114616), (169, 114658), (196, 114757), (206, 114799), (207, 114805), (210, 114817), (218, 114880), (227, 114940), (228, 114943), (233, 114970), (240, 115012), (256, 115075), (302, 115231), (306, 115249), (309, 115264), (321, 115381), (327, 115420), (342, 115540), (348, 115582), (358, 115627), (360, 115636), (370, 115687), (381, 115729), (397, 115795), (399, 115804), (400, 115807), (401, 115813), (402, 115816), (403, 115825), (404, 115831), (405, 115846), (426, 115933), (445, 116038), (453, 116092), (467, 116179), (473, 116209), (480, 116239), (486, 116272), (488, 116281), (499, 116353), (505, 116383), (533, 116500), (541, 116545), (549, 116587), (579, 116731), (595, 116791), (632, 116893), (659, 116980), (660, 116983), (666, 117001), (676, 117037), (677, 117040), (698, 117100), (703, 117118), (724, 117214), (732, 117244), (736, 117262), (744, 117292), (765, 117385), (769, 117400), (785, 117481), (787, 117487), (789, 117499),

Gene: Lollipop1437_64 Start: 49866, Stop: 46552, Start Num: 72
Candidate Starts for Lollipop1437_64:
(Start: 72 @49866 has 108 MA's), (Start: 88 @49770 has 7 MA's), (126, 49617), (128, 49608), (150, 49485), (190, 49326), (192, 49320), (215, 49188), (234, 49077), (248, 48996), (269, 48951), (306, 48780), (314, 48738), (324, 48660), (326, 48645), (346, 48507), (396, 48309), (415, 48207), (429, 48141), (437, 48090), (442, 48072), (452, 48027), (502, 47784), (511, 47742), (512, 47739), (514, 47733), (519, 47715), (543, 47619), (548, 47601), (553, 47565), (584, 47421), (589, 47412), (594, 47388), (603, 47361), (616, 47337), (647, 47208), (677, 47118), (679, 47109), (697, 47058), (699, 47037), (706, 47016), (740, 46860), (745, 46845), (783, 46665), (808, 46596),

Gene: LookingGlass_208 Start: 113059, Stop: 116529, Start Num: 33
Candidate Starts for LookingGlass_208:
(11, 112966), (Start: 26 @113041 has 50 MA's), (Start: 28 @113047 has 6 MA's), (Start: 33 @113059 has 8 MA's), (38, 113068), (Start: 68 @113134 has 125 MA's), (83, 113209), (101, 113323), (109, 113347), (125, 113407), (133, 113443), (145, 113518), (153, 113557), (159, 113581), (169, 113623),

(196, 113722), (206, 113764), (207, 113770), (210, 113782), (218, 113845), (227, 113905), (228, 113908), (233, 113935), (240, 113977), (256, 114040), (302, 114196), (306, 114214), (309, 114229), (321, 114346), (327, 114385), (342, 114505), (348, 114547), (358, 114592), (360, 114601), (370, 114652), (381, 114694), (397, 114760), (399, 114769), (400, 114772), (401, 114778), (402, 114781), (403, 114790), (404, 114796), (405, 114811), (426, 114898), (445, 115003), (453, 115057), (467, 115144), (473, 115174), (480, 115204), (486, 115237), (488, 115246), (499, 115318), (505, 115348), (533, 115465), (541, 115510), (549, 115552), (579, 115696), (595, 115756), (632, 115858), (659, 115945), (660, 115948), (666, 115966), (676, 116002), (677, 116005), (698, 116065), (703, 116083), (724, 116179), (732, 116209), (736, 116227), (744, 116257), (765, 116350), (769, 116365), (785, 116446), (787, 116452), (789, 116464),

Gene: LordLeafolot_210 Start: 113782, Stop: 117177, Start Num: 68
Candidate Starts for LordLeafolot_210:
(Start: 26 @113689 has 50 MA's), (Start: 28 @113695 has 6 MA's), (Start: 33 @113707 has 8 MA's), (38, 113716), (Start: 68 @113782 has 125 MA's), (83, 113857), (101, 113971), (109, 113995), (125, 114055), (145, 114166), (153, 114205), (159, 114229), (169, 114271), (196, 114370), (206, 114412), (207, 114418), (210, 114430), (218, 114493), (227, 114553), (228, 114556), (233, 114583), (240, 114625), (256, 114688), (302, 114844), (306, 114862), (309, 114877), (321, 114994), (327, 115033), (342, 115153), (348, 115195), (358, 115240), (360, 115249), (370, 115300), (381, 115342), (397, 115408), (399, 115417), (400, 115420), (401, 115426), (402, 115429), (403, 115438), (404, 115444), (405, 115459), (426, 115546), (445, 115651), (453, 115705), (467, 115792), (473, 115822), (480, 115852), (486, 115885), (488, 115894), (499, 115966), (505, 115996), (533, 116113), (541, 116158), (549, 116200), (579, 116344), (595, 116404), (632, 116506), (659, 116593), (660, 116596), (666, 116614), (676, 116650), (677, 116653), (698, 116713), (703, 116731), (724, 116827), (732, 116857), (736, 116875), (744, 116905), (765, 116998), (769, 117013), (785, 117094), (787, 117100), (789, 117112),

Gene: Lorelei_55 Start: 41564, Stop: 38013, Start Num: 42
Candidate Starts for Lorelei_55:
(Start: 42 @41564 has 1 MA's), (Start: 69 @41495 has 55 MA's), (Start: 81 @41432 has 2 MA's), (83, 41423), (90, 41381), (105, 41288), (124, 41219), (138, 41150), (151, 41096), (169, 41024), (180, 40988), (191, 40928), (209, 40850), (229, 40703), (238, 40664), (242, 40637), (245, 40619), (249, 40598), (256, 40583), (297, 40463), (301, 40451), (328, 40265), (329, 40259), (335, 40214), (349, 40130), (351, 40112), (368, 40055), (369, 40052), (371, 40040), (403, 39902), (404, 39896), (405, 39881), (407, 39875), (414, 39842), (431, 39764), (435, 39731), (465, 39614), (469, 39590), (487, 39509), (489, 39503), (500, 39434), (511, 39371), (517, 39350), (531, 39305), (541, 39266), (551, 39209), (552, 39200), (575, 39092), (581, 39071), (583, 39050), (593, 39020), (598, 38993), (625, 38927), (627, 38918), (630, 38906), (655, 38819), (662, 38795), (693, 38699), (712, 38603), (731, 38519), (738, 38492), (767, 38354), (770, 38345), (775, 38318), (784, 38270), (786, 38264), (791, 38243), (794, 38237), (817, 38132), (818, 38105), (819, 38093),

Gene: LuckyLeo_75 Start: 51198, Stop: 54536, Start Num: 72
Candidate Starts for LuckyLeo_75:
(Start: 72 @51198 has 108 MA's), (Start: 81 @51258 has 2 MA's), (84, 51270), (Start: 88 @51294 has 7 MA's), (101, 51381), (198, 51777), (214, 51873), (233, 51996), (263, 52143), (264, 52152), (270, 52185), (278, 52221), (289, 52263), (296, 52308), (306, 52350), (326, 52482), (327, 52485), (328, 52515), (335, 52566), (339, 52587), (342, 52605), (351, 52668), (372, 52758), (376, 52773), (382, 52794), (429, 52989), (433, 53022), (437, 53040), (452, 53103), (453, 53106), (470, 53169), (479, 53202), (487, 53244), (490, 53256), (495, 53292), (521, 53406), (538, 53472), (544, 53499), (548, 53514), (553, 53550), (566, 53604), (571, 53622), (589, 53718), (594, 53742), (615, 53814), (707, 54018), (728, 54129), (732, 54144), (736, 54165), (739, 54177), (740, 54183), (741, 54186), (748, 54213), (759, 54258), (779, 54366), (792, 54405), (795, 54411), (801, 54435), (808, 54450), (809, 54456), (812, 54471),

Gene: Lukilu_200 Start: 113716, Stop: 117234, Start Num: 18
Candidate Starts for Lukilu_200:
(Start: 18 @113716 has 6 MA's), (Start: 26 @113746 has 50 MA's), (Start: 28 @113752 has 6 MA's), (Start: 33 @113764 has 8 MA's), (38, 113773), (Start: 68 @113839 has 125 MA's), (83, 113914), (101, 114028), (109, 114052), (125, 114112), (145, 114223), (153, 114262), (159, 114286), (169, 114328), (196, 114427), (206, 114469), (207, 114475), (210, 114487), (218, 114550), (227, 114610), (228, 114613), (233, 114640), (240, 114682), (256, 114745), (293, 114865), (302, 114901), (306, 114919), (309, 114934), (321, 115051), (327, 115090), (342, 115210), (348, 115252), (358, 115297), (360, 115306), (370, 115357), (381, 115399), (397, 115465), (399, 115474), (400, 115477), (401, 115483), (402, 115486), (403, 115495), (404, 115501), (405, 115516), (426, 115603), (445, 115708), (453, 115762), (467, 115849), (473, 115879), (480, 115909), (486, 115942), (488, 115951), (499, 116023), (505, 116053), (533, 116170), (541, 116215), (549, 116257), (579, 116401), (595, 116461), (632, 116563), (659, 116650), (660, 116653), (666, 116671), (676, 116707), (677, 116710), (698, 116770), (703, 116788), (724, 116884), (732, 116914), (736, 116932), (744, 116962), (765, 117055), (769, 117070), (785, 117151), (787, 117157), (789, 117169),

Gene: Lunareta_207 Start: 114475, Stop: 117870, Start Num: 68
Candidate Starts for Lunareta_207:
(Start: 26 @114382 has 50 MA's), (Start: 28 @114388 has 6 MA's), (Start: 33 @114400 has 8 MA's), (38, 114409), (Start: 68 @114475 has 125 MA's), (83, 114550), (101, 114664), (109, 114688), (125, 114748), (145, 114859), (153, 114898), (159, 114922), (169, 114964), (196, 115063), (206, 115105), (207, 115111), (210, 115123), (218, 115186), (227, 115246), (228, 115249), (233, 115276), (240, 115318), (256, 115381), (293, 115501), (302, 115537), (306, 115555), (309, 115570), (321, 115687), (327, 115726), (342, 115846), (348, 115888), (358, 115933), (360, 115942), (370, 115993), (381, 116035), (397, 116101), (399, 116110), (400, 116113), (401, 116119), (402, 116122), (403, 116131), (404, 116137), (405, 116152), (426, 116239), (445, 116344), (453, 116398), (467, 116485), (473, 116515), (480, 116545), (486, 116578), (488, 116587), (499, 116659), (505, 116689), (533, 116806), (541, 116851), (549, 116893), (579, 117037), (595, 117097), (632, 117199), (659, 117286), (660, 117289), (666, 117307), (676, 117343), (677, 117346), (698, 117406), (703, 117424), (724, 117520), (732, 117550), (736, 117568), (744, 117598), (765, 117691), (769, 117706), (785, 117787), (787, 117793), (789, 117805),

Gene: Maby2021_209 Start: 114068, Stop: 117463, Start Num: 68
Candidate Starts for Maby2021_209:
(Start: 26 @113975 has 50 MA's), (Start: 28 @113981 has 6 MA's), (Start: 33 @113993 has 8 MA's), (38, 114002), (Start: 68 @114068 has 125 MA's), (83, 114143), (101, 114257), (109, 114281), (125, 114341), (145, 114452), (153, 114491), (159, 114515), (169, 114557), (196, 114656), (206, 114698), (207, 114704), (210, 114716), (218, 114779), (227, 114839), (228, 114842), (233, 114869), (240, 114911), (256, 114974), (302, 115130), (306, 115148), (309, 115163), (321, 115280), (327, 115319), (342, 115439), (348, 115481), (358, 115526), (360, 115535), (370, 115586), (381, 115628), (397, 115694), (399, 115703), (400, 115706), (401, 115712), (402, 115715), (403, 115724), (404, 115730), (405, 115745), (426, 115832), (445, 115937), (453, 115991), (467, 116078), (473, 116108), (480, 116138), (486, 116171), (488, 116180), (499, 116252), (505, 116282), (533, 116399), (541, 116444), (549, 116486), (579, 116630), (595, 116690), (632, 116792), (659, 116879), (660, 116882), (666, 116900), (676, 116936), (677, 116939), (698, 116999), (703, 117017), (724, 117113), (732, 117143), (736, 117161), (744, 117191), (765, 117284), (769, 117299), (785, 117380), (787, 117386), (789, 117398),

Gene: Madruga_89 Start: 57366, Stop: 60599, Start Num: 72
Candidate Starts for Madruga_89:
(Start: 57 @57339 has 3 MA's), (Start: 72 @57366 has 108 MA's), (Start: 88 @57462 has 7 MA's), (128, 57627), (149, 57741), (160, 57786), (167, 57825), (186, 57876), (214, 58041), (321, 58539),

(326, 58584), (329, 58623), (365, 58827), (384, 58908), (403, 58968), (411, 59019), (429, 59115), (431, 59124), (433, 59148), (434, 59154), (442, 59184), (443, 59190), (471, 59322), (472, 59325), (475, 59334), (484, 59376), (487, 59394), (512, 59526), (571, 59772), (600, 59922), (624, 59979), (639, 60021), (670, 60045), (704, 60114), (739, 60282), (761, 60372), (774, 60444), (792, 60519),

Gene: Maguvora_210 Start: 113624, Stop: 117094, Start Num: 33
Candidate Starts for Maguvora_210:
(Start: 26 @113606 has 50 MA's), (Start: 28 @113612 has 6 MA's), (Start: 33 @113624 has 8 MA's), (38, 113633), (Start: 68 @113699 has 125 MA's), (83, 113774), (101, 113888), (109, 113912), (125, 113972), (145, 114083), (153, 114122), (159, 114146), (169, 114188), (196, 114287), (206, 114329), (207, 114335), (210, 114347), (218, 114410), (227, 114470), (228, 114473), (233, 114500), (240, 114542), (256, 114605), (302, 114761), (306, 114779), (309, 114794), (321, 114911), (327, 114950), (342, 115070), (348, 115112), (358, 115157), (360, 115166), (370, 115217), (381, 115259), (397, 115325), (399, 115334), (400, 115337), (401, 115343), (402, 115346), (403, 115355), (404, 115361), (405, 115376), (426, 115463), (445, 115568), (453, 115622), (467, 115709), (473, 115739), (480, 115769), (486, 115802), (488, 115811), (499, 115883), (505, 115913), (533, 116030), (541, 116075), (549, 116117), (579, 116261), (595, 116321), (632, 116423), (659, 116510), (660, 116513), (666, 116531), (676, 116567), (677, 116570), (698, 116630), (703, 116648), (724, 116744), (732, 116774), (736, 116792), (744, 116822), (765, 116915), (769, 116930), (785, 117011), (787, 117017), (789, 117029),

Gene: Maneekul_54 Start: 42498, Stop: 39013, Start Num: 69
Candidate Starts for Maneekul_54:
(Start: 69 @42498 has 55 MA's), (Start: 81 @42435 has 2 MA's), (83, 42426), (90, 42384), (105, 42291), (124, 42222), (138, 42153), (151, 42099), (169, 42027), (180, 41991), (191, 41931), (229, 41706), (238, 41667), (242, 41640), (245, 41622), (249, 41601), (256, 41586), (279, 41544), (297, 41466), (301, 41454), (328, 41268), (329, 41262), (335, 41217), (349, 41133), (351, 41115), (368, 41058), (369, 41055), (371, 41043), (390, 40971), (403, 40905), (404, 40899), (405, 40884), (407, 40878), (414, 40845), (431, 40767), (435, 40734), (469, 40593), (487, 40512), (489, 40506), (500, 40437), (511, 40374), (517, 40353), (531, 40308), (551, 40212), (552, 40203), (554, 40197), (575, 40095), (577, 40086), (581, 40074), (583, 40053), (593, 40023), (598, 39996), (625, 39930), (627, 39921), (630, 39909), (655, 39822), (701, 39654), (712, 39606), (738, 39495), (767, 39357), (770, 39348), (775, 39321), (784, 39273), (794, 39240), (803, 39213), (818, 39108), (819, 39096),

Gene: Mangeria_210 Start: 114077, Stop: 117565, Start Num: 26
Candidate Starts for Mangeria_210:
(Start: 26 @114077 has 50 MA's), (Start: 28 @114083 has 6 MA's), (Start: 33 @114095 has 8 MA's), (38, 114104), (Start: 68 @114170 has 125 MA's), (83, 114245), (101, 114359), (109, 114383), (125, 114443), (145, 114554), (153, 114593), (159, 114617), (169, 114659), (196, 114758), (206, 114800), (207, 114806), (210, 114818), (218, 114881), (227, 114941), (228, 114944), (233, 114971), (240, 115013), (256, 115076), (302, 115232), (306, 115250), (309, 115265), (321, 115382), (327, 115421), (342, 115541), (348, 115583), (358, 115628), (360, 115637), (370, 115688), (381, 115730), (397, 115796), (399, 115805), (400, 115808), (401, 115814), (402, 115817), (403, 115826), (404, 115832), (405, 115847), (426, 115934), (445, 116039), (453, 116093), (467, 116180), (473, 116210), (480, 116240), (486, 116273), (488, 116282), (499, 116354), (505, 116384), (533, 116501), (541, 116546), (549, 116588), (579, 116732), (595, 116792), (632, 116894), (659, 116981), (660, 116984), (666, 117002), (676, 117038), (677, 117041), (698, 117101), (703, 117119), (724, 117215), (732, 117245), (736, 117263), (744, 117293), (765, 117386), (769, 117401), (785, 117482), (787, 117488), (789, 117500),

Gene: Marietta_61 Start: 45676, Stop: 42425, Start Num: 72
Candidate Starts for Marietta_61:

(6, 45904), (Start: 72 @45676 has 108 MA's), (85, 45595), (Start: 88 @45580 has 7 MA's), (92, 45535), (126, 45427), (128, 45418), (160, 45253), (192, 45130), (203, 45079), (209, 45052), (215, 44998), (221, 44968), (255, 44785), (269, 44761), (292, 44653), (309, 44575), (314, 44548), (324, 44470), (326, 44455), (346, 44317), (396, 44119), (398, 44113), (403, 44086), (413, 44026), (429, 43951), (433, 43918), (442, 43882), (459, 43825), (472, 43762), (502, 43597), (503, 43594), (511, 43555), (512, 43552), (514, 43546), (516, 43537), (519, 43528), (543, 43432), (548, 43414), (553, 43378), (587, 43228), (603, 43174), (647, 43078), (677, 42994), (679, 42985), (697, 42934), (714, 42844), (737, 42748), (738, 42745), (778, 42562), (814, 42439),

Gene: Maselop_59 Start: 45784, Stop: 42368, Start Num: 72
Candidate Starts for Maselop_59:
(Start: 72 @45784 has 108 MA's), (85, 45703), (Start: 88 @45688 has 7 MA's), (105, 45580), (107, 45574), (128, 45526), (142, 45445), (150, 45403), (202, 45193), (205, 45178), (207, 45169), (212, 45145), (214, 45115), (221, 45076), (234, 44995), (241, 44953), (272, 44818), (297, 44704), (309, 44653), (311, 44635), (314, 44626), (324, 44548), (326, 44533), (329, 44494), (335, 44455), (350, 44362), (361, 44311), (363, 44305), (371, 44266), (404, 44161), (405, 44146), (406, 44143), (429, 44029), (430, 44026), (433, 43996), (437, 43978), (438, 43975), (439, 43969), (441, 43966), (447, 43933), (452, 43912), (490, 43744), (503, 43666), (511, 43627), (512, 43624), (514, 43618), (519, 43600), (543, 43504), (548, 43486), (553, 43450), (571, 43378), (589, 43285), (591, 43273), (609, 43210), (625, 43153), (656, 43024), (665, 42994), (681, 42934), (682, 42931), (697, 42877), (714, 42787), (722, 42751), (734, 42706), (737, 42691), (747, 42649), (758, 42604), (771, 42550), (773, 42541), (774, 42529), (776, 42523), (778, 42505), (792, 42454), (793, 42451), (808, 42409),

Gene: Matsumoto_207 Start: 112819, Stop: 116214, Start Num: 68
Candidate Starts for Matsumoto_207:
(Start: 26 @112726 has 50 MA's), (Start: 28 @112732 has 6 MA's), (Start: 33 @112744 has 8 MA's), (38, 112753), (Start: 68 @112819 has 125 MA's), (83, 112894), (101, 113008), (109, 113032), (125, 113092), (145, 113203), (153, 113242), (159, 113266), (169, 113308), (196, 113407), (206, 113449), (207, 113455), (210, 113467), (218, 113530), (227, 113590), (228, 113593), (233, 113620), (240, 113662), (256, 113725), (293, 113845), (302, 113881), (306, 113899), (309, 113914), (321, 114031), (327, 114070), (342, 114190), (348, 114232), (358, 114277), (360, 114286), (370, 114337), (381, 114379), (397, 114445), (399, 114454), (400, 114457), (401, 114463), (402, 114466), (403, 114475), (404, 114481), (405, 114496), (426, 114583), (445, 114688), (453, 114742), (467, 114829), (473, 114859), (480, 114889), (486, 114922), (488, 114931), (499, 115003), (505, 115033), (533, 115150), (541, 115195), (549, 115237), (579, 115381), (595, 115441), (632, 115543), (659, 115630), (660, 115633), (666, 115651), (676, 115687), (677, 115690), (698, 115750), (703, 115768), (724, 115864), (732, 115894), (736, 115912), (744, 115942), (765, 116035), (769, 116050), (785, 116131), (787, 116137), (789, 116149),

Gene: Maturis_206 Start: 113331, Stop: 116726, Start Num: 68
Candidate Starts for Maturis_206:
(Start: 26 @113238 has 50 MA's), (Start: 28 @113244 has 6 MA's), (Start: 33 @113256 has 8 MA's), (38, 113265), (Start: 68 @113331 has 125 MA's), (83, 113406), (101, 113520), (109, 113544), (125, 113604), (145, 113715), (153, 113754), (159, 113778), (169, 113820), (196, 113919), (206, 113961), (207, 113967), (210, 113979), (218, 114042), (227, 114102), (228, 114105), (233, 114132), (240, 114174), (256, 114237), (293, 114357), (302, 114393), (306, 114411), (309, 114426), (321, 114543), (327, 114582), (342, 114702), (348, 114744), (358, 114789), (360, 114798), (370, 114849), (381, 114891), (397, 114957), (399, 114966), (400, 114969), (401, 114975), (402, 114978), (403, 114987), (404, 114993), (405, 115008), (426, 115095), (445, 115200), (453, 115254), (467, 115341), (473, 115371), (480, 115401), (486, 115434), (488, 115443), (499, 115515), (505, 115545), (533, 115662), (541, 115707), (549, 115749), (579, 115893), (595, 115953), (632, 116055), (659, 116142), (660, 116145), (666, 116163), (676, 116199), (677, 116202), (698, 116262), (703, 116280), (724, 116376), (732, 116406), (736, 116424), (744, 116454), (765, 116547), (769, 116562), (785, 116643), (787,

116649), (789, 116661),

Gene: McGee_208 Start: 111920, Stop: 115408, Start Num: 26
Candidate Starts for McGee_208:
(Start: 26 @111920 has 50 MA's), (Start: 28 @111926 has 6 MA's), (Start: 33 @111938 has 8 MA's), (38, 111947), (Start: 68 @112013 has 125 MA's), (83, 112088), (101, 112202), (109, 112226), (125, 112286), (145, 112397), (153, 112436), (159, 112460), (169, 112502), (196, 112601), (206, 112643), (207, 112649), (210, 112661), (218, 112724), (227, 112784), (228, 112787), (233, 112814), (240, 112856), (256, 112919), (293, 113039), (302, 113075), (306, 113093), (309, 113108), (321, 113225), (327, 113264), (342, 113384), (348, 113426), (358, 113471), (360, 113480), (370, 113531), (381, 113573), (397, 113639), (399, 113648), (400, 113651), (401, 113657), (402, 113660), (403, 113669), (404, 113675), (405, 113690), (426, 113777), (445, 113882), (453, 113936), (467, 114023), (473, 114053), (480, 114083), (486, 114116), (488, 114125), (499, 114197), (505, 114227), (533, 114344), (541, 114389), (549, 114431), (579, 114575), (595, 114635), (632, 114737), (659, 114824), (660, 114827), (666, 114845), (676, 114881), (677, 114884), (698, 114944), (703, 114962), (724, 115058), (732, 115088), (736, 115106), (744, 115136), (765, 115229), (769, 115244), (785, 115325), (787, 115331), (789, 115343),

Gene: McWolfish_206 Start: 112835, Stop: 116230, Start Num: 68
Candidate Starts for McWolfish_206:
(Start: 26 @112742 has 50 MA's), (Start: 28 @112748 has 6 MA's), (Start: 33 @112760 has 8 MA's), (38, 112769), (Start: 68 @112835 has 125 MA's), (83, 112910), (101, 113024), (109, 113048), (125, 113108), (145, 113219), (153, 113258), (159, 113282), (169, 113324), (196, 113423), (206, 113465), (207, 113471), (210, 113483), (218, 113546), (227, 113606), (228, 113609), (233, 113636), (240, 113678), (256, 113741), (293, 113861), (302, 113897), (306, 113915), (309, 113930), (321, 114047), (327, 114086), (342, 114206), (348, 114248), (358, 114293), (360, 114302), (370, 114353), (381, 114395), (397, 114461), (399, 114470), (400, 114473), (401, 114479), (402, 114482), (403, 114491), (404, 114497), (405, 114512), (426, 114599), (445, 114704), (453, 114758), (467, 114845), (473, 114875), (480, 114905), (486, 114938), (488, 114947), (499, 115019), (505, 115049), (533, 115166), (541, 115211), (549, 115253), (579, 115397), (595, 115457), (632, 115559), (659, 115646), (660, 115649), (666, 115667), (676, 115703), (677, 115706), (698, 115766), (703, 115784), (724, 115880), (732, 115910), (736, 115928), (744, 115958), (765, 116051), (769, 116066), (785, 116147), (787, 116153), (789, 116165),

Gene: Megamind_206 Start: 113033, Stop: 116521, Start Num: 26
Candidate Starts for Megamind_206:
(Start: 26 @113033 has 50 MA's), (Start: 28 @113039 has 6 MA's), (Start: 33 @113051 has 8 MA's), (38, 113060), (Start: 68 @113126 has 125 MA's), (83, 113201), (101, 113315), (109, 113339), (125, 113399), (145, 113510), (153, 113549), (159, 113573), (169, 113615), (196, 113714), (206, 113756), (207, 113762), (210, 113774), (218, 113837), (227, 113897), (228, 113900), (233, 113927), (240, 113969), (256, 114032), (293, 114152), (302, 114188), (306, 114206), (309, 114221), (321, 114338), (327, 114377), (342, 114497), (348, 114539), (358, 114584), (360, 114593), (370, 114644), (381, 114686), (397, 114752), (399, 114761), (400, 114764), (401, 114770), (402, 114773), (403, 114782), (404, 114788), (405, 114803), (426, 114890), (445, 114995), (453, 115049), (467, 115136), (473, 115166), (480, 115196), (486, 115229), (488, 115238), (499, 115310), (505, 115340), (533, 115457), (541, 115502), (549, 115544), (579, 115688), (595, 115748), (632, 115850), (659, 115937), (660, 115940), (666, 115958), (676, 115994), (677, 115997), (698, 116057), (703, 116075), (724, 116171), (732, 116201), (736, 116219), (744, 116249), (765, 116342), (769, 116357), (785, 116438), (787, 116444), (789, 116456),

Gene: Megatron06_78 Start: 56087, Stop: 59383, Start Num: 72
Candidate Starts for Megatron06_78:

(Start: 55 @56060 has 2 MA's), (Start: 72 @56087 has 108 MA's), (84, 56159), (Start: 88 @56183 has 7 MA's), (91, 56216), (128, 56351), (145, 56444), (148, 56462), (160, 56510), (173, 56570), (214, 56762), (259, 56996), (275, 57053), (295, 57152), (303, 57179), (309, 57209), (321, 57287), (326, 57332), (329, 57371), (334, 57413), (347, 57491), (350, 57509), (353, 57527), (357, 57539), (373, 57614), (406, 57770), (423, 57854), (434, 57932), (440, 57953), (442, 57962), (443, 57968), (446, 57977), (461, 58049), (464, 58064), (471, 58103), (475, 58115), (493, 58208), (494, 58214), (503, 58262), (512, 58304), (550, 58454), (551, 58466), (571, 58550), (597, 58691), (639, 58796), (700, 58895), (703, 58904), (718, 58982), (727, 59021), (730, 59036), (741, 59084), (763, 59180), (768, 59198), (774, 59225), (783, 59273), (793, 59303), (795, 59306), (799, 59321), (809, 59351), (811, 59360), (812, 59366), (813, 59369),

Gene: Melpomini_204 Start: 111911, Stop: 115306, Start Num: 68
Candidate Starts for Melpomini_204:
(Start: 26 @111818 has 50 MA's), (Start: 28 @111824 has 6 MA's), (Start: 33 @111836 has 8 MA's), (38, 111845), (Start: 68 @111911 has 125 MA's), (83, 111986), (101, 112100), (109, 112124), (125, 112184), (145, 112295), (153, 112334), (159, 112358), (169, 112400), (196, 112499), (206, 112541), (207, 112547), (210, 112559), (218, 112622), (227, 112682), (228, 112685), (233, 112712), (240, 112754), (256, 112817), (302, 112973), (306, 112991), (309, 113006), (321, 113123), (327, 113162), (342, 113282), (348, 113324), (358, 113369), (360, 113378), (370, 113429), (381, 113471), (397, 113537), (399, 113546), (400, 113549), (401, 113555), (402, 113558), (403, 113567), (404, 113573), (405, 113588), (426, 113675), (445, 113780), (453, 113834), (467, 113921), (473, 113951), (480, 113981), (486, 114014), (488, 114023), (499, 114095), (505, 114125), (533, 114242), (541, 114287), (549, 114329), (579, 114473), (595, 114533), (632, 114635), (659, 114722), (660, 114725), (666, 114743), (676, 114779), (677, 114782), (698, 114842), (703, 114860), (724, 114956), (732, 114986), (736, 115004), (744, 115034), (765, 115127), (769, 115142), (785, 115223), (787, 115229), (789, 115241),

Gene: MerCougar_61 Start: 49170, Stop: 45856, Start Num: 72
Candidate Starts for MerCougar_61:
(Start: 72 @49170 has 108 MA's), (Start: 88 @49074 has 7 MA's), (126, 48921), (128, 48912), (146, 48807), (150, 48789), (190, 48630), (192, 48624), (197, 48600), (215, 48492), (234, 48381), (269, 48255), (306, 48084), (314, 48042), (318, 48003), (324, 47964), (326, 47949), (346, 47811), (371, 47679), (396, 47613), (406, 47556), (419, 47496), (429, 47445), (442, 47376), (452, 47331), (484, 47196), (511, 47046), (512, 47043), (514, 47037), (519, 47019), (543, 46923), (553, 46869), (589, 46716), (603, 46665), (607, 46656), (647, 46512), (677, 46422), (697, 46362), (699, 46341), (706, 46320), (714, 46272), (735, 46188), (737, 46176), (738, 46173), (760, 46080), (808, 45897), (814, 45867),

Gene: MikeLiesIn_211 Start: 114262, Stop: 117657, Start Num: 68
Candidate Starts for MikeLiesIn_211:
(Start: 26 @114169 has 50 MA's), (Start: 28 @114175 has 6 MA's), (Start: 33 @114187 has 8 MA's), (38, 114196), (Start: 68 @114262 has 125 MA's), (83, 114337), (101, 114451), (109, 114475), (125, 114535), (145, 114646), (153, 114685), (159, 114709), (169, 114751), (196, 114850), (206, 114892), (207, 114898), (210, 114910), (218, 114973), (227, 115033), (228, 115036), (233, 115063), (240, 115105), (256, 115168), (293, 115288), (302, 115324), (306, 115342), (309, 115357), (321, 115474), (327, 115513), (342, 115633), (348, 115675), (358, 115720), (360, 115729), (370, 115780), (381, 115822), (397, 115888), (399, 115897), (400, 115900), (401, 115906), (402, 115909), (403, 115918), (404, 115924), (405, 115939), (426, 116026), (445, 116131), (453, 116185), (467, 116272), (473, 116302), (480, 116332), (486, 116365), (488, 116374), (499, 116446), (505, 116476), (533, 116593), (541, 116638), (549, 116680), (579, 116824), (595, 116884), (632, 116986), (659, 117073), (660, 117076), (666, 117094), (676, 117130), (677, 117133), (698, 117193), (703, 117211), (724, 117307), (732, 117337), (736, 117355), (744, 117385), (765, 117478), (769, 117493), (785, 117574), (787, 117580), (789, 117592),

Gene: Mikro_205 Start: 114811, Stop: 118206, Start Num: 68
Candidate Starts for Mikro_205:
(Start: 26 @114718 has 50 MA's), (Start: 28 @114724 has 6 MA's), (Start: 33 @114736 has 8 MA's), (38, 114745), (Start: 68 @114811 has 125 MA's), (83, 114886), (101, 115000), (109, 115024), (125, 115084), (145, 115195), (153, 115234), (159, 115258), (169, 115300), (196, 115399), (206, 115441), (207, 115447), (210, 115459), (218, 115522), (227, 115582), (228, 115585), (233, 115612), (240, 115654), (256, 115717), (302, 115873), (306, 115891), (309, 115906), (321, 116023), (327, 116062), (342, 116182), (348, 116224), (358, 116269), (360, 116278), (370, 116329), (381, 116371), (397, 116437), (399, 116446), (400, 116449), (401, 116455), (402, 116458), (403, 116467), (404, 116473), (405, 116488), (426, 116575), (445, 116680), (453, 116734), (467, 116821), (473, 116851), (480, 116881), (486, 116914), (488, 116923), (499, 116995), (505, 117025), (533, 117142), (541, 117187), (549, 117229), (579, 117373), (595, 117433), (632, 117535), (659, 117622), (660, 117625), (666, 117643), (676, 117679), (677, 117682), (698, 117742), (703, 117760), (724, 117856), (732, 117886), (736, 117904), (744, 117934), (765, 118027), (769, 118042), (785, 118123), (787, 118129), (789, 118141),

Gene: Mikronejon_98 Start: 70036, Stop: 72849, Start Num: 59
Candidate Starts for Mikronejon_98:
(Start: 52 @70021 has 1 MA's), (Start: 56 @70033 has 1 MA's), (Start: 59 @70036 has 9 MA's), (83, 70129), (91, 70189), (126, 70339), (127, 70342), (128, 70348), (146, 70447), (152, 70477), (153, 70480), (169, 70543), (174, 70564), (175, 70567), (185, 70594), (207, 70711), (209, 70720), (217, 70777), (219, 70786), (229, 70852), (242, 70918), (297, 71083), (302, 71101), (305, 71116), (307, 71122), (309, 71134), (316, 71161), (317, 71164), (323, 71224), (324, 71233), (325, 71236), (327, 71248), (330, 71293), (341, 71362), (345, 71386), (375, 71542), (379, 71560), (386, 71584), (389, 71602), (407, 71698), (415, 71740), (417, 71746), (426, 71782), (427, 71791), (430, 71809), (431, 71815), (433, 71839), (434, 71845), (435, 71848), (441, 71866), (442, 71869), (465, 71962), (475, 72007), (477, 72013), (481, 72037), (482, 72040), (484, 72049), (485, 72055), (487, 72067), (509, 72184), (511, 72202), (512, 72205), (515, 72214), (542, 72328), (546, 72343), (575, 72490), (578, 72502), (580, 72508), (590, 72541), (596, 72574), (599, 72592), (604, 72604), (606, 72613), (642, 72727), (651, 72739), (656, 72754), (680, 72829), (683, 72838),

Gene: Mima20_77 Start: 51887, Stop: 55228, Start Num: 72
Candidate Starts for Mima20_77:
(47, 51839), (Start: 72 @51887 has 108 MA's), (Start: 81 @51947 has 2 MA's), (Start: 88 @51983 has 7 MA's), (92, 52028), (101, 52070), (162, 52331), (190, 52433), (198, 52466), (214, 52562), (263, 52832), (264, 52841), (289, 52949), (296, 52994), (306, 53036), (326, 53168), (327, 53171), (328, 53201), (331, 53222), (342, 53291), (350, 53345), (372, 53444), (376, 53459), (393, 53501), (429, 53675), (433, 53708), (437, 53726), (442, 53744), (452, 53789), (453, 53792), (479, 53888), (487, 53930), (490, 53942), (495, 53978), (538, 54158), (548, 54200), (553, 54236), (566, 54290), (571, 54308), (589, 54404), (591, 54416), (675, 54611), (704, 54695), (720, 54776), (724, 54800), (728, 54815), (736, 54851), (739, 54863), (740, 54869), (741, 54872), (748, 54899), (759, 54944), (779, 55052), (795, 55097), (801, 55121), (812, 55157),

Gene: MintFritos_93 Start: 69920, Stop: 72733, Start Num: 59
Candidate Starts for MintFritos_93:
(Start: 52 @69905 has 1 MA's), (Start: 56 @69917 has 1 MA's), (Start: 59 @69920 has 9 MA's), (83, 70013), (91, 70073), (126, 70223), (127, 70226), (128, 70232), (136, 70274), (146, 70331), (152, 70361), (153, 70364), (169, 70427), (174, 70448), (175, 70451), (185, 70478), (207, 70595), (209, 70604), (217, 70661), (219, 70670), (242, 70802), (297, 70967), (302, 70985), (305, 71000), (307, 71006), (309, 71018), (316, 71045), (317, 71048), (323, 71108), (324, 71117), (325, 71120), (327, 71132), (330, 71177), (341, 71246), (345, 71270), (375, 71426), (379, 71444), (386, 71468), (389, 71486), (407, 71582), (415, 71624), (417, 71630), (426, 71666), (427, 71675), (430, 71693), (431,

71699), (433, 71723), (434, 71729), (435, 71732), (441, 71750), (442, 71753), (465, 71846), (475, 71891), (477, 71897), (481, 71921), (482, 71924), (484, 71933), (485, 71939), (487, 71951), (509, 72068), (511, 72086), (512, 72089), (515, 72098), (542, 72212), (546, 72227), (575, 72374), (578, 72386), (580, 72392), (590, 72425), (596, 72458), (599, 72476), (604, 72488), (606, 72497), (643, 72614), (656, 72638),

Gene: MoMoMixon_207 Start: 113214, Stop: 116696, Start Num: 28
Candidate Starts for MoMoMixon_207:
(Start: 26 @113208 has 50 MA's), (Start: 28 @113214 has 6 MA's), (Start: 33 @113226 has 8 MA's), (38, 113235), (Start: 68 @113301 has 125 MA's), (83, 113376), (101, 113490), (109, 113514), (125, 113574), (145, 113685), (153, 113724), (159, 113748), (169, 113790), (196, 113889), (206, 113931), (207, 113937), (210, 113949), (218, 114012), (227, 114072), (228, 114075), (233, 114102), (240, 114144), (256, 114207), (302, 114363), (306, 114381), (309, 114396), (321, 114513), (327, 114552), (342, 114672), (348, 114714), (358, 114759), (360, 114768), (370, 114819), (381, 114861), (397, 114927), (399, 114936), (400, 114939), (401, 114945), (402, 114948), (403, 114957), (404, 114963), (405, 114978), (426, 115065), (445, 115170), (453, 115224), (467, 115311), (473, 115341), (480, 115371), (486, 115404), (488, 115413), (499, 115485), (505, 115515), (533, 115632), (541, 115677), (549, 115719), (579, 115863), (595, 115923), (632, 116025), (659, 116112), (660, 116115), (666, 116133), (676, 116169), (677, 116172), (698, 116232), (703, 116250), (724, 116346), (732, 116376), (736, 116394), (744, 116424), (765, 116517), (769, 116532), (785, 116613), (787, 116619), (789, 116631),

Gene: Moby_205 Start: 112201, Stop: 115671, Start Num: 33
Candidate Starts for Moby_205:
(Start: 26 @112183 has 50 MA's), (Start: 28 @112189 has 6 MA's), (Start: 33 @112201 has 8 MA's), (38, 112210), (Start: 68 @112276 has 125 MA's), (83, 112351), (101, 112465), (109, 112489), (125, 112549), (145, 112660), (153, 112699), (159, 112723), (169, 112765), (196, 112864), (206, 112906), (207, 112912), (210, 112924), (218, 112987), (227, 113047), (228, 113050), (233, 113077), (240, 113119), (256, 113182), (293, 113302), (302, 113338), (306, 113356), (309, 113371), (321, 113488), (327, 113527), (342, 113647), (348, 113689), (358, 113734), (360, 113743), (370, 113794), (381, 113836), (397, 113902), (399, 113911), (400, 113914), (401, 113920), (402, 113923), (403, 113932), (404, 113938), (405, 113953), (426, 114040), (445, 114145), (453, 114199), (467, 114286), (473, 114316), (480, 114346), (486, 114379), (488, 114388), (499, 114460), (505, 114490), (533, 114607), (541, 114652), (549, 114694), (579, 114838), (595, 114898), (632, 115000), (659, 115087), (660, 115090), (666, 115108), (676, 115144), (677, 115147), (698, 115207), (703, 115225), (724, 115321), (732, 115351), (736, 115369), (744, 115399), (765, 115492), (769, 115507), (785, 115588), (787, 115594), (789, 115606),

Gene: MoiGyank_82 Start: 52491, Stop: 55832, Start Num: 72
Candidate Starts for MoiGyank_82:
(47, 52443), (Start: 72 @52491 has 108 MA's), (Start: 81 @52551 has 2 MA's), (Start: 88 @52587 has 7 MA's), (92, 52632), (101, 52674), (162, 52935), (190, 53037), (198, 53070), (214, 53166), (263, 53436), (264, 53445), (289, 53553), (296, 53598), (306, 53640), (326, 53772), (327, 53775), (328, 53805), (331, 53826), (342, 53895), (350, 53949), (372, 54048), (376, 54063), (393, 54105), (429, 54279), (433, 54312), (437, 54330), (442, 54348), (452, 54393), (453, 54396), (479, 54492), (487, 54534), (490, 54546), (495, 54582), (538, 54762), (548, 54804), (553, 54840), (566, 54894), (571, 54912), (589, 55008), (591, 55020), (675, 55215), (704, 55299), (720, 55380), (724, 55404), (728, 55419), (736, 55455), (739, 55467), (740, 55473), (741, 55476), (748, 55503), (759, 55548), (779, 55656), (795, 55701), (801, 55725), (812, 55761),

Gene: Moiqah_204 Start: 112253, Stop: 115648, Start Num: 68
Candidate Starts for Moiqah_204:

(Start: 26 @112160 has 50 MA's), (Start: 28 @112166 has 6 MA's), (Start: 33 @112178 has 8 MA's), (38, 112187), (Start: 68 @112253 has 125 MA's), (83, 112328), (101, 112442), (109, 112466), (125, 112526), (145, 112637), (153, 112676), (159, 112700), (169, 112742), (196, 112841), (206, 112883), (207, 112889), (210, 112901), (218, 112964), (227, 113024), (228, 113027), (233, 113054), (240, 113096), (256, 113159), (293, 113279), (302, 113315), (306, 113333), (309, 113348), (321, 113465), (327, 113504), (342, 113624), (348, 113666), (358, 113711), (360, 113720), (370, 113771), (381, 113813), (397, 113879), (399, 113888), (400, 113891), (401, 113897), (402, 113900), (403, 113909), (404, 113915), (405, 113930), (426, 114017), (445, 114122), (453, 114176), (467, 114263), (473, 114293), (480, 114323), (486, 114356), (488, 114365), (499, 114437), (505, 114467), (533, 114584), (541, 114629), (549, 114671), (579, 114815), (595, 114875), (632, 114977), (659, 115064), (660, 115067), (666, 115085), (676, 115121), (677, 115124), (698, 115184), (703, 115202), (724, 115298), (732, 115328), (736, 115346), (744, 115376), (765, 115469), (769, 115484), (785, 115565), (787, 115571), (789, 115583),

Gene: Momo_210 Start: 112377, Stop: 115772, Start Num: 68
Candidate Starts for Momo_210:
(Start: 26 @112284 has 50 MA's), (Start: 28 @112290 has 6 MA's), (Start: 33 @112302 has 8 MA's), (38, 112311), (Start: 68 @112377 has 125 MA's), (83, 112452), (101, 112566), (109, 112590), (125, 112650), (145, 112761), (153, 112800), (159, 112824), (169, 112866), (196, 112965), (206, 113007), (207, 113013), (210, 113025), (218, 113088), (227, 113148), (228, 113151), (233, 113178), (240, 113220), (256, 113283), (293, 113403), (302, 113439), (306, 113457), (309, 113472), (321, 113589), (327, 113628), (342, 113748), (348, 113790), (358, 113835), (360, 113844), (370, 113895), (381, 113937), (397, 114003), (399, 114012), (400, 114015), (401, 114021), (402, 114024), (403, 114033), (404, 114039), (405, 114054), (426, 114141), (445, 114246), (453, 114300), (467, 114387), (473, 114417), (480, 114447), (486, 114480), (488, 114489), (499, 114561), (505, 114591), (533, 114708), (541, 114753), (549, 114795), (579, 114939), (595, 114999), (632, 115101), (659, 115188), (660, 115191), (666, 115209), (676, 115245), (677, 115248), (698, 115308), (703, 115326), (724, 115422), (732, 115452), (736, 115470), (744, 115500), (765, 115593), (769, 115608), (785, 115689), (787, 115695), (789, 115707),

Gene: Montpel_207 Start: 114473, Stop: 117868, Start Num: 68
Candidate Starts for Montpel_207:
(Start: 26 @114380 has 50 MA's), (Start: 28 @114386 has 6 MA's), (Start: 33 @114398 has 8 MA's), (38, 114407), (Start: 68 @114473 has 125 MA's), (83, 114548), (101, 114662), (109, 114686), (125, 114746), (145, 114857), (153, 114896), (159, 114920), (169, 114962), (196, 115061), (206, 115103), (207, 115109), (210, 115121), (218, 115184), (227, 115244), (228, 115247), (233, 115274), (240, 115316), (256, 115379), (293, 115499), (302, 115535), (306, 115553), (309, 115568), (321, 115685), (327, 115724), (342, 115844), (348, 115886), (358, 115931), (360, 115940), (370, 115991), (381, 116033), (397, 116099), (399, 116108), (400, 116111), (401, 116117), (402, 116120), (403, 116129), (404, 116135), (405, 116150), (426, 116237), (445, 116342), (453, 116396), (467, 116483), (473, 116513), (480, 116543), (486, 116576), (488, 116585), (499, 116657), (505, 116687), (533, 116804), (541, 116849), (549, 116891), (579, 117035), (595, 117095), (632, 117197), (659, 117284), (660, 117287), (666, 117305), (676, 117341), (677, 117344), (698, 117404), (703, 117422), (724, 117518), (732, 117548), (736, 117566), (744, 117596), (765, 117689), (769, 117704), (785, 117785), (787, 117791), (789, 117803),

Gene: Mopey_68 Start: 49703, Stop: 53005, Start Num: 25
Candidate Starts for Mopey_68:
(Start: 25 @49703 has 21 MA's), (Start: 61 @49790 has 1 MA's), (Start: 65 @49796 has 3 MA's), (Start: 72 @49805 has 108 MA's), (Start: 88 @49901 has 7 MA's), (128, 50057), (143, 50144), (144, 50147), (156, 50198), (214, 50462), (221, 50501), (232, 50573), (234, 50582), (247, 50657), (266, 50723), (269, 50729), (283, 50783), (289, 50801), (297, 50852), (298, 50855), (305, 50885), (319, 50969), (320, 50978), (324, 51005), (326, 51020), (350, 51197), (351, 51206), (356, 51221), (376,

51311), (403, 51392), (413, 51452), (429, 51527), (433, 51560), (434, 51566), (440, 51587), (442, 51596), (452, 51641), (471, 51710), (476, 51725), (490, 51794), (501, 51857), (509, 51890), (510, 51893), (521, 51944), (540, 52019), (566, 52142), (571, 52160), (587, 52238), (589, 52241), (591, 52253), (601, 52298), (610, 52319), (613, 52331), (622, 52361), (627, 52382), (687, 52454), (704, 52511), (723, 52610), (739, 52676), (761, 52766), (767, 52796), (768, 52799), (774, 52829), (782, 52874), (796, 52916), (806, 52946), (809, 52958), (812, 52973), (814, 52982),

Gene: Morizzled23_206 Start: 111744, Stop: 115139, Start Num: 68
Candidate Starts for Morizzled23_206:
(Start: 26 @111651 has 50 MA's), (Start: 28 @111657 has 6 MA's), (Start: 33 @111669 has 8 MA's), (38, 111678), (Start: 68 @111744 has 125 MA's), (83, 111819), (101, 111933), (109, 111957), (125, 112017), (145, 112128), (153, 112167), (159, 112191), (169, 112233), (196, 112332), (206, 112374), (207, 112380), (210, 112392), (218, 112455), (227, 112515), (228, 112518), (233, 112545), (240, 112587), (256, 112650), (293, 112770), (302, 112806), (306, 112824), (309, 112839), (321, 112956), (327, 112995), (342, 113115), (348, 113157), (358, 113202), (360, 113211), (370, 113262), (381, 113304), (397, 113370), (399, 113379), (400, 113382), (401, 113388), (402, 113391), (403, 113400), (404, 113406), (405, 113421), (426, 113508), (445, 113613), (453, 113667), (467, 113754), (473, 113784), (480, 113814), (486, 113847), (488, 113856), (499, 113928), (505, 113958), (533, 114075), (541, 114120), (549, 114162), (579, 114306), (595, 114366), (632, 114468), (659, 114555), (660, 114558), (666, 114576), (676, 114612), (677, 114615), (698, 114675), (703, 114693), (724, 114789), (732, 114819), (736, 114837), (744, 114867), (765, 114960), (769, 114975), (785, 115056), (787, 115062), (789, 115074),

Gene: Myrna_192 Start: 109812, Stop: 113228, Start Num: 65
Candidate Starts for Myrna_192:
(Start: 65 @109812 has 3 MA's), (84, 109899), (94, 109974), (110, 110037), (144, 110202), (199, 110430), (206, 110463), (207, 110469), (209, 110478), (211, 110484), (216, 110535), (218, 110544), (227, 110601), (228, 110604), (233, 110631), (243, 110688), (247, 110709), (256, 110733), (306, 110907), (309, 110922), (319, 111027), (337, 111171), (342, 111198), (360, 111294), (377, 111360), (390, 111417), (399, 111462), (400, 111465), (404, 111489), (407, 111510), (422, 111576), (426, 111594), (427, 111603), (431, 111627), (455, 111762), (483, 111909), (486, 111930), (488, 111939), (492, 111963), (501, 112020), (505, 112035), (512, 112065), (534, 112152), (541, 112188), (553, 112254), (565, 112296), (566, 112308), (569, 112317), (588, 112419), (595, 112455), (630, 112554), (677, 112704), (693, 112737), (719, 112860), (732, 112911), (736, 112929), (746, 112965), (751, 112995), (756, 113013), (764, 113049), (780, 113130), (787, 113151), (789, 113163), (805, 113205), (810, 113220),

Gene: Nabi_55 Start: 41492, Stop: 38013, Start Num: 69
Candidate Starts for Nabi_55:
(Start: 42 @41561 has 1 MA's), (Start: 69 @41492 has 55 MA's), (Start: 81 @41432 has 2 MA's), (83, 41423), (90, 41381), (105, 41288), (124, 41219), (138, 41150), (151, 41096), (169, 41024), (191, 40928), (209, 40850), (229, 40703), (238, 40664), (242, 40637), (245, 40619), (249, 40598), (256, 40583), (297, 40463), (301, 40451), (328, 40265), (329, 40259), (349, 40130), (351, 40112), (368, 40055), (369, 40052), (371, 40040), (403, 39902), (404, 39896), (405, 39881), (407, 39875), (414, 39842), (431, 39764), (435, 39731), (459, 39641), (469, 39590), (487, 39509), (489, 39503), (500, 39434), (508, 39392), (511, 39371), (517, 39350), (531, 39305), (541, 39266), (551, 39209), (552, 39200), (572, 39119), (575, 39092), (581, 39071), (583, 39050), (593, 39020), (598, 38993), (625, 38927), (627, 38918), (630, 38906), (655, 38819), (662, 38795), (693, 38699), (712, 38603), (731, 38519), (738, 38492), (767, 38354), (770, 38345), (775, 38318), (784, 38270), (786, 38264), (791, 38243), (794, 38237), (817, 38132), (818, 38105), (819, 38093),

Gene: NadineRae_59 Start: 44917, Stop: 41666, Start Num: 72
Candidate Starts for NadineRae_59:

(24, 45019), (29, 45007), (Start: 60 @44938 has 1 MA's), (Start: 72 @44917 has 108 MA's), (85, 44836), (Start: 88 @44821 has 7 MA's), (92, 44776), (126, 44668), (128, 44659), (192, 44371), (203, 44320), (209, 44293), (215, 44239), (221, 44209), (255, 44026), (269, 44002), (292, 43894), (309, 43816), (314, 43789), (324, 43711), (326, 43696), (346, 43558), (363, 43465), (396, 43360), (398, 43354), (403, 43327), (413, 43267), (429, 43192), (433, 43159), (442, 43123), (452, 43078), (459, 43066), (472, 43003), (502, 42838), (503, 42835), (511, 42796), (512, 42793), (514, 42787), (516, 42778), (519, 42769), (543, 42673), (548, 42655), (553, 42619), (603, 42415), (647, 42319), (652, 42316), (677, 42235), (679, 42226), (697, 42175), (714, 42085), (737, 41989), (738, 41986), (778, 41803),

Gene: Naija_210 Start: 113080, Stop: 116475, Start Num: 68
Candidate Starts for Naija_210:
(Start: 26 @112987 has 50 MA's), (Start: 28 @112993 has 6 MA's), (Start: 33 @113005 has 8 MA's), (38, 113014), (Start: 68 @113080 has 125 MA's), (83, 113155), (101, 113269), (109, 113293), (125, 113353), (145, 113464), (153, 113503), (159, 113527), (169, 113569), (196, 113668), (206, 113710), (207, 113716), (210, 113728), (218, 113791), (227, 113851), (228, 113854), (233, 113881), (240, 113923), (256, 113986), (293, 114106), (302, 114142), (306, 114160), (309, 114175), (321, 114292), (327, 114331), (342, 114451), (348, 114493), (358, 114538), (360, 114547), (370, 114598), (381, 114640), (397, 114706), (399, 114715), (400, 114718), (401, 114724), (402, 114727), (403, 114736), (404, 114742), (405, 114757), (426, 114844), (445, 114949), (453, 115003), (467, 115090), (473, 115120), (480, 115150), (486, 115183), (488, 115192), (499, 115264), (505, 115294), (533, 115411), (541, 115456), (549, 115498), (579, 115642), (595, 115702), (632, 115804), (659, 115891), (660, 115894), (666, 115912), (676, 115948), (677, 115951), (698, 116011), (703, 116029), (724, 116125), (732, 116155), (736, 116173), (744, 116203), (765, 116296), (769, 116311), (785, 116392), (787, 116398), (789, 116410),

Gene: Nanodon_56 Start: 41425, Stop: 37946, Start Num: 69
Candidate Starts for Nanodon_56:
(8, 41629), (Start: 42 @41494 has 1 MA's), (Start: 69 @41425 has 55 MA's), (Start: 81 @41362 has 2 MA's), (83, 41353), (105, 41218), (124, 41149), (138, 41080), (151, 41026), (169, 40954), (191, 40858), (209, 40780), (229, 40633), (238, 40594), (245, 40549), (249, 40528), (256, 40513), (297, 40393), (314, 40318), (328, 40195), (329, 40189), (335, 40144), (349, 40060), (351, 40042), (368, 39985), (369, 39982), (371, 39970), (403, 39832), (405, 39811), (407, 39805), (409, 39790), (414, 39772), (420, 39748), (423, 39742), (430, 39700), (431, 39694), (435, 39661), (469, 39520), (487, 39439), (489, 39433), (500, 39364), (511, 39301), (531, 39235), (541, 39196), (551, 39139), (552, 39130), (575, 39022), (577, 39013), (581, 39001), (583, 38980), (593, 38950), (598, 38923), (625, 38857), (627, 38848), (630, 38836), (655, 38749), (662, 38725), (712, 38533), (731, 38449), (738, 38422), (739, 38416), (767, 38284), (770, 38275), (775, 38248), (784, 38200), (786, 38194), (794, 38167), (819, 38023),

Gene: Napoleon13_206 Start: 112108, Stop: 115503, Start Num: 68
Candidate Starts for Napoleon13_206:
(Start: 26 @112015 has 50 MA's), (Start: 28 @112021 has 6 MA's), (Start: 33 @112033 has 8 MA's), (38, 112042), (Start: 68 @112108 has 125 MA's), (83, 112183), (101, 112297), (109, 112321), (125, 112381), (145, 112492), (153, 112531), (159, 112555), (169, 112597), (196, 112696), (206, 112738), (207, 112744), (210, 112756), (218, 112819), (227, 112879), (228, 112882), (233, 112909), (240, 112951), (256, 113014), (293, 113134), (302, 113170), (306, 113188), (309, 113203), (321, 113320), (327, 113359), (342, 113479), (348, 113521), (358, 113566), (360, 113575), (370, 113626), (381, 113668), (397, 113734), (399, 113743), (400, 113746), (401, 113752), (402, 113755), (403, 113764), (404, 113770), (405, 113785), (426, 113872), (445, 113977), (453, 114031), (467, 114118), (473, 114148), (480, 114178), (486, 114211), (488, 114220), (499, 114292), (505, 114322), (533, 114439), (541, 114484), (549, 114526), (579, 114670), (595, 114730), (632, 114832), (659, 114919), (660, 114922), (666, 114940), (676, 114976), (677, 114979), (698, 115039), (703, 115057), (724, 115153),

(732, 115183), (736, 115201), (744, 115231), (765, 115324), (769, 115339), (785, 115420), (787, 115426), (789, 115438),

Gene: Nappy_210 Start: 114681, Stop: 118169, Start Num: 26
Candidate Starts for Nappy_210:
(Start: 26 @114681 has 50 MA's), (Start: 28 @114687 has 6 MA's), (Start: 33 @114699 has 8 MA's), (38, 114708), (Start: 68 @114774 has 125 MA's), (83, 114849), (101, 114963), (109, 114987), (125, 115047), (145, 115158), (153, 115197), (159, 115221), (169, 115263), (170, 115269), (196, 115362), (206, 115404), (207, 115410), (210, 115422), (218, 115485), (227, 115545), (228, 115548), (233, 115575), (240, 115617), (256, 115680), (302, 115836), (306, 115854), (309, 115869), (321, 115986), (327, 116025), (342, 116145), (348, 116187), (358, 116232), (360, 116241), (370, 116292), (381, 116334), (397, 116400), (399, 116409), (400, 116412), (401, 116418), (402, 116421), (403, 116430), (404, 116436), (405, 116451), (426, 116538), (445, 116643), (453, 116697), (467, 116784), (473, 116814), (480, 116844), (486, 116877), (488, 116886), (499, 116958), (505, 116988), (533, 117105), (541, 117150), (549, 117192), (579, 117336), (595, 117396), (632, 117498), (659, 117585), (660, 117588), (666, 117606), (676, 117642), (677, 117645), (698, 117705), (703, 117723), (724, 117819), (732, 117849), (736, 117867), (744, 117897), (765, 117990), (769, 118005), (785, 118086), (787, 118092), (789, 118104),

Gene: NatB6_60 Start: 48176, Stop: 44865, Start Num: 72
Candidate Starts for NatB6_60:
(5, 48419), (Start: 72 @48176 has 108 MA's), (84, 48104), (Start: 88 @48080 has 7 MA's), (92, 48035), (126, 47927), (128, 47918), (150, 47795), (190, 47636), (192, 47630), (197, 47606), (215, 47498), (221, 47468), (234, 47387), (269, 47261), (271, 47243), (306, 47090), (314, 47048), (324, 46970), (326, 46955), (346, 46817), (396, 46619), (405, 46565), (406, 46562), (419, 46502), (429, 46451), (437, 46400), (442, 46382), (452, 46337), (502, 46097), (511, 46055), (512, 46052), (514, 46046), (519, 46028), (543, 45932), (553, 45878), (584, 45734), (589, 45725), (598, 45680), (616, 45650), (636, 45575), (647, 45521), (662, 45479), (677, 45431), (699, 45350), (706, 45329), (724, 45239), (732, 45209), (737, 45185), (738, 45182), (778, 44999), (796, 44942),

Gene: Naval22_216 Start: 114857, Stop: 118252, Start Num: 68
Candidate Starts for Naval22_216:
(Start: 26 @114764 has 50 MA's), (Start: 28 @114770 has 6 MA's), (Start: 33 @114782 has 8 MA's), (38, 114791), (Start: 68 @114857 has 125 MA's), (83, 114932), (101, 115046), (109, 115070), (125, 115130), (145, 115241), (153, 115280), (159, 115304), (169, 115346), (196, 115445), (206, 115487), (207, 115493), (210, 115505), (218, 115568), (227, 115628), (228, 115631), (233, 115658), (240, 115700), (256, 115763), (293, 115883), (302, 115919), (306, 115937), (309, 115952), (321, 116069), (327, 116108), (342, 116228), (348, 116270), (358, 116315), (360, 116324), (370, 116375), (381, 116417), (397, 116483), (399, 116492), (400, 116495), (401, 116501), (402, 116504), (403, 116513), (404, 116519), (405, 116534), (426, 116621), (445, 116726), (453, 116780), (467, 116867), (473, 116897), (480, 116927), (486, 116960), (488, 116969), (499, 117041), (505, 117071), (533, 117188), (541, 117233), (549, 117275), (579, 117419), (595, 117479), (632, 117581), (659, 117668), (660, 117671), (666, 117689), (676, 117725), (677, 117728), (698, 117788), (703, 117806), (724, 117902), (732, 117932), (736, 117950), (744, 117980), (765, 118073), (769, 118088), (785, 118169), (787, 118175), (789, 118187),

Gene: NedWong_208 Start: 113513, Stop: 116908, Start Num: 68
Candidate Starts for NedWong_208:
(Start: 26 @113420 has 50 MA's), (Start: 28 @113426 has 6 MA's), (Start: 33 @113438 has 8 MA's), (38, 113447), (Start: 68 @113513 has 125 MA's), (83, 113588), (101, 113702), (109, 113726), (125, 113786), (145, 113897), (153, 113936), (159, 113960), (169, 114002), (196, 114101), (206, 114143), (207, 114149), (210, 114161), (218, 114224), (227, 114284), (228, 114287), (233, 114314), (240, 114356), (256, 114419), (293, 114539), (302, 114575), (306, 114593), (309, 114608), (321, 114725),

(327, 114764), (342, 114884), (348, 114926), (358, 114971), (360, 114980), (370, 115031), (381, 115073), (397, 115139), (399, 115148), (400, 115151), (401, 115157), (402, 115160), (403, 115169), (404, 115175), (405, 115190), (426, 115277), (445, 115382), (453, 115436), (467, 115523), (473, 115553), (480, 115583), (486, 115616), (488, 115625), (499, 115697), (505, 115727), (533, 115844), (541, 115889), (549, 115931), (579, 116075), (595, 116135), (632, 116237), (659, 116324), (660, 116327), (666, 116345), (676, 116381), (677, 116384), (698, 116444), (703, 116462), (724, 116558), (732, 116588), (736, 116606), (744, 116636), (765, 116729), (769, 116744), (785, 116825), (787, 116831), (789, 116843),

Gene: Nerdos_52 Start: 40231, Stop: 36752, Start Num: 69
Candidate Starts for Nerdos_52:
(7, 40441), (Start: 69 @40231 has 55 MA's), (83, 40159), (Start: 88 @40132 has 7 MA's), (90, 40117), (124, 39955), (129, 39928), (132, 39922), (151, 39832), (155, 39817), (168, 39763), (169, 39760), (191, 39664), (209, 39586), (229, 39439), (238, 39400), (245, 39355), (249, 39334), (256, 39319), (279, 39277), (284, 39265), (297, 39199), (301, 39187), (314, 39124), (329, 38995), (330, 38986), (335, 38950), (349, 38866), (351, 38848), (368, 38791), (369, 38788), (371, 38776), (403, 38638), (404, 38632), (405, 38617), (407, 38611), (414, 38578), (431, 38500), (435, 38467), (469, 38326), (483, 38269), (487, 38245), (489, 38239), (500, 38170), (511, 38107), (531, 38041), (536, 38020), (541, 38002), (551, 37945), (552, 37936), (575, 37828), (577, 37819), (581, 37807), (583, 37786), (593, 37756), (598, 37729), (625, 37663), (627, 37654), (630, 37642), (655, 37555), (662, 37531), (677, 37483), (712, 37339), (729, 37264), (767, 37090), (775, 37054), (784, 37006), (794, 36973),

Gene: Nettle_79 Start: 52245, Stop: 55586, Start Num: 72
Candidate Starts for Nettle_79:
(48, 52203), (Start: 72 @52245 has 108 MA's), (Start: 81 @52305 has 2 MA's), (Start: 88 @52341 has 7 MA's), (92, 52386), (101, 52428), (162, 52689), (190, 52791), (198, 52824), (214, 52920), (263, 53190), (264, 53199), (289, 53307), (296, 53352), (306, 53394), (326, 53526), (327, 53529), (328, 53559), (342, 53649), (350, 53703), (372, 53802), (376, 53817), (393, 53859), (429, 54033), (433, 54066), (437, 54084), (442, 54102), (452, 54147), (453, 54150), (479, 54246), (487, 54288), (490, 54300), (495, 54336), (538, 54516), (548, 54558), (553, 54594), (566, 54648), (571, 54666), (589, 54762), (591, 54774), (675, 54969), (704, 55053), (724, 55158), (728, 55173), (736, 55209), (739, 55221), (740, 55227), (741, 55230), (748, 55257), (759, 55302), (779, 55410), (795, 55455), (801, 55479), (812, 55515),

Gene: Ngannou_206 Start: 111359, Stop: 114754, Start Num: 68
Candidate Starts for Ngannou_206:
(Start: 26 @111266 has 50 MA's), (Start: 28 @111272 has 6 MA's), (Start: 33 @111284 has 8 MA's), (38, 111293), (Start: 68 @111359 has 125 MA's), (83, 111434), (101, 111548), (109, 111572), (125, 111632), (145, 111743), (153, 111782), (159, 111806), (169, 111848), (196, 111947), (206, 111989), (207, 111995), (210, 112007), (218, 112070), (227, 112130), (228, 112133), (233, 112160), (240, 112202), (256, 112265), (293, 112385), (302, 112421), (306, 112439), (309, 112454), (321, 112571), (327, 112610), (342, 112730), (348, 112772), (358, 112817), (360, 112826), (370, 112877), (381, 112919), (397, 112985), (399, 112994), (400, 112997), (401, 113003), (402, 113006), (403, 113015), (404, 113021), (405, 113036), (426, 113123), (445, 113228), (453, 113282), (467, 113369), (473, 113399), (480, 113429), (486, 113462), (488, 113471), (499, 113543), (505, 113573), (533, 113690), (541, 113735), (549, 113777), (579, 113921), (595, 113981), (632, 114083), (659, 114170), (660, 114173), (666, 114191), (676, 114227), (677, 114230), (698, 114290), (703, 114308), (724, 114404), (732, 114434), (736, 114452), (744, 114482), (765, 114575), (769, 114590), (785, 114671), (787, 114677), (789, 114689),

Gene: Nidhogg_210 Start: 113906, Stop: 117301, Start Num: 68
Candidate Starts for Nidhogg_210:

(Start: 26 @113813 has 50 MA's), (Start: 28 @113819 has 6 MA's), (Start: 33 @113831 has 8 MA's), (38, 113840), (Start: 68 @113906 has 125 MA's), (83, 113981), (101, 114095), (109, 114119), (125, 114179), (145, 114290), (153, 114329), (159, 114353), (169, 114395), (196, 114494), (206, 114536), (207, 114542), (210, 114554), (218, 114617), (227, 114677), (228, 114680), (233, 114707), (240, 114749), (256, 114812), (293, 114932), (302, 114968), (306, 114986), (309, 115001), (321, 115118), (327, 115157), (342, 115277), (348, 115319), (358, 115364), (360, 115373), (370, 115424), (381, 115466), (397, 115532), (399, 115541), (400, 115544), (401, 115550), (402, 115553), (403, 115562), (404, 115568), (405, 115583), (426, 115670), (445, 115775), (453, 115829), (467, 115916), (473, 115946), (480, 115976), (486, 116009), (488, 116018), (499, 116090), (505, 116120), (533, 116237), (541, 116282), (549, 116324), (579, 116468), (595, 116528), (632, 116630), (659, 116717), (660, 116720), (666, 116738), (676, 116774), (677, 116777), (698, 116837), (703, 116855), (724, 116951), (732, 116981), (736, 116999), (744, 117029), (765, 117122), (769, 117137), (785, 117218), (787, 117224), (789, 117236),

Gene: Nish23_78 Start: 55192, Stop: 58488, Start Num: 72
Candidate Starts for Nish23_78:
(Start: 55 @55162 has 2 MA's), (66, 55183), (Start: 72 @55192 has 108 MA's), (84, 55264), (Start: 88 @55288 has 7 MA's), (91, 55321), (128, 55456), (144, 55546), (145, 55549), (148, 55567), (173, 55675), (214, 55867), (259, 56101), (275, 56158), (295, 56257), (303, 56284), (308, 56311), (309, 56314), (326, 56437), (329, 56476), (334, 56518), (347, 56596), (350, 56614), (353, 56632), (357, 56644), (373, 56719), (406, 56875), (423, 56959), (434, 57037), (440, 57058), (442, 57067), (443, 57073), (446, 57082), (461, 57154), (464, 57169), (471, 57208), (475, 57220), (493, 57313), (494, 57319), (503, 57367), (512, 57409), (550, 57559), (551, 57571), (571, 57655), (597, 57796), (639, 57901), (700, 58000), (703, 58009), (718, 58087), (727, 58126), (730, 58141), (741, 58189), (763, 58285), (768, 58303), (774, 58330), (783, 58378), (793, 58408), (795, 58411), (799, 58426), (809, 58456), (811, 58465), (812, 58471), (813, 58474),

Gene: NoodleTree_215 Start: 113813, Stop: 117208, Start Num: 68
Candidate Starts for NoodleTree_215:
(Start: 26 @113720 has 50 MA's), (Start: 28 @113726 has 6 MA's), (Start: 33 @113738 has 8 MA's), (38, 113747), (Start: 68 @113813 has 125 MA's), (83, 113888), (101, 114002), (109, 114026), (125, 114086), (145, 114197), (153, 114236), (159, 114260), (169, 114302), (196, 114401), (206, 114443), (207, 114449), (210, 114461), (218, 114524), (227, 114584), (228, 114587), (233, 114614), (240, 114656), (256, 114719), (302, 114875), (306, 114893), (309, 114908), (321, 115025), (327, 115064), (342, 115184), (348, 115226), (358, 115271), (360, 115280), (370, 115331), (381, 115373), (397, 115439), (399, 115448), (400, 115451), (401, 115457), (402, 115460), (403, 115469), (404, 115475), (405, 115490), (426, 115577), (445, 115682), (453, 115736), (467, 115823), (473, 115853), (480, 115883), (486, 115916), (488, 115925), (499, 115997), (505, 116027), (533, 116144), (541, 116189), (549, 116231), (579, 116375), (595, 116435), (632, 116537), (659, 116624), (660, 116627), (666, 116645), (676, 116681), (677, 116684), (698, 116744), (703, 116762), (724, 116858), (732, 116888), (736, 116906), (744, 116936), (765, 117029), (769, 117044), (785, 117125), (787, 117131), (789, 117143),

Gene: NorManre_84 Start: 53277, Stop: 56585, Start Num: 77
Candidate Starts for NorManre_84:
(Start: 77 @53277 has 4 MA's), (Start: 81 @53304 has 2 MA's), (Start: 88 @53340 has 7 MA's), (92, 53385), (101, 53427), (162, 53688), (190, 53790), (198, 53823), (214, 53919), (263, 54189), (264, 54198), (289, 54306), (296, 54351), (306, 54393), (326, 54525), (327, 54528), (328, 54558), (331, 54579), (342, 54648), (350, 54702), (372, 54801), (376, 54816), (393, 54858), (429, 55032), (433, 55065), (437, 55083), (442, 55101), (452, 55146), (453, 55149), (479, 55245), (487, 55287), (490, 55299), (495, 55335), (538, 55515), (548, 55557), (553, 55593), (566, 55647), (571, 55665), (589, 55761), (591, 55773), (675, 55968), (704, 56052), (724, 56157), (728, 56172), (736, 56208), (739, 56220), (740, 56226), (741, 56229), (748, 56256), (759, 56301), (779, 56409), (795, 56454), (801,

56478), (812, 56514),

Gene: Norm_209 Start: 113815, Stop: 117210, Start Num: 68
Candidate Starts for Norm_209:
(Start: 18 @113692 has 6 MA's), (Start: 26 @113722 has 50 MA's), (Start: 28 @113728 has 6 MA's), (Start: 33 @113740 has 8 MA's), (38, 113749), (Start: 68 @113815 has 125 MA's), (83, 113890), (101, 114004), (109, 114028), (125, 114088), (145, 114199), (153, 114238), (159, 114262), (169, 114304), (196, 114403), (206, 114445), (207, 114451), (210, 114463), (218, 114526), (227, 114586), (228, 114589), (233, 114616), (240, 114658), (256, 114721), (293, 114841), (302, 114877), (306, 114895), (309, 114910), (321, 115027), (327, 115066), (342, 115186), (348, 115228), (358, 115273), (360, 115282), (370, 115333), (381, 115375), (397, 115441), (399, 115450), (400, 115453), (401, 115459), (402, 115462), (403, 115471), (404, 115477), (405, 115492), (426, 115579), (445, 115684), (453, 115738), (467, 115825), (473, 115855), (480, 115885), (486, 115918), (488, 115927), (499, 115999), (505, 116029), (533, 116146), (541, 116191), (549, 116233), (579, 116377), (595, 116437), (632, 116539), (659, 116626), (660, 116629), (666, 116647), (676, 116683), (677, 116686), (698, 116746), (703, 116764), (724, 116860), (732, 116890), (736, 116908), (744, 116938), (765, 117031), (769, 117046), (785, 117127), (787, 117133), (789, 117145),

Gene: NosilaM_62 Start: 48632, Stop: 45330, Start Num: 72
Candidate Starts for NosilaM_62:
(Start: 72 @48632 has 108 MA's), (Start: 88 @48536 has 7 MA's), (126, 48383), (128, 48374), (150, 48251), (190, 48092), (192, 48086), (197, 48062), (215, 47954), (234, 47843), (269, 47717), (306, 47546), (314, 47504), (320, 47453), (324, 47426), (326, 47411), (346, 47273), (353, 47222), (371, 47141), (396, 47075), (406, 47018), (419, 46958), (429, 46907), (442, 46838), (452, 46793), (494, 46601), (501, 46559), (502, 46550), (511, 46508), (512, 46505), (514, 46499), (519, 46481), (543, 46385), (553, 46331), (589, 46178), (607, 46118), (616, 46103), (647, 45974), (677, 45896), (697, 45836), (699, 45815), (700, 45812), (706, 45794), (722, 45710), (737, 45650), (738, 45647), (744, 45623), (760, 45554), (814, 45341),

Gene: Nova_66 Start: 50242, Stop: 53544, Start Num: 25
Candidate Starts for Nova_66:
(Start: 25 @50242 has 21 MA's), (Start: 61 @50329 has 1 MA's), (Start: 65 @50335 has 3 MA's), (Start: 72 @50344 has 108 MA's), (Start: 88 @50440 has 7 MA's), (128, 50596), (143, 50683), (144, 50686), (156, 50737), (214, 51001), (221, 51040), (232, 51112), (234, 51121), (247, 51196), (266, 51262), (269, 51268), (283, 51322), (289, 51340), (297, 51391), (298, 51394), (305, 51424), (319, 51508), (320, 51517), (324, 51544), (326, 51559), (350, 51736), (351, 51745), (376, 51850), (403, 51931), (413, 51991), (429, 52066), (433, 52099), (434, 52105), (440, 52126), (442, 52135), (452, 52180), (471, 52249), (476, 52264), (490, 52333), (501, 52396), (509, 52429), (510, 52432), (521, 52483), (540, 52558), (566, 52681), (571, 52699), (587, 52777), (589, 52780), (591, 52792), (601, 52837), (610, 52858), (613, 52870), (622, 52900), (627, 52921), (687, 52993), (704, 53050), (723, 53149), (739, 53215), (761, 53305), (767, 53335), (768, 53338), (774, 53368), (782, 53413), (796, 53455), (806, 53485), (809, 53497), (812, 53512), (814, 53521),

Gene: NovaSharks_80 Start: 50500, Stop: 53745, Start Num: 88
Candidate Starts for NovaSharks_80:
(Start: 88 @50500 has 7 MA's), (92, 50545), (101, 50587), (162, 50848), (198, 50983), (214, 51079), (263, 51349), (264, 51358), (289, 51466), (296, 51511), (306, 51553), (318, 51631), (326, 51685), (327, 51688), (328, 51718), (342, 51808), (350, 51862), (372, 51961), (376, 51976), (393, 52018), (429, 52192), (433, 52225), (437, 52243), (442, 52261), (452, 52306), (453, 52309), (479, 52405), (487, 52447), (490, 52459), (495, 52495), (538, 52675), (548, 52717), (553, 52753), (565, 52795), (566, 52807), (571, 52825), (589, 52921), (591, 52933), (675, 53128), (704, 53212), (724, 53317), (728, 53332), (732, 53347), (736, 53368), (739, 53380), (740, 53386), (741, 53389), (748, 53416), (759, 53461), (779, 53569), (795, 53614), (801, 53638), (812, 53674),

Gene: NovumRegina_60 Start: 48485, Stop: 45174, Start Num: 72
Candidate Starts for NovumRegina_60:
(5, 48728), (Start: 72 @48485 has 108 MA's), (84, 48413), (Start: 88 @48389 has 7 MA's), (92, 48344), (126, 48236), (128, 48227), (150, 48104), (190, 47945), (192, 47939), (197, 47915), (215, 47807), (221, 47777), (231, 47708), (269, 47570), (271, 47552), (306, 47399), (314, 47357), (324, 47279), (326, 47264), (346, 47126), (396, 46928), (405, 46874), (406, 46871), (419, 46811), (429, 46760), (442, 46691), (452, 46646), (502, 46406), (511, 46364), (512, 46361), (514, 46355), (519, 46337), (543, 46241), (553, 46187), (584, 46043), (589, 46034), (616, 45959), (636, 45884), (647, 45830), (662, 45788), (677, 45740), (699, 45659), (706, 45638), (724, 45548), (732, 45518), (737, 45494), (738, 45491), (778, 45308), (796, 45251),

Gene: NuevoMundo_212 Start: 115367, Stop: 118762, Start Num: 68
Candidate Starts for NuevoMundo_212:
(Start: 26 @115274 has 50 MA's), (Start: 28 @115280 has 6 MA's), (Start: 33 @115292 has 8 MA's), (38, 115301), (Start: 68 @115367 has 125 MA's), (83, 115442), (101, 115556), (109, 115580), (125, 115640), (145, 115751), (153, 115790), (159, 115814), (169, 115856), (196, 115955), (206, 115997), (207, 116003), (210, 116015), (218, 116078), (227, 116138), (228, 116141), (233, 116168), (240, 116210), (256, 116273), (302, 116429), (306, 116447), (309, 116462), (321, 116579), (327, 116618), (342, 116738), (348, 116780), (358, 116825), (360, 116834), (370, 116885), (381, 116927), (397, 116993), (399, 117002), (400, 117005), (401, 117011), (402, 117014), (403, 117023), (404, 117029), (405, 117044), (426, 117131), (445, 117236), (453, 117290), (467, 117377), (473, 117407), (480, 117437), (486, 117470), (488, 117479), (499, 117551), (505, 117581), (533, 117698), (541, 117743), (549, 117785), (579, 117929), (595, 117989), (632, 118091), (659, 118178), (660, 118181), (666, 118199), (676, 118235), (677, 118238), (698, 118298), (703, 118316), (724, 118412), (732, 118442), (736, 118460), (744, 118490), (765, 118583), (769, 118598), (785, 118679), (787, 118685), (789, 118697),

Gene: Oaker_77 Start: 56089, Stop: 59412, Start Num: 55
Candidate Starts for Oaker_77:
(Start: 55 @56089 has 2 MA's), (Start: 72 @56116 has 108 MA's), (84, 56188), (Start: 88 @56212 has 7 MA's), (91, 56245), (128, 56380), (145, 56473), (148, 56491), (160, 56539), (173, 56599), (214, 56791), (259, 57025), (275, 57082), (289, 57136), (295, 57181), (303, 57208), (309, 57238), (326, 57361), (329, 57400), (334, 57442), (347, 57520), (350, 57538), (353, 57556), (373, 57643), (406, 57799), (423, 57883), (434, 57961), (440, 57982), (442, 57991), (443, 57997), (446, 58006), (461, 58078), (464, 58093), (471, 58132), (475, 58144), (493, 58237), (494, 58243), (503, 58291), (512, 58333), (550, 58483), (551, 58495), (571, 58579), (597, 58720), (639, 58825), (700, 58924), (703, 58933), (718, 59011), (727, 59050), (730, 59065), (741, 59113), (763, 59209), (768, 59227), (774, 59254), (783, 59302), (793, 59332), (795, 59335), (799, 59350), (809, 59380), (811, 59389), (812, 59395), (813, 59398),

Gene: Oliynyk_55 Start: 40726, Stop: 37247, Start Num: 69
Candidate Starts for Oliynyk_55:
(Start: 42 @40795 has 1 MA's), (Start: 69 @40726 has 55 MA's), (83, 40654), (Start: 88 @40627 has 7 MA's), (90, 40612), (124, 40450), (129, 40423), (132, 40417), (151, 40327), (155, 40312), (168, 40258), (169, 40255), (191, 40159), (209, 40081), (229, 39934), (238, 39895), (245, 39850), (249, 39829), (256, 39814), (279, 39772), (284, 39760), (297, 39694), (301, 39682), (314, 39619), (329, 39490), (330, 39481), (335, 39445), (349, 39361), (351, 39343), (368, 39286), (369, 39283), (371, 39271), (403, 39133), (404, 39127), (405, 39112), (407, 39106), (416, 39067), (431, 38995), (435, 38962), (465, 38845), (469, 38821), (483, 38764), (487, 38740), (489, 38734), (500, 38665), (511, 38602), (531, 38536), (536, 38515), (541, 38497), (551, 38440), (552, 38431), (575, 38323), (577, 38314), (581, 38302), (583, 38281), (593, 38251), (598, 38224), (625, 38158), (627, 38149), (630, 38137), (655, 38050), (662, 38026), (677, 37978), (712, 37834), (729, 37759), (767, 37585), (775,

37549), (784, 37501), (794, 37468),

Gene: Oogie_99 Start: 71972, Stop: 74785, Start Num: 59
Candidate Starts for Oogie_99:
(Start: 52 @71957 has 1 MA's), (Start: 56 @71969 has 1 MA's), (Start: 59 @71972 has 9 MA's), (83, 72065), (91, 72125), (126, 72275), (127, 72278), (128, 72284), (136, 72326), (146, 72383), (152, 72413), (153, 72416), (169, 72479), (174, 72500), (175, 72503), (185, 72530), (201, 72620), (209, 72656), (217, 72713), (219, 72722), (242, 72854), (297, 73019), (302, 73037), (305, 73052), (307, 73058), (309, 73070), (316, 73097), (317, 73100), (323, 73160), (324, 73169), (325, 73172), (327, 73184), (330, 73229), (341, 73298), (345, 73322), (375, 73478), (379, 73496), (386, 73520), (389, 73538), (407, 73634), (415, 73676), (426, 73718), (427, 73727), (430, 73745), (431, 73751), (433, 73775), (434, 73781), (435, 73784), (441, 73802), (442, 73805), (465, 73898), (475, 73943), (477, 73949), (481, 73973), (482, 73976), (484, 73985), (485, 73991), (487, 74003), (509, 74120), (511, 74138), (512, 74141), (515, 74150), (542, 74264), (546, 74279), (575, 74426), (578, 74438), (580, 74444), (596, 74510), (599, 74528), (604, 74540), (606, 74549), (642, 74663), (651, 74675), (656, 74690), (680, 74765), (683, 74774),

Gene: OrediggerDelux_210 Start: 114045, Stop: 117440, Start Num: 68
Candidate Starts for OrediggerDelux_210:
(Start: 26 @113952 has 50 MA's), (Start: 28 @113958 has 6 MA's), (Start: 33 @113970 has 8 MA's), (38, 113979), (Start: 68 @114045 has 125 MA's), (83, 114120), (101, 114234), (109, 114258), (125, 114318), (145, 114429), (153, 114468), (159, 114492), (169, 114534), (196, 114633), (206, 114675), (207, 114681), (210, 114693), (218, 114756), (227, 114816), (228, 114819), (233, 114846), (240, 114888), (256, 114951), (293, 115071), (302, 115107), (306, 115125), (309, 115140), (321, 115257), (327, 115296), (342, 115416), (348, 115458), (358, 115503), (360, 115512), (370, 115563), (381, 115605), (397, 115671), (399, 115680), (400, 115683), (401, 115689), (402, 115692), (403, 115701), (404, 115707), (405, 115722), (426, 115809), (445, 115914), (453, 115968), (467, 116055), (473, 116085), (480, 116115), (486, 116148), (488, 116157), (499, 116229), (505, 116259), (533, 116376), (541, 116421), (549, 116463), (579, 116607), (595, 116667), (632, 116769), (659, 116856), (660, 116859), (666, 116877), (676, 116913), (677, 116916), (698, 116976), (703, 116994), (724, 117090), (732, 117120), (736, 117138), (744, 117168), (765, 117261), (769, 117276), (785, 117357), (787, 117363), (789, 117375),

Gene: OtterstedtS21_79 Start: 52012, Stop: 55257, Start Num: 88
Candidate Starts for OtterstedtS21_79:
(Start: 81 @51976 has 2 MA's), (Start: 88 @52012 has 7 MA's), (92, 52057), (101, 52099), (162, 52360), (190, 52462), (198, 52495), (214, 52591), (263, 52861), (264, 52870), (289, 52978), (296, 53023), (306, 53065), (326, 53197), (327, 53200), (328, 53230), (342, 53320), (350, 53374), (372, 53473), (376, 53488), (393, 53530), (429, 53704), (433, 53737), (437, 53755), (438, 53758), (442, 53773), (452, 53818), (453, 53821), (479, 53917), (487, 53959), (490, 53971), (495, 54007), (538, 54187), (548, 54229), (553, 54265), (566, 54319), (571, 54337), (589, 54433), (591, 54445), (675, 54640), (704, 54724), (724, 54829), (728, 54844), (736, 54880), (739, 54892), (740, 54898), (741, 54901), (748, 54928), (759, 54973), (779, 55081), (795, 55126), (801, 55150), (812, 55186),

Gene: Outis_61 Start: 48867, Stop: 45550, Start Num: 72
Candidate Starts for Outis_61:
(Start: 72 @48867 has 108 MA's), (80, 48810), (Start: 88 @48771 has 7 MA's), (126, 48618), (128, 48609), (150, 48486), (190, 48327), (192, 48321), (197, 48297), (215, 48189), (234, 48078), (269, 47952), (306, 47781), (314, 47739), (318, 47700), (324, 47661), (326, 47646), (346, 47508), (371, 47376), (396, 47310), (406, 47253), (419, 47193), (429, 47142), (442, 47073), (452, 47028), (502, 46785), (511, 46743), (512, 46740), (514, 46734), (519, 46716), (543, 46620), (553, 46566), (589, 46413), (603, 46362), (607, 46353), (647, 46209), (671, 46131), (677, 46116), (697, 46056), (699, 46035), (706, 46014), (714, 45966), (735, 45882), (737, 45870), (738, 45867), (760, 45774), (808,

45591), (814, 45561),

Gene: Ozzie_52 Start: 40340, Stop: 36861, Start Num: 69
Candidate Starts for Ozzie_52:
(Start: 69 @40340 has 55 MA's), (83, 40268), (Start: 88 @40241 has 7 MA's), (90, 40226), (124, 40064), (129, 40037), (132, 40031), (151, 39941), (155, 39926), (168, 39872), (169, 39869), (191, 39773), (209, 39695), (229, 39548), (238, 39509), (245, 39464), (249, 39443), (256, 39428), (279, 39386), (284, 39374), (297, 39308), (301, 39296), (314, 39233), (329, 39104), (330, 39095), (335, 39059), (349, 38975), (351, 38957), (368, 38900), (369, 38897), (371, 38885), (403, 38747), (404, 38741), (405, 38726), (407, 38720), (414, 38687), (431, 38609), (435, 38576), (469, 38435), (483, 38378), (487, 38354), (489, 38348), (500, 38279), (511, 38216), (531, 38150), (536, 38129), (541, 38111), (551, 38054), (552, 38045), (575, 37937), (577, 37928), (581, 37916), (583, 37895), (593, 37865), (598, 37838), (625, 37772), (627, 37763), (630, 37751), (655, 37664), (662, 37640), (677, 37592), (712, 37448), (729, 37373), (767, 37199), (775, 37163), (784, 37115), (794, 37082),

Gene: OzzyJ_56 Start: 42394, Stop: 38909, Start Num: 69
Candidate Starts for OzzyJ_56:
(Start: 42 @42463 has 1 MA's), (Start: 69 @42394 has 55 MA's), (Start: 81 @42331 has 2 MA's), (83, 42322), (89, 42286), (105, 42187), (117, 42154), (124, 42118), (138, 42049), (151, 41995), (169, 41923), (180, 41887), (191, 41827), (229, 41602), (238, 41563), (242, 41536), (245, 41518), (249, 41497), (256, 41482), (279, 41440), (297, 41362), (301, 41350), (328, 41164), (329, 41158), (335, 41113), (349, 41029), (351, 41011), (368, 40954), (369, 40951), (371, 40939), (403, 40801), (404, 40795), (405, 40780), (407, 40774), (414, 40741), (431, 40663), (435, 40630), (469, 40489), (487, 40408), (489, 40402), (500, 40333), (508, 40291), (511, 40270), (517, 40249), (531, 40204), (551, 40108), (552, 40099), (554, 40093), (575, 39991), (577, 39982), (581, 39970), (583, 39949), (593, 39919), (598, 39892), (625, 39826), (627, 39817), (630, 39805), (655, 39718), (701, 39550), (712, 39502), (738, 39391), (743, 39370), (767, 39253), (770, 39244), (775, 39217), (784, 39169), (794, 39136), (818, 39004), (819, 38992),

Gene: PBI1_63 Start: 49783, Stop: 52983, Start Num: 72
Candidate Starts for PBI1_63:
(Start: 25 @49681 has 21 MA's), (Start: 61 @49768 has 1 MA's), (Start: 65 @49774 has 3 MA's), (Start: 72 @49783 has 108 MA's), (Start: 88 @49879 has 7 MA's), (128, 50035), (143, 50122), (144, 50125), (156, 50176), (214, 50440), (221, 50479), (232, 50551), (234, 50560), (247, 50635), (266, 50701), (269, 50707), (283, 50761), (289, 50779), (297, 50830), (298, 50833), (305, 50863), (319, 50947), (320, 50956), (324, 50983), (326, 50998), (350, 51175), (351, 51184), (376, 51289), (403, 51370), (413, 51430), (429, 51505), (433, 51538), (434, 51544), (440, 51565), (442, 51574), (452, 51619), (471, 51688), (476, 51703), (490, 51772), (501, 51835), (509, 51868), (510, 51871), (521, 51922), (540, 51997), (566, 52120), (571, 52138), (587, 52216), (589, 52219), (591, 52231), (601, 52276), (610, 52297), (613, 52309), (622, 52339), (627, 52360), (687, 52432), (704, 52489), (723, 52588), (739, 52654), (761, 52744), (767, 52774), (768, 52777), (774, 52807), (782, 52852), (796, 52894), (806, 52924), (809, 52936), (812, 52951), (814, 52960),

Gene: PHTowN_51 Start: 38862, Stop: 35665, Start Num: 72
Candidate Starts for PHTowN_51:
(58, 38883), (Start: 72 @38862 has 108 MA's), (78, 38820), (Start: 88 @38766 has 7 MA's), (95, 38712), (111, 38643), (114, 38634), (116, 38625), (123, 38595), (128, 38562), (135, 38526), (141, 38484), (143, 38472), (156, 38418), (184, 38349), (189, 38310), (199, 38268), (203, 38247), (214, 38175), (222, 38133), (229, 38070), (230, 38067), (250, 37962), (253, 37953), (267, 37911), (274, 37896), (278, 37881), (306, 37755), (319, 37674), (324, 37638), (326, 37623), (327, 37620), (337, 37527), (351, 37437), (405, 37230), (412, 37197), (423, 37146), (433, 37074), (434, 37068), (442, 37038), (448, 37008), (470, 36927), (475, 36912), (496, 36798), (528, 36663), (564, 36519), (565, 36507), (566, 36495), (571, 36477), (586, 36384), (614, 36279), (628, 36222), (697, 36168), (700,

36144), (724, 36027), (767, 35856), (771, 35844), (774, 35823), (793, 35745), (796, 35739), (808, 35703), (811, 35688),

Gene: PLot_66 Start: 49805, Stop: 53005, Start Num: 72
Candidate Starts for PLot_66:
(Start: 25 @49703 has 21 MA's), (Start: 61 @49790 has 1 MA's), (Start: 72 @49805 has 108 MA's), (Start: 88 @49901 has 7 MA's), (128, 50057), (143, 50144), (144, 50147), (156, 50198), (214, 50462), (221, 50501), (232, 50573), (234, 50582), (247, 50657), (266, 50723), (269, 50729), (283, 50783), (289, 50801), (297, 50852), (298, 50855), (305, 50885), (319, 50969), (320, 50978), (324, 51005), (326, 51020), (350, 51197), (351, 51206), (376, 51311), (403, 51392), (429, 51527), (433, 51560), (434, 51566), (440, 51587), (442, 51596), (452, 51641), (471, 51710), (476, 51725), (480, 51746), (490, 51794), (501, 51857), (509, 51890), (510, 51893), (511, 51908), (521, 51944), (540, 52019), (566, 52142), (571, 52160), (587, 52238), (589, 52241), (591, 52253), (601, 52298), (610, 52319), (613, 52331), (622, 52361), (627, 52382), (687, 52454), (704, 52511), (723, 52610), (739, 52676), (761, 52766), (767, 52796), (768, 52799), (774, 52829), (782, 52874), (783, 52877), (796, 52916), (806, 52946), (809, 52958), (812, 52973), (814, 52982),

Gene: Pakusa_93 Start: 69747, Stop: 72575, Start Num: 52
Candidate Starts for Pakusa_93:
(Start: 52 @69747 has 1 MA's), (Start: 56 @69759 has 1 MA's), (Start: 59 @69762 has 9 MA's), (83, 69855), (91, 69915), (126, 70065), (127, 70068), (128, 70074), (146, 70173), (152, 70203), (153, 70206), (169, 70269), (174, 70290), (175, 70293), (185, 70320), (207, 70437), (209, 70446), (217, 70503), (219, 70512), (229, 70578), (242, 70644), (297, 70809), (302, 70827), (305, 70842), (307, 70848), (309, 70860), (316, 70887), (317, 70890), (323, 70950), (324, 70959), (325, 70962), (327, 70974), (330, 71019), (341, 71088), (345, 71112), (375, 71268), (379, 71286), (386, 71310), (389, 71328), (407, 71424), (415, 71466), (417, 71472), (426, 71508), (427, 71517), (430, 71535), (431, 71541), (433, 71565), (434, 71571), (435, 71574), (441, 71592), (442, 71595), (465, 71688), (475, 71733), (477, 71739), (481, 71763), (482, 71766), (484, 71775), (485, 71781), (487, 71793), (509, 71910), (511, 71928), (512, 71931), (515, 71940), (542, 72054), (546, 72069), (575, 72216), (578, 72228), (580, 72234), (590, 72267), (596, 72300), (599, 72318), (604, 72330), (606, 72339), (642, 72453), (651, 72465), (656, 72480), (680, 72555), (683, 72564),

Gene: ParkTD_208 Start: 113377, Stop: 116772, Start Num: 68
Candidate Starts for ParkTD_208:
(Start: 26 @113284 has 50 MA's), (Start: 28 @113290 has 6 MA's), (Start: 33 @113302 has 8 MA's), (38, 113311), (Start: 68 @113377 has 125 MA's), (83, 113452), (101, 113566), (109, 113590), (125, 113650), (145, 113761), (153, 113800), (159, 113824), (169, 113866), (196, 113965), (206, 114007), (207, 114013), (210, 114025), (218, 114088), (227, 114148), (228, 114151), (233, 114178), (240, 114220), (256, 114283), (293, 114403), (302, 114439), (306, 114457), (309, 114472), (321, 114589), (327, 114628), (342, 114748), (348, 114790), (358, 114835), (360, 114844), (370, 114895), (381, 114937), (397, 115003), (399, 115012), (400, 115015), (401, 115021), (402, 115024), (403, 115033), (404, 115039), (405, 115054), (426, 115141), (445, 115246), (453, 115300), (467, 115387), (473, 115417), (480, 115447), (486, 115480), (488, 115489), (499, 115561), (505, 115591), (533, 115708), (541, 115753), (549, 115795), (579, 115939), (595, 115999), (632, 116101), (659, 116188), (660, 116191), (666, 116209), (676, 116245), (677, 116248), (698, 116308), (703, 116326), (724, 116422), (732, 116452), (736, 116470), (744, 116500), (765, 116593), (769, 116608), (785, 116689), (787, 116695), (789, 116707),

Gene: ParvusTarda_77 Start: 51186, Stop: 54527, Start Num: 72
Candidate Starts for ParvusTarda_77:
(47, 51138), (Start: 72 @51186 has 108 MA's), (Start: 81 @51246 has 2 MA's), (Start: 88 @51282 has 7 MA's), (92, 51327), (101, 51369), (162, 51630), (190, 51732), (198, 51765), (214, 51861), (263, 52131), (264, 52140), (289, 52248), (296, 52293), (306, 52335), (326, 52467), (327, 52470), (328,

52500), (331, 52521), (342, 52590), (350, 52644), (372, 52743), (376, 52758), (429, 52974), (433, 53007), (437, 53025), (442, 53043), (452, 53088), (453, 53091), (479, 53187), (487, 53229), (490, 53241), (495, 53277), (538, 53457), (548, 53499), (553, 53535), (566, 53589), (571, 53607), (589, 53703), (591, 53715), (675, 53910), (704, 53994), (724, 54099), (728, 54114), (736, 54150), (739, 54162), (740, 54168), (741, 54171), (748, 54198), (759, 54243), (779, 54351), (795, 54396), (801, 54420), (812, 54456),

Gene: Patience_91 Start: 58279, Stop: 61512, Start Num: 72
Candidate Starts for Patience_91:
(Start: 57 @58252 has 3 MA's), (Start: 72 @58279 has 108 MA's), (Start: 88 @58375 has 7 MA's), (128, 58540), (149, 58654), (167, 58738), (186, 58789), (214, 58954), (321, 59452), (326, 59497), (329, 59536), (365, 59740), (384, 59821), (403, 59881), (411, 59932), (429, 60028), (431, 60037), (433, 60061), (434, 60067), (442, 60097), (443, 60103), (471, 60235), (472, 60238), (475, 60247), (484, 60289), (487, 60307), (512, 60439), (571, 60685), (600, 60835), (624, 60892), (639, 60934), (670, 60958), (704, 61027), (739, 61195), (761, 61285), (774, 61357), (792, 61432),

Gene: Patio_62 Start: 48881, Stop: 45567, Start Num: 72
Candidate Starts for Patio_62:
(4, 49133), (12, 49046), (16, 49019), (Start: 72 @48881 has 108 MA's), (Start: 88 @48785 has 7 MA's), (126, 48632), (128, 48623), (150, 48500), (190, 48341), (192, 48335), (215, 48203), (221, 48173), (225, 48134), (234, 48092), (248, 48011), (269, 47966), (306, 47795), (314, 47753), (324, 47675), (326, 47660), (346, 47522), (396, 47324), (406, 47267), (415, 47222), (429, 47156), (437, 47105), (442, 47087), (452, 47042), (502, 46799), (511, 46757), (512, 46754), (514, 46748), (519, 46730), (543, 46634), (548, 46616), (553, 46580), (584, 46436), (589, 46427), (594, 46403), (616, 46352), (647, 46223), (662, 46181), (677, 46133), (679, 46124), (697, 46073), (699, 46052), (706, 46031), (740, 45875), (745, 45860), (808, 45611),

Gene: Patos_84 Start: 53276, Stop: 56584, Start Num: 77
Candidate Starts for Patos_84:
(Start: 77 @53276 has 4 MA's), (Start: 81 @53303 has 2 MA's), (Start: 88 @53339 has 7 MA's), (92, 53384), (101, 53426), (162, 53687), (190, 53789), (198, 53822), (214, 53918), (263, 54188), (264, 54197), (289, 54305), (296, 54350), (306, 54392), (326, 54524), (327, 54527), (328, 54557), (331, 54578), (342, 54647), (350, 54701), (372, 54800), (376, 54815), (393, 54857), (429, 55031), (433, 55064), (437, 55082), (442, 55100), (452, 55145), (453, 55148), (479, 55244), (487, 55286), (490, 55298), (495, 55334), (538, 55514), (548, 55556), (553, 55592), (566, 55646), (571, 55664), (589, 55760), (591, 55772), (675, 55967), (704, 56051), (724, 56156), (728, 56171), (736, 56207), (739, 56219), (740, 56225), (741, 56228), (748, 56255), (759, 56300), (779, 56408), (795, 56453), (801, 56477), (812, 56513),

Gene: Patter_210 Start: 112391, Stop: 115786, Start Num: 68
Candidate Starts for Patter_210:
(Start: 26 @112298 has 50 MA's), (Start: 28 @112304 has 6 MA's), (Start: 33 @112316 has 8 MA's), (38, 112325), (Start: 68 @112391 has 125 MA's), (83, 112466), (101, 112580), (109, 112604), (125, 112664), (145, 112775), (153, 112814), (159, 112838), (169, 112880), (196, 112979), (206, 113021), (207, 113027), (210, 113039), (218, 113102), (227, 113162), (228, 113165), (233, 113192), (240, 113234), (256, 113297), (293, 113417), (302, 113453), (306, 113471), (309, 113486), (321, 113603), (327, 113642), (342, 113762), (348, 113804), (358, 113849), (360, 113858), (370, 113909), (381, 113951), (397, 114017), (399, 114026), (400, 114029), (401, 114035), (402, 114038), (403, 114047), (404, 114053), (405, 114068), (426, 114155), (445, 114260), (453, 114314), (467, 114401), (473, 114431), (480, 114461), (486, 114494), (488, 114503), (499, 114575), (505, 114605), (533, 114722), (541, 114767), (549, 114809), (579, 114953), (595, 115013), (632, 115115), (659, 115202), (660, 115205), (666, 115223), (676, 115259), (677, 115262), (698, 115322), (703, 115340), (724, 115436), (732, 115466), (736, 115484), (744, 115514), (765, 115607), (769, 115622), (785, 115703), (787,

115709), (789, 115721),

Gene: Pemberton_61 Start: 45661, Stop: 42410, Start Num: 72
Candidate Starts for Pemberton_61:
(15, 45793), (24, 45763), (29, 45751), (Start: 72 @45661 has 108 MA's), (85, 45580), (Start: 88 @45565 has 7 MA's), (92, 45520), (126, 45412), (128, 45403), (159, 45241), (160, 45238), (192, 45115), (203, 45064), (209, 45037), (215, 44983), (221, 44953), (255, 44770), (269, 44746), (292, 44638), (309, 44560), (314, 44533), (324, 44455), (326, 44440), (346, 44302), (396, 44104), (398, 44098), (403, 44071), (413, 44011), (429, 43936), (433, 43903), (442, 43867), (452, 43822), (459, 43810), (472, 43747), (502, 43582), (503, 43579), (511, 43540), (512, 43537), (514, 43531), (516, 43522), (519, 43513), (543, 43417), (548, 43399), (553, 43363), (587, 43213), (603, 43159), (647, 43063), (677, 42979), (679, 42970), (697, 42919), (714, 42829), (731, 42760), (737, 42733), (738, 42730), (778, 42547), (814, 42424),

Gene: Penelope2018_67 Start: 49737, Stop: 53039, Start Num: 25
Candidate Starts for Penelope2018_67:
(Start: 25 @49737 has 21 MA's), (Start: 61 @49824 has 1 MA's), (Start: 65 @49830 has 3 MA's), (Start: 72 @49839 has 108 MA's), (Start: 88 @49935 has 7 MA's), (128, 50091), (143, 50178), (144, 50181), (156, 50232), (214, 50496), (221, 50535), (232, 50607), (234, 50616), (247, 50691), (266, 50757), (269, 50763), (283, 50817), (289, 50835), (297, 50886), (298, 50889), (305, 50919), (319, 51003), (320, 51012), (324, 51039), (326, 51054), (350, 51231), (351, 51240), (376, 51345), (403, 51426), (413, 51486), (429, 51561), (433, 51594), (434, 51600), (440, 51621), (442, 51630), (452, 51675), (471, 51744), (476, 51759), (490, 51828), (501, 51891), (509, 51924), (510, 51927), (521, 51978), (540, 52053), (566, 52176), (571, 52194), (587, 52272), (589, 52275), (591, 52287), (601, 52332), (610, 52353), (613, 52365), (622, 52395), (627, 52416), (687, 52488), (704, 52545), (723, 52644), (739, 52710), (761, 52800), (767, 52830), (768, 52833), (774, 52863), (782, 52908), (796, 52950), (806, 52980), (809, 52992), (812, 53007), (814, 53016),

Gene: PeteyPab_45 Start: 42797, Stop: 39504, Start Num: 72
Candidate Starts for PeteyPab_45:
(Start: 72 @42797 has 108 MA's), (80, 42740), (85, 42716), (Start: 88 @42701 has 7 MA's), (89, 42692), (128, 42545), (166, 42338), (177, 42263), (182, 42239), (190, 42185), (276, 41771), (297, 41669), (322, 41534), (324, 41516), (326, 41501), (337, 41405), (384, 41186), (385, 41183), (393, 41168), (402, 41138), (405, 41108), (429, 40991), (433, 40958), (439, 40931), (445, 40907), (479, 40760), (490, 40706), (493, 40685), (510, 40610), (512, 40592), (553, 40415), (564, 40385), (567, 40358), (571, 40343), (604, 40214), (637, 40181), (667, 40094), (704, 39980), (706, 39974), (708, 39962), (741, 39812), (742, 39809), (744, 39803), (748, 39785), (749, 39776), (753, 39758), (777, 39656), (779, 39632), (789, 39596), (792, 39590),

Gene: Phabba_203 Start: 109747, Stop: 113163, Start Num: 65
Candidate Starts for Phabba_203:
(Start: 65 @109747 has 3 MA's), (94, 109909), (110, 109972), (144, 110137), (169, 110245), (199, 110365), (206, 110398), (207, 110404), (216, 110470), (218, 110479), (227, 110536), (228, 110539), (233, 110566), (243, 110623), (247, 110644), (256, 110668), (306, 110842), (309, 110857), (310, 110860), (319, 110962), (337, 111106), (342, 111133), (360, 111229), (377, 111295), (390, 111352), (399, 111397), (400, 111400), (404, 111424), (407, 111445), (426, 111529), (427, 111538), (431, 111562), (455, 111697), (483, 111844), (484, 111850), (486, 111865), (488, 111874), (492, 111898), (497, 111943), (505, 111970), (512, 112000), (534, 112087), (541, 112123), (553, 112189), (565, 112231), (566, 112243), (569, 112252), (581, 112312), (588, 112354), (595, 112390), (630, 112489), (677, 112639), (693, 112672), (718, 112792), (719, 112795), (732, 112846), (736, 112864), (746, 112900), (751, 112930), (756, 112948), (764, 112984), (769, 112999), (780, 113065), (781, 113068), (787, 113086), (789, 113098), (804, 113137), (810, 113155),

Gene: Phalaborwa_70 Start: 50156, Stop: 53653, Start Num: 25
Candidate Starts for Phalaborwa_70:
(Start: 25 @50156 has 21 MA's), (Start: 72 @50258 has 108 MA's), (73, 50267), (Start: 81 @50318 has 2 MA's), (Start: 88 @50354 has 7 MA's), (126, 50501), (128, 50510), (135, 50546), (143, 50597), (144, 50600), (156, 50651), (159, 50666), (160, 50669), (214, 50915), (221, 50954), (234, 51035), (266, 51176), (269, 51182), (283, 51236), (289, 51254), (297, 51305), (298, 51308), (305, 51338), (319, 51422), (324, 51458), (326, 51473), (350, 51650), (351, 51659), (376, 51764), (403, 51845), (413, 51905), (429, 51980), (433, 52013), (434, 52019), (440, 52040), (442, 52049), (452, 52094), (471, 52163), (476, 52178), (480, 52199), (490, 52247), (509, 52343), (510, 52346), (511, 52361), (521, 52397), (523, 52406), (540, 52472), (566, 52595), (571, 52613), (589, 52694), (591, 52706), (610, 52772), (613, 52784), (622, 52814), (627, 52835), (644, 52913), (654, 52958), (664, 52991), (675, 53036), (694, 53099), (704, 53159), (723, 53258), (739, 53324), (761, 53414), (767, 53444), (768, 53447), (774, 53477), (782, 53522), (796, 53564), (806, 53594), (809, 53606), (812, 53621), (814, 53630),

Gene: PharkleMinkus_209 Start: 112933, Stop: 116328, Start Num: 68
Candidate Starts for PharkleMinkus_209:
(Start: 26 @112840 has 50 MA's), (Start: 28 @112846 has 6 MA's), (Start: 33 @112858 has 8 MA's), (38, 112867), (Start: 68 @112933 has 125 MA's), (83, 113008), (101, 113122), (109, 113146), (125, 113206), (145, 113317), (153, 113356), (159, 113380), (169, 113422), (196, 113521), (206, 113563), (207, 113569), (210, 113581), (218, 113644), (227, 113704), (228, 113707), (233, 113734), (240, 113776), (256, 113839), (302, 113995), (306, 114013), (309, 114028), (321, 114145), (327, 114184), (342, 114304), (348, 114346), (358, 114391), (360, 114400), (370, 114451), (381, 114493), (397, 114559), (399, 114568), (400, 114571), (401, 114577), (402, 114580), (403, 114589), (404, 114595), (405, 114610), (426, 114697), (445, 114802), (453, 114856), (467, 114943), (473, 114973), (480, 115003), (486, 115036), (488, 115045), (499, 115117), (505, 115147), (533, 115264), (541, 115309), (549, 115351), (579, 115495), (595, 115555), (632, 115657), (659, 115744), (660, 115747), (666, 115765), (676, 115801), (677, 115804), (698, 115864), (703, 115882), (724, 115978), (732, 116008), (736, 116026), (744, 116056), (765, 116149), (769, 116164), (785, 116245), (787, 116251), (789, 116263),

Gene: Phettuccine_53 Start: 40232, Stop: 36753, Start Num: 69
Candidate Starts for Phettuccine_53:
(7, 40442), (Start: 69 @40232 has 55 MA's), (83, 40160), (Start: 88 @40133 has 7 MA's), (90, 40118), (124, 39956), (129, 39929), (132, 39923), (151, 39833), (155, 39818), (168, 39764), (169, 39761), (191, 39665), (209, 39587), (229, 39440), (238, 39401), (245, 39356), (249, 39335), (256, 39320), (279, 39278), (284, 39266), (297, 39200), (301, 39188), (314, 39125), (329, 38996), (330, 38987), (335, 38951), (349, 38867), (351, 38849), (368, 38792), (369, 38789), (371, 38777), (403, 38639), (404, 38633), (405, 38618), (407, 38612), (414, 38579), (431, 38501), (435, 38468), (469, 38327), (483, 38270), (487, 38246), (489, 38240), (500, 38171), (511, 38108), (531, 38042), (536, 38021), (541, 38003), (551, 37946), (552, 37937), (575, 37829), (577, 37820), (581, 37808), (583, 37787), (593, 37757), (598, 37730), (625, 37664), (627, 37655), (630, 37643), (655, 37556), (662, 37532), (677, 37484), (712, 37340), (729, 37265), (767, 37091), (775, 37055), (784, 37007), (794, 36974),

Gene: Phlegm_213 Start: 113080, Stop: 116475, Start Num: 68
Candidate Starts for Phlegm_213:
(Start: 26 @112987 has 50 MA's), (Start: 28 @112993 has 6 MA's), (Start: 33 @113005 has 8 MA's), (38, 113014), (Start: 68 @113080 has 125 MA's), (83, 113155), (101, 113269), (109, 113293), (125, 113353), (145, 113464), (153, 113503), (159, 113527), (169, 113569), (196, 113668), (206, 113710), (207, 113716), (210, 113728), (218, 113791), (227, 113851), (228, 113854), (233, 113881), (240, 113923), (256, 113986), (302, 114142), (306, 114160), (309, 114175), (321, 114292), (327, 114331), (342, 114451), (348, 114493), (358, 114538), (360, 114547), (370, 114598), (381, 114640), (397, 114706), (399, 114715), (400, 114718), (401, 114724), (402, 114727), (403, 114736), (404, 114742),

(405, 114757), (426, 114844), (445, 114949), (453, 115003), (467, 115090), (473, 115120), (480, 115150), (486, 115183), (488, 115192), (499, 115264), (505, 115294), (533, 115411), (541, 115456), (549, 115498), (579, 115642), (595, 115702), (632, 115804), (659, 115891), (660, 115894), (666, 115912), (676, 115948), (677, 115951), (698, 116011), (703, 116029), (724, 116125), (732, 116155), (736, 116173), (744, 116203), (765, 116296), (769, 116311), (785, 116392), (787, 116398), (789, 116410),

Gene: Phomeo_59 Start: 48754, Stop: 45443, Start Num: 72
Candidate Starts for Phomeo_59:
(5, 48997), (Start: 72 @48754 has 108 MA's), (84, 48682), (Start: 88 @48658 has 7 MA's), (126, 48505), (128, 48496), (150, 48373), (190, 48214), (192, 48208), (197, 48184), (215, 48076), (221, 48046), (231, 47977), (269, 47839), (271, 47821), (306, 47668), (314, 47626), (324, 47548), (326, 47533), (346, 47395), (396, 47197), (405, 47143), (406, 47140), (419, 47080), (429, 47029), (442, 46960), (452, 46915), (502, 46675), (511, 46633), (512, 46630), (514, 46624), (519, 46606), (543, 46510), (553, 46456), (584, 46312), (589, 46303), (616, 46228), (636, 46153), (647, 46099), (662, 46057), (677, 46009), (699, 45928), (706, 45907), (724, 45817), (732, 45787), (737, 45763), (738, 45760), (778, 45577), (796, 45520),

Gene: Phox_210 Start: 113942, Stop: 117430, Start Num: 26
Candidate Starts for Phox_210:
(Start: 18 @113912 has 6 MA's), (Start: 26 @113942 has 50 MA's), (Start: 28 @113948 has 6 MA's), (Start: 33 @113960 has 8 MA's), (38, 113969), (Start: 68 @114035 has 125 MA's), (83, 114110), (101, 114224), (109, 114248), (125, 114308), (145, 114419), (153, 114458), (159, 114482), (169, 114524), (196, 114623), (206, 114665), (207, 114671), (210, 114683), (218, 114746), (227, 114806), (228, 114809), (233, 114836), (240, 114878), (256, 114941), (293, 115061), (302, 115097), (306, 115115), (309, 115130), (321, 115247), (327, 115286), (342, 115406), (348, 115448), (358, 115493), (360, 115502), (370, 115553), (381, 115595), (397, 115661), (399, 115670), (400, 115673), (401, 115679), (402, 115682), (403, 115691), (404, 115697), (405, 115712), (426, 115799), (445, 115904), (453, 115958), (467, 116045), (473, 116075), (480, 116105), (486, 116138), (488, 116147), (499, 116219), (505, 116249), (533, 116366), (541, 116411), (549, 116453), (579, 116597), (595, 116657), (632, 116759), (659, 116846), (660, 116849), (666, 116867), (676, 116903), (677, 116906), (698, 116966), (703, 116984), (724, 117080), (732, 117110), (736, 117128), (744, 117158), (765, 117251), (769, 117266), (785, 117347), (787, 117353), (789, 117365),

Gene: Phrappuccino_119 Start: 86091, Stop: 89597, Start Num: 46
Candidate Starts for Phrappuccino_119:
(Start: 46 @86091 has 2 MA's), (Start: 68 @86145 has 125 MA's), (83, 86217), (103, 86340), (118, 86376), (153, 86565), (154, 86568), (186, 86688), (193, 86733), (196, 86760), (206, 86802), (207, 86808), (213, 86841), (215, 86871), (228, 86937), (233, 86964), (239, 86991), (251, 87057), (256, 87066), (274, 87099), (286, 87144), (293, 87186), (307, 87243), (309, 87255), (313, 87291), (315, 87318), (319, 87360), (321, 87372), (323, 87387), (335, 87492), (348, 87573), (352, 87597), (360, 87627), (381, 87732), (399, 87807), (405, 87849), (426, 87942), (428, 87960), (430, 87969), (451, 88080), (473, 88170), (483, 88212), (496, 88290), (499, 88311), (511, 88362), (546, 88506), (565, 88611), (578, 88686), (590, 88719), (625, 88827), (685, 89046), (688, 89052), (728, 89241), (732, 89256), (750, 89334), (765, 89409), (776, 89457), (785, 89505), (787, 89511), (804, 89559),

Gene: Phreeze_76 Start: 55086, Stop: 58382, Start Num: 72
Candidate Starts for Phreeze_76:
(Start: 55 @55059 has 2 MA's), (Start: 72 @55086 has 108 MA's), (84, 55158), (Start: 88 @55182 has 7 MA's), (89, 55191), (91, 55215), (128, 55350), (145, 55443), (148, 55461), (160, 55509), (173, 55569), (214, 55761), (259, 55995), (275, 56052), (289, 56106), (295, 56151), (303, 56178), (309, 56208), (326, 56331), (329, 56370), (334, 56412), (347, 56490), (350, 56508), (353, 56526), (357, 56538), (373, 56613), (406, 56769), (423, 56853), (434, 56931), (440, 56952), (442, 56961), (443,

56967), (446, 56976), (461, 57048), (464, 57063), (471, 57102), (475, 57114), (493, 57207), (494, 57213), (503, 57261), (512, 57303), (550, 57453), (551, 57465), (571, 57549), (597, 57690), (639, 57795), (700, 57894), (703, 57903), (718, 57981), (727, 58020), (730, 58035), (741, 58083), (763, 58179), (768, 58197), (774, 58224), (783, 58272), (793, 58302), (795, 58305), (799, 58320), (809, 58350), (811, 58359), (812, 58365), (813, 58368),

Gene: Phusco_207 Start: 111912, Stop: 115307, Start Num: 68
Candidate Starts for Phusco_207:
(Start: 26 @111819 has 50 MA's), (Start: 28 @111825 has 6 MA's), (Start: 33 @111837 has 8 MA's), (38, 111846), (Start: 68 @111912 has 125 MA's), (83, 111987), (101, 112101), (109, 112125), (125, 112185), (145, 112296), (153, 112335), (159, 112359), (169, 112401), (196, 112500), (206, 112542), (207, 112548), (210, 112560), (218, 112623), (227, 112683), (228, 112686), (233, 112713), (240, 112755), (256, 112818), (302, 112974), (306, 112992), (309, 113007), (321, 113124), (327, 113163), (342, 113283), (348, 113325), (358, 113370), (360, 113379), (370, 113430), (381, 113472), (397, 113538), (399, 113547), (400, 113550), (401, 113556), (402, 113559), (403, 113568), (404, 113574), (405, 113589), (426, 113676), (445, 113781), (453, 113835), (467, 113922), (473, 113952), (480, 113982), (486, 114015), (488, 114024), (499, 114096), (505, 114126), (533, 114243), (541, 114288), (549, 114330), (579, 114474), (595, 114534), (632, 114636), (659, 114723), (660, 114726), (666, 114744), (676, 114780), (677, 114783), (698, 114843), (703, 114861), (724, 114957), (732, 114987), (736, 115005), (744, 115035), (765, 115128), (769, 115143), (785, 115224), (787, 115230), (789, 115242),

Gene: Pier_210 Start: 114837, Stop: 118307, Start Num: 33
Candidate Starts for Pier_210:
(11, 114744), (Start: 26 @114819 has 50 MA's), (Start: 28 @114825 has 6 MA's), (Start: 33 @114837 has 8 MA's), (38, 114846), (Start: 68 @114912 has 125 MA's), (83, 114987), (101, 115101), (109, 115125), (125, 115185), (145, 115296), (153, 115335), (159, 115359), (169, 115401), (196, 115500), (206, 115542), (207, 115548), (210, 115560), (218, 115623), (227, 115683), (228, 115686), (233, 115713), (240, 115755), (256, 115818), (302, 115974), (306, 115992), (309, 116007), (321, 116124), (327, 116163), (342, 116283), (348, 116325), (358, 116370), (360, 116379), (370, 116430), (381, 116472), (397, 116538), (399, 116547), (400, 116550), (401, 116556), (402, 116559), (403, 116568), (404, 116574), (405, 116589), (426, 116676), (445, 116781), (453, 116835), (467, 116922), (473, 116952), (480, 116982), (486, 117015), (488, 117024), (499, 117096), (505, 117126), (533, 117243), (541, 117288), (549, 117330), (579, 117474), (595, 117534), (632, 117636), (659, 117723), (660, 117726), (666, 117744), (676, 117780), (677, 117783), (698, 117843), (703, 117861), (724, 117957), (732, 117987), (736, 118005), (744, 118035), (765, 118128), (769, 118143), (785, 118224), (787, 118230), (789, 118242),

Gene: Pinkcreek_193 Start: 112195, Stop: 115683, Start Num: 26
Candidate Starts for Pinkcreek_193:
(Start: 26 @112195 has 50 MA's), (Start: 28 @112201 has 6 MA's), (Start: 33 @112213 has 8 MA's), (38, 112222), (Start: 68 @112288 has 125 MA's), (83, 112363), (101, 112477), (109, 112501), (125, 112561), (145, 112672), (153, 112711), (159, 112735), (169, 112777), (196, 112876), (206, 112918), (207, 112924), (210, 112936), (218, 112999), (227, 113059), (228, 113062), (233, 113089), (240, 113131), (256, 113194), (293, 113314), (302, 113350), (306, 113368), (309, 113383), (321, 113500), (327, 113539), (342, 113659), (348, 113701), (358, 113746), (360, 113755), (370, 113806), (381, 113848), (397, 113914), (399, 113923), (400, 113926), (401, 113932), (402, 113935), (403, 113944), (404, 113950), (405, 113965), (426, 114052), (445, 114157), (453, 114211), (467, 114298), (473, 114328), (480, 114358), (486, 114391), (488, 114400), (499, 114472), (505, 114502), (533, 114619), (541, 114664), (549, 114706), (579, 114850), (595, 114910), (632, 115012), (659, 115099), (660, 115102), (666, 115120), (676, 115156), (677, 115159), (698, 115219), (703, 115237), (724, 115333), (732, 115363), (736, 115381), (744, 115411), (765, 115504), (769, 115519), (785, 115600), (787, 115606), (789, 115618),

Gene: Pio_217 Start: 116011, Stop: 119499, Start Num: 26
Candidate Starts for Pio_217:
(Start: 26 @116011 has 50 MA's), (Start: 28 @116017 has 6 MA's), (Start: 33 @116029 has 8 MA's), (38, 116038), (Start: 68 @116104 has 125 MA's), (83, 116179), (101, 116293), (109, 116317), (125, 116377), (145, 116488), (153, 116527), (159, 116551), (169, 116593), (196, 116692), (206, 116734), (207, 116740), (210, 116752), (218, 116815), (227, 116875), (228, 116878), (233, 116905), (240, 116947), (256, 117010), (302, 117166), (306, 117184), (309, 117199), (321, 117316), (327, 117355), (342, 117475), (348, 117517), (358, 117562), (360, 117571), (370, 117622), (381, 117664), (397, 117730), (399, 117739), (400, 117742), (401, 117748), (402, 117751), (403, 117760), (404, 117766), (405, 117781), (426, 117868), (445, 117973), (453, 118027), (467, 118114), (473, 118144), (480, 118174), (486, 118207), (488, 118216), (499, 118288), (505, 118318), (533, 118435), (541, 118480), (549, 118522), (579, 118666), (595, 118726), (632, 118828), (659, 118915), (660, 118918), (666, 118936), (676, 118972), (677, 118975), (698, 119035), (703, 119053), (724, 119149), (732, 119179), (736, 119197), (744, 119227), (765, 119320), (769, 119335), (785, 119416), (787, 119422), (789, 119434),

Gene: Pivoine_210 Start: 113080, Stop: 116475, Start Num: 68
Candidate Starts for Pivoine_210:
(Start: 26 @112987 has 50 MA's), (Start: 28 @112993 has 6 MA's), (Start: 33 @113005 has 8 MA's), (38, 113014), (Start: 68 @113080 has 125 MA's), (83, 113155), (101, 113269), (109, 113293), (125, 113353), (145, 113464), (153, 113503), (159, 113527), (169, 113569), (196, 113668), (206, 113710), (207, 113716), (210, 113728), (218, 113791), (227, 113851), (228, 113854), (233, 113881), (240, 113923), (256, 113986), (293, 114106), (302, 114142), (306, 114160), (309, 114175), (321, 114292), (327, 114331), (342, 114451), (348, 114493), (358, 114538), (360, 114547), (370, 114598), (381, 114640), (397, 114706), (399, 114715), (400, 114718), (401, 114724), (402, 114727), (403, 114736), (404, 114742), (405, 114757), (426, 114844), (445, 114949), (453, 115003), (467, 115090), (473, 115120), (480, 115150), (486, 115183), (488, 115192), (499, 115264), (505, 115294), (533, 115411), (541, 115456), (549, 115498), (579, 115642), (595, 115702), (632, 115804), (659, 115891), (660, 115894), (666, 115912), (676, 115948), (677, 115951), (698, 116011), (703, 116029), (724, 116125), (732, 116155), (736, 116173), (744, 116203), (765, 116296), (769, 116311), (785, 116392), (787, 116398), (789, 116410),

Gene: Pleakley_67 Start: 47999, Stop: 44610, Start Num: 43
Candidate Starts for Pleakley_67:
(22, 48050), (Start: 43 @47999 has 2 MA's), (48, 47981), (58, 47954), (Start: 72 @47930 has 108 MA's), (85, 47849), (Start: 88 @47834 has 7 MA's), (94, 47783), (126, 47681), (128, 47672), (146, 47567), (150, 47549), (172, 47456), (190, 47390), (192, 47384), (195, 47372), (209, 47306), (215, 47252), (234, 47141), (238, 47120), (248, 47060), (257, 47033), (269, 47015), (293, 46898), (324, 46724), (326, 46709), (346, 46571), (363, 46478), (371, 46439), (396, 46373), (403, 46340), (406, 46316), (419, 46256), (429, 46205), (430, 46202), (431, 46196), (433, 46172), (437, 46154), (442, 46136), (452, 46091), (502, 45851), (510, 45824), (512, 45806), (514, 45800), (519, 45782), (543, 45686), (548, 45668), (551, 45644), (553, 45632), (582, 45500), (585, 45479), (589, 45473), (595, 45443), (647, 45266), (661, 45230), (677, 45179), (697, 45119), (699, 45098), (706, 45077), (745, 44903), (796, 44690), (814, 44624),

Gene: Pleione_213 Start: 113768, Stop: 117250, Start Num: 28
Candidate Starts for Pleione_213:
(Start: 26 @113762 has 50 MA's), (Start: 28 @113768 has 6 MA's), (Start: 33 @113780 has 8 MA's), (38, 113789), (Start: 68 @113855 has 125 MA's), (83, 113930), (101, 114044), (109, 114068), (125, 114128), (145, 114239), (153, 114278), (159, 114302), (169, 114344), (196, 114443), (206, 114485), (207, 114491), (210, 114503), (218, 114566), (227, 114626), (228, 114629), (233, 114656), (240, 114698), (256, 114761), (293, 114881), (302, 114917), (306, 114935), (309, 114950), (321, 115067),

(327, 115106), (342, 115226), (348, 115268), (358, 115313), (360, 115322), (370, 115373), (381, 115415), (397, 115481), (399, 115490), (400, 115493), (401, 115499), (402, 115502), (403, 115511), (404, 115517), (405, 115532), (426, 115619), (445, 115724), (453, 115778), (467, 115865), (473, 115895), (480, 115925), (486, 115958), (488, 115967), (499, 116039), (505, 116069), (533, 116186), (541, 116231), (549, 116273), (579, 116417), (595, 116477), (632, 116579), (659, 116666), (660, 116669), (666, 116687), (676, 116723), (677, 116726), (698, 116786), (703, 116804), (724, 116900), (732, 116930), (736, 116948), (744, 116978), (765, 117071), (769, 117086), (785, 117167), (787, 117173), (789, 117185),

Gene: Polyyuki_59 Start: 45773, Stop: 42357, Start Num: 72
Candidate Starts for Polyyuki_59:
(Start: 72 @45773 has 108 MA's), (85, 45692), (Start: 88 @45677 has 7 MA's), (105, 45569), (107, 45563), (128, 45515), (142, 45434), (150, 45392), (202, 45182), (205, 45167), (207, 45158), (212, 45134), (214, 45104), (221, 45065), (234, 44984), (241, 44942), (272, 44807), (297, 44693), (309, 44642), (311, 44624), (314, 44615), (324, 44537), (326, 44522), (329, 44483), (335, 44444), (350, 44351), (361, 44300), (363, 44294), (371, 44255), (404, 44150), (405, 44135), (406, 44132), (429, 44018), (430, 44015), (433, 43985), (437, 43967), (438, 43964), (439, 43958), (441, 43955), (447, 43922), (452, 43901), (490, 43733), (503, 43655), (511, 43616), (512, 43613), (514, 43607), (519, 43589), (543, 43493), (548, 43475), (553, 43439), (571, 43367), (589, 43274), (591, 43262), (609, 43199), (625, 43142), (656, 43013), (665, 42983), (681, 42923), (682, 42920), (697, 42866), (714, 42776), (722, 42740), (734, 42695), (737, 42680), (747, 42638), (758, 42593), (771, 42539), (773, 42530), (774, 42518), (776, 42512), (778, 42494), (792, 42443), (793, 42440), (808, 42398),

Gene: PotatoChip_46 Start: 42799, Stop: 39506, Start Num: 72
Candidate Starts for PotatoChip_46:
(Start: 72 @42799 has 108 MA's), (80, 42742), (85, 42718), (Start: 88 @42703 has 7 MA's), (89, 42694), (128, 42547), (166, 42340), (177, 42265), (182, 42241), (190, 42187), (276, 41773), (297, 41671), (322, 41536), (324, 41518), (326, 41503), (337, 41407), (384, 41188), (385, 41185), (393, 41170), (402, 41140), (405, 41110), (429, 40993), (433, 40960), (439, 40933), (445, 40909), (479, 40762), (490, 40708), (493, 40687), (510, 40612), (512, 40594), (553, 40417), (564, 40387), (567, 40360), (571, 40345), (604, 40216), (637, 40183), (667, 40096), (704, 39982), (706, 39976), (708, 39964), (741, 39814), (742, 39811), (744, 39805), (748, 39787), (749, 39778), (753, 39760), (777, 39658), (779, 39634), (789, 39598), (792, 39592),

Gene: Prager_67 Start: 49797, Stop: 53099, Start Num: 25
Candidate Starts for Prager_67:
(Start: 25 @49797 has 21 MA's), (Start: 61 @49884 has 1 MA's), (Start: 65 @49890 has 3 MA's), (Start: 72 @49899 has 108 MA's), (Start: 88 @49995 has 7 MA's), (128, 50151), (143, 50238), (144, 50241), (156, 50292), (214, 50556), (221, 50595), (232, 50667), (234, 50676), (247, 50751), (266, 50817), (269, 50823), (283, 50877), (289, 50895), (297, 50946), (298, 50949), (305, 50979), (319, 51063), (320, 51072), (324, 51099), (326, 51114), (350, 51291), (351, 51300), (376, 51405), (403, 51486), (413, 51546), (429, 51621), (433, 51654), (434, 51660), (440, 51681), (442, 51690), (452, 51735), (471, 51804), (476, 51819), (490, 51888), (501, 51951), (509, 51984), (510, 51987), (521, 52038), (540, 52113), (566, 52236), (571, 52254), (587, 52332), (589, 52335), (591, 52347), (601, 52392), (610, 52413), (613, 52425), (622, 52455), (627, 52476), (687, 52548), (704, 52605), (723, 52704), (739, 52770), (761, 52860), (767, 52890), (768, 52893), (774, 52923), (782, 52968), (796, 53010), (806, 53040), (809, 53052), (812, 53067), (814, 53076),

Gene: Predator_76 Start: 54791, Stop: 58105, Start Num: 72
Candidate Starts for Predator_76:
(Start: 55 @54761 has 2 MA's), (Start: 72 @54791 has 108 MA's), (84, 54863), (85, 54872), (Start: 88 @54887 has 7 MA's), (89, 54896), (90, 54902), (91, 54920), (128, 55055), (135, 55091), (144, 55145), (160, 55214), (184, 55292), (214, 55466), (223, 55514), (262, 55718), (275, 55790), (276, 55793),

(295, 55889), (297, 55895), (303, 55916), (305, 55928), (306, 55931), (309, 55946), (321, 56024), (326, 56069), (329, 56108), (336, 56156), (338, 56168), (346, 56213), (349, 56237), (350, 56246), (353, 56264), (373, 56351), (380, 56381), (395, 56414), (406, 56477), (423, 56561), (429, 56600), (434, 56639), (440, 56660), (442, 56669), (443, 56675), (446, 56684), (447, 56693), (476, 56825), (510, 56993), (512, 57011), (515, 57020), (523, 57053), (551, 57173), (571, 57257), (611, 57437), (674, 57566), (703, 57626), (704, 57629), (705, 57632), (718, 57704), (730, 57758), (741, 57806), (768, 57920), (774, 57947), (783, 57995), (792, 58022), (799, 58043), (808, 58067),

Gene: Primadonna_204 Start: 112741, Stop: 116136, Start Num: 68
Candidate Starts for Primadonna_204:
(Start: 26 @112648 has 50 MA's), (Start: 28 @112654 has 6 MA's), (Start: 33 @112666 has 8 MA's), (38, 112675), (Start: 68 @112741 has 125 MA's), (83, 112816), (101, 112930), (109, 112954), (125, 113014), (145, 113125), (153, 113164), (159, 113188), (169, 113230), (196, 113329), (206, 113371), (207, 113377), (210, 113389), (218, 113452), (227, 113512), (228, 113515), (233, 113542), (240, 113584), (256, 113647), (302, 113803), (306, 113821), (309, 113836), (321, 113953), (327, 113992), (342, 114112), (348, 114154), (358, 114199), (360, 114208), (370, 114259), (381, 114301), (397, 114367), (399, 114376), (400, 114379), (401, 114385), (402, 114388), (403, 114397), (404, 114403), (405, 114418), (426, 114505), (445, 114610), (453, 114664), (467, 114751), (473, 114781), (480, 114811), (486, 114844), (488, 114853), (499, 114925), (505, 114955), (533, 115072), (541, 115117), (549, 115159), (579, 115303), (595, 115363), (632, 115465), (659, 115552), (660, 115555), (666, 115573), (676, 115609), (677, 115612), (698, 115672), (703, 115690), (724, 115786), (732, 115816), (736, 115834), (744, 115864), (765, 115957), (769, 115972), (785, 116053), (787, 116059), (789, 116071),

Gene: Puhon_211 Start: 113641, Stop: 117036, Start Num: 68
Candidate Starts for Puhon_211:
(Start: 26 @113548 has 50 MA's), (Start: 28 @113554 has 6 MA's), (Start: 33 @113566 has 8 MA's), (38, 113575), (Start: 68 @113641 has 125 MA's), (83, 113716), (101, 113830), (109, 113854), (125, 113914), (145, 114025), (153, 114064), (159, 114088), (169, 114130), (196, 114229), (206, 114271), (207, 114277), (210, 114289), (218, 114352), (227, 114412), (228, 114415), (233, 114442), (240, 114484), (256, 114547), (302, 114703), (306, 114721), (309, 114736), (321, 114853), (327, 114892), (342, 115012), (348, 115054), (358, 115099), (360, 115108), (370, 115159), (381, 115201), (397, 115267), (399, 115276), (400, 115279), (401, 115285), (402, 115288), (403, 115297), (404, 115303), (405, 115318), (426, 115405), (445, 115510), (453, 115564), (467, 115651), (473, 115681), (480, 115711), (486, 115744), (488, 115753), (499, 115825), (505, 115855), (533, 115972), (541, 116017), (549, 116059), (579, 116203), (595, 116263), (632, 116365), (659, 116452), (660, 116455), (666, 116473), (676, 116509), (677, 116512), (698, 116572), (703, 116590), (724, 116686), (732, 116716), (736, 116734), (744, 116764), (765, 116857), (769, 116872), (785, 116953), (787, 116959), (789, 116971),

Gene: Puissant_73 Start: 55227, Stop: 58568, Start Num: 55
Candidate Starts for Puissant_73:
(Start: 55 @55227 has 2 MA's), (Start: 72 @55254 has 108 MA's), (84, 55326), (Start: 88 @55350 has 7 MA's), (91, 55383), (128, 55518), (145, 55611), (160, 55677), (173, 55737), (189, 55794), (214, 55929), (248, 56130), (259, 56163), (275, 56220), (295, 56319), (303, 56346), (309, 56376), (317, 56406), (326, 56499), (329, 56538), (334, 56580), (350, 56676), (353, 56694), (372, 56775), (404, 56937), (406, 56955), (423, 57039), (428, 57072), (429, 57078), (435, 57120), (442, 57147), (443, 57153), (446, 57162), (449, 57192), (461, 57234), (464, 57249), (471, 57288), (475, 57300), (493, 57393), (494, 57399), (503, 57447), (512, 57489), (550, 57639), (551, 57651), (571, 57735), (586, 57828), (597, 57876), (602, 57897), (703, 58089), (718, 58167), (730, 58221), (733, 58233), (766, 58377), (768, 58383), (774, 58410), (780, 58449), (793, 58488), (795, 58491), (799, 58506), (812, 58551),

Gene: Pupper_153 Start: 106237, Stop: 109692, Start Num: 68
Candidate Starts for Pupper_153:
(Start: 68 @106237 has 125 MA's), (83, 106312), (125, 106510), (133, 106546), (144, 106618), (148, 106639), (179, 106759), (186, 106783), (188, 106807), (193, 106828), (196, 106855), (206, 106897), (215, 106966), (218, 106978), (227, 107035), (228, 107038), (233, 107065), (256, 107167), (309, 107356), (310, 107359), (313, 107392), (354, 107710), (358, 107725), (359, 107728), (405, 107935), (406, 107938), (407, 107941), (408, 107950), (413, 107968), (426, 108031), (427, 108040), (436, 108103), (454, 108193), (473, 108304), (497, 108442), (499, 108445), (511, 108496), (512, 108499), (534, 108586), (566, 108757), (627, 108979), (690, 109180), (717, 109294), (718, 109303), (724, 109327), (731, 109354), (732, 109357), (736, 109375), (744, 109405), (748, 109423), (754, 109453), (755, 109456), (764, 109495), (765, 109498), (802, 109648),

Gene: Pupusa_213 Start: 114410, Stop: 117805, Start Num: 68
Candidate Starts for Pupusa_213:
(Start: 18 @114287 has 6 MA's), (Start: 26 @114317 has 50 MA's), (Start: 28 @114323 has 6 MA's), (Start: 33 @114335 has 8 MA's), (38, 114344), (Start: 68 @114410 has 125 MA's), (83, 114485), (101, 114599), (109, 114623), (125, 114683), (145, 114794), (153, 114833), (159, 114857), (169, 114899), (196, 114998), (206, 115040), (207, 115046), (210, 115058), (218, 115121), (227, 115181), (228, 115184), (233, 115211), (240, 115253), (256, 115316), (293, 115436), (302, 115472), (306, 115490), (309, 115505), (321, 115622), (327, 115661), (342, 115781), (348, 115823), (358, 115868), (360, 115877), (370, 115928), (381, 115970), (397, 116036), (399, 116045), (400, 116048), (401, 116054), (402, 116057), (403, 116066), (404, 116072), (405, 116087), (426, 116174), (445, 116279), (453, 116333), (467, 116420), (473, 116450), (480, 116480), (486, 116513), (488, 116522), (499, 116594), (505, 116624), (533, 116741), (541, 116786), (549, 116828), (579, 116972), (595, 117032), (632, 117134), (659, 117221), (660, 117224), (666, 117242), (676, 117278), (677, 117281), (698, 117341), (703, 117359), (724, 117455), (732, 117485), (736, 117503), (744, 117533), (765, 117626), (769, 117641), (785, 117722), (787, 117728), (789, 117740),

Gene: PurduePete_209 Start: 114083, Stop: 117478, Start Num: 68
Candidate Starts for PurduePete_209:
(Start: 26 @113990 has 50 MA's), (Start: 28 @113996 has 6 MA's), (Start: 33 @114008 has 8 MA's), (38, 114017), (Start: 68 @114083 has 125 MA's), (83, 114158), (101, 114272), (109, 114296), (125, 114356), (145, 114467), (153, 114506), (159, 114530), (169, 114572), (196, 114671), (206, 114713), (207, 114719), (210, 114731), (218, 114794), (227, 114854), (228, 114857), (233, 114884), (240, 114926), (256, 114989), (293, 115109), (302, 115145), (306, 115163), (309, 115178), (321, 115295), (327, 115334), (342, 115454), (348, 115496), (358, 115541), (360, 115550), (370, 115601), (381, 115643), (397, 115709), (399, 115718), (400, 115721), (401, 115727), (402, 115730), (403, 115739), (404, 115745), (405, 115760), (426, 115847), (445, 115952), (453, 116006), (467, 116093), (473, 116123), (480, 116153), (486, 116186), (488, 116195), (499, 116267), (505, 116297), (533, 116414), (541, 116459), (549, 116501), (579, 116645), (595, 116705), (632, 116807), (659, 116894), (660, 116897), (666, 116915), (676, 116951), (677, 116954), (698, 117014), (703, 117032), (724, 117128), (732, 117158), (736, 117176), (744, 117206), (765, 117299), (769, 117314), (785, 117395), (787, 117401), (789, 117413),

Gene: Pywacket_76 Start: 52328, Stop: 55669, Start Num: 72
Candidate Starts for Pywacket_76:
(48, 52286), (Start: 72 @52328 has 108 MA's), (Start: 81 @52388 has 2 MA's), (Start: 88 @52424 has 7 MA's), (92, 52469), (101, 52511), (162, 52772), (190, 52874), (198, 52907), (214, 53003), (263, 53273), (264, 53282), (289, 53390), (296, 53435), (306, 53477), (326, 53609), (327, 53612), (328, 53642), (331, 53663), (342, 53732), (350, 53786), (372, 53885), (376, 53900), (429, 54116), (433, 54149), (437, 54167), (442, 54185), (452, 54230), (453, 54233), (479, 54329), (487, 54371), (490, 54383), (495, 54419), (538, 54599), (548, 54641), (553, 54677), (566, 54731), (571, 54749), (589, 54845), (591, 54857), (675, 55052), (704, 55136), (720, 55217), (724, 55241), (728, 55256), (736,

55292), (739, 55304), (740, 55310), (741, 55313), (748, 55340), (759, 55385), (779, 55493), (795, 55538), (801, 55562), (812, 55598),

Gene: QBert_201 Start: 112436, Stop: 115831, Start Num: 68
Candidate Starts for QBert_201:
(Start: 18 @112313 has 6 MA's), (Start: 26 @112343 has 50 MA's), (Start: 28 @112349 has 6 MA's), (Start: 33 @112361 has 8 MA's), (38, 112370), (Start: 68 @112436 has 125 MA's), (83, 112511), (101, 112625), (109, 112649), (125, 112709), (145, 112820), (153, 112859), (159, 112883), (169, 112925), (196, 113024), (206, 113066), (207, 113072), (210, 113084), (218, 113147), (227, 113207), (228, 113210), (233, 113237), (240, 113279), (256, 113342), (293, 113462), (302, 113498), (306, 113516), (309, 113531), (321, 113648), (327, 113687), (342, 113807), (348, 113849), (358, 113894), (360, 113903), (370, 113954), (381, 113996), (397, 114062), (399, 114071), (400, 114074), (401, 114080), (402, 114083), (403, 114092), (404, 114098), (405, 114113), (426, 114200), (445, 114305), (453, 114359), (467, 114446), (473, 114476), (480, 114506), (486, 114539), (488, 114548), (499, 114620), (505, 114650), (533, 114767), (541, 114812), (549, 114854), (579, 114998), (595, 115058), (632, 115160), (659, 115247), (660, 115250), (666, 115268), (676, 115304), (677, 115307), (698, 115367), (703, 115385), (724, 115481), (732, 115511), (736, 115529), (744, 115559), (765, 115652), (769, 115667), (785, 115748), (787, 115754), (789, 115766),

Gene: Quasimodo_211 Start: 113706, Stop: 117101, Start Num: 68
Candidate Starts for Quasimodo_211:
(Start: 26 @113613 has 50 MA's), (Start: 28 @113619 has 6 MA's), (Start: 33 @113631 has 8 MA's), (38, 113640), (Start: 68 @113706 has 125 MA's), (83, 113781), (101, 113895), (109, 113919), (125, 113979), (145, 114090), (153, 114129), (159, 114153), (169, 114195), (196, 114294), (206, 114336), (207, 114342), (210, 114354), (218, 114417), (227, 114477), (228, 114480), (233, 114507), (240, 114549), (256, 114612), (293, 114732), (302, 114768), (306, 114786), (309, 114801), (321, 114918), (327, 114957), (342, 115077), (348, 115119), (358, 115164), (360, 115173), (370, 115224), (381, 115266), (397, 115332), (399, 115341), (400, 115344), (401, 115350), (402, 115353), (403, 115362), (404, 115368), (405, 115383), (426, 115470), (445, 115575), (453, 115629), (467, 115716), (473, 115746), (480, 115776), (486, 115809), (488, 115818), (499, 115890), (505, 115920), (533, 116037), (541, 116082), (549, 116124), (579, 116268), (595, 116328), (632, 116430), (659, 116517), (660, 116520), (666, 116538), (676, 116574), (677, 116577), (698, 116637), (703, 116655), (724, 116751), (732, 116781), (736, 116799), (744, 116829), (765, 116922), (769, 116937), (785, 117018), (787, 117024), (789, 117036),

Gene: Rabinovish_202 Start: 113888, Stop: 117376, Start Num: 26
Candidate Starts for Rabinovish_202:
(Start: 26 @113888 has 50 MA's), (Start: 28 @113894 has 6 MA's), (Start: 33 @113906 has 8 MA's), (38, 113915), (Start: 68 @113981 has 125 MA's), (83, 114056), (101, 114170), (109, 114194), (125, 114254), (145, 114365), (153, 114404), (159, 114428), (169, 114470), (196, 114569), (206, 114611), (207, 114617), (210, 114629), (218, 114692), (227, 114752), (228, 114755), (233, 114782), (240, 114824), (256, 114887), (293, 115007), (302, 115043), (306, 115061), (309, 115076), (321, 115193), (327, 115232), (342, 115352), (348, 115394), (358, 115439), (360, 115448), (370, 115499), (381, 115541), (397, 115607), (399, 115616), (400, 115619), (401, 115625), (402, 115628), (403, 115637), (404, 115643), (405, 115658), (426, 115745), (445, 115850), (453, 115904), (467, 115991), (473, 116021), (480, 116051), (486, 116084), (488, 116093), (499, 116165), (505, 116195), (533, 116312), (541, 116357), (549, 116399), (579, 116543), (595, 116603), (632, 116705), (659, 116792), (660, 116795), (666, 116813), (676, 116849), (677, 116852), (698, 116912), (703, 116930), (724, 117026), (732, 117056), (736, 117074), (744, 117104), (765, 117197), (769, 117212), (785, 117293), (787, 117299), (789, 117311),

Gene: Rahel_210 Start: 112815, Stop: 116210, Start Num: 68
Candidate Starts for Rahel_210:

(Start: 26 @112722 has 50 MA's), (Start: 28 @112728 has 6 MA's), (Start: 33 @112740 has 8 MA's), (38, 112749), (Start: 68 @112815 has 125 MA's), (83, 112890), (101, 113004), (109, 113028), (125, 113088), (145, 113199), (153, 113238), (159, 113262), (169, 113304), (196, 113403), (206, 113445), (207, 113451), (210, 113463), (218, 113526), (227, 113586), (228, 113589), (233, 113616), (240, 113658), (256, 113721), (302, 113877), (306, 113895), (309, 113910), (321, 114027), (327, 114066), (342, 114186), (348, 114228), (358, 114273), (360, 114282), (370, 114333), (381, 114375), (397, 114441), (399, 114450), (400, 114453), (401, 114459), (402, 114462), (403, 114471), (404, 114477), (405, 114492), (426, 114579), (445, 114684), (453, 114738), (467, 114825), (473, 114855), (480, 114885), (486, 114918), (488, 114927), (499, 114999), (505, 115029), (533, 115146), (541, 115191), (549, 115233), (579, 115377), (595, 115437), (632, 115539), (659, 115626), (660, 115629), (666, 115647), (676, 115683), (677, 115686), (698, 115746), (703, 115764), (724, 115860), (732, 115890), (736, 115908), (744, 115938), (765, 116031), (769, 116046), (785, 116127), (787, 116133), (789, 116145),

Gene: Rana_55 Start: 41495, Stop: 38013, Start Num: 70
Candidate Starts for Rana_55:
(49, 41543), (53, 41534), (Start: 70 @41495 has 4 MA's), (Start: 81 @41432 has 2 MA's), (83, 41423), (90, 41381), (102, 41306), (105, 41288), (124, 41219), (138, 41150), (151, 41096), (169, 41024), (180, 40988), (191, 40928), (209, 40850), (229, 40703), (238, 40664), (242, 40637), (245, 40619), (249, 40598), (256, 40583), (297, 40463), (301, 40451), (328, 40265), (329, 40259), (335, 40214), (349, 40130), (351, 40112), (368, 40055), (369, 40052), (371, 40040), (403, 39902), (404, 39896), (405, 39881), (407, 39875), (414, 39842), (431, 39764), (435, 39731), (465, 39614), (469, 39590), (487, 39509), (489, 39503), (500, 39434), (511, 39371), (517, 39350), (531, 39305), (541, 39266), (551, 39209), (552, 39200), (575, 39092), (581, 39071), (583, 39050), (593, 39020), (598, 38993), (625, 38927), (627, 38918), (630, 38906), (655, 38819), (662, 38795), (693, 38699), (712, 38603), (731, 38519), (738, 38492), (767, 38354), (770, 38345), (775, 38318), (784, 38270), (786, 38264), (791, 38243), (794, 38237), (817, 38132), (818, 38105), (819, 38093),

Gene: Ranch_80 Start: 51036, Stop: 54344, Start Num: 77
Candidate Starts for Ranch_80:
(Start: 77 @51036 has 4 MA's), (Start: 81 @51063 has 2 MA's), (Start: 88 @51099 has 7 MA's), (92, 51144), (101, 51186), (162, 51447), (190, 51549), (198, 51582), (214, 51678), (263, 51948), (264, 51957), (289, 52065), (296, 52110), (306, 52152), (326, 52284), (327, 52287), (328, 52317), (331, 52338), (342, 52407), (350, 52461), (372, 52560), (376, 52575), (393, 52617), (429, 52791), (433, 52824), (437, 52842), (442, 52860), (452, 52905), (453, 52908), (479, 53004), (487, 53046), (490, 53058), (495, 53094), (538, 53274), (548, 53316), (553, 53352), (566, 53406), (571, 53424), (589, 53520), (591, 53532), (675, 53727), (704, 53811), (724, 53916), (728, 53931), (732, 53946), (736, 53967), (739, 53979), (740, 53985), (741, 53988), (748, 54015), (759, 54060), (779, 54168), (795, 54213), (801, 54237), (812, 54273),

Gene: RazorC_78 Start: 50446, Stop: 53787, Start Num: 72
Candidate Starts for RazorC_78:
(Start: 72 @50446 has 108 MA's), (Start: 88 @50542 has 7 MA's), (92, 50587), (101, 50629), (162, 50890), (198, 51025), (214, 51121), (263, 51391), (264, 51400), (289, 51508), (296, 51553), (306, 51595), (318, 51673), (326, 51727), (327, 51730), (328, 51760), (342, 51850), (350, 51904), (372, 52003), (376, 52018), (393, 52060), (429, 52234), (433, 52267), (437, 52285), (442, 52303), (452, 52348), (453, 52351), (479, 52447), (487, 52489), (490, 52501), (495, 52537), (538, 52717), (548, 52759), (553, 52795), (565, 52837), (566, 52849), (571, 52867), (589, 52963), (591, 52975), (675, 53170), (704, 53254), (724, 53359), (728, 53374), (732, 53389), (736, 53410), (739, 53422), (740, 53428), (741, 53431), (748, 53458), (759, 53503), (779, 53611), (795, 53656), (801, 53680), (812, 53716),

Gene: RedBear_55 Start: 42740, Stop: 39261, Start Num: 69

Candidate Starts for RedBear_55:
(Start: 42 @42806 has 1 MA's), (Start: 69 @42740 has 55 MA's), (Start: 81 @42677 has 2 MA's), (83, 42668), (85, 42656), (90, 42626), (105, 42533), (117, 42500), (124, 42464), (138, 42395), (151, 42341), (169, 42269), (191, 42173), (209, 42095), (229, 41948), (238, 41909), (245, 41864), (249, 41843), (256, 41828), (273, 41807), (297, 41708), (301, 41696), (314, 41633), (328, 41510), (329, 41504), (335, 41459), (349, 41375), (351, 41357), (368, 41300), (369, 41297), (371, 41285), (403, 41147), (405, 41126), (407, 41120), (409, 41105), (420, 41063), (430, 41015), (431, 41009), (435, 40976), (469, 40835), (483, 40778), (487, 40754), (489, 40748), (500, 40679), (510, 40631), (511, 40616), (517, 40595), (531, 40550), (551, 40454), (552, 40445), (575, 40337), (577, 40328), (581, 40316), (583, 40295), (593, 40265), (598, 40238), (627, 40163), (630, 40151), (655, 40064), (662, 40040), (712, 39848), (738, 39737), (767, 39599), (775, 39563), (784, 39515), (786, 39509), (794, 39482), (818, 39350), (819, 39338), (820, 39332), (822, 39275),

Gene: RedRaider_67 Start: 51121, Stop: 47807, Start Num: 72
Candidate Starts for RedRaider_67:
(Start: 72 @51121 has 108 MA's), (76, 51088), (Start: 88 @51025 has 7 MA's), (126, 50872), (128, 50863), (150, 50740), (190, 50581), (192, 50575), (197, 50551), (198, 50548), (209, 50497), (215, 50443), (221, 50413), (269, 50206), (306, 50035), (314, 49993), (324, 49915), (326, 49900), (346, 49762), (353, 49711), (396, 49564), (406, 49507), (415, 49462), (429, 49396), (437, 49345), (442, 49327), (452, 49282), (502, 49039), (511, 48997), (512, 48994), (514, 48988), (519, 48970), (536, 48901), (543, 48874), (548, 48856), (553, 48820), (584, 48676), (589, 48667), (594, 48643), (616, 48592), (647, 48463), (662, 48421), (677, 48373), (679, 48364), (697, 48313), (699, 48292), (706, 48271), (745, 48100), (808, 47851),

Gene: RedWattleHog_79 Start: 71408, Stop: 74602, Start Num: 70
Candidate Starts for RedWattleHog_79:
(63, 71396), (Start: 70 @71408 has 4 MA's), (83, 71480), (92, 71552), (97, 71570), (103, 71603), (126, 71681), (141, 71768), (144, 71783), (157, 71837), (165, 71885), (179, 71924), (198, 71996), (199, 71999), (202, 72014), (209, 72047), (216, 72104), (218, 72113), (227, 72167), (228, 72170), (233, 72197), (243, 72254), (256, 72299), (274, 72332), (282, 72365), (293, 72419), (299, 72443), (306, 72473), (309, 72488), (314, 72515), (321, 72569), (332, 72665), (352, 72794), (354, 72800), (381, 72890), (390, 72926), (394, 72944), (399, 72965), (401, 72974), (469, 73301), (490, 73394), (497, 73454), (512, 73511), (514, 73517), (516, 73526), (528, 73571), (529, 73574), (539, 73622), (565, 73748), (578, 73823), (583, 73844), (592, 73871), (594, 73880), (595, 73886), (596, 73889), (605, 73925), (623, 73955), (642, 74033), (643, 74036), (658, 74072), (659, 74075), (668, 74111), (719, 74213), (725, 74237), (736, 74282), (740, 74300), (750, 74342), (765, 74405), (776, 74453), (779, 74483), (807, 74567),

Gene: Riduram_77 Start: 50021, Stop: 53362, Start Num: 72
Candidate Starts for Riduram_77:
(Start: 72 @50021 has 108 MA's), (Start: 81 @50081 has 2 MA's), (Start: 88 @50117 has 7 MA's), (92, 50162), (101, 50204), (162, 50465), (198, 50600), (214, 50696), (263, 50966), (264, 50975), (289, 51083), (296, 51128), (306, 51170), (318, 51248), (326, 51302), (327, 51305), (328, 51335), (342, 51425), (350, 51479), (372, 51578), (376, 51593), (393, 51635), (429, 51809), (433, 51842), (437, 51860), (442, 51878), (452, 51923), (453, 51926), (479, 52022), (487, 52064), (490, 52076), (495, 52112), (538, 52292), (548, 52334), (553, 52370), (565, 52412), (566, 52424), (571, 52442), (589, 52538), (591, 52550), (675, 52745), (704, 52829), (724, 52934), (728, 52949), (732, 52964), (736, 52985), (739, 52997), (740, 53003), (741, 53006), (748, 53033), (759, 53078), (768, 53120), (779, 53186), (795, 53231), (801, 53255), (812, 53291),

Gene: Rizal_201 Start: 111240, Stop: 114728, Start Num: 26
Candidate Starts for Rizal_201:

(Start: 26 @111240 has 50 MA's), (Start: 28 @111246 has 6 MA's), (Start: 33 @111258 has 8 MA's), (38, 111267), (Start: 68 @111333 has 125 MA's), (83, 111408), (101, 111522), (109, 111546), (125, 111606), (145, 111717), (153, 111756), (159, 111780), (169, 111822), (196, 111921), (206, 111963), (207, 111969), (210, 111981), (218, 112044), (227, 112104), (228, 112107), (233, 112134), (240, 112176), (256, 112239), (293, 112359), (302, 112395), (306, 112413), (309, 112428), (321, 112545), (327, 112584), (342, 112704), (348, 112746), (358, 112791), (360, 112800), (370, 112851), (381, 112893), (397, 112959), (399, 112968), (400, 112971), (401, 112977), (402, 112980), (403, 112989), (404, 112995), (405, 113010), (426, 113097), (445, 113202), (453, 113256), (467, 113343), (473, 113373), (480, 113403), (486, 113436), (488, 113445), (499, 113517), (505, 113547), (533, 113664), (541, 113709), (549, 113751), (579, 113895), (595, 113955), (632, 114057), (659, 114144), (660, 114147), (666, 114165), (676, 114201), (677, 114204), (698, 114264), (703, 114282), (724, 114378), (732, 114408), (736, 114426), (744, 114456), (765, 114549), (769, 114564), (785, 114645), (787, 114651), (789, 114663),

Gene: RoMag_204 Start: 113126, Stop: 116521, Start Num: 68
Candidate Starts for RoMag_204:
(Start: 26 @113033 has 50 MA's), (Start: 28 @113039 has 6 MA's), (Start: 33 @113051 has 8 MA's), (38, 113060), (Start: 68 @113126 has 125 MA's), (83, 113201), (101, 113315), (109, 113339), (125, 113399), (145, 113510), (153, 113549), (159, 113573), (169, 113615), (196, 113714), (206, 113756), (207, 113762), (210, 113774), (218, 113837), (227, 113897), (228, 113900), (233, 113927), (240, 113969), (256, 114032), (302, 114188), (306, 114206), (309, 114221), (321, 114338), (327, 114377), (342, 114497), (348, 114539), (358, 114584), (360, 114593), (370, 114644), (381, 114686), (397, 114752), (399, 114761), (400, 114764), (401, 114770), (402, 114773), (403, 114782), (404, 114788), (405, 114803), (426, 114890), (445, 114995), (453, 115049), (467, 115136), (473, 115166), (480, 115196), (486, 115229), (488, 115238), (499, 115310), (505, 115340), (533, 115457), (541, 115502), (549, 115544), (579, 115688), (595, 115748), (632, 115850), (659, 115937), (660, 115940), (666, 115958), (676, 115994), (677, 115997), (698, 116057), (703, 116075), (724, 116171), (732, 116201), (736, 116219), (744, 116249), (765, 116342), (769, 116357), (785, 116438), (787, 116444), (789, 116456),

Gene: Rocha_206 Start: 112569, Stop: 115964, Start Num: 68
Candidate Starts for Rocha_206:
(Start: 26 @112476 has 50 MA's), (Start: 28 @112482 has 6 MA's), (Start: 33 @112494 has 8 MA's), (38, 112503), (Start: 68 @112569 has 125 MA's), (83, 112644), (101, 112758), (109, 112782), (125, 112842), (145, 112953), (153, 112992), (159, 113016), (169, 113058), (196, 113157), (206, 113199), (207, 113205), (210, 113217), (218, 113280), (227, 113340), (228, 113343), (233, 113370), (240, 113412), (256, 113475), (293, 113595), (302, 113631), (306, 113649), (309, 113664), (321, 113781), (327, 113820), (342, 113940), (348, 113982), (358, 114027), (360, 114036), (370, 114087), (381, 114129), (397, 114195), (399, 114204), (400, 114207), (401, 114213), (402, 114216), (403, 114225), (404, 114231), (405, 114246), (426, 114333), (445, 114438), (453, 114492), (467, 114579), (473, 114609), (480, 114639), (486, 114672), (488, 114681), (499, 114753), (505, 114783), (533, 114900), (541, 114945), (549, 114987), (579, 115131), (595, 115191), (632, 115293), (659, 115380), (660, 115383), (666, 115401), (676, 115437), (677, 115440), (698, 115500), (703, 115518), (724, 115614), (732, 115644), (736, 115662), (744, 115692), (765, 115785), (769, 115800), (785, 115881), (787, 115887), (789, 115899),

Gene: Ronan_205 Start: 111518, Stop: 114913, Start Num: 68
Candidate Starts for Ronan_205:
(Start: 18 @111395 has 6 MA's), (Start: 26 @111425 has 50 MA's), (Start: 28 @111431 has 6 MA's), (Start: 33 @111443 has 8 MA's), (38, 111452), (Start: 68 @111518 has 125 MA's), (83, 111593), (101, 111707), (109, 111731), (125, 111791), (145, 111902), (153, 111941), (159, 111965), (169, 112007), (196, 112106), (206, 112148), (207, 112154), (210, 112166), (218, 112229), (227, 112289), (228, 112292), (233, 112319), (240, 112361), (256, 112424), (293, 112544), (302, 112580), (306, 112598),

(309, 112613), (321, 112730), (327, 112769), (342, 112889), (348, 112931), (358, 112976), (360, 112985), (370, 113036), (381, 113078), (397, 113144), (399, 113153), (400, 113156), (401, 113162), (402, 113165), (403, 113174), (404, 113180), (405, 113195), (426, 113282), (445, 113387), (453, 113441), (467, 113528), (473, 113558), (480, 113588), (486, 113621), (488, 113630), (499, 113702), (505, 113732), (533, 113849), (541, 113894), (549, 113936), (579, 114080), (595, 114140), (632, 114242), (659, 114329), (660, 114332), (666, 114350), (676, 114386), (677, 114389), (698, 114449), (703, 114467), (724, 114563), (732, 114593), (736, 114611), (744, 114641), (765, 114734), (769, 114749), (785, 114830), (787, 114836), (789, 114848),

Gene: Rooney_51 Start: 39051, Stop: 35854, Start Num: 72
Candidate Starts for Rooney_51:
(58, 39072), (Start: 72 @39051 has 108 MA's), (78, 39009), (Start: 88 @38955 has 7 MA's), (95, 38901), (111, 38832), (114, 38823), (116, 38814), (123, 38784), (128, 38751), (135, 38715), (141, 38673), (143, 38661), (156, 38607), (184, 38538), (189, 38499), (199, 38457), (203, 38436), (214, 38364), (222, 38322), (229, 38259), (230, 38256), (247, 38166), (250, 38151), (253, 38142), (267, 38100), (274, 38085), (278, 38070), (306, 37944), (319, 37863), (321, 37851), (324, 37827), (326, 37812), (327, 37809), (337, 37716), (349, 37644), (351, 37626), (361, 37584), (374, 37527), (382, 37500), (405, 37419), (407, 37413), (412, 37386), (423, 37335), (430, 37293), (433, 37263), (434, 37257), (442, 37227), (446, 37212), (448, 37197), (463, 37155), (464, 37152), (470, 37116), (475, 37101), (496, 36987), (564, 36708), (565, 36696), (566, 36684), (571, 36666), (586, 36573), (614, 36468), (697, 36357), (700, 36333), (722, 36231), (724, 36216), (747, 36123), (767, 36045), (771, 36033), (774, 36012), (783, 35964), (796, 35928), (808, 35892), (811, 35877),

Gene: Roots515_211 Start: 114541, Stop: 118029, Start Num: 26
Candidate Starts for Roots515_211:
(Start: 26 @114541 has 50 MA's), (Start: 28 @114547 has 6 MA's), (Start: 33 @114559 has 8 MA's), (38, 114568), (Start: 68 @114634 has 125 MA's), (83, 114709), (101, 114823), (109, 114847), (125, 114907), (145, 115018), (153, 115057), (159, 115081), (169, 115123), (196, 115222), (206, 115264), (207, 115270), (210, 115282), (218, 115345), (227, 115405), (228, 115408), (233, 115435), (240, 115477), (256, 115540), (293, 115660), (302, 115696), (306, 115714), (309, 115729), (321, 115846), (327, 115885), (342, 116005), (348, 116047), (358, 116092), (360, 116101), (370, 116152), (381, 116194), (397, 116260), (399, 116269), (400, 116272), (401, 116278), (402, 116281), (403, 116290), (404, 116296), (405, 116311), (426, 116398), (445, 116503), (453, 116557), (467, 116644), (473, 116674), (480, 116704), (486, 116737), (488, 116746), (499, 116818), (505, 116848), (533, 116965), (541, 117010), (549, 117052), (579, 117196), (595, 117256), (632, 117358), (659, 117445), (660, 117448), (666, 117466), (676, 117502), (677, 117505), (698, 117565), (703, 117583), (724, 117679), (732, 117709), (736, 117727), (744, 117757), (765, 117850), (769, 117865), (785, 117946), (787, 117952), (789, 117964),

Gene: Rota_76 Start: 52096, Stop: 55377, Start Num: 81
Candidate Starts for Rota_76:
(Start: 81 @52096 has 2 MA's), (84, 52108), (Start: 88 @52132 has 7 MA's), (92, 52177), (101, 52219), (162, 52480), (187, 52555), (209, 52666), (214, 52711), (263, 52981), (264, 52990), (289, 53098), (296, 53143), (306, 53185), (326, 53317), (327, 53320), (328, 53350), (331, 53371), (342, 53440), (350, 53494), (372, 53593), (376, 53608), (393, 53650), (429, 53824), (433, 53857), (437, 53875), (442, 53893), (452, 53938), (453, 53941), (479, 54037), (487, 54079), (490, 54091), (495, 54127), (538, 54307), (548, 54349), (553, 54385), (566, 54439), (571, 54457), (589, 54553), (591, 54565), (675, 54760), (704, 54844), (720, 54925), (724, 54949), (728, 54964), (736, 55000), (739, 55012), (740, 55018), (741, 55021), (748, 55048), (759, 55093), (779, 55201), (795, 55246), (801, 55270), (812, 55306),

Gene: Rukungu_80 Start: 52624, Stop: 55965, Start Num: 72
Candidate Starts for Rukungu_80:

(48, 52582), (Start: 72 @52624 has 108 MA's), (Start: 81 @52684 has 2 MA's), (Start: 88 @52720 has 7 MA's), (92, 52765), (101, 52807), (162, 53068), (190, 53170), (198, 53203), (214, 53299), (263, 53569), (264, 53578), (289, 53686), (296, 53731), (306, 53773), (326, 53905), (327, 53908), (328, 53938), (331, 53959), (342, 54028), (350, 54082), (372, 54181), (376, 54196), (393, 54238), (429, 54412), (433, 54445), (437, 54463), (442, 54481), (452, 54526), (453, 54529), (479, 54625), (487, 54667), (490, 54679), (495, 54715), (538, 54895), (548, 54937), (553, 54973), (566, 55027), (571, 55045), (589, 55141), (591, 55153), (675, 55348), (704, 55432), (720, 55513), (724, 55537), (728, 55552), (732, 55567), (736, 55588), (739, 55600), (740, 55606), (741, 55609), (748, 55636), (759, 55681), (779, 55789), (795, 55834), (801, 55858), (812, 55894),

Gene: Rumi_79 Start: 49989, Stop: 53330, Start Num: 72
Candidate Starts for Rumi_79:
(Start: 72 @49989 has 108 MA's), (Start: 81 @50049 has 2 MA's), (Start: 88 @50085 has 7 MA's), (92, 50130), (101, 50172), (162, 50433), (198, 50568), (214, 50664), (263, 50934), (264, 50943), (289, 51051), (296, 51096), (306, 51138), (318, 51216), (326, 51270), (327, 51273), (328, 51303), (342, 51393), (350, 51447), (372, 51546), (376, 51561), (393, 51603), (429, 51777), (433, 51810), (437, 51828), (442, 51846), (452, 51891), (453, 51894), (479, 51990), (487, 52032), (490, 52044), (495, 52080), (538, 52260), (548, 52302), (553, 52338), (565, 52380), (566, 52392), (571, 52410), (589, 52506), (591, 52518), (675, 52713), (704, 52797), (724, 52902), (728, 52917), (732, 52932), (736, 52953), (739, 52965), (740, 52971), (741, 52974), (748, 53001), (759, 53046), (779, 53154), (795, 53199), (801, 53223), (812, 53259),

Gene: Rusticus_55 Start: 40726, Stop: 37247, Start Num: 69
Candidate Starts for Rusticus_55:
(Start: 42 @40795 has 1 MA's), (Start: 69 @40726 has 55 MA's), (83, 40654), (Start: 88 @40627 has 7 MA's), (90, 40612), (124, 40450), (129, 40423), (132, 40417), (151, 40327), (155, 40312), (168, 40258), (169, 40255), (191, 40159), (209, 40081), (229, 39934), (238, 39895), (245, 39850), (249, 39829), (256, 39814), (279, 39772), (284, 39760), (297, 39694), (301, 39682), (314, 39619), (329, 39490), (330, 39481), (335, 39445), (349, 39361), (351, 39343), (368, 39286), (369, 39283), (371, 39271), (403, 39133), (404, 39127), (405, 39112), (407, 39106), (416, 39067), (431, 38995), (435, 38962), (465, 38845), (469, 38821), (483, 38764), (487, 38740), (489, 38734), (500, 38665), (511, 38602), (531, 38536), (536, 38515), (541, 38497), (551, 38440), (552, 38431), (575, 38323), (577, 38314), (581, 38302), (583, 38281), (593, 38251), (598, 38224), (625, 38158), (627, 38149), (630, 38137), (655, 38050), (662, 38026), (677, 37978), (712, 37834), (729, 37759), (767, 37585), (775, 37549), (784, 37501), (794, 37468),

Gene: SCentae_152 Start: 106391, Stop: 109846, Start Num: 68
Candidate Starts for SCentae_152:
(Start: 68 @106391 has 125 MA's), (83, 106466), (125, 106664), (133, 106700), (144, 106772), (159, 106838), (179, 106913), (186, 106937), (188, 106961), (193, 106982), (196, 107009), (206, 107051), (215, 107120), (218, 107132), (227, 107189), (228, 107192), (233, 107219), (256, 107321), (309, 107510), (310, 107513), (313, 107546), (354, 107864), (358, 107879), (359, 107882), (405, 108089), (406, 108092), (407, 108095), (408, 108104), (413, 108122), (426, 108185), (427, 108194), (436, 108257), (454, 108347), (473, 108458), (497, 108596), (499, 108599), (511, 108650), (512, 108653), (534, 108740), (566, 108911), (627, 109133), (690, 109334), (717, 109448), (718, 109457), (724, 109481), (731, 109508), (732, 109511), (736, 109529), (744, 109559), (748, 109577), (754, 109607), (755, 109610), (764, 109649), (765, 109652), (802, 109802),

Gene: SVoro_205 Start: 113335, Stop: 116823, Start Num: 26
Candidate Starts for SVoro_205:
(Start: 26 @113335 has 50 MA's), (Start: 28 @113341 has 6 MA's), (Start: 33 @113353 has 8 MA's), (38, 113362), (Start: 68 @113428 has 125 MA's), (83, 113503), (101, 113617), (109, 113641), (125, 113701), (145, 113812), (153, 113851), (159, 113875), (169, 113917), (196, 114016), (206, 114058),

(207, 114064), (210, 114076), (218, 114139), (227, 114199), (228, 114202), (233, 114229), (240, 114271), (256, 114334), (302, 114490), (306, 114508), (309, 114523), (321, 114640), (327, 114679), (342, 114799), (348, 114841), (358, 114886), (360, 114895), (370, 114946), (381, 114988), (397, 115054), (399, 115063), (400, 115066), (401, 115072), (402, 115075), (403, 115084), (404, 115090), (405, 115105), (426, 115192), (445, 115297), (453, 115351), (467, 115438), (473, 115468), (480, 115498), (486, 115531), (488, 115540), (499, 115612), (505, 115642), (533, 115759), (541, 115804), (549, 115846), (579, 115990), (595, 116050), (632, 116152), (659, 116239), (660, 116242), (666, 116260), (676, 116296), (677, 116299), (698, 116359), (703, 116377), (724, 116473), (732, 116503), (736, 116521), (744, 116551), (765, 116644), (769, 116659), (785, 116740), (787, 116746), (789, 116758),

Gene: Sadboi_79 Start: 52345, Stop: 55686, Start Num: 72
Candidate Starts for Sadboi_79:
(47, 52297), (Start: 72 @52345 has 108 MA's), (Start: 81 @52405 has 2 MA's), (Start: 88 @52441 has 7 MA's), (92, 52486), (101, 52528), (162, 52789), (190, 52891), (198, 52924), (214, 53020), (263, 53290), (264, 53299), (289, 53407), (296, 53452), (306, 53494), (326, 53626), (327, 53629), (328, 53659), (331, 53680), (342, 53749), (350, 53803), (372, 53902), (376, 53917), (393, 53959), (429, 54133), (433, 54166), (437, 54184), (442, 54202), (452, 54247), (453, 54250), (479, 54346), (487, 54388), (490, 54400), (495, 54436), (538, 54616), (548, 54658), (553, 54694), (566, 54748), (571, 54766), (589, 54862), (591, 54874), (675, 55069), (704, 55153), (720, 55234), (724, 55258), (728, 55273), (736, 55309), (739, 55321), (740, 55327), (741, 55330), (748, 55357), (759, 55402), (779, 55510), (795, 55555), (801, 55579), (812, 55615),

Gene: Salacia_209 Start: 113125, Stop: 116613, Start Num: 26
Candidate Starts for Salacia_209:
(Start: 26 @113125 has 50 MA's), (Start: 28 @113131 has 6 MA's), (Start: 33 @113143 has 8 MA's), (38, 113152), (Start: 68 @113218 has 125 MA's), (83, 113293), (101, 113407), (109, 113431), (125, 113491), (145, 113602), (153, 113641), (159, 113665), (169, 113707), (196, 113806), (206, 113848), (207, 113854), (210, 113866), (218, 113929), (227, 113989), (228, 113992), (233, 114019), (240, 114061), (256, 114124), (302, 114280), (306, 114298), (309, 114313), (321, 114430), (327, 114469), (342, 114589), (348, 114631), (358, 114676), (360, 114685), (370, 114736), (381, 114778), (397, 114844), (399, 114853), (400, 114856), (401, 114862), (402, 114865), (403, 114874), (404, 114880), (405, 114895), (426, 114982), (445, 115087), (453, 115141), (467, 115228), (473, 115258), (480, 115288), (486, 115321), (488, 115330), (499, 115402), (505, 115432), (533, 115549), (541, 115594), (549, 115636), (579, 115780), (595, 115840), (632, 115942), (659, 116029), (660, 116032), (666, 116050), (676, 116086), (677, 116089), (698, 116149), (703, 116167), (724, 116263), (732, 116293), (736, 116311), (744, 116341), (765, 116434), (769, 116449), (785, 116530), (787, 116536), (789, 116548),

Gene: Sampudon_80 Start: 52937, Stop: 56278, Start Num: 72
Candidate Starts for Sampudon_80:
(47, 52889), (Start: 72 @52937 has 108 MA's), (Start: 81 @52997 has 2 MA's), (Start: 88 @53033 has 7 MA's), (92, 53078), (101, 53120), (162, 53381), (190, 53483), (198, 53516), (214, 53612), (263, 53882), (264, 53891), (289, 53999), (296, 54044), (306, 54086), (326, 54218), (327, 54221), (328, 54251), (331, 54272), (342, 54341), (350, 54395), (372, 54494), (376, 54509), (429, 54725), (433, 54758), (437, 54776), (442, 54794), (452, 54839), (453, 54842), (479, 54938), (487, 54980), (490, 54992), (495, 55028), (517, 55127), (538, 55208), (548, 55250), (553, 55286), (566, 55340), (571, 55358), (589, 55454), (591, 55466), (675, 55661), (704, 55745), (720, 55826), (724, 55850), (728, 55865), (736, 55901), (739, 55913), (740, 55919), (741, 55922), (748, 55949), (759, 55994), (779, 56102), (795, 56147), (801, 56171), (812, 56207),

Gene: SarahRose_54 Start: 42467, Stop: 38982, Start Num: 69
Candidate Starts for SarahRose_54:

(Start: 42 @42536 has 1 MA's), (Start: 69 @42467 has 55 MA's), (Start: 81 @42404 has 2 MA's), (83, 42395), (90, 42353), (105, 42260), (124, 42191), (138, 42122), (151, 42068), (169, 41996), (180, 41960), (191, 41900), (229, 41675), (238, 41636), (242, 41609), (245, 41591), (249, 41570), (256, 41555), (279, 41513), (297, 41435), (301, 41423), (328, 41237), (329, 41231), (335, 41186), (349, 41102), (351, 41084), (368, 41027), (369, 41024), (371, 41012), (403, 40874), (404, 40868), (405, 40853), (407, 40847), (414, 40814), (431, 40736), (435, 40703), (469, 40562), (487, 40481), (489, 40475), (500, 40406), (508, 40364), (511, 40343), (517, 40322), (531, 40277), (551, 40181), (552, 40172), (554, 40166), (575, 40064), (577, 40055), (581, 40043), (583, 40022), (593, 39992), (598, 39965), (625, 39899), (627, 39890), (630, 39878), (655, 39791), (701, 39623), (712, 39575), (738, 39464), (767, 39326), (770, 39317), (775, 39290), (784, 39242), (794, 39209), (803, 39182), (818, 39077), (819, 39065),

Gene: SassyC_56 Start: 39581, Stop: 36360, Start Num: 58
Candidate Starts for SassyC_56:
(58, 39581), (Start: 72 @39560 has 108 MA's), (78, 39518), (Start: 88 @39464 has 7 MA's), (95, 39410), (96, 39407), (111, 39341), (114, 39332), (120, 39314), (123, 39293), (128, 39260), (141, 39182), (143, 39170), (156, 39116), (203, 38945), (222, 38831), (229, 38768), (230, 38765), (250, 38660), (267, 38609), (274, 38594), (278, 38579), (300, 38483), (306, 38453), (319, 38372), (324, 38336), (326, 38321), (327, 38318), (337, 38225), (350, 38144), (351, 38135), (398, 37976), (405, 37928), (412, 37895), (425, 37835), (430, 37802), (433, 37772), (434, 37766), (442, 37736), (446, 37721), (448, 37706), (463, 37664), (464, 37661), (470, 37625), (475, 37610), (496, 37496), (528, 37361), (564, 37217), (565, 37205), (566, 37193), (572, 37169), (586, 37082), (595, 37040), (606, 36998), (700, 36842), (723, 36731), (767, 36554), (771, 36542), (774, 36521), (776, 36515), (793, 36443), (796, 36437), (797, 36431), (808, 36401), (811, 36386),

Gene: Sauce_205 Start: 112032, Stop: 115427, Start Num: 68
Candidate Starts for Sauce_205:
(Start: 18 @111909 has 6 MA's), (Start: 26 @111939 has 50 MA's), (Start: 28 @111945 has 6 MA's), (Start: 33 @111957 has 8 MA's), (38, 111966), (Start: 68 @112032 has 125 MA's), (83, 112107), (101, 112221), (109, 112245), (125, 112305), (145, 112416), (153, 112455), (159, 112479), (169, 112521), (196, 112620), (206, 112662), (207, 112668), (210, 112680), (218, 112743), (227, 112803), (228, 112806), (233, 112833), (240, 112875), (256, 112938), (293, 113058), (302, 113094), (306, 113112), (309, 113127), (321, 113244), (327, 113283), (342, 113403), (348, 113445), (358, 113490), (360, 113499), (370, 113550), (381, 113592), (397, 113658), (399, 113667), (400, 113670), (401, 113676), (402, 113679), (403, 113688), (404, 113694), (405, 113709), (426, 113796), (445, 113901), (453, 113955), (467, 114042), (473, 114072), (480, 114102), (486, 114135), (488, 114144), (499, 114216), (505, 114246), (533, 114363), (541, 114408), (549, 114450), (579, 114594), (595, 114654), (632, 114756), (659, 114843), (660, 114846), (666, 114864), (676, 114900), (677, 114903), (698, 114963), (703, 114981), (724, 115077), (732, 115107), (736, 115125), (744, 115155), (765, 115248), (769, 115263), (785, 115344), (787, 115350), (789, 115362),

Gene: ScarletRaider_99 Start: 73508, Stop: 76315, Start Num: 62
Candidate Starts for ScarletRaider_99:
(Start: 62 @73508 has 3 MA's), (83, 73598), (86, 73613), (91, 73658), (106, 73736), (126, 73808), (146, 73916), (152, 73946), (153, 73949), (154, 73952), (169, 74012), (174, 74033), (185, 74063), (207, 74180), (217, 74246), (219, 74255), (220, 74258), (242, 74387), (252, 74432), (256, 74441), (297, 74552), (302, 74570), (305, 74585), (307, 74591), (309, 74603), (316, 74630), (317, 74633), (323, 74693), (324, 74702), (327, 74717), (335, 74798), (341, 74831), (379, 75029), (386, 75053), (389, 75071), (405, 75161), (406, 75164), (415, 75209), (416, 75212), (426, 75251), (427, 75260), (431, 75284), (432, 75290), (434, 75314), (435, 75317), (441, 75335), (444, 75347), (475, 75476), (477, 75482), (481, 75506), (482, 75509), (485, 75524), (487, 75536), (509, 75653), (511, 75671), (512, 75674), (515, 75683), (540, 75788), (542, 75797), (547, 75824), (575, 75956), (578, 75968), (580, 75974), (596, 76040), (599, 76058), (604, 76070), (606, 76079), (623, 76115), (642, 76193),

(656, 76220), (680, 76295), (683, 76304),

Gene: Schomber_96 Start: 69887, Stop: 72700, Start Num: 59
Candidate Starts for Schomber_96:
(Start: 52 @69872 has 1 MA's), (Start: 56 @69884 has 1 MA's), (Start: 59 @69887 has 9 MA's), (83, 69980), (91, 70040), (126, 70190), (127, 70193), (128, 70199), (146, 70298), (152, 70328), (153, 70331), (169, 70394), (174, 70415), (175, 70418), (185, 70445), (207, 70562), (209, 70571), (217, 70628), (219, 70637), (229, 70703), (242, 70769), (297, 70934), (302, 70952), (305, 70967), (307, 70973), (309, 70985), (316, 71012), (317, 71015), (323, 71075), (324, 71084), (325, 71087), (327, 71099), (330, 71144), (341, 71213), (345, 71237), (375, 71393), (379, 71411), (386, 71435), (389, 71453), (407, 71549), (415, 71591), (417, 71597), (426, 71633), (427, 71642), (430, 71660), (431, 71666), (433, 71690), (434, 71696), (435, 71699), (441, 71717), (442, 71720), (465, 71813), (475, 71858), (477, 71864), (481, 71888), (482, 71891), (484, 71900), (485, 71906), (487, 71918), (509, 72035), (511, 72053), (512, 72056), (515, 72065), (542, 72179), (546, 72194), (575, 72341), (578, 72353), (580, 72359), (590, 72392), (596, 72425), (599, 72443), (604, 72455), (606, 72464), (642, 72578), (651, 72590), (656, 72605), (680, 72680), (683, 72689),

Gene: ScoobyDoobyDoo_190 Start: 106890, Stop: 110309, Start Num: 65
Candidate Starts for ScoobyDoobyDoo_190:
(Start: 65 @106890 has 3 MA's), (94, 107052), (110, 107115), (119, 107139), (144, 107280), (169, 107388), (199, 107508), (206, 107541), (210, 107559), (218, 107622), (227, 107679), (228, 107682), (233, 107709), (243, 107766), (256, 107811), (309, 108000), (337, 108249), (360, 108372), (390, 108495), (397, 108531), (399, 108540), (404, 108567), (426, 108672), (431, 108705), (436, 108744), (449, 108810), (455, 108840), (480, 108975), (486, 109008), (488, 109017), (499, 109089), (505, 109113), (510, 109125), (512, 109143), (516, 109158), (533, 109221), (566, 109386), (588, 109497), (595, 109533), (602, 109563), (659, 109722), (677, 109782), (693, 109815), (718, 109935), (732, 109989), (736, 110007), (744, 110037), (746, 110043), (751, 110073), (765, 110130), (767, 110139), (769, 110145), (780, 110211), (783, 110220), (787, 110232), (790, 110247), (807, 110292), (810, 110301),

Gene: ScottMcG_202 Start: 111839, Stop: 115234, Start Num: 68
Candidate Starts for ScottMcG_202:
(Start: 26 @111746 has 50 MA's), (Start: 28 @111752 has 6 MA's), (Start: 33 @111764 has 8 MA's), (38, 111773), (Start: 68 @111839 has 125 MA's), (83, 111914), (101, 112028), (109, 112052), (125, 112112), (145, 112223), (153, 112262), (159, 112286), (169, 112328), (196, 112427), (206, 112469), (207, 112475), (210, 112487), (218, 112550), (227, 112610), (228, 112613), (233, 112640), (240, 112682), (256, 112745), (293, 112865), (302, 112901), (306, 112919), (309, 112934), (321, 113051), (327, 113090), (342, 113210), (348, 113252), (358, 113297), (360, 113306), (370, 113357), (381, 113399), (397, 113465), (399, 113474), (400, 113477), (401, 113483), (402, 113486), (403, 113495), (404, 113501), (405, 113516), (426, 113603), (445, 113708), (453, 113762), (467, 113849), (473, 113879), (480, 113909), (486, 113942), (488, 113951), (499, 114023), (505, 114053), (533, 114170), (541, 114215), (549, 114257), (579, 114401), (595, 114461), (632, 114563), (659, 114650), (660, 114653), (666, 114671), (676, 114707), (677, 114710), (698, 114770), (703, 114788), (724, 114884), (732, 114914), (736, 114932), (744, 114962), (765, 115055), (769, 115070), (785, 115151), (787, 115157), (789, 115169),

Gene: Scuba_67 Start: 48004, Stop: 44684, Start Num: 72
Candidate Starts for Scuba_67:
(22, 48124), (Start: 43 @48073 has 2 MA's), (48, 48055), (58, 48028), (Start: 72 @48004 has 108 MA's), (85, 47923), (Start: 88 @47908 has 7 MA's), (94, 47857), (126, 47755), (128, 47746), (146, 47641), (150, 47623), (172, 47530), (190, 47464), (192, 47458), (195, 47446), (209, 47380), (215, 47326), (248, 47134), (257, 47107), (269, 47089), (293, 46972), (324, 46798), (326, 46783), (346, 46645), (396, 46447), (403, 46414), (406, 46390), (419, 46330), (429, 46279), (430, 46276), (431,

46270), (433, 46246), (437, 46228), (442, 46210), (452, 46165), (502, 45925), (512, 45880), (514, 45874), (519, 45856), (543, 45760), (548, 45742), (551, 45718), (553, 45706), (582, 45574), (585, 45553), (589, 45547), (595, 45517), (598, 45502), (647, 45340), (661, 45304), (677, 45253), (699, 45172), (706, 45151), (745, 44977), (796, 44764), (814, 44698),

Gene: Sebata_210 Start: 114454, Stop: 117936, Start Num: 28
Candidate Starts for Sebata_210:
(Start: 26 @114448 has 50 MA's), (Start: 28 @114454 has 6 MA's), (Start: 33 @114466 has 8 MA's), (38, 114475), (Start: 68 @114541 has 125 MA's), (83, 114616), (101, 114730), (109, 114754), (125, 114814), (145, 114925), (153, 114964), (159, 114988), (169, 115030), (196, 115129), (206, 115171), (207, 115177), (210, 115189), (218, 115252), (227, 115312), (228, 115315), (233, 115342), (240, 115384), (256, 115447), (302, 115603), (306, 115621), (309, 115636), (321, 115753), (327, 115792), (342, 115912), (348, 115954), (358, 115999), (360, 116008), (370, 116059), (381, 116101), (397, 116167), (399, 116176), (400, 116179), (401, 116185), (402, 116188), (403, 116197), (404, 116203), (405, 116218), (426, 116305), (445, 116410), (453, 116464), (467, 116551), (473, 116581), (480, 116611), (486, 116644), (488, 116653), (499, 116725), (505, 116755), (533, 116872), (541, 116917), (549, 116959), (579, 117103), (595, 117163), (632, 117265), (659, 117352), (660, 117355), (666, 117373), (676, 117409), (677, 117412), (698, 117472), (703, 117490), (724, 117586), (732, 117616), (736, 117634), (744, 117664), (765, 117757), (769, 117772), (785, 117853), (787, 117859), (789, 117871),

Gene: Settecandela_119 Start: 86091, Stop: 89597, Start Num: 46
Candidate Starts for Settecandela_119:
(Start: 46 @86091 has 2 MA's), (Start: 68 @86145 has 125 MA's), (83, 86217), (103, 86340), (118, 86376), (153, 86565), (154, 86568), (186, 86688), (193, 86733), (196, 86760), (206, 86802), (207, 86808), (213, 86841), (215, 86871), (228, 86937), (233, 86964), (239, 86991), (251, 87057), (256, 87066), (274, 87099), (286, 87144), (293, 87186), (307, 87243), (309, 87255), (313, 87291), (315, 87318), (319, 87360), (321, 87372), (323, 87387), (335, 87492), (348, 87573), (352, 87597), (360, 87627), (381, 87732), (399, 87807), (405, 87849), (426, 87942), (428, 87960), (430, 87969), (451, 88080), (473, 88170), (483, 88212), (496, 88290), (499, 88311), (511, 88362), (546, 88506), (565, 88611), (578, 88686), (590, 88719), (625, 88827), (685, 89046), (688, 89052), (728, 89241), (732, 89256), (750, 89334), (765, 89409), (776, 89457), (785, 89505), (787, 89511), (804, 89559),

Gene: ShakeNBake_51 Start: 38880, Stop: 35683, Start Num: 72
Candidate Starts for ShakeNBake_51:
(Start: 33 @38961 has 8 MA's), (58, 38901), (Start: 72 @38880 has 108 MA's), (73, 38871), (78, 38838), (Start: 88 @38784 has 7 MA's), (92, 38739), (95, 38730), (100, 38706), (111, 38661), (114, 38652), (116, 38643), (123, 38613), (128, 38580), (141, 38502), (143, 38490), (156, 38436), (157, 38433), (187, 38349), (214, 38193), (222, 38151), (229, 38088), (230, 38085), (250, 37980), (253, 37971), (267, 37929), (274, 37914), (278, 37899), (306, 37773), (319, 37692), (324, 37656), (326, 37641), (327, 37638), (337, 37545), (351, 37455), (382, 37329), (405, 37248), (412, 37215), (423, 37164), (433, 37092), (434, 37086), (442, 37056), (448, 37026), (470, 36945), (475, 36930), (496, 36816), (528, 36681), (564, 36537), (565, 36525), (566, 36513), (571, 36495), (586, 36402), (614, 36297), (697, 36186), (700, 36162), (724, 36045), (767, 35874), (771, 35862), (774, 35841), (793, 35763), (796, 35757), (808, 35721), (811, 35706),

Gene: Shaqnato_200 Start: 112249, Stop: 115644, Start Num: 68
Candidate Starts for Shaqnato_200:
(Start: 18 @112126 has 6 MA's), (Start: 26 @112156 has 50 MA's), (Start: 28 @112162 has 6 MA's), (Start: 33 @112174 has 8 MA's), (38, 112183), (Start: 68 @112249 has 125 MA's), (83, 112324), (101, 112438), (109, 112462), (125, 112522), (145, 112633), (153, 112672), (159, 112696), (169, 112738), (196, 112837), (206, 112879), (207, 112885), (210, 112897), (218, 112960), (227, 113020), (228, 113023), (233, 113050), (240, 113092), (256, 113155), (293, 113275), (302, 113311), (306, 113329),

(309, 113344), (321, 113461), (327, 113500), (342, 113620), (348, 113662), (358, 113707), (360, 113716), (370, 113767), (381, 113809), (397, 113875), (399, 113884), (400, 113887), (401, 113893), (402, 113896), (403, 113905), (404, 113911), (405, 113926), (426, 114013), (445, 114118), (453, 114172), (467, 114259), (473, 114289), (480, 114319), (486, 114352), (488, 114361), (499, 114433), (505, 114463), (533, 114580), (541, 114625), (549, 114667), (579, 114811), (595, 114871), (632, 114973), (659, 115060), (660, 115063), (666, 115081), (676, 115117), (677, 115120), (698, 115180), (703, 115198), (724, 115294), (732, 115324), (736, 115342), (744, 115372), (765, 115465), (769, 115480), (785, 115561), (787, 115567), (789, 115579),

Gene: Shelob_210 Start: 114989, Stop: 118384, Start Num: 68
Candidate Starts for Shelob_210:
(Start: 26 @114896 has 50 MA's), (Start: 28 @114902 has 6 MA's), (Start: 33 @114914 has 8 MA's), (38, 114923), (Start: 68 @114989 has 125 MA's), (83, 115064), (101, 115178), (109, 115202), (125, 115262), (145, 115373), (153, 115412), (159, 115436), (169, 115478), (196, 115577), (206, 115619), (207, 115625), (210, 115637), (218, 115700), (227, 115760), (228, 115763), (233, 115790), (240, 115832), (256, 115895), (293, 116015), (302, 116051), (306, 116069), (309, 116084), (321, 116201), (327, 116240), (342, 116360), (348, 116402), (358, 116447), (360, 116456), (370, 116507), (381, 116549), (397, 116615), (399, 116624), (400, 116627), (401, 116633), (402, 116636), (403, 116645), (404, 116651), (405, 116666), (426, 116753), (445, 116858), (453, 116912), (467, 116999), (473, 117029), (480, 117059), (486, 117092), (488, 117101), (499, 117173), (505, 117203), (533, 117320), (541, 117365), (549, 117407), (579, 117551), (595, 117611), (632, 117713), (659, 117800), (660, 117803), (666, 117821), (676, 117857), (677, 117860), (698, 117920), (703, 117938), (724, 118034), (732, 118064), (736, 118082), (744, 118112), (765, 118205), (769, 118220), (785, 118301), (787, 118307), (789, 118319),

Gene: ShiaLabeouf_206 Start: 112023, Stop: 115418, Start Num: 68
Candidate Starts for ShiaLabeouf_206:
(Start: 26 @111930 has 50 MA's), (Start: 28 @111936 has 6 MA's), (Start: 33 @111948 has 8 MA's), (38, 111957), (Start: 68 @112023 has 125 MA's), (83, 112098), (101, 112212), (109, 112236), (125, 112296), (145, 112407), (153, 112446), (159, 112470), (169, 112512), (196, 112611), (206, 112653), (207, 112659), (210, 112671), (218, 112734), (227, 112794), (228, 112797), (233, 112824), (240, 112866), (256, 112929), (302, 113085), (306, 113103), (309, 113118), (321, 113235), (327, 113274), (342, 113394), (348, 113436), (358, 113481), (360, 113490), (370, 113541), (381, 113583), (397, 113649), (399, 113658), (400, 113661), (401, 113667), (402, 113670), (403, 113679), (404, 113685), (405, 113700), (426, 113787), (445, 113892), (453, 113946), (467, 114033), (473, 114063), (480, 114093), (486, 114126), (488, 114135), (499, 114207), (505, 114237), (533, 114354), (541, 114399), (549, 114441), (579, 114585), (595, 114645), (632, 114747), (659, 114834), (660, 114837), (666, 114855), (676, 114891), (677, 114894), (698, 114954), (703, 114972), (724, 115068), (732, 115098), (736, 115116), (744, 115146), (765, 115239), (769, 115254), (785, 115335), (787, 115341), (789, 115353),

Gene: Shifa_186 Start: 112600, Stop: 115995, Start Num: 68
Candidate Starts for Shifa_186:
(Start: 26 @112507 has 50 MA's), (Start: 28 @112513 has 6 MA's), (Start: 33 @112525 has 8 MA's), (38, 112534), (Start: 68 @112600 has 125 MA's), (83, 112675), (101, 112789), (109, 112813), (125, 112873), (141, 112966), (145, 112984), (153, 113023), (159, 113047), (169, 113089), (196, 113188), (206, 113230), (207, 113236), (210, 113248), (218, 113311), (227, 113371), (228, 113374), (233, 113401), (240, 113443), (256, 113506), (302, 113662), (306, 113680), (309, 113695), (321, 113812), (327, 113851), (342, 113971), (348, 114013), (358, 114058), (360, 114067), (370, 114118), (381, 114160), (397, 114226), (399, 114235), (400, 114238), (401, 114244), (402, 114247), (403, 114256), (404, 114262), (405, 114277), (426, 114364), (445, 114469), (453, 114523), (467, 114610), (473, 114640), (480, 114670), (486, 114703), (488, 114712), (499, 114784), (505, 114814), (533, 114931), (541, 114976), (549, 115018), (579, 115162), (595, 115222), (632, 115324), (659, 115411), (660,

115414), (666, 115432), (676, 115468), (677, 115471), (698, 115531), (703, 115549), (724, 115645), (732, 115675), (736, 115693), (744, 115723), (765, 115816), (769, 115831), (785, 115912), (787, 115918), (789, 115930),

Gene: Shnickers_207 Start: 112087, Stop: 115482, Start Num: 68
Candidate Starts for Shnickers_207:
(Start: 26 @111994 has 50 MA's), (Start: 28 @112000 has 6 MA's), (Start: 33 @112012 has 8 MA's), (38, 112021), (Start: 68 @112087 has 125 MA's), (83, 112162), (101, 112276), (109, 112300), (125, 112360), (145, 112471), (153, 112510), (159, 112534), (169, 112576), (196, 112675), (206, 112717), (207, 112723), (210, 112735), (218, 112798), (227, 112858), (228, 112861), (233, 112888), (240, 112930), (256, 112993), (302, 113149), (306, 113167), (309, 113182), (321, 113299), (327, 113338), (342, 113458), (348, 113500), (358, 113545), (360, 113554), (370, 113605), (381, 113647), (397, 113713), (399, 113722), (400, 113725), (401, 113731), (402, 113734), (403, 113743), (404, 113749), (405, 113764), (426, 113851), (445, 113956), (453, 114010), (467, 114097), (473, 114127), (480, 114157), (486, 114190), (488, 114199), (499, 114271), (505, 114301), (533, 114418), (541, 114463), (549, 114505), (579, 114649), (595, 114709), (632, 114811), (659, 114898), (660, 114901), (666, 114919), (676, 114955), (677, 114958), (698, 115018), (703, 115036), (724, 115132), (732, 115162), (736, 115180), (744, 115210), (765, 115303), (769, 115318), (785, 115399), (787, 115405), (789, 115417),

Gene: Shrimp_211 Start: 114051, Stop: 117539, Start Num: 26
Candidate Starts for Shrimp_211:
(Start: 26 @114051 has 50 MA's), (Start: 28 @114057 has 6 MA's), (Start: 33 @114069 has 8 MA's), (38, 114078), (Start: 68 @114144 has 125 MA's), (83, 114219), (101, 114333), (109, 114357), (125, 114417), (145, 114528), (153, 114567), (159, 114591), (169, 114633), (196, 114732), (206, 114774), (207, 114780), (210, 114792), (218, 114855), (227, 114915), (228, 114918), (233, 114945), (240, 114987), (256, 115050), (302, 115206), (306, 115224), (309, 115239), (321, 115356), (327, 115395), (342, 115515), (348, 115557), (358, 115602), (360, 115611), (370, 115662), (381, 115704), (397, 115770), (399, 115779), (400, 115782), (401, 115788), (402, 115791), (403, 115800), (404, 115806), (405, 115821), (426, 115908), (445, 116013), (453, 116067), (467, 116154), (473, 116184), (480, 116214), (486, 116247), (488, 116256), (499, 116328), (505, 116358), (533, 116475), (541, 116520), (549, 116562), (579, 116706), (595, 116766), (632, 116868), (659, 116955), (660, 116958), (666, 116976), (676, 117012), (677, 117015), (698, 117075), (703, 117093), (724, 117189), (732, 117219), (736, 117237), (744, 117267), (765, 117360), (769, 117375), (785, 117456), (787, 117462), (789, 117474),

Gene: SilverDipper_213 Start: 113543, Stop: 117031, Start Num: 26
Candidate Starts for SilverDipper_213:
(Start: 26 @113543 has 50 MA's), (Start: 28 @113549 has 6 MA's), (Start: 33 @113561 has 8 MA's), (38, 113570), (Start: 68 @113636 has 125 MA's), (83, 113711), (101, 113825), (109, 113849), (125, 113909), (145, 114020), (153, 114059), (159, 114083), (169, 114125), (196, 114224), (206, 114266), (207, 114272), (210, 114284), (218, 114347), (227, 114407), (228, 114410), (233, 114437), (240, 114479), (256, 114542), (293, 114662), (302, 114698), (306, 114716), (309, 114731), (321, 114848), (327, 114887), (342, 115007), (348, 115049), (358, 115094), (360, 115103), (370, 115154), (381, 115196), (397, 115262), (399, 115271), (400, 115274), (401, 115280), (402, 115283), (403, 115292), (404, 115298), (405, 115313), (426, 115400), (445, 115505), (453, 115559), (467, 115646), (473, 115676), (480, 115706), (486, 115739), (488, 115748), (499, 115820), (505, 115850), (533, 115967), (541, 116012), (549, 116054), (579, 116198), (595, 116258), (632, 116360), (659, 116447), (660, 116450), (666, 116468), (676, 116504), (677, 116507), (698, 116567), (703, 116585), (724, 116681), (732, 116711), (736, 116729), (744, 116759), (765, 116852), (769, 116867), (785, 116948), (787, 116954), (789, 116966),

Gene: SirHarley_69 Start: 50202, Stop: 53504, Start Num: 25

Candidate Starts for SirHarley_69:
(Start: 25 @50202 has 21 MA's), (Start: 61 @50289 has 1 MA's), (Start: 65 @50295 has 3 MA's), (Start: 72 @50304 has 108 MA's), (Start: 88 @50400 has 7 MA's), (128, 50556), (143, 50643), (144, 50646), (156, 50697), (214, 50961), (221, 51000), (232, 51072), (234, 51081), (247, 51156), (266, 51222), (269, 51228), (283, 51282), (289, 51300), (297, 51351), (298, 51354), (305, 51384), (319, 51468), (320, 51477), (324, 51504), (326, 51519), (350, 51696), (351, 51705), (376, 51810), (403, 51891), (413, 51951), (429, 52026), (433, 52059), (434, 52065), (440, 52086), (442, 52095), (452, 52140), (471, 52209), (476, 52224), (490, 52293), (509, 52389), (510, 52392), (521, 52443), (540, 52518), (566, 52641), (571, 52659), (587, 52737), (589, 52740), (591, 52752), (601, 52797), (610, 52818), (613, 52830), (622, 52860), (627, 52881), (687, 52953), (704, 53010), (723, 53109), (739, 53175), (761, 53265), (767, 53295), (768, 53298), (774, 53328), (782, 53373), (796, 53415), (806, 53445), (809, 53457), (812, 53472), (814, 53481),

Gene: SiwenD96_211 Start: 114482, Stop: 117877, Start Num: 68
Candidate Starts for SiwenD96_211:
(Start: 26 @114389 has 50 MA's), (Start: 28 @114395 has 6 MA's), (Start: 33 @114407 has 8 MA's), (38, 114416), (Start: 68 @114482 has 125 MA's), (83, 114557), (101, 114671), (109, 114695), (125, 114755), (145, 114866), (153, 114905), (159, 114929), (169, 114971), (196, 115070), (206, 115112), (207, 115118), (210, 115130), (218, 115193), (227, 115253), (228, 115256), (233, 115283), (240, 115325), (256, 115388), (293, 115508), (302, 115544), (306, 115562), (309, 115577), (321, 115694), (327, 115733), (342, 115853), (348, 115895), (358, 115940), (360, 115949), (370, 116000), (381, 116042), (397, 116108), (399, 116117), (400, 116120), (401, 116126), (402, 116129), (403, 116138), (404, 116144), (405, 116159), (426, 116246), (445, 116351), (453, 116405), (467, 116492), (473, 116522), (480, 116552), (486, 116585), (488, 116594), (499, 116666), (505, 116696), (533, 116813), (541, 116858), (549, 116900), (579, 117044), (595, 117104), (632, 117206), (659, 117293), (660, 117296), (666, 117314), (676, 117350), (677, 117353), (698, 117413), (703, 117431), (724, 117527), (732, 117557), (736, 117575), (744, 117605), (765, 117698), (769, 117713), (785, 117794), (787, 117800), (789, 117812),

Gene: Skog_212 Start: 135640, Stop: 139095, Start Num: 68
Candidate Starts for Skog_212:
(14, 135490), (20, 135517), (22, 135523), (51, 135607), (Start: 68 @135640 has 125 MA's), (83, 135715), (125, 135913), (133, 135949), (144, 136021), (148, 136042), (179, 136162), (186, 136186), (188, 136210), (193, 136231), (196, 136258), (206, 136300), (215, 136369), (218, 136381), (227, 136438), (228, 136441), (233, 136468), (239, 136495), (256, 136570), (309, 136759), (310, 136762), (313, 136795), (354, 137113), (358, 137128), (359, 137131), (394, 137275), (405, 137338), (406, 137341), (407, 137344), (408, 137353), (413, 137371), (426, 137434), (427, 137443), (436, 137506), (454, 137596), (473, 137707), (483, 137749), (497, 137845), (499, 137848), (511, 137899), (512, 137902), (534, 137989), (566, 138160), (627, 138382), (690, 138583), (718, 138706), (731, 138757), (732, 138760), (736, 138778), (744, 138808), (748, 138826), (754, 138856), (755, 138859), (764, 138898), (765, 138901),

Gene: Skysand_61 Start: 49139, Stop: 45828, Start Num: 72
Candidate Starts for Skysand_61:
(4, 49391), (12, 49304), (16, 49277), (Start: 72 @49139 has 108 MA's), (84, 49067), (Start: 88 @49043 has 7 MA's), (126, 48890), (128, 48881), (150, 48758), (190, 48599), (192, 48593), (197, 48569), (215, 48461), (221, 48431), (269, 48224), (306, 48053), (314, 48011), (324, 47933), (326, 47918), (346, 47780), (396, 47582), (406, 47525), (415, 47480), (429, 47414), (437, 47363), (442, 47345), (452, 47300), (502, 47057), (511, 47015), (512, 47012), (514, 47006), (519, 46988), (543, 46892), (548, 46874), (553, 46838), (584, 46694), (589, 46685), (594, 46661), (603, 46634), (616, 46610), (647, 46481), (677, 46394), (679, 46385), (699, 46313), (706, 46292), (745, 46121), (808, 45872), (814, 45842),

Gene: SmallFry_209 Start: 112181, Stop: 115576, Start Num: 68
Candidate Starts for SmallFry_209:
(Start: 26 @112088 has 50 MA's), (Start: 28 @112094 has 6 MA's), (Start: 33 @112106 has 8 MA's), (38, 112115), (Start: 68 @112181 has 125 MA's), (83, 112256), (101, 112370), (109, 112394), (125, 112454), (145, 112565), (153, 112604), (159, 112628), (169, 112670), (196, 112769), (206, 112811), (207, 112817), (210, 112829), (218, 112892), (227, 112952), (228, 112955), (233, 112982), (240, 113024), (256, 113087), (302, 113243), (306, 113261), (309, 113276), (321, 113393), (327, 113432), (342, 113552), (348, 113594), (358, 113639), (360, 113648), (370, 113699), (381, 113741), (397, 113807), (399, 113816), (400, 113819), (401, 113825), (402, 113828), (403, 113837), (404, 113843), (405, 113858), (426, 113945), (445, 114050), (453, 114104), (467, 114191), (473, 114221), (480, 114251), (486, 114284), (488, 114293), (499, 114365), (505, 114395), (533, 114512), (541, 114557), (549, 114599), (579, 114743), (595, 114803), (632, 114905), (659, 114992), (660, 114995), (666, 115013), (676, 115049), (677, 115052), (698, 115112), (703, 115130), (724, 115226), (732, 115256), (736, 115274), (744, 115304), (765, 115397), (769, 115412), (785, 115493), (787, 115499), (789, 115511),

Gene: Snorlax_54 Start: 42492, Stop: 39007, Start Num: 69
Candidate Starts for Snorlax_54:
(Start: 42 @42561 has 1 MA's), (Start: 69 @42492 has 55 MA's), (Start: 81 @42429 has 2 MA's), (83, 42420), (90, 42378), (105, 42285), (124, 42216), (138, 42147), (151, 42093), (169, 42021), (180, 41985), (191, 41925), (229, 41700), (238, 41661), (242, 41634), (245, 41616), (249, 41595), (256, 41580), (279, 41538), (297, 41460), (301, 41448), (328, 41262), (329, 41256), (335, 41211), (349, 41127), (351, 41109), (368, 41052), (369, 41049), (371, 41037), (403, 40899), (404, 40893), (405, 40878), (407, 40872), (414, 40839), (431, 40761), (435, 40728), (469, 40587), (487, 40506), (489, 40500), (500, 40431), (511, 40368), (517, 40347), (531, 40302), (551, 40206), (552, 40197), (554, 40191), (575, 40089), (577, 40080), (581, 40068), (583, 40047), (593, 40017), (598, 39990), (625, 39924), (627, 39915), (630, 39903), (655, 39816), (701, 39648), (712, 39600), (738, 39489), (767, 39351), (770, 39342), (775, 39315), (784, 39267), (794, 39234), (803, 39207), (818, 39102), (819, 39090),

Gene: SoilZilla_204 Start: 112736, Stop: 116131, Start Num: 68
Candidate Starts for SoilZilla_204:
(Start: 26 @112643 has 50 MA's), (Start: 28 @112649 has 6 MA's), (Start: 33 @112661 has 8 MA's), (38, 112670), (Start: 68 @112736 has 125 MA's), (83, 112811), (101, 112925), (109, 112949), (125, 113009), (145, 113120), (153, 113159), (159, 113183), (169, 113225), (196, 113324), (206, 113366), (207, 113372), (210, 113384), (218, 113447), (227, 113507), (228, 113510), (233, 113537), (240, 113579), (256, 113642), (302, 113798), (306, 113816), (309, 113831), (321, 113948), (327, 113987), (342, 114107), (348, 114149), (358, 114194), (360, 114203), (370, 114254), (381, 114296), (397, 114362), (399, 114371), (400, 114374), (401, 114380), (402, 114383), (403, 114392), (404, 114398), (405, 114413), (426, 114500), (445, 114605), (453, 114659), (467, 114746), (473, 114776), (480, 114806), (486, 114839), (488, 114848), (499, 114920), (505, 114950), (533, 115067), (541, 115112), (549, 115154), (579, 115298), (595, 115358), (632, 115460), (659, 115547), (660, 115550), (666, 115568), (676, 115604), (677, 115607), (698, 115667), (703, 115685), (724, 115781), (732, 115811), (736, 115829), (744, 115859), (765, 115952), (769, 115967), (785, 116048), (787, 116054), (789, 116066),

Gene: South40_54 Start: 42740, Stop: 39261, Start Num: 69
Candidate Starts for South40_54:
(Start: 42 @42806 has 1 MA's), (Start: 69 @42740 has 55 MA's), (Start: 81 @42677 has 2 MA's), (83, 42668), (85, 42656), (90, 42626), (105, 42533), (117, 42500), (124, 42464), (138, 42395), (151, 42341), (169, 42269), (191, 42173), (209, 42095), (229, 41948), (238, 41909), (245, 41864), (249, 41843), (256, 41828), (273, 41807), (297, 41708), (301, 41696), (314, 41633), (328, 41510), (329, 41504), (335, 41459), (349, 41375), (351, 41357), (368, 41300), (369, 41297), (371, 41285), (403,

41147), (405, 41126), (407, 41120), (409, 41105), (420, 41063), (430, 41015), (431, 41009), (435, 40976), (469, 40835), (483, 40778), (487, 40754), (489, 40748), (500, 40679), (510, 40631), (511, 40616), (517, 40595), (531, 40550), (551, 40454), (552, 40445), (575, 40337), (577, 40328), (581, 40316), (583, 40295), (593, 40265), (598, 40238), (627, 40163), (630, 40151), (655, 40064), (662, 40040), (712, 39848), (738, 39737), (767, 39599), (775, 39563), (784, 39515), (786, 39509), (794, 39482), (818, 39350), (819, 39338), (820, 39332), (822, 39275),

Gene: Spec_203 Start: 112372, Stop: 115767, Start Num: 68
Candidate Starts for Spec_203:
(Start: 26 @112279 has 50 MA's), (Start: 28 @112285 has 6 MA's), (Start: 33 @112297 has 8 MA's), (38, 112306), (Start: 68 @112372 has 125 MA's), (83, 112447), (101, 112561), (109, 112585), (125, 112645), (145, 112756), (153, 112795), (159, 112819), (169, 112861), (196, 112960), (206, 113002), (207, 113008), (210, 113020), (218, 113083), (227, 113143), (228, 113146), (233, 113173), (240, 113215), (256, 113278), (302, 113434), (306, 113452), (309, 113467), (321, 113584), (327, 113623), (342, 113743), (348, 113785), (358, 113830), (360, 113839), (370, 113890), (381, 113932), (397, 113998), (399, 114007), (400, 114010), (401, 114016), (402, 114019), (403, 114028), (404, 114034), (405, 114049), (426, 114136), (445, 114241), (453, 114295), (467, 114382), (473, 114412), (480, 114442), (486, 114475), (488, 114484), (499, 114556), (505, 114586), (533, 114703), (541, 114748), (549, 114790), (579, 114934), (595, 114994), (632, 115096), (659, 115183), (660, 115186), (666, 115204), (676, 115240), (677, 115243), (698, 115303), (703, 115321), (724, 115417), (732, 115447), (736, 115465), (744, 115495), (765, 115588), (769, 115603), (785, 115684), (787, 115690), (789, 115702),

Gene: Specks_213 Start: 114490, Stop: 117885, Start Num: 68
Candidate Starts for Specks_213:
(Start: 26 @114397 has 50 MA's), (Start: 28 @114403 has 6 MA's), (Start: 33 @114415 has 8 MA's), (38, 114424), (Start: 68 @114490 has 125 MA's), (83, 114565), (101, 114679), (109, 114703), (125, 114763), (145, 114874), (153, 114913), (159, 114937), (169, 114979), (196, 115078), (206, 115120), (207, 115126), (210, 115138), (218, 115201), (227, 115261), (228, 115264), (233, 115291), (240, 115333), (256, 115396), (302, 115552), (306, 115570), (309, 115585), (321, 115702), (327, 115741), (342, 115861), (348, 115903), (358, 115948), (360, 115957), (370, 116008), (381, 116050), (397, 116116), (399, 116125), (400, 116128), (401, 116134), (402, 116137), (403, 116146), (404, 116152), (405, 116167), (426, 116254), (445, 116359), (453, 116413), (467, 116500), (473, 116530), (480, 116560), (486, 116593), (488, 116602), (499, 116674), (505, 116704), (533, 116821), (541, 116866), (549, 116908), (579, 117052), (595, 117112), (632, 117214), (659, 117301), (660, 117304), (666, 117322), (676, 117358), (677, 117361), (698, 117421), (703, 117439), (724, 117535), (732, 117565), (736, 117583), (744, 117613), (765, 117706), (769, 117721), (785, 117802), (787, 117808), (789, 117820),

Gene: Sprinklers_207 Start: 112739, Stop: 116134, Start Num: 68
Candidate Starts for Sprinklers_207:
(Start: 18 @112616 has 6 MA's), (Start: 26 @112646 has 50 MA's), (Start: 28 @112652 has 6 MA's), (Start: 33 @112664 has 8 MA's), (38, 112673), (Start: 68 @112739 has 125 MA's), (83, 112814), (101, 112928), (109, 112952), (125, 113012), (145, 113123), (153, 113162), (159, 113186), (169, 113228), (196, 113327), (206, 113369), (207, 113375), (210, 113387), (218, 113450), (227, 113510), (228, 113513), (233, 113540), (240, 113582), (256, 113645), (293, 113765), (302, 113801), (306, 113819), (309, 113834), (321, 113951), (327, 113990), (342, 114110), (348, 114152), (358, 114197), (360, 114206), (370, 114257), (381, 114299), (397, 114365), (399, 114374), (400, 114377), (401, 114383), (402, 114386), (403, 114395), (404, 114401), (405, 114416), (426, 114503), (445, 114608), (453, 114662), (467, 114749), (473, 114779), (480, 114809), (486, 114842), (488, 114851), (499, 114923), (505, 114953), (533, 115070), (541, 115115), (549, 115157), (579, 115301), (595, 115361), (632, 115463), (659, 115550), (660, 115553), (666, 115571), (676, 115607), (677, 115610), (698, 115670), (703, 115688), (724, 115784), (732, 115814), (736, 115832), (744, 115862), (765, 115955), (769,

115970), (785, 116051), (787, 116057), (789, 116069),

Gene: Spud_203 Start: 112451, Stop: 115846, Start Num: 68
Candidate Starts for Spud_203:
(Start: 26 @112358 has 50 MA's), (Start: 28 @112364 has 6 MA's), (Start: 33 @112376 has 8 MA's), (38, 112385), (Start: 68 @112451 has 125 MA's), (83, 112526), (101, 112640), (109, 112664), (125, 112724), (145, 112835), (153, 112874), (159, 112898), (169, 112940), (196, 113039), (206, 113081), (207, 113087), (210, 113099), (218, 113162), (227, 113222), (228, 113225), (233, 113252), (240, 113294), (256, 113357), (293, 113477), (302, 113513), (306, 113531), (309, 113546), (321, 113663), (327, 113702), (342, 113822), (348, 113864), (358, 113909), (360, 113918), (370, 113969), (381, 114011), (397, 114077), (399, 114086), (400, 114089), (401, 114095), (402, 114098), (403, 114107), (404, 114113), (405, 114128), (426, 114215), (445, 114320), (453, 114374), (467, 114461), (473, 114491), (480, 114521), (486, 114554), (488, 114563), (499, 114635), (505, 114665), (533, 114782), (541, 114827), (549, 114869), (579, 115013), (595, 115073), (632, 115175), (659, 115262), (660, 115265), (666, 115283), (676, 115319), (677, 115322), (698, 115382), (703, 115400), (724, 115496), (732, 115526), (736, 115544), (744, 115574), (765, 115667), (769, 115682), (785, 115763), (787, 115769), (789, 115781),

Gene: SrishMeg2525_206 Start: 113615, Stop: 117010, Start Num: 68
Candidate Starts for SrishMeg2525_206:
(Start: 26 @113522 has 50 MA's), (Start: 28 @113528 has 6 MA's), (Start: 33 @113540 has 8 MA's), (38, 113549), (Start: 68 @113615 has 125 MA's), (83, 113690), (101, 113804), (109, 113828), (125, 113888), (145, 113999), (153, 114038), (159, 114062), (169, 114104), (196, 114203), (206, 114245), (207, 114251), (210, 114263), (218, 114326), (227, 114386), (228, 114389), (233, 114416), (240, 114458), (256, 114521), (302, 114677), (306, 114695), (309, 114710), (321, 114827), (327, 114866), (342, 114986), (348, 115028), (358, 115073), (360, 115082), (370, 115133), (381, 115175), (397, 115241), (399, 115250), (400, 115253), (401, 115259), (402, 115262), (403, 115271), (404, 115277), (405, 115292), (426, 115379), (445, 115484), (453, 115538), (467, 115625), (473, 115655), (480, 115685), (486, 115718), (488, 115727), (499, 115799), (505, 115829), (533, 115946), (541, 115991), (549, 116033), (579, 116177), (595, 116237), (632, 116339), (659, 116426), (660, 116429), (666, 116447), (676, 116483), (677, 116486), (698, 116546), (703, 116564), (724, 116660), (732, 116690), (736, 116708), (744, 116738), (765, 116831), (769, 116846), (785, 116927), (787, 116933), (789, 116945),

Gene: StarStruck_61 Start: 48867, Stop: 45550, Start Num: 72
Candidate Starts for StarStruck_61:
(Start: 72 @48867 has 108 MA's), (80, 48810), (Start: 88 @48771 has 7 MA's), (126, 48618), (128, 48609), (150, 48486), (190, 48327), (192, 48321), (197, 48297), (215, 48189), (234, 48078), (269, 47952), (306, 47781), (314, 47739), (318, 47700), (324, 47661), (326, 47646), (346, 47508), (371, 47376), (396, 47310), (406, 47253), (419, 47193), (429, 47142), (442, 47073), (452, 47028), (502, 46785), (511, 46743), (512, 46740), (514, 46734), (519, 46716), (543, 46620), (553, 46566), (589, 46413), (603, 46362), (607, 46353), (647, 46209), (671, 46131), (677, 46116), (697, 46056), (699, 46035), (706, 46014), (714, 45966), (735, 45882), (737, 45870), (738, 45867), (760, 45774), (808, 45591), (814, 45561),

Gene: StephanieG_205 Start: 113649, Stop: 117044, Start Num: 68
Candidate Starts for StephanieG_205:
(11, 113481), (Start: 26 @113556 has 50 MA's), (Start: 28 @113562 has 6 MA's), (Start: 33 @113574 has 8 MA's), (38, 113583), (Start: 68 @113649 has 125 MA's), (83, 113724), (101, 113838), (109, 113862), (125, 113922), (145, 114033), (153, 114072), (159, 114096), (169, 114138), (196, 114237), (206, 114279), (207, 114285), (210, 114297), (218, 114360), (227, 114420), (228, 114423), (233, 114450), (240, 114492), (256, 114555), (302, 114711), (306, 114729), (309, 114744), (321, 114861), (327, 114900), (342, 115020), (348, 115062), (358, 115107), (360, 115116), (370, 115167), (381,

115209), (397, 115275), (399, 115284), (400, 115287), (401, 115293), (402, 115296), (403, 115305), (404, 115311), (405, 115326), (426, 115413), (445, 115518), (453, 115572), (467, 115659), (473, 115689), (480, 115719), (486, 115752), (488, 115761), (499, 115833), (505, 115863), (533, 115980), (541, 116025), (549, 116067), (579, 116211), (595, 116271), (632, 116373), (659, 116460), (660, 116463), (666, 116481), (676, 116517), (677, 116520), (698, 116580), (703, 116598), (724, 116694), (732, 116724), (736, 116742), (744, 116772), (765, 116865), (769, 116880), (785, 116961), (787, 116967), (789, 116979),

Gene: Stickynote_45 Start: 42219, Stop: 38926, Start Num: 72
Candidate Starts for Stickynote_45:
(Start: 72 @42219 has 108 MA's), (80, 42162), (85, 42138), (Start: 88 @42123 has 7 MA's), (89, 42114), (128, 41967), (177, 41685), (182, 41661), (190, 41607), (276, 41193), (297, 41091), (324, 40938), (326, 40923), (337, 40827), (384, 40608), (385, 40605), (393, 40590), (402, 40560), (405, 40530), (429, 40413), (433, 40380), (439, 40353), (445, 40329), (479, 40182), (490, 40128), (493, 40107), (510, 40032), (512, 40014), (553, 39837), (564, 39807), (567, 39780), (571, 39765), (604, 39636), (637, 39603), (667, 39516), (704, 39402), (706, 39396), (708, 39384), (741, 39234), (742, 39231), (744, 39225), (748, 39207), (749, 39198), (753, 39180), (777, 39078), (779, 39054), (789, 39018), (792, 39012),

Gene: Stormageddon_76 Start: 71389, Stop: 74583, Start Num: 70
Candidate Starts for Stormageddon_76:
(63, 71377), (Start: 70 @71389 has 4 MA's), (83, 71461), (92, 71533), (97, 71551), (103, 71584), (126, 71662), (141, 71749), (144, 71764), (157, 71818), (165, 71866), (179, 71905), (198, 71977), (199, 71980), (202, 71995), (209, 72028), (216, 72085), (218, 72094), (227, 72148), (228, 72151), (233, 72178), (243, 72235), (256, 72280), (274, 72313), (282, 72346), (293, 72400), (299, 72424), (306, 72454), (309, 72469), (314, 72496), (321, 72550), (332, 72646), (352, 72775), (354, 72781), (381, 72871), (390, 72907), (394, 72925), (399, 72946), (401, 72955), (469, 73282), (490, 73375), (497, 73435), (512, 73492), (514, 73498), (516, 73507), (528, 73552), (529, 73555), (539, 73603), (565, 73729), (578, 73804), (583, 73825), (592, 73852), (594, 73861), (595, 73867), (596, 73870), (605, 73906), (623, 73936), (642, 74014), (643, 74017), (658, 74053), (659, 74056), (668, 74092), (719, 74194), (725, 74218), (736, 74263), (740, 74281), (750, 74323), (765, 74386), (776, 74434), (779, 74464), (807, 74548),

Gene: Stormer_78 Start: 49993, Stop: 53334, Start Num: 72
Candidate Starts for Stormer_78:
(Start: 72 @49993 has 108 MA's), (Start: 81 @50053 has 2 MA's), (Start: 88 @50089 has 7 MA's), (92, 50134), (101, 50176), (162, 50437), (198, 50572), (214, 50668), (263, 50938), (264, 50947), (289, 51055), (296, 51100), (306, 51142), (318, 51220), (326, 51274), (327, 51277), (328, 51307), (342, 51397), (350, 51451), (372, 51550), (376, 51565), (393, 51607), (429, 51781), (433, 51814), (437, 51832), (442, 51850), (452, 51895), (453, 51898), (479, 51994), (487, 52036), (490, 52048), (495, 52084), (538, 52264), (548, 52306), (553, 52342), (565, 52384), (566, 52396), (571, 52414), (589, 52510), (591, 52522), (675, 52717), (704, 52801), (724, 52906), (728, 52921), (732, 52936), (736, 52957), (739, 52969), (740, 52975), (741, 52978), (748, 53005), (759, 53050), (779, 53158), (795, 53203), (801, 53227), (812, 53263),

Gene: Stubby_193 Start: 112491, Stop: 115886, Start Num: 68
Candidate Starts for Stubby_193:
(Start: 26 @112398 has 50 MA's), (Start: 28 @112404 has 6 MA's), (Start: 33 @112416 has 8 MA's), (38, 112425), (Start: 68 @112491 has 125 MA's), (83, 112566), (101, 112680), (109, 112704), (125, 112764), (145, 112875), (153, 112914), (159, 112938), (169, 112980), (196, 113079), (206, 113121), (207, 113127), (210, 113139), (218, 113202), (227, 113262), (228, 113265), (233, 113292), (240, 113334), (256, 113397), (293, 113517), (302, 113553), (306, 113571), (309, 113586), (321, 113703), (327, 113742), (342, 113862), (348, 113904), (358, 113949), (360, 113958), (370, 114009), (381,

114051), (397, 114117), (399, 114126), (400, 114129), (401, 114135), (402, 114138), (403, 114147), (404, 114153), (405, 114168), (426, 114255), (445, 114360), (453, 114414), (467, 114501), (473, 114531), (480, 114561), (486, 114594), (488, 114603), (499, 114675), (505, 114705), (533, 114822), (541, 114867), (549, 114909), (579, 115053), (595, 115113), (632, 115215), (659, 115302), (660, 115305), (666, 115323), (676, 115359), (677, 115362), (698, 115422), (703, 115440), (724, 115536), (732, 115566), (736, 115584), (744, 115614), (765, 115707), (769, 115722), (785, 115803), (787, 115809), (789, 115821),

Gene: StubbySaigey_214 Start: 113170, Stop: 116565, Start Num: 68
Candidate Starts for StubbySaigey_214:
(Start: 26 @113077 has 50 MA's), (Start: 28 @113083 has 6 MA's), (Start: 33 @113095 has 8 MA's), (38, 113104), (Start: 68 @113170 has 125 MA's), (83, 113245), (101, 113359), (109, 113383), (125, 113443), (145, 113554), (153, 113593), (159, 113617), (169, 113659), (196, 113758), (206, 113800), (207, 113806), (210, 113818), (218, 113881), (227, 113941), (228, 113944), (233, 113971), (240, 114013), (256, 114076), (293, 114196), (302, 114232), (306, 114250), (309, 114265), (321, 114382), (327, 114421), (342, 114541), (348, 114583), (358, 114628), (360, 114637), (370, 114688), (381, 114730), (397, 114796), (399, 114805), (400, 114808), (401, 114814), (402, 114817), (403, 114826), (404, 114832), (405, 114847), (426, 114934), (445, 115039), (453, 115093), (467, 115180), (473, 115210), (480, 115240), (486, 115273), (488, 115282), (499, 115354), (505, 115384), (533, 115501), (541, 115546), (549, 115588), (579, 115732), (595, 115792), (632, 115894), (659, 115981), (660, 115984), (666, 116002), (676, 116038), (677, 116041), (698, 116101), (703, 116119), (724, 116215), (732, 116245), (736, 116263), (744, 116293), (765, 116386), (769, 116401), (785, 116482), (787, 116488), (789, 116500),

Gene: Substance289_206 Start: 112142, Stop: 115624, Start Num: 28
Candidate Starts for Substance289_206:
(Start: 26 @112136 has 50 MA's), (Start: 28 @112142 has 6 MA's), (Start: 33 @112154 has 8 MA's), (38, 112163), (Start: 68 @112229 has 125 MA's), (83, 112304), (101, 112418), (109, 112442), (125, 112502), (145, 112613), (153, 112652), (159, 112676), (169, 112718), (196, 112817), (206, 112859), (207, 112865), (210, 112877), (218, 112940), (227, 113000), (228, 113003), (233, 113030), (240, 113072), (256, 113135), (302, 113291), (306, 113309), (309, 113324), (321, 113441), (327, 113480), (342, 113600), (348, 113642), (358, 113687), (360, 113696), (370, 113747), (381, 113789), (397, 113855), (399, 113864), (400, 113867), (401, 113873), (402, 113876), (403, 113885), (404, 113891), (405, 113906), (426, 113993), (445, 114098), (453, 114152), (467, 114239), (473, 114269), (480, 114299), (486, 114332), (488, 114341), (499, 114413), (505, 114443), (533, 114560), (541, 114605), (549, 114647), (579, 114791), (595, 114851), (632, 114953), (659, 115040), (660, 115043), (666, 115061), (676, 115097), (677, 115100), (698, 115160), (703, 115178), (724, 115274), (732, 115304), (736, 115322), (744, 115352), (765, 115445), (769, 115460), (785, 115541), (787, 115547), (789, 115559),

Gene: Sujidade_55 Start: 42046, Stop: 38570, Start Num: 69
Candidate Starts for Sujidade_55:
(Start: 42 @42115 has 1 MA's), (Start: 69 @42046 has 55 MA's), (Start: 81 @41986 has 2 MA's), (83, 41977), (90, 41935), (105, 41842), (124, 41773), (138, 41704), (151, 41650), (169, 41578), (180, 41542), (191, 41482), (209, 41404), (229, 41257), (238, 41218), (242, 41191), (245, 41173), (249, 41152), (256, 41137), (297, 41017), (301, 41005), (328, 40819), (329, 40813), (335, 40768), (349, 40684), (351, 40666), (368, 40609), (369, 40606), (371, 40594), (403, 40456), (404, 40450), (405, 40435), (407, 40429), (414, 40396), (431, 40318), (435, 40285), (469, 40144), (487, 40063), (489, 40057), (500, 39988), (511, 39925), (517, 39904), (531, 39859), (541, 39820), (551, 39763), (552, 39754), (575, 39646), (581, 39625), (583, 39604), (593, 39574), (598, 39547), (625, 39481), (627, 39472), (630, 39460), (655, 39373), (662, 39349), (712, 39157), (731, 39073), (738, 39046), (767, 38908), (770, 38899), (775, 38872), (784, 38824), (786, 38818), (791, 38797), (794, 38791), (817, 38686), (819, 38647), (820, 38641), (822, 38584),

Gene: Sukkupi_60 Start: 47229, Stop: 43978, Start Num: 72
Candidate Starts for Sukkupi_60:
(15, 47361), (24, 47331), (29, 47319), (Start: 72 @47229 has 108 MA's), (85, 47148), (Start: 88 @47133 has 7 MA's), (92, 47088), (126, 46980), (128, 46971), (160, 46806), (192, 46683), (203, 46632), (209, 46605), (215, 46551), (221, 46521), (269, 46314), (292, 46206), (309, 46128), (314, 46101), (324, 46023), (326, 46008), (346, 45870), (396, 45672), (398, 45666), (403, 45639), (429, 45504), (433, 45471), (442, 45435), (452, 45390), (459, 45378), (472, 45315), (502, 45150), (503, 45147), (511, 45108), (512, 45105), (514, 45099), (516, 45090), (519, 45081), (543, 44985), (548, 44967), (553, 44931), (587, 44781), (603, 44727), (647, 44631), (677, 44547), (679, 44538), (697, 44487), (714, 44397), (737, 44301), (738, 44298), (749, 44247), (778, 44115), (814, 43992),

Gene: SunsetPointe_52 Start: 40347, Stop: 36868, Start Num: 69
Candidate Starts for SunsetPointe_52:
(Start: 69 @40347 has 55 MA's), (83, 40275), (Start: 88 @40248 has 7 MA's), (90, 40233), (124, 40071), (129, 40044), (132, 40038), (151, 39948), (155, 39933), (168, 39879), (169, 39876), (191, 39780), (209, 39702), (229, 39555), (238, 39516), (245, 39471), (249, 39450), (256, 39435), (279, 39393), (284, 39381), (297, 39315), (301, 39303), (314, 39240), (329, 39111), (330, 39102), (335, 39066), (349, 38982), (351, 38964), (368, 38907), (369, 38904), (371, 38892), (403, 38754), (404, 38748), (405, 38733), (407, 38727), (414, 38694), (431, 38616), (435, 38583), (469, 38442), (483, 38385), (487, 38361), (489, 38355), (500, 38286), (511, 38223), (531, 38157), (536, 38136), (541, 38118), (551, 38061), (552, 38052), (575, 37944), (577, 37935), (581, 37923), (583, 37902), (593, 37872), (598, 37845), (625, 37779), (627, 37770), (630, 37758), (655, 37671), (662, 37647), (677, 37599), (712, 37455), (729, 37380), (767, 37206), (775, 37170), (784, 37122), (794, 37089),

Gene: SuperSonics_90 Start: 57307, Stop: 60567, Start Num: 57
Candidate Starts for SuperSonics_90:
(Start: 57 @57307 has 3 MA's), (Start: 72 @57334 has 108 MA's), (Start: 88 @57430 has 7 MA's), (128, 57595), (149, 57709), (160, 57754), (167, 57793), (186, 57844), (214, 58009), (321, 58507), (326, 58552), (329, 58591), (365, 58795), (403, 58936), (411, 58987), (429, 59083), (431, 59092), (433, 59116), (434, 59122), (442, 59152), (443, 59158), (471, 59290), (472, 59293), (475, 59302), (484, 59344), (487, 59362), (512, 59494), (571, 59740), (600, 59890), (624, 59947), (639, 59989), (670, 60013), (704, 60082), (739, 60250), (761, 60340), (774, 60412), (792, 60487),

Gene: SuperSulley_61 Start: 49019, Stop: 45717, Start Num: 72
Candidate Starts for SuperSulley_61:
(31, 49094), (Start: 72 @49019 has 108 MA's), (Start: 88 @48923 has 7 MA's), (126, 48770), (128, 48761), (150, 48638), (190, 48479), (192, 48473), (197, 48449), (215, 48341), (234, 48230), (269, 48104), (306, 47933), (314, 47891), (324, 47813), (326, 47798), (346, 47660), (371, 47528), (396, 47462), (406, 47405), (419, 47345), (429, 47294), (434, 47255), (442, 47225), (452, 47180), (502, 46937), (511, 46895), (512, 46892), (514, 46886), (519, 46868), (543, 46772), (553, 46718), (589, 46565), (607, 46505), (616, 46490), (647, 46361), (677, 46283), (697, 46223), (699, 46202), (700, 46199), (706, 46181), (722, 46097), (737, 46037), (744, 46010), (808, 45758), (814, 45728),

Gene: SuperheroCarly_67 Start: 49885, Stop: 53187, Start Num: 25
Candidate Starts for SuperheroCarly_67:
(Start: 25 @49885 has 21 MA's), (Start: 61 @49972 has 1 MA's), (Start: 65 @49978 has 3 MA's), (Start: 72 @49987 has 108 MA's), (Start: 88 @50083 has 7 MA's), (128, 50239), (143, 50326), (144, 50329), (156, 50380), (214, 50644), (221, 50683), (232, 50755), (234, 50764), (247, 50839), (266, 50905), (269, 50911), (283, 50965), (289, 50983), (297, 51034), (298, 51037), (305, 51067), (319, 51151), (320, 51160), (324, 51187), (326, 51202), (350, 51379), (351, 51388), (376, 51493), (403, 51574), (413, 51634), (429, 51709), (433, 51742), (434, 51748), (440, 51769), (442, 51778), (452, 51823), (471, 51892), (476, 51907), (490, 51976), (501, 52039), (509, 52072), (510, 52075), (521,

52126), (540, 52201), (566, 52324), (571, 52342), (587, 52420), (589, 52423), (591, 52435), (601, 52480), (610, 52501), (613, 52513), (622, 52543), (627, 52564), (687, 52636), (704, 52693), (723, 52792), (739, 52858), (761, 52948), (767, 52978), (768, 52981), (774, 53011), (782, 53056), (796, 53098), (806, 53128), (809, 53140), (812, 53155), (814, 53164),

Gene: TagePhighter_56 Start: 42468, Stop: 38983, Start Num: 69
Candidate Starts for TagePhighter_56:
(Start: 42 @42537 has 1 MA's), (Start: 69 @42468 has 55 MA's), (Start: 81 @42405 has 2 MA's), (83, 42396), (90, 42354), (105, 42261), (124, 42192), (138, 42123), (151, 42069), (169, 41997), (180, 41961), (191, 41901), (229, 41676), (238, 41637), (242, 41610), (245, 41592), (249, 41571), (256, 41556), (279, 41514), (297, 41436), (301, 41424), (328, 41238), (329, 41232), (335, 41187), (349, 41103), (351, 41085), (368, 41028), (369, 41025), (371, 41013), (403, 40875), (404, 40869), (405, 40854), (407, 40848), (414, 40815), (431, 40737), (435, 40704), (469, 40563), (487, 40482), (489, 40476), (500, 40407), (511, 40344), (517, 40323), (531, 40278), (551, 40182), (552, 40173), (554, 40167), (575, 40065), (577, 40056), (581, 40044), (583, 40023), (593, 39993), (598, 39966), (625, 39900), (627, 39891), (630, 39879), (655, 39792), (701, 39624), (712, 39576), (738, 39465), (739, 39459), (767, 39327), (770, 39318), (775, 39291), (794, 39210), (818, 39078), (819, 39066),

Gene: Tainan_210 Start: 113509, Stop: 116904, Start Num: 68
Candidate Starts for Tainan_210:
(Start: 26 @113416 has 50 MA's), (Start: 28 @113422 has 6 MA's), (Start: 33 @113434 has 8 MA's), (38, 113443), (Start: 68 @113509 has 125 MA's), (83, 113584), (101, 113698), (109, 113722), (125, 113782), (145, 113893), (153, 113932), (159, 113956), (169, 113998), (196, 114097), (206, 114139), (207, 114145), (210, 114157), (218, 114220), (227, 114280), (228, 114283), (233, 114310), (240, 114352), (256, 114415), (302, 114571), (306, 114589), (309, 114604), (321, 114721), (327, 114760), (342, 114880), (348, 114922), (358, 114967), (360, 114976), (370, 115027), (381, 115069), (397, 115135), (399, 115144), (400, 115147), (401, 115153), (402, 115156), (403, 115165), (404, 115171), (405, 115186), (426, 115273), (445, 115378), (453, 115432), (467, 115519), (473, 115549), (480, 115579), (486, 115612), (488, 115621), (499, 115693), (505, 115723), (533, 115840), (541, 115885), (549, 115927), (579, 116071), (595, 116131), (632, 116233), (659, 116320), (660, 116323), (666, 116341), (676, 116377), (677, 116380), (698, 116440), (703, 116458), (724, 116554), (732, 116584), (736, 116602), (744, 116632), (765, 116725), (769, 116740), (785, 116821), (787, 116827), (789, 116839),

Gene: Teardrop_206 Start: 111683, Stop: 115078, Start Num: 68
Candidate Starts for Teardrop_206:
(Start: 26 @111590 has 50 MA's), (Start: 28 @111596 has 6 MA's), (Start: 33 @111608 has 8 MA's), (38, 111617), (Start: 68 @111683 has 125 MA's), (83, 111758), (101, 111872), (109, 111896), (125, 111956), (145, 112067), (153, 112106), (159, 112130), (169, 112172), (196, 112271), (206, 112313), (207, 112319), (210, 112331), (218, 112394), (227, 112454), (228, 112457), (233, 112484), (240, 112526), (256, 112589), (302, 112745), (306, 112763), (309, 112778), (321, 112895), (327, 112934), (342, 113054), (348, 113096), (358, 113141), (360, 113150), (370, 113201), (381, 113243), (397, 113309), (399, 113318), (400, 113321), (401, 113327), (402, 113330), (403, 113339), (404, 113345), (405, 113360), (426, 113447), (445, 113552), (453, 113606), (467, 113693), (473, 113723), (480, 113753), (486, 113786), (488, 113795), (499, 113867), (505, 113897), (533, 114014), (541, 114059), (549, 114101), (579, 114245), (595, 114305), (632, 114407), (659, 114494), (660, 114497), (666, 114515), (676, 114551), (677, 114554), (698, 114614), (703, 114632), (724, 114728), (732, 114758), (736, 114776), (744, 114806), (765, 114899), (769, 114914), (785, 114995), (787, 115001), (789, 115013),

Gene: Thales_83 Start: 68330, Stop: 71191, Start Num: 57
Candidate Starts for Thales_83:

(Start: 57 @68330 has 3 MA's), (83, 68426), (87, 68450), (91, 68489), (92, 68501), (94, 68507), (96, 68513), (105, 68564), (115, 68591), (146, 68750), (169, 68846), (172, 68861), (185, 68897), (186, 68903), (194, 68951), (199, 68969), (200, 68972), (208, 69014), (217, 69074), (219, 69083), (226, 69131), (235, 69173), (237, 69185), (252, 69260), (302, 69422), (308, 69452), (309, 69455), (321, 69530), (323, 69545), (331, 69620), (336, 69653), (344, 69704), (372, 69851), (378, 69875), (396, 69962), (401, 69983), (407, 70022), (415, 70064), (426, 70106), (427, 70115), (431, 70139), (433, 70163), (434, 70169), (435, 70172), (459, 70256), (475, 70331), (481, 70361), (485, 70379), (487, 70391), (507, 70499), (514, 70535), (518, 70553), (520, 70559), (546, 70667), (575, 70814), (577, 70823), (598, 70910), (604, 70928), (619, 70958), (620, 70961), (627, 70991), (635, 71018), (641, 71042), (656, 71078), (662, 71099), (686, 71168), (692, 71186),

Gene: Thoth_67 Start: 49791, Stop: 53093, Start Num: 25
Candidate Starts for Thoth_67:
(Start: 25 @49791 has 21 MA's), (Start: 61 @49878 has 1 MA's), (Start: 65 @49884 has 3 MA's), (Start: 72 @49893 has 108 MA's), (Start: 88 @49989 has 7 MA's), (128, 50145), (143, 50232), (144, 50235), (156, 50286), (214, 50550), (221, 50589), (232, 50661), (234, 50670), (247, 50745), (266, 50811), (269, 50817), (283, 50871), (289, 50889), (297, 50940), (298, 50943), (305, 50973), (319, 51057), (320, 51066), (324, 51093), (326, 51108), (350, 51285), (351, 51294), (376, 51399), (403, 51480), (413, 51540), (429, 51615), (433, 51648), (434, 51654), (440, 51675), (442, 51684), (452, 51729), (471, 51798), (476, 51813), (490, 51882), (501, 51945), (509, 51978), (510, 51981), (521, 52032), (540, 52107), (566, 52230), (571, 52248), (587, 52326), (589, 52329), (591, 52341), (601, 52386), (610, 52407), (613, 52419), (622, 52449), (627, 52470), (687, 52542), (704, 52599), (723, 52698), (739, 52764), (761, 52854), (767, 52884), (768, 52887), (774, 52917), (782, 52962), (796, 53004), (806, 53034), (809, 53046), (812, 53061), (814, 53070),

Gene: Thumb_78 Start: 55518, Stop: 58814, Start Num: 72
Candidate Starts for Thumb_78:
(Start: 55 @55491 has 2 MA's), (Start: 72 @55518 has 108 MA's), (84, 55590), (Start: 88 @55614 has 7 MA's), (91, 55647), (128, 55782), (145, 55875), (148, 55893), (160, 55941), (173, 56001), (214, 56193), (259, 56427), (275, 56484), (289, 56538), (295, 56583), (303, 56610), (309, 56640), (326, 56763), (329, 56802), (334, 56844), (347, 56922), (350, 56940), (353, 56958), (357, 56970), (373, 57045), (406, 57201), (423, 57285), (434, 57363), (440, 57384), (442, 57393), (443, 57399), (446, 57408), (461, 57480), (464, 57495), (471, 57534), (475, 57546), (493, 57639), (494, 57645), (503, 57693), (512, 57735), (550, 57885), (551, 57897), (571, 57981), (597, 58122), (639, 58227), (700, 58326), (703, 58335), (718, 58413), (727, 58452), (730, 58467), (741, 58515), (763, 58611), (768, 58629), (774, 58656), (783, 58704), (793, 58734), (795, 58737), (799, 58752), (809, 58782), (811, 58791), (812, 58797), (813, 58800),

Gene: Tillicus_72 Start: 51147, Stop: 54485, Start Num: 72
Candidate Starts for Tillicus_72:
(Start: 72 @51147 has 108 MA's), (Start: 81 @51207 has 2 MA's), (84, 51219), (Start: 88 @51243 has 7 MA's), (92, 51288), (101, 51330), (187, 51666), (209, 51777), (214, 51822), (233, 51945), (263, 52092), (264, 52101), (270, 52134), (278, 52170), (289, 52212), (296, 52257), (306, 52299), (326, 52431), (327, 52434), (328, 52464), (335, 52515), (339, 52536), (342, 52554), (351, 52617), (372, 52707), (376, 52722), (382, 52743), (424, 52902), (429, 52938), (433, 52971), (437, 52989), (452, 53052), (453, 53055), (470, 53118), (479, 53151), (487, 53193), (490, 53205), (495, 53241), (538, 53421), (544, 53448), (548, 53463), (553, 53499), (566, 53553), (571, 53571), (589, 53667), (591, 53679), (594, 53691), (707, 53967), (728, 54078), (736, 54114), (739, 54126), (740, 54132), (741, 54135), (748, 54162), (759, 54207), (779, 54315), (792, 54354), (795, 54360), (801, 54384), (812, 54420),

Gene: TinyTim_207 Start: 112464, Stop: 115859, Start Num: 68
Candidate Starts for TinyTim_207:

(Start: 26 @112371 has 50 MA's), (Start: 28 @112377 has 6 MA's), (Start: 33 @112389 has 8 MA's), (38, 112398), (Start: 68 @112464 has 125 MA's), (83, 112539), (101, 112653), (109, 112677), (125, 112737), (145, 112848), (153, 112887), (159, 112911), (169, 112953), (196, 113052), (206, 113094), (207, 113100), (210, 113112), (218, 113175), (227, 113235), (228, 113238), (233, 113265), (240, 113307), (256, 113370), (302, 113526), (306, 113544), (309, 113559), (321, 113676), (327, 113715), (342, 113835), (348, 113877), (358, 113922), (360, 113931), (370, 113982), (381, 114024), (397, 114090), (399, 114099), (400, 114102), (401, 114108), (402, 114111), (403, 114120), (404, 114126), (405, 114141), (426, 114228), (445, 114333), (453, 114387), (467, 114474), (473, 114504), (480, 114534), (486, 114567), (488, 114576), (499, 114648), (505, 114678), (533, 114795), (541, 114840), (549, 114882), (579, 115026), (595, 115086), (632, 115188), (659, 115275), (660, 115278), (666, 115296), (676, 115332), (677, 115335), (698, 115395), (703, 115413), (724, 115509), (732, 115539), (736, 115557), (744, 115587), (765, 115680), (769, 115695), (785, 115776), (787, 115782), (789, 115794),

Gene: Toma_55 Start: 41781, Stop: 38299, Start Num: 69
Candidate Starts for Toma_55:
(Start: 69 @41781 has 55 MA's), (73, 41766), (74, 41760), (Start: 81 @41715 has 2 MA's), (83, 41706), (90, 41664), (105, 41571), (124, 41502), (138, 41433), (151, 41379), (169, 41307), (180, 41271), (191, 41211), (209, 41133), (229, 40986), (238, 40947), (242, 40920), (245, 40902), (249, 40881), (256, 40866), (297, 40746), (301, 40734), (328, 40548), (329, 40542), (335, 40497), (349, 40413), (351, 40395), (368, 40338), (369, 40335), (371, 40323), (403, 40185), (404, 40179), (405, 40164), (407, 40158), (414, 40125), (431, 40047), (435, 40014), (469, 39873), (487, 39792), (489, 39786), (500, 39717), (511, 39654), (517, 39633), (531, 39588), (541, 39549), (551, 39492), (552, 39483), (575, 39375), (581, 39354), (583, 39333), (593, 39303), (598, 39276), (625, 39210), (627, 39201), (630, 39189), (655, 39102), (662, 39078), (701, 38934), (712, 38886), (731, 38802), (738, 38775), (767, 38637), (770, 38628), (775, 38601), (784, 38553), (786, 38547), (791, 38526), (794, 38520), (817, 38415), (818, 38388), (819, 38376), (822, 38313),

Gene: Tonenili_231 Start: 119300, Stop: 122701, Start Num: 69
Candidate Starts for Tonenili_231:
(45, 119243), (Start: 69 @119300 has 55 MA's), (83, 119375), (109, 119513), (125, 119573), (153, 119723), (159, 119747), (181, 119828), (196, 119888), (206, 119930), (207, 119936), (209, 119945), (210, 119948), (218, 120011), (227, 120071), (228, 120074), (233, 120101), (236, 120116), (239, 120128), (240, 120143), (256, 120206), (302, 120362), (306, 120380), (307, 120383), (309, 120395), (321, 120512), (327, 120551), (342, 120671), (348, 120713), (358, 120758), (360, 120767), (370, 120818), (381, 120860), (397, 120926), (399, 120935), (400, 120938), (401, 120944), (402, 120947), (404, 120962), (426, 121064), (467, 121316), (473, 121346), (480, 121376), (488, 121418), (499, 121490), (505, 121520), (509, 121538), (533, 121637), (541, 121682), (549, 121724), (579, 121868), (581, 121871), (590, 121898), (595, 121928), (632, 122030), (659, 122117), (666, 122138), (676, 122174), (677, 122177), (696, 122222), (698, 122237), (703, 122255), (724, 122351), (732, 122381), (736, 122399), (739, 122411), (744, 122429), (765, 122522), (769, 122537), (787, 122624), (789, 122636), (804, 122675),

Gene: Toneprano_95 Start: 70005, Stop: 72818, Start Num: 59
Candidate Starts for Toneprano_95:
(Start: 52 @69990 has 1 MA's), (Start: 56 @70002 has 1 MA's), (Start: 59 @70005 has 9 MA's), (83, 70098), (91, 70158), (126, 70308), (127, 70311), (128, 70317), (136, 70359), (146, 70416), (152, 70446), (153, 70449), (169, 70512), (174, 70533), (175, 70536), (185, 70563), (207, 70680), (209, 70689), (217, 70746), (219, 70755), (242, 70887), (297, 71052), (302, 71070), (305, 71085), (307, 71091), (309, 71103), (316, 71130), (317, 71133), (323, 71193), (324, 71202), (325, 71205), (327, 71217), (330, 71262), (341, 71331), (345, 71355), (375, 71511), (379, 71529), (386, 71553), (389, 71571), (407, 71667), (415, 71709), (417, 71715), (426, 71751), (427, 71760), (430, 71778), (431, 71784), (433, 71808), (434, 71814), (435, 71817), (441, 71835), (442, 71838), (465, 71931), (475,

71976), (477, 71982), (481, 72006), (482, 72009), (484, 72018), (485, 72024), (487, 72036), (509, 72153), (511, 72171), (512, 72174), (515, 72183), (542, 72297), (546, 72312), (575, 72459), (578, 72471), (580, 72477), (590, 72510), (596, 72543), (599, 72561), (604, 72573), (606, 72582), (642, 72696), (651, 72708), (656, 72723), (680, 72798), (683, 72807),

Gene: Tortoise16_207 Start: 112926, Stop: 116321, Start Num: 68
Candidate Starts for Tortoise16_207:
(Start: 26 @112833 has 50 MA's), (Start: 28 @112839 has 6 MA's), (Start: 33 @112851 has 8 MA's), (38, 112860), (Start: 68 @112926 has 125 MA's), (83, 113001), (101, 113115), (109, 113139), (125, 113199), (145, 113310), (153, 113349), (159, 113373), (169, 113415), (196, 113514), (206, 113556), (207, 113562), (210, 113574), (218, 113637), (227, 113697), (228, 113700), (233, 113727), (240, 113769), (256, 113832), (302, 113988), (306, 114006), (309, 114021), (321, 114138), (327, 114177), (342, 114297), (348, 114339), (358, 114384), (360, 114393), (370, 114444), (381, 114486), (397, 114552), (399, 114561), (400, 114564), (401, 114570), (402, 114573), (403, 114582), (404, 114588), (405, 114603), (426, 114690), (445, 114795), (453, 114849), (467, 114936), (473, 114966), (480, 114996), (486, 115029), (488, 115038), (499, 115110), (505, 115140), (533, 115257), (541, 115302), (549, 115344), (579, 115488), (595, 115548), (632, 115650), (659, 115737), (660, 115740), (666, 115758), (676, 115794), (677, 115797), (698, 115857), (703, 115875), (724, 115971), (732, 116001), (736, 116019), (744, 116049), (765, 116142), (769, 116157), (785, 116238), (787, 116244), (789, 116256),

Gene: Tracker_60 Start: 47900, Stop: 44589, Start Num: 72
Candidate Starts for Tracker_60:
(Start: 72 @47900 has 108 MA's), (84, 47828), (Start: 88 @47804 has 7 MA's), (126, 47651), (128, 47642), (190, 47360), (192, 47354), (197, 47330), (215, 47222), (221, 47192), (269, 46985), (306, 46814), (314, 46772), (317, 46766), (324, 46694), (326, 46679), (346, 46541), (396, 46343), (406, 46286), (419, 46226), (429, 46175), (442, 46106), (452, 46061), (502, 45821), (512, 45776), (514, 45770), (519, 45752), (543, 45656), (553, 45602), (584, 45458), (589, 45449), (616, 45374), (636, 45299), (647, 45245), (677, 45155), (699, 45074), (706, 45053), (737, 44909), (738, 44906), (758, 44822), (778, 44723), (796, 44666), (814, 44600),

Gene: Trinitium_205 Start: 112211, Stop: 115606, Start Num: 68
Candidate Starts for Trinitium_205:
(Start: 26 @112118 has 50 MA's), (Start: 28 @112124 has 6 MA's), (Start: 33 @112136 has 8 MA's), (38, 112145), (Start: 68 @112211 has 125 MA's), (83, 112286), (101, 112400), (109, 112424), (125, 112484), (145, 112595), (153, 112634), (159, 112658), (169, 112700), (196, 112799), (206, 112841), (207, 112847), (210, 112859), (218, 112922), (227, 112982), (228, 112985), (233, 113012), (240, 113054), (256, 113117), (293, 113237), (302, 113273), (306, 113291), (309, 113306), (321, 113423), (327, 113462), (342, 113582), (348, 113624), (358, 113669), (360, 113678), (370, 113729), (381, 113771), (397, 113837), (399, 113846), (400, 113849), (401, 113855), (402, 113858), (403, 113867), (404, 113873), (405, 113888), (426, 113975), (445, 114080), (453, 114134), (467, 114221), (473, 114251), (480, 114281), (486, 114314), (488, 114323), (499, 114395), (505, 114425), (533, 114542), (541, 114587), (549, 114629), (579, 114773), (595, 114833), (632, 114935), (659, 115022), (660, 115025), (666, 115043), (676, 115079), (677, 115082), (698, 115142), (703, 115160), (724, 115256), (732, 115286), (736, 115304), (744, 115334), (765, 115427), (769, 115442), (785, 115523), (787, 115529), (789, 115541),

Gene: Triste_55 Start: 42467, Stop: 38982, Start Num: 69
Candidate Starts for Triste_55:
(Start: 42 @42536 has 1 MA's), (Start: 69 @42467 has 55 MA's), (Start: 81 @42404 has 2 MA's), (83, 42395), (90, 42353), (105, 42260), (124, 42191), (138, 42122), (151, 42068), (169, 41996), (180, 41960), (191, 41900), (229, 41675), (238, 41636), (242, 41609), (245, 41591), (249, 41570), (256, 41555), (279, 41513), (297, 41435), (301, 41423), (328, 41237), (329, 41231), (335, 41186), (349,

41102), (351, 41084), (368, 41027), (369, 41024), (371, 41012), (403, 40874), (404, 40868), (405, 40853), (407, 40847), (414, 40814), (431, 40736), (435, 40703), (469, 40562), (487, 40481), (489, 40475), (500, 40406), (511, 40343), (517, 40322), (531, 40277), (551, 40181), (552, 40172), (554, 40166), (575, 40064), (577, 40055), (581, 40043), (583, 40022), (593, 39992), (598, 39965), (625, 39899), (627, 39890), (630, 39878), (655, 39791), (701, 39623), (712, 39575), (738, 39464), (739, 39458), (767, 39326), (770, 39317), (775, 39290), (794, 39209), (818, 39077), (819, 39065),

Gene: Troll4_66 Start: 49859, Stop: 53161, Start Num: 25
Candidate Starts for Troll4_66:
(Start: 25 @49859 has 21 MA's), (Start: 61 @49946 has 1 MA's), (Start: 65 @49952 has 3 MA's), (Start: 72 @49961 has 108 MA's), (Start: 88 @50057 has 7 MA's), (128, 50213), (143, 50300), (144, 50303), (156, 50354), (214, 50618), (221, 50657), (232, 50729), (234, 50738), (247, 50813), (266, 50879), (269, 50885), (283, 50939), (289, 50957), (297, 51008), (298, 51011), (305, 51041), (319, 51125), (320, 51134), (324, 51161), (326, 51176), (350, 51353), (351, 51362), (376, 51467), (403, 51548), (413, 51608), (429, 51683), (433, 51716), (434, 51722), (440, 51743), (442, 51752), (452, 51797), (471, 51866), (476, 51881), (490, 51950), (501, 52013), (509, 52046), (510, 52049), (521, 52100), (540, 52175), (566, 52298), (571, 52316), (587, 52394), (589, 52397), (591, 52409), (601, 52454), (610, 52475), (613, 52487), (622, 52517), (627, 52538), (687, 52610), (704, 52667), (723, 52766), (739, 52832), (761, 52922), (767, 52952), (768, 52955), (774, 52985), (782, 53030), (796, 53072), (806, 53102), (809, 53114), (812, 53129), (814, 53138),

Gene: TuanPN_52 Start: 42420, Stop: 38935, Start Num: 69
Candidate Starts for TuanPN_52:
(Start: 42 @42489 has 1 MA's), (Start: 69 @42420 has 55 MA's), (Start: 81 @42357 has 2 MA's), (83, 42348), (90, 42306), (105, 42213), (124, 42144), (138, 42075), (151, 42021), (169, 41949), (180, 41913), (191, 41853), (229, 41628), (238, 41589), (242, 41562), (245, 41544), (249, 41523), (256, 41508), (279, 41466), (297, 41388), (301, 41376), (328, 41190), (329, 41184), (335, 41139), (349, 41055), (351, 41037), (368, 40980), (369, 40977), (371, 40965), (403, 40827), (404, 40821), (405, 40806), (407, 40800), (414, 40767), (431, 40689), (435, 40656), (469, 40515), (487, 40434), (489, 40428), (500, 40359), (511, 40296), (517, 40275), (531, 40230), (551, 40134), (552, 40125), (554, 40119), (575, 40017), (577, 40008), (581, 39996), (583, 39975), (593, 39945), (598, 39918), (625, 39852), (627, 39843), (630, 39831), (655, 39744), (701, 39576), (712, 39528), (738, 39417), (767, 39279), (770, 39270), (775, 39243), (784, 39195), (794, 39162), (803, 39135), (818, 39030), (819, 39018),

Gene: Turret_202 Start: 111793, Stop: 115188, Start Num: 68
Candidate Starts for Turret_202:
(Start: 26 @111700 has 50 MA's), (Start: 28 @111706 has 6 MA's), (Start: 33 @111718 has 8 MA's), (38, 111727), (Start: 68 @111793 has 125 MA's), (83, 111868), (101, 111982), (109, 112006), (125, 112066), (145, 112177), (153, 112216), (159, 112240), (169, 112282), (196, 112381), (206, 112423), (207, 112429), (210, 112441), (218, 112504), (227, 112564), (228, 112567), (233, 112594), (240, 112636), (256, 112699), (293, 112819), (302, 112855), (306, 112873), (309, 112888), (321, 113005), (327, 113044), (342, 113164), (348, 113206), (358, 113251), (360, 113260), (370, 113311), (381, 113353), (397, 113419), (399, 113428), (400, 113431), (401, 113437), (402, 113440), (403, 113449), (404, 113455), (405, 113470), (426, 113557), (445, 113662), (453, 113716), (467, 113803), (473, 113833), (480, 113863), (486, 113896), (488, 113905), (499, 113977), (505, 114007), (533, 114124), (541, 114169), (549, 114211), (579, 114355), (595, 114415), (632, 114517), (659, 114604), (660, 114607), (666, 114625), (676, 114661), (677, 114664), (698, 114724), (703, 114742), (724, 114838), (732, 114868), (736, 114886), (744, 114916), (765, 115009), (769, 115024), (785, 115105), (787, 115111), (789, 115123),

Gene: Turuncu_63 Start: 49020, Stop: 45739, Start Num: 72
Candidate Starts for Turuncu_63:

(36, 49104), (Start: 72 @49020 has 108 MA's), (85, 48939), (Start: 88 @48924 has 7 MA's), (92, 48879), (126, 48768), (128, 48759), (139, 48693), (150, 48636), (186, 48510), (192, 48471), (197, 48447), (203, 48420), (209, 48393), (215, 48339), (255, 48126), (269, 48102), (324, 47808), (326, 47793), (384, 47475), (396, 47451), (405, 47397), (406, 47394), (429, 47283), (442, 47214), (446, 47199), (452, 47169), (494, 46980), (502, 46932), (511, 46890), (512, 46887), (514, 46881), (519, 46863), (543, 46767), (548, 46749), (553, 46713), (589, 46548), (595, 46518), (607, 46488), (636, 46449), (647, 46395), (657, 46371), (677, 46308), (697, 46248), (706, 46206), (731, 46089), (737, 46062), (738, 46059), (744, 46035), (796, 45819), (808, 45783), (814, 45753),

Gene: Twin_92 Start: 70020, Stop: 72848, Start Num: 52
Candidate Starts for Twin_92:
(Start: 52 @70020 has 1 MA's), (Start: 56 @70032 has 1 MA's), (Start: 59 @70035 has 9 MA's), (83, 70128), (91, 70188), (126, 70338), (127, 70341), (128, 70347), (146, 70446), (152, 70476), (153, 70479), (169, 70542), (174, 70563), (175, 70566), (185, 70593), (207, 70710), (209, 70719), (217, 70776), (219, 70785), (229, 70851), (242, 70917), (297, 71082), (302, 71100), (305, 71115), (307, 71121), (309, 71133), (316, 71160), (317, 71163), (323, 71223), (324, 71232), (325, 71235), (327, 71247), (330, 71292), (341, 71361), (345, 71385), (375, 71541), (379, 71559), (386, 71583), (389, 71601), (407, 71697), (415, 71739), (417, 71745), (426, 71781), (427, 71790), (430, 71808), (431, 71814), (433, 71838), (434, 71844), (435, 71847), (441, 71865), (442, 71868), (465, 71961), (475, 72006), (477, 72012), (481, 72036), (482, 72039), (484, 72048), (485, 72054), (487, 72066), (509, 72183), (511, 72201), (512, 72204), (515, 72213), (542, 72327), (546, 72342), (575, 72489), (578, 72501), (580, 72507), (590, 72540), (596, 72573), (599, 72591), (604, 72603), (606, 72612), (642, 72726), (651, 72738), (656, 72753), (680, 72828), (683, 72837),

Gene: Tyke_207 Start: 114200, Stop: 117688, Start Num: 26
Candidate Starts for Tyke_207:
(Start: 26 @114200 has 50 MA's), (Start: 28 @114206 has 6 MA's), (Start: 33 @114218 has 8 MA's), (38, 114227), (Start: 68 @114293 has 125 MA's), (83, 114368), (101, 114482), (109, 114506), (125, 114566), (145, 114677), (153, 114716), (159, 114740), (169, 114782), (196, 114881), (206, 114923), (207, 114929), (210, 114941), (218, 115004), (227, 115064), (228, 115067), (233, 115094), (240, 115136), (256, 115199), (302, 115355), (306, 115373), (309, 115388), (321, 115505), (327, 115544), (342, 115664), (348, 115706), (358, 115751), (360, 115760), (370, 115811), (381, 115853), (397, 115919), (399, 115928), (400, 115931), (401, 115937), (402, 115940), (403, 115949), (404, 115955), (405, 115970), (426, 116057), (445, 116162), (453, 116216), (467, 116303), (473, 116333), (480, 116363), (486, 116396), (488, 116405), (499, 116477), (505, 116507), (533, 116624), (541, 116669), (549, 116711), (579, 116855), (595, 116915), (632, 117017), (659, 117104), (660, 117107), (666, 117125), (676, 117161), (677, 117164), (698, 117224), (703, 117242), (724, 117338), (732, 117368), (736, 117386), (744, 117416), (765, 117509), (769, 117524), (785, 117605), (787, 117611), (789, 117623),

Gene: UBSmoodge_101 Start: 73949, Stop: 76774, Start Num: 62
Candidate Starts for UBSmoodge_101:
(Start: 62 @73949 has 3 MA's), (83, 74039), (86, 74054), (91, 74099), (106, 74177), (126, 74249), (146, 74357), (152, 74387), (153, 74390), (154, 74393), (169, 74453), (174, 74474), (185, 74504), (207, 74621), (217, 74687), (219, 74696), (220, 74699), (242, 74828), (252, 74873), (256, 74882), (289, 74945), (297, 74993), (302, 75011), (305, 75026), (307, 75032), (309, 75044), (316, 75071), (317, 75074), (323, 75134), (324, 75143), (327, 75158), (334, 75236), (335, 75239), (341, 75272), (379, 75470), (386, 75494), (405, 75602), (406, 75605), (415, 75650), (426, 75692), (427, 75701), (431, 75725), (432, 75731), (434, 75755), (435, 75758), (441, 75776), (475, 75917), (477, 75923), (481, 75947), (482, 75950), (485, 75965), (487, 75977), (491, 75998), (498, 76067), (509, 76112), (511, 76130), (512, 76133), (515, 76142), (540, 76247), (542, 76256), (547, 76283), (575, 76415), (578, 76427), (580, 76433), (596, 76499), (599, 76517), (604, 76529), (606, 76538), (623, 76574), (642, 76652), (656, 76679), (671, 76733), (672, 76736), (680, 76754), (683, 76763),

Gene: Unstoppable_53 Start: 40230, Stop: 36751, Start Num: 69
Candidate Starts for Unstoppable_53:
(7, 40440), (Start: 69 @40230 has 55 MA's), (83, 40158), (Start: 88 @40131 has 7 MA's), (90, 40116), (124, 39954), (129, 39927), (132, 39921), (151, 39831), (155, 39816), (168, 39762), (169, 39759), (191, 39663), (209, 39585), (217, 39525), (229, 39438), (238, 39399), (245, 39354), (249, 39333), (256, 39318), (279, 39276), (284, 39264), (297, 39198), (301, 39186), (314, 39123), (329, 38994), (330, 38985), (335, 38949), (349, 38865), (351, 38847), (368, 38790), (369, 38787), (371, 38775), (403, 38637), (404, 38631), (405, 38616), (407, 38610), (414, 38577), (431, 38499), (435, 38466), (469, 38325), (483, 38268), (487, 38244), (489, 38238), (500, 38169), (511, 38106), (531, 38040), (536, 38019), (541, 38001), (551, 37944), (552, 37935), (575, 37827), (577, 37818), (581, 37806), (583, 37785), (593, 37755), (598, 37728), (625, 37662), (627, 37653), (630, 37641), (655, 37554), (662, 37530), (677, 37482), (712, 37338), (729, 37263), (767, 37089), (775, 37053), (784, 37005), (794, 36972),

Gene: Urza_53 Start: 38835, Stop: 35350, Start Num: 69
Candidate Starts for Urza_53:
(40, 38904), (44, 38895), (53, 38868), (Start: 69 @38835 has 55 MA's), (73, 38820), (75, 38808), (83, 38760), (85, 38748), (90, 38718), (98, 38667), (105, 38625), (117, 38592), (129, 38529), (161, 38394), (168, 38364), (169, 38361), (183, 38319), (191, 38265), (218, 38121), (229, 38040), (240, 37983), (242, 37974), (245, 37956), (249, 37935), (252, 37929), (279, 37878), (284, 37866), (297, 37800), (301, 37788), (307, 37761), (318, 37686), (328, 37602), (329, 37596), (351, 37449), (368, 37392), (369, 37389), (387, 37320), (389, 37311), (394, 37281), (395, 37278), (403, 37239), (404, 37233), (407, 37212), (414, 37179), (416, 37173), (431, 37101), (435, 37068), (438, 37056), (460, 36975), (469, 36927), (471, 36918), (482, 36873), (483, 36870), (487, 36846), (506, 36741), (511, 36708), (531, 36642), (551, 36546), (552, 36537), (575, 36429), (583, 36387), (593, 36357), (625, 36264), (627, 36255), (630, 36243), (632, 36240), (645, 36177), (650, 36171), (677, 36084), (683, 36063), (693, 36036), (709, 35958), (712, 35937), (722, 35889), (729, 35862), (762, 35718), (772, 35673), (798, 35556), (800, 35553), (817, 35466), (819, 35427), (820, 35421), (822, 35364), (823, 35355),

Gene: ValleyTerrace_210 Start: 112377, Stop: 115772, Start Num: 68
Candidate Starts for ValleyTerrace_210:
(Start: 26 @112284 has 50 MA's), (Start: 28 @112290 has 6 MA's), (Start: 33 @112302 has 8 MA's), (38, 112311), (Start: 68 @112377 has 125 MA's), (83, 112452), (101, 112566), (109, 112590), (125, 112650), (145, 112761), (153, 112800), (159, 112824), (169, 112866), (196, 112965), (206, 113007), (207, 113013), (210, 113025), (218, 113088), (227, 113148), (228, 113151), (233, 113178), (240, 113220), (256, 113283), (293, 113403), (302, 113439), (306, 113457), (309, 113472), (321, 113589), (327, 113628), (342, 113748), (348, 113790), (358, 113835), (360, 113844), (370, 113895), (381, 113937), (397, 114003), (399, 114012), (400, 114015), (401, 114021), (402, 114024), (403, 114033), (404, 114039), (405, 114054), (426, 114141), (445, 114246), (453, 114300), (467, 114387), (473, 114417), (480, 114447), (486, 114480), (488, 114489), (499, 114561), (505, 114591), (533, 114708), (541, 114753), (549, 114795), (579, 114939), (595, 114999), (632, 115101), (659, 115188), (660, 115191), (666, 115209), (676, 115245), (677, 115248), (698, 115308), (703, 115326), (724, 115422), (732, 115452), (736, 115470), (744, 115500), (765, 115593), (769, 115608), (785, 115689), (787, 115695), (789, 115707),

Gene: VieEnRose_54 Start: 38895, Stop: 35410, Start Num: 69
Candidate Starts for VieEnRose_54:
(40, 38964), (44, 38955), (53, 38928), (Start: 69 @38895 has 55 MA's), (73, 38880), (75, 38868), (83, 38820), (85, 38808), (90, 38778), (98, 38727), (105, 38685), (117, 38652), (129, 38589), (161, 38454), (168, 38424), (169, 38421), (183, 38379), (191, 38325), (218, 38181), (229, 38100), (240, 38043), (242, 38034), (245, 38016), (249, 37995), (279, 37938), (284, 37926), (297, 37860), (301, 37848), (307, 37821), (328, 37662), (329, 37656), (351, 37509), (368, 37452), (369, 37449), (387, 37380),

(389, 37371), (394, 37341), (395, 37338), (403, 37299), (404, 37293), (407, 37272), (414, 37239), (416, 37233), (431, 37161), (435, 37128), (438, 37116), (460, 37035), (469, 36987), (471, 36978), (482, 36933), (483, 36930), (487, 36906), (506, 36801), (511, 36768), (531, 36702), (551, 36606), (552, 36597), (575, 36489), (583, 36447), (593, 36417), (625, 36324), (627, 36315), (630, 36303), (632, 36300), (645, 36237), (650, 36231), (677, 36144), (683, 36123), (693, 36096), (709, 36018), (712, 35997), (722, 35949), (729, 35922), (757, 35805), (762, 35778), (772, 35733), (786, 35658), (798, 35616), (800, 35613), (817, 35526), (819, 35487), (820, 35481), (822, 35424), (823, 35415),

Gene: Virizion_56 Start: 39250, Stop: 36053, Start Num: 72
Candidate Starts for Virizion_56:
(58, 39271), (Start: 72 @39250 has 108 MA's), (78, 39208), (Start: 88 @39154 has 7 MA's), (95, 39100), (111, 39031), (114, 39022), (116, 39013), (123, 38983), (128, 38950), (135, 38914), (141, 38872), (143, 38860), (156, 38806), (184, 38737), (189, 38698), (199, 38656), (203, 38635), (214, 38563), (222, 38521), (229, 38458), (230, 38455), (247, 38365), (250, 38350), (253, 38341), (267, 38299), (274, 38284), (278, 38269), (300, 38173), (306, 38143), (319, 38062), (321, 38050), (324, 38026), (326, 38011), (327, 38008), (337, 37915), (349, 37843), (351, 37825), (361, 37783), (374, 37726), (382, 37699), (405, 37618), (407, 37612), (412, 37585), (423, 37534), (430, 37492), (433, 37462), (434, 37456), (442, 37426), (446, 37411), (448, 37396), (463, 37354), (464, 37351), (470, 37315), (475, 37300), (496, 37186), (564, 36907), (565, 36895), (566, 36883), (571, 36865), (586, 36772), (614, 36667), (697, 36556), (700, 36532), (724, 36415), (747, 36322), (767, 36244), (771, 36232), (774, 36211), (783, 36163), (796, 36127), (808, 36091), (811, 36076),

Gene: Visconti_68 Start: 49767, Stop: 53069, Start Num: 25
Candidate Starts for Visconti_68:
(Start: 25 @49767 has 21 MA's), (Start: 61 @49854 has 1 MA's), (Start: 65 @49860 has 3 MA's), (Start: 72 @49869 has 108 MA's), (Start: 88 @49965 has 7 MA's), (128, 50121), (143, 50208), (144, 50211), (156, 50262), (214, 50526), (221, 50565), (232, 50637), (234, 50646), (247, 50721), (266, 50787), (269, 50793), (283, 50847), (289, 50865), (297, 50916), (298, 50919), (305, 50949), (319, 51033), (320, 51042), (324, 51069), (326, 51084), (350, 51261), (351, 51270), (376, 51375), (403, 51456), (413, 51516), (429, 51591), (433, 51624), (434, 51630), (440, 51651), (442, 51660), (452, 51705), (471, 51774), (476, 51789), (490, 51858), (501, 51921), (509, 51954), (510, 51957), (521, 52008), (540, 52083), (566, 52206), (571, 52224), (587, 52302), (589, 52305), (591, 52317), (601, 52362), (610, 52383), (613, 52395), (622, 52425), (627, 52446), (687, 52518), (704, 52575), (723, 52674), (739, 52740), (761, 52830), (767, 52860), (768, 52863), (774, 52893), (782, 52938), (796, 52980), (806, 53010), (809, 53022), (812, 53037), (814, 53046),

Gene: Vortrix_229 Start: 118087, Stop: 121488, Start Num: 69
Candidate Starts for Vortrix_229:
(45, 118030), (Start: 69 @118087 has 55 MA's), (83, 118162), (109, 118300), (125, 118360), (153, 118510), (159, 118534), (181, 118615), (196, 118675), (206, 118717), (207, 118723), (209, 118732), (210, 118735), (218, 118798), (227, 118858), (228, 118861), (233, 118888), (236, 118903), (239, 118915), (240, 118930), (256, 118993), (302, 119149), (306, 119167), (307, 119170), (309, 119182), (321, 119299), (327, 119338), (342, 119458), (348, 119500), (358, 119545), (360, 119554), (370, 119605), (381, 119647), (397, 119713), (399, 119722), (400, 119725), (401, 119731), (402, 119734), (404, 119749), (426, 119851), (467, 120103), (473, 120133), (480, 120163), (488, 120205), (499, 120277), (505, 120307), (533, 120424), (541, 120469), (549, 120511), (566, 120589), (579, 120655), (581, 120658), (590, 120685), (595, 120715), (632, 120817), (638, 120829), (659, 120904), (666, 120925), (676, 120961), (677, 120964), (696, 121009), (698, 121024), (703, 121042), (724, 121138), (732, 121168), (736, 121186), (739, 121198), (744, 121216), (765, 121309), (769, 121324), (787, 121411), (789, 121423), (804, 121462),

Gene: WaldoWhy_69 Start: 49783, Stop: 53085, Start Num: 25
Candidate Starts for WaldoWhy_69:

(Start: 25 @49783 has 21 MA's), (Start: 61 @49870 has 1 MA's), (Start: 65 @49876 has 3 MA's), (Start: 72 @49885 has 108 MA's), (Start: 88 @49981 has 7 MA's), (128, 50137), (143, 50224), (144, 50227), (156, 50278), (214, 50542), (221, 50581), (232, 50653), (234, 50662), (247, 50737), (266, 50803), (269, 50809), (283, 50863), (289, 50881), (297, 50932), (298, 50935), (305, 50965), (319, 51049), (324, 51085), (326, 51100), (350, 51277), (376, 51391), (403, 51472), (429, 51607), (433, 51640), (434, 51646), (440, 51667), (442, 51676), (452, 51721), (471, 51790), (476, 51805), (480, 51826), (490, 51874), (501, 51937), (509, 51970), (510, 51973), (511, 51988), (521, 52024), (540, 52099), (566, 52222), (571, 52240), (587, 52318), (589, 52321), (591, 52333), (610, 52399), (613, 52411), (622, 52441), (627, 52462), (687, 52534), (704, 52591), (723, 52690), (739, 52756), (761, 52846), (767, 52876), (768, 52879), (774, 52909), (782, 52954), (796, 52996), (806, 53026), (809, 53038), (812, 53053), (814, 53062),

Gene: Wally_207 Start: 112268, Stop: 115756, Start Num: 26
Candidate Starts for Wally_207:
(Start: 26 @112268 has 50 MA's), (Start: 28 @112274 has 6 MA's), (Start: 33 @112286 has 8 MA's), (38, 112295), (Start: 68 @112361 has 125 MA's), (83, 112436), (101, 112550), (109, 112574), (125, 112634), (145, 112745), (153, 112784), (159, 112808), (169, 112850), (196, 112949), (206, 112991), (207, 112997), (210, 113009), (218, 113072), (227, 113132), (228, 113135), (233, 113162), (240, 113204), (256, 113267), (293, 113387), (302, 113423), (306, 113441), (309, 113456), (321, 113573), (327, 113612), (342, 113732), (348, 113774), (358, 113819), (360, 113828), (370, 113879), (381, 113921), (397, 113987), (399, 113996), (400, 113999), (401, 114005), (402, 114008), (403, 114017), (404, 114023), (405, 114038), (426, 114125), (445, 114230), (453, 114284), (467, 114371), (473, 114401), (480, 114431), (486, 114464), (488, 114473), (499, 114545), (505, 114575), (533, 114692), (541, 114737), (549, 114779), (579, 114923), (595, 114983), (632, 115085), (659, 115172), (660, 115175), (666, 115193), (676, 115229), (677, 115232), (698, 115292), (703, 115310), (724, 115406), (732, 115436), (736, 115454), (744, 115484), (765, 115577), (769, 115592), (785, 115673), (787, 115679), (789, 115691),

Gene: Wentworth_52 Start: 39280, Stop: 36083, Start Num: 72
Candidate Starts for Wentworth_52:
(58, 39301), (Start: 72 @39280 has 108 MA's), (73, 39271), (78, 39238), (Start: 88 @39184 has 7 MA's), (95, 39130), (111, 39061), (114, 39052), (121, 39025), (123, 39013), (128, 38980), (135, 38944), (141, 38902), (143, 38890), (156, 38836), (183, 38770), (184, 38767), (222, 38551), (248, 38389), (250, 38380), (267, 38329), (274, 38314), (278, 38299), (306, 38173), (319, 38092), (324, 38056), (326, 38041), (327, 38038), (337, 37945), (351, 37855), (356, 37840), (405, 37648), (407, 37642), (412, 37615), (421, 37570), (423, 37564), (425, 37555), (433, 37492), (434, 37486), (442, 37456), (448, 37426), (464, 37381), (470, 37345), (496, 37216), (554, 36964), (564, 36937), (565, 36925), (566, 36913), (581, 36841), (586, 36802), (614, 36697), (634, 36622), (700, 36562), (704, 36550), (723, 36451), (739, 36385), (767, 36274), (771, 36262), (774, 36241), (778, 36217), (793, 36163), (796, 36157), (797, 36151), (811, 36106),

Gene: Werner_54 Start: 42465, Stop: 38980, Start Num: 69
Candidate Starts for Werner_54:
(Start: 42 @42534 has 1 MA's), (Start: 69 @42465 has 55 MA's), (Start: 81 @42402 has 2 MA's), (83, 42393), (90, 42351), (105, 42258), (124, 42189), (138, 42120), (151, 42066), (169, 41994), (180, 41958), (191, 41898), (229, 41673), (238, 41634), (242, 41607), (245, 41589), (249, 41568), (256, 41553), (279, 41511), (297, 41433), (301, 41421), (328, 41235), (329, 41229), (335, 41184), (349, 41100), (351, 41082), (368, 41025), (369, 41022), (371, 41010), (403, 40872), (404, 40866), (405, 40851), (407, 40845), (431, 40734), (435, 40701), (469, 40560), (487, 40479), (489, 40473), (500, 40404), (511, 40341), (517, 40320), (531, 40275), (551, 40179), (552, 40170), (554, 40164), (575, 40062), (577, 40053), (581, 40041), (583, 40020), (593, 39990), (598, 39963), (625, 39897), (627, 39888), (630, 39876), (655, 39789), (701, 39621), (712, 39573), (738, 39462), (739, 39456), (767, 39324), (770, 39315), (775, 39288), (794, 39207), (818, 39075), (819, 39063),

Gene: Whatever_54 Start: 42491, Stop: 39006, Start Num: 69
Candidate Starts for Whatever_54:
(Start: 42 @42560 has 1 MA's), (Start: 69 @42491 has 55 MA's), (Start: 81 @42428 has 2 MA's), (83, 42419), (90, 42377), (105, 42284), (124, 42215), (138, 42146), (151, 42092), (169, 42020), (180, 41984), (191, 41924), (229, 41699), (238, 41660), (242, 41633), (245, 41615), (249, 41594), (256, 41579), (279, 41537), (297, 41459), (301, 41447), (328, 41261), (329, 41255), (335, 41210), (349, 41126), (351, 41108), (368, 41051), (369, 41048), (371, 41036), (403, 40898), (404, 40892), (405, 40877), (407, 40871), (414, 40838), (431, 40760), (435, 40727), (469, 40586), (487, 40505), (489, 40499), (500, 40430), (511, 40367), (517, 40346), (531, 40301), (551, 40205), (552, 40196), (554, 40190), (575, 40088), (577, 40079), (581, 40067), (583, 40046), (593, 40016), (598, 39989), (625, 39923), (627, 39914), (630, 39902), (655, 39815), (701, 39647), (712, 39599), (738, 39488), (739, 39482), (767, 39350), (770, 39341), (775, 39314), (794, 39233), (818, 39101), (819, 39089),

Gene: Wheezy_60 Start: 48108, Stop: 44797, Start Num: 72
Candidate Starts for Wheezy_60:
(Start: 72 @48108 has 108 MA's), (84, 48036), (Start: 88 @48012 has 7 MA's), (92, 47967), (126, 47859), (128, 47850), (190, 47568), (192, 47562), (197, 47538), (215, 47430), (221, 47400), (269, 47193), (306, 47022), (314, 46980), (317, 46974), (324, 46902), (326, 46887), (346, 46749), (396, 46551), (405, 46497), (406, 46494), (419, 46434), (429, 46383), (442, 46314), (452, 46269), (502, 46029), (511, 45987), (512, 45984), (514, 45978), (519, 45960), (543, 45864), (553, 45810), (584, 45666), (589, 45657), (616, 45582), (636, 45507), (647, 45453), (662, 45411), (677, 45363), (699, 45282), (706, 45261), (724, 45171), (732, 45141), (737, 45117), (738, 45114), (778, 44931), (796, 44874), (814, 44808),

Gene: WhoseManz_60 Start: 45289, Stop: 42038, Start Num: 72
Candidate Starts for WhoseManz_60:
(6, 45517), (Start: 72 @45289 has 108 MA's), (85, 45208), (Start: 88 @45193 has 7 MA's), (92, 45148), (126, 45040), (128, 45031), (160, 44866), (192, 44743), (203, 44692), (209, 44665), (215, 44611), (221, 44581), (255, 44398), (269, 44374), (292, 44266), (309, 44188), (314, 44161), (324, 44083), (326, 44068), (346, 43930), (396, 43732), (398, 43726), (403, 43699), (413, 43639), (429, 43564), (433, 43531), (442, 43495), (459, 43438), (472, 43375), (502, 43210), (503, 43207), (511, 43168), (512, 43165), (514, 43159), (516, 43150), (519, 43141), (543, 43045), (548, 43027), (553, 42991), (587, 42841), (603, 42787), (647, 42691), (677, 42607), (679, 42598), (697, 42547), (714, 42457), (737, 42361), (738, 42358), (778, 42175), (814, 42052),

Gene: Wilkos_53 Start: 39157, Stop: 35936, Start Num: 58
Candidate Starts for Wilkos_53:
(58, 39157), (Start: 72 @39136 has 108 MA's), (78, 39094), (82, 39073), (Start: 88 @39040 has 7 MA's), (95, 38986), (101, 38953), (111, 38917), (114, 38908), (123, 38869), (128, 38836), (135, 38800), (141, 38758), (143, 38746), (156, 38692), (184, 38623), (203, 38521), (222, 38407), (247, 38251), (248, 38245), (250, 38236), (267, 38185), (274, 38170), (278, 38155), (306, 38029), (317, 37984), (319, 37948), (321, 37936), (324, 37912), (326, 37897), (327, 37894), (330, 37849), (337, 37801), (351, 37711), (356, 37696), (382, 37585), (412, 37471), (418, 37447), (423, 37420), (425, 37411), (433, 37348), (434, 37342), (442, 37312), (448, 37282), (464, 37237), (470, 37201), (496, 37072), (528, 36937), (554, 36820), (564, 36793), (565, 36781), (566, 36769), (567, 36766), (581, 36697), (586, 36658), (614, 36553), (628, 36496), (634, 36478), (697, 36442), (700, 36418), (704, 36406), (715, 36346), (723, 36307), (761, 36157), (767, 36130), (771, 36118), (774, 36097), (778, 36073), (793, 36019), (796, 36013), (797, 36007), (811, 35962),

Gene: Willis_210 Start: 113275, Stop: 116670, Start Num: 68
Candidate Starts for Willis_210:

(Start: 26 @113182 has 50 MA's), (Start: 28 @113188 has 6 MA's), (Start: 33 @113200 has 8 MA's), (38, 113209), (Start: 68 @113275 has 125 MA's), (83, 113350), (101, 113464), (109, 113488), (125, 113548), (145, 113659), (153, 113698), (159, 113722), (169, 113764), (196, 113863), (206, 113905), (207, 113911), (210, 113923), (218, 113986), (227, 114046), (228, 114049), (233, 114076), (240, 114118), (256, 114181), (293, 114301), (302, 114337), (306, 114355), (309, 114370), (321, 114487), (327, 114526), (342, 114646), (348, 114688), (358, 114733), (360, 114742), (370, 114793), (381, 114835), (397, 114901), (399, 114910), (400, 114913), (401, 114919), (402, 114922), (403, 114931), (404, 114937), (405, 114952), (426, 115039), (445, 115144), (453, 115198), (467, 115285), (473, 115315), (480, 115345), (486, 115378), (488, 115387), (499, 115459), (505, 115489), (533, 115606), (541, 115651), (549, 115693), (579, 115837), (595, 115897), (632, 115999), (659, 116086), (660, 116089), (666, 116107), (676, 116143), (677, 116146), (698, 116206), (703, 116224), (724, 116320), (732, 116350), (736, 116368), (744, 116398), (765, 116491), (769, 116506), (785, 116587), (787, 116593), (789, 116605),

Gene: Wojtek_72 Start: 51325, Stop: 55365, Start Num: 88
Candidate Starts for Wojtek_72:
(Start: 81 @51289 has 2 MA's), (Start: 88 @51325 has 7 MA's), (92, 51370), (101, 51412), (162, 51673), (187, 51748), (209, 51859), (214, 51904), (233, 52027), (263, 52174), (264, 52183), (270, 52216), (278, 52252), (289, 52294), (296, 52339), (306, 52381), (326, 52513), (327, 52516), (328, 52546), (342, 52636), (351, 52699), (372, 52789), (376, 52804), (382, 52825), (396, 52852), (429, 53020), (433, 53053), (437, 53071), (452, 53134), (453, 53137), (470, 53200), (479, 53233), (490, 53287), (495, 53323), (538, 53503), (544, 53530), (548, 53545), (553, 53581), (555, 53722), (556, 53764), (557, 53890), (558, 53917), (559, 53980), (560, 54151), (561, 54208), (562, 54214), (563, 54355), (566, 54433), (571, 54451), (589, 54547), (591, 54559), (594, 54571), (707, 54847), (728, 54958), (736, 54994), (739, 55006), (740, 55012), (741, 55015), (748, 55042), (759, 55087), (779, 55195), (792, 55234), (795, 55240), (801, 55264), (812, 55300),

Gene: Xenia2_80 Start: 51941, Stop: 55192, Start Num: 88
Candidate Starts for Xenia2_80:
(76, 51878), (85, 51926), (Start: 88 @51941 has 7 MA's), (89, 51950), (90, 51956), (105, 52049), (157, 52259), (162, 52289), (176, 52337), (198, 52424), (214, 52520), (240, 52685), (247, 52721), (263, 52790), (264, 52799), (289, 52910), (296, 52955), (306, 52997), (326, 53129), (327, 53132), (328, 53162), (351, 53315), (372, 53405), (376, 53420), (382, 53441), (429, 53636), (433, 53669), (437, 53687), (452, 53750), (453, 53753), (479, 53849), (490, 53903), (495, 53939), (521, 54053), (538, 54119), (548, 54161), (553, 54197), (566, 54251), (571, 54269), (589, 54365), (591, 54377), (594, 54389), (618, 54473), (707, 54668), (724, 54764), (728, 54779), (739, 54827), (740, 54833), (741, 54836), (748, 54863), (759, 54908), (792, 55055), (795, 55061), (801, 55085), (812, 55121),

Gene: Yara_46 Start: 37592, Stop: 34395, Start Num: 72
Candidate Starts for Yara_46:
(Start: 72 @37592 has 108 MA's), (78, 37550), (Start: 88 @37496 has 7 MA's), (92, 37451), (95, 37442), (99, 37424), (111, 37373), (114, 37364), (123, 37325), (128, 37292), (135, 37256), (156, 37148), (183, 37082), (184, 37079), (203, 36977), (214, 36905), (222, 36863), (229, 36800), (230, 36797), (250, 36692), (260, 36665), (267, 36641), (274, 36626), (278, 36611), (291, 36557), (300, 36515), (303, 36500), (306, 36485), (309, 36470), (324, 36368), (326, 36353), (327, 36350), (337, 36257), (340, 36239), (351, 36167), (372, 36077), (382, 36041), (405, 35960), (407, 35954), (412, 35927), (423, 35876), (433, 35804), (434, 35798), (440, 35777), (442, 35768), (446, 35753), (448, 35738), (463, 35696), (464, 35693), (470, 35657), (496, 35528), (528, 35393), (564, 35249), (565, 35237), (566, 35225), (586, 35114), (595, 35072), (614, 35009), (634, 34934), (700, 34874), (702, 34868), (704, 34862), (723, 34763), (738, 34703), (739, 34697), (767, 34586), (771, 34574), (774, 34553), (778, 34529), (796, 34469), (808, 34433), (811, 34418), (812, 34412),

Gene: Yasdnil_54 Start: 42454, Stop: 39032, Start Num: 81

Candidate Starts for Yasdnil_54:
(Start: 42 @42586 has 1 MA's), (Start: 69 @42517 has 55 MA's), (Start: 81 @42454 has 2 MA's), (83, 42445), (90, 42403), (105, 42310), (124, 42241), (138, 42172), (151, 42118), (169, 42046), (180, 42010), (191, 41950), (229, 41725), (238, 41686), (242, 41659), (245, 41641), (249, 41620), (256, 41605), (279, 41563), (297, 41485), (301, 41473), (328, 41287), (329, 41281), (335, 41236), (349, 41152), (351, 41134), (368, 41077), (369, 41074), (371, 41062), (390, 40990), (403, 40924), (404, 40918), (405, 40903), (407, 40897), (414, 40864), (431, 40786), (435, 40753), (469, 40612), (487, 40531), (489, 40525), (500, 40456), (511, 40393), (517, 40372), (531, 40327), (551, 40231), (552, 40222), (554, 40216), (575, 40114), (577, 40105), (581, 40093), (583, 40072), (593, 40042), (598, 40015), (625, 39949), (627, 39940), (630, 39928), (655, 39841), (701, 39673), (712, 39625), (738, 39514), (767, 39376), (770, 39367), (775, 39340), (784, 39292), (794, 39259), (803, 39232), (818, 39127), (819, 39115),

Gene: Yassified_206 Start: 112716, Stop: 116111, Start Num: 68
Candidate Starts for Yassified_206:
(Start: 18 @112593 has 6 MA's), (Start: 26 @112623 has 50 MA's), (Start: 28 @112629 has 6 MA's), (Start: 33 @112641 has 8 MA's), (38, 112650), (Start: 68 @112716 has 125 MA's), (83, 112791), (101, 112905), (109, 112929), (125, 112989), (145, 113100), (153, 113139), (159, 113163), (169, 113205), (196, 113304), (206, 113346), (207, 113352), (210, 113364), (218, 113427), (227, 113487), (228, 113490), (233, 113517), (240, 113559), (256, 113622), (293, 113742), (302, 113778), (306, 113796), (309, 113811), (321, 113928), (327, 113967), (342, 114087), (348, 114129), (358, 114174), (360, 114183), (370, 114234), (381, 114276), (397, 114342), (399, 114351), (400, 114354), (401, 114360), (402, 114363), (403, 114372), (404, 114378), (405, 114393), (426, 114480), (445, 114585), (453, 114639), (467, 114726), (473, 114756), (480, 114786), (486, 114819), (488, 114828), (499, 114900), (505, 114930), (533, 115047), (541, 115092), (549, 115134), (579, 115278), (595, 115338), (632, 115440), (659, 115527), (660, 115530), (666, 115548), (676, 115584), (677, 115587), (698, 115647), (703, 115665), (724, 115761), (732, 115791), (736, 115809), (744, 115839), (765, 115932), (769, 115947), (785, 116028), (787, 116034), (789, 116046),

Gene: YemiJoy2021_210 Start: 114031, Stop: 117426, Start Num: 68
Candidate Starts for YemiJoy2021_210:
(Start: 26 @113938 has 50 MA's), (Start: 28 @113944 has 6 MA's), (Start: 33 @113956 has 8 MA's), (38, 113965), (Start: 68 @114031 has 125 MA's), (83, 114106), (101, 114220), (109, 114244), (125, 114304), (145, 114415), (153, 114454), (159, 114478), (169, 114520), (196, 114619), (206, 114661), (207, 114667), (210, 114679), (218, 114742), (227, 114802), (228, 114805), (233, 114832), (240, 114874), (256, 114937), (293, 115057), (302, 115093), (306, 115111), (309, 115126), (321, 115243), (327, 115282), (342, 115402), (348, 115444), (358, 115489), (360, 115498), (370, 115549), (381, 115591), (397, 115657), (399, 115666), (400, 115669), (401, 115675), (402, 115678), (403, 115687), (404, 115693), (405, 115708), (426, 115795), (445, 115900), (453, 115954), (467, 116041), (473, 116071), (480, 116101), (486, 116134), (488, 116143), (499, 116215), (505, 116245), (533, 116362), (541, 116407), (549, 116449), (579, 116593), (595, 116653), (632, 116755), (659, 116842), (660, 116845), (666, 116863), (676, 116899), (677, 116902), (698, 116962), (703, 116980), (724, 117076), (732, 117106), (736, 117124), (744, 117154), (765, 117247), (769, 117262), (785, 117343), (787, 117349), (789, 117361),

Gene: Yikes_80 Start: 52791, Stop: 56132, Start Num: 72
Candidate Starts for Yikes_80:
(47, 52743), (Start: 72 @52791 has 108 MA's), (Start: 81 @52851 has 2 MA's), (Start: 88 @52887 has 7 MA's), (92, 52932), (101, 52974), (162, 53235), (190, 53337), (198, 53370), (214, 53466), (263, 53736), (264, 53745), (289, 53853), (296, 53898), (306, 53940), (326, 54072), (327, 54075), (328, 54105), (331, 54126), (342, 54195), (350, 54249), (372, 54348), (376, 54363), (393, 54405), (429, 54579), (433, 54612), (437, 54630), (442, 54648), (452, 54693), (453, 54696), (479, 54792), (487, 54834), (490, 54846), (495, 54882), (538, 55062), (548, 55104), (553, 55140), (566, 55194), (571,

55212), (589, 55308), (591, 55320), (675, 55515), (704, 55599), (720, 55680), (724, 55704), (728, 55719), (736, 55755), (739, 55767), (740, 55773), (741, 55776), (748, 55803), (759, 55848), (779, 55956), (795, 56001), (801, 56025), (812, 56061),

Gene: Yndexa_60 Start: 47229, Stop: 43978, Start Num: 72
Candidate Starts for Yndexa_60:
(15, 47361), (24, 47331), (29, 47319), (Start: 72 @47229 has 108 MA's), (85, 47148), (Start: 88 @47133 has 7 MA's), (92, 47088), (126, 46980), (128, 46971), (160, 46806), (192, 46683), (203, 46632), (209, 46605), (215, 46551), (221, 46521), (269, 46314), (292, 46206), (309, 46128), (314, 46101), (324, 46023), (326, 46008), (346, 45870), (396, 45672), (398, 45666), (403, 45639), (429, 45504), (433, 45471), (442, 45435), (452, 45390), (459, 45378), (472, 45315), (502, 45150), (503, 45147), (511, 45108), (512, 45105), (514, 45099), (516, 45090), (519, 45081), (543, 44985), (548, 44967), (553, 44931), (587, 44781), (603, 44727), (647, 44631), (677, 44547), (679, 44538), (697, 44487), (714, 44397), (737, 44301), (738, 44298), (749, 44247), (778, 44115), (814, 43992),

Gene: YoungMoneyMata_207 Start: 112573, Stop: 115968, Start Num: 68
Candidate Starts for YoungMoneyMata_207:
(Start: 26 @112480 has 50 MA's), (Start: 28 @112486 has 6 MA's), (Start: 33 @112498 has 8 MA's), (38, 112507), (Start: 68 @112573 has 125 MA's), (83, 112648), (101, 112762), (109, 112786), (125, 112846), (145, 112957), (153, 112996), (159, 113020), (169, 113062), (196, 113161), (206, 113203), (207, 113209), (210, 113221), (218, 113284), (227, 113344), (228, 113347), (233, 113374), (240, 113416), (256, 113479), (293, 113599), (302, 113635), (306, 113653), (309, 113668), (321, 113785), (327, 113824), (342, 113944), (348, 113986), (358, 114031), (360, 114040), (370, 114091), (381, 114133), (397, 114199), (399, 114208), (400, 114211), (401, 114217), (402, 114220), (403, 114229), (404, 114235), (405, 114250), (426, 114337), (445, 114442), (453, 114496), (467, 114583), (473, 114613), (480, 114643), (486, 114676), (488, 114685), (499, 114757), (505, 114787), (533, 114904), (541, 114949), (549, 114991), (579, 115135), (595, 115195), (632, 115297), (659, 115384), (660, 115387), (666, 115405), (676, 115441), (677, 115444), (698, 115504), (703, 115522), (724, 115618), (732, 115648), (736, 115666), (744, 115696), (765, 115789), (769, 115804), (785, 115885), (787, 115891), (789, 115903),

Gene: Yucca_209 Start: 113930, Stop: 117418, Start Num: 26
Candidate Starts for Yucca_209:
(Start: 26 @113930 has 50 MA's), (Start: 28 @113936 has 6 MA's), (Start: 33 @113948 has 8 MA's), (38, 113957), (Start: 68 @114023 has 125 MA's), (83, 114098), (101, 114212), (109, 114236), (125, 114296), (145, 114407), (153, 114446), (159, 114470), (169, 114512), (196, 114611), (206, 114653), (207, 114659), (210, 114671), (218, 114734), (227, 114794), (228, 114797), (233, 114824), (240, 114866), (256, 114929), (293, 115049), (302, 115085), (306, 115103), (309, 115118), (321, 115235), (327, 115274), (342, 115394), (348, 115436), (358, 115481), (360, 115490), (370, 115541), (381, 115583), (397, 115649), (399, 115658), (400, 115661), (401, 115667), (402, 115670), (403, 115679), (404, 115685), (405, 115700), (426, 115787), (445, 115892), (453, 115946), (467, 116033), (473, 116063), (480, 116093), (486, 116126), (488, 116135), (499, 116207), (505, 116237), (533, 116354), (541, 116399), (549, 116441), (579, 116585), (595, 116645), (632, 116747), (659, 116834), (660, 116837), (666, 116855), (676, 116891), (677, 116894), (698, 116954), (703, 116972), (724, 117068), (732, 117098), (736, 117116), (744, 117146), (765, 117239), (769, 117254), (785, 117335), (787, 117341), (789, 117353),

Gene: Zalkecks_208 Start: 113011, Stop: 116499, Start Num: 26
Candidate Starts for Zalkecks_208:
(Start: 26 @113011 has 50 MA's), (Start: 28 @113017 has 6 MA's), (Start: 33 @113029 has 8 MA's), (38, 113038), (Start: 68 @113104 has 125 MA's), (83, 113179), (101, 113293), (109, 113317), (125, 113377), (145, 113488), (153, 113527), (159, 113551), (169, 113593), (196, 113692), (206, 113734), (207, 113740), (210, 113752), (218, 113815), (227, 113875), (228, 113878), (233, 113905), (240,

113947), (256, 114010), (293, 114130), (302, 114166), (306, 114184), (309, 114199), (321, 114316), (327, 114355), (342, 114475), (348, 114517), (358, 114562), (360, 114571), (370, 114622), (381, 114664), (397, 114730), (399, 114739), (400, 114742), (401, 114748), (402, 114751), (403, 114760), (404, 114766), (405, 114781), (426, 114868), (445, 114973), (453, 115027), (467, 115114), (473, 115144), (480, 115174), (486, 115207), (488, 115216), (499, 115288), (505, 115318), (533, 115435), (541, 115480), (549, 115522), (579, 115666), (595, 115726), (632, 115828), (659, 115915), (660, 115918), (666, 115936), (676, 115972), (677, 115975), (698, 116035), (703, 116053), (724, 116149), (732, 116179), (736, 116197), (744, 116227), (765, 116320), (769, 116335), (785, 116416), (787, 116422), (789, 116434),

Gene: Zany_76 Start: 52244, Stop: 55585, Start Num: 72
Candidate Starts for Zany_76:
(48, 52202), (Start: 72 @52244 has 108 MA's), (Start: 81 @52304 has 2 MA's), (Start: 88 @52340 has 7 MA's), (92, 52385), (101, 52427), (162, 52688), (190, 52790), (198, 52823), (214, 52919), (263, 53189), (264, 53198), (289, 53306), (296, 53351), (306, 53393), (326, 53525), (327, 53528), (328, 53558), (331, 53579), (342, 53648), (350, 53702), (372, 53801), (376, 53816), (393, 53858), (429, 54032), (433, 54065), (437, 54083), (442, 54101), (452, 54146), (453, 54149), (479, 54245), (487, 54287), (490, 54299), (495, 54335), (538, 54515), (548, 54557), (553, 54593), (566, 54647), (571, 54665), (589, 54761), (591, 54773), (673, 54962), (704, 55052), (724, 55157), (728, 55172), (736, 55208), (739, 55220), (740, 55226), (741, 55229), (748, 55256), (759, 55301), (779, 55409), (795, 55454), (801, 55478), (812, 55514),

Gene: Zeenon_211 Start: 113675, Stop: 117070, Start Num: 68
Candidate Starts for Zeenon_211:
(Start: 26 @113582 has 50 MA's), (Start: 28 @113588 has 6 MA's), (Start: 33 @113600 has 8 MA's), (38, 113609), (Start: 68 @113675 has 125 MA's), (83, 113750), (101, 113864), (109, 113888), (125, 113948), (145, 114059), (153, 114098), (159, 114122), (169, 114164), (196, 114263), (206, 114305), (207, 114311), (210, 114323), (218, 114386), (227, 114446), (228, 114449), (233, 114476), (240, 114518), (256, 114581), (293, 114701), (302, 114737), (306, 114755), (309, 114770), (321, 114887), (327, 114926), (342, 115046), (348, 115088), (358, 115133), (360, 115142), (370, 115193), (381, 115235), (397, 115301), (399, 115310), (400, 115313), (401, 115319), (402, 115322), (403, 115331), (404, 115337), (405, 115352), (426, 115439), (445, 115544), (453, 115598), (467, 115685), (473, 115715), (480, 115745), (486, 115778), (488, 115787), (499, 115859), (505, 115889), (533, 116006), (541, 116051), (549, 116093), (579, 116237), (595, 116297), (632, 116399), (659, 116486), (660, 116489), (666, 116507), (676, 116543), (677, 116546), (698, 116606), (703, 116624), (724, 116720), (732, 116750), (736, 116768), (744, 116798), (765, 116891), (769, 116906), (785, 116987), (787, 116993), (789, 117005),

Gene: Zemlya_55 Start: 41509, Stop: 38030, Start Num: 70
Candidate Starts for Zemlya_55:
(Start: 70 @41509 has 4 MA's), (83, 41437), (84, 41434), (Start: 88 @41410 has 7 MA's), (91, 41377), (101, 41323), (105, 41302), (124, 41233), (138, 41164), (151, 41110), (169, 41038), (180, 41002), (191, 40942), (209, 40864), (229, 40717), (238, 40678), (242, 40651), (245, 40633), (249, 40612), (256, 40597), (297, 40477), (301, 40465), (328, 40279), (329, 40273), (349, 40144), (351, 40126), (368, 40069), (369, 40066), (371, 40054), (403, 39916), (404, 39910), (405, 39895), (407, 39889), (414, 39856), (431, 39778), (435, 39745), (469, 39604), (487, 39523), (489, 39517), (500, 39448), (508, 39406), (511, 39385), (517, 39364), (531, 39319), (541, 39280), (551, 39223), (552, 39214), (572, 39133), (575, 39106), (581, 39085), (583, 39064), (593, 39034), (598, 39007), (625, 38941), (627, 38932), (630, 38920), (655, 38833), (701, 38665), (712, 38617), (731, 38533), (738, 38506), (767, 38368), (770, 38359), (775, 38332), (784, 38284), (786, 38278), (791, 38257), (794, 38251), (817, 38146), (819, 38107), (822, 38044),

Gene: Zion_46 Start: 42797, Stop: 39504, Start Num: 72

Candidate Starts for Zion_46:
(Start: 72 @42797 has 108 MA's), (80, 42740), (85, 42716), (Start: 88 @42701 has 7 MA's), (89, 42692), (128, 42545), (166, 42338), (177, 42263), (182, 42239), (190, 42185), (276, 41771), (297, 41669), (322, 41534), (324, 41516), (326, 41501), (337, 41405), (384, 41186), (385, 41183), (393, 41168), (402, 41138), (405, 41108), (429, 40991), (433, 40958), (439, 40931), (445, 40907), (479, 40760), (490, 40706), (493, 40685), (510, 40610), (512, 40592), (553, 40415), (564, 40385), (567, 40358), (571, 40343), (604, 40214), (637, 40181), (667, 40094), (704, 39980), (706, 39974), (708, 39962), (741, 39812), (742, 39809), (744, 39803), (748, 39785), (749, 39776), (753, 39758), (777, 39656), (779, 39632), (789, 39596), (792, 39590),

Gene: ZygoTaiga_206 Start: 114202, Stop: 117690, Start Num: 26
Candidate Starts for ZygoTaiga_206:
(Start: 26 @114202 has 50 MA's), (Start: 28 @114208 has 6 MA's), (Start: 33 @114220 has 8 MA's), (38, 114229), (Start: 68 @114295 has 125 MA's), (83, 114370), (101, 114484), (109, 114508), (125, 114568), (145, 114679), (153, 114718), (159, 114742), (169, 114784), (196, 114883), (206, 114925), (207, 114931), (210, 114943), (218, 115006), (227, 115066), (228, 115069), (233, 115096), (240, 115138), (256, 115201), (293, 115321), (302, 115357), (306, 115375), (309, 115390), (321, 115507), (327, 115546), (342, 115666), (348, 115708), (358, 115753), (360, 115762), (370, 115813), (381, 115855), (397, 115921), (399, 115930), (400, 115933), (401, 115939), (402, 115942), (403, 115951), (404, 115957), (405, 115972), (426, 116059), (445, 116164), (453, 116218), (467, 116305), (473, 116335), (480, 116365), (486, 116398), (488, 116407), (499, 116479), (505, 116509), (533, 116626), (541, 116671), (549, 116713), (579, 116857), (595, 116917), (632, 117019), (659, 117106), (660, 117109), (666, 117127), (676, 117163), (677, 117166), (698, 117226), (703, 117244), (724, 117340), (732, 117370), (736, 117388), (744, 117418), (765, 117511), (769, 117526), (785, 117607), (787, 117613), (789, 117625),