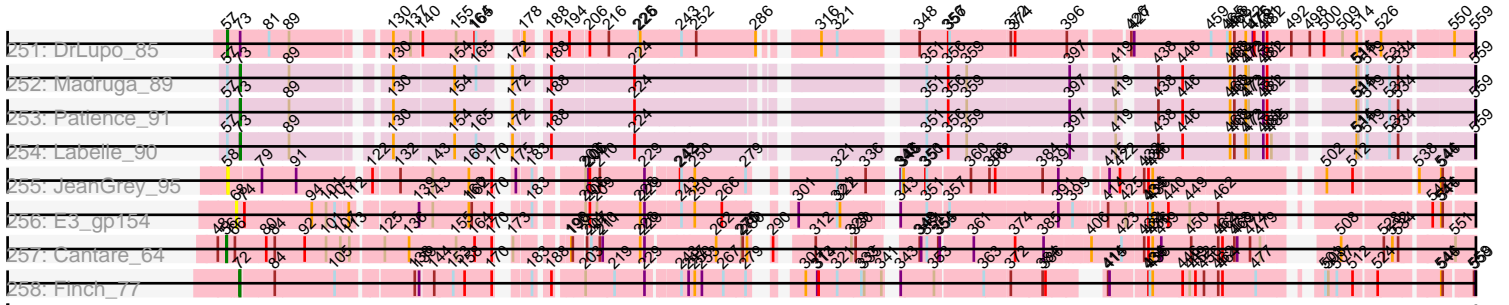


Zoomed Pham 171101

51: LilMartin_77 + 2	33	70	146	188	213	258	292	310	383	480	500	527	546	559
52: Jay2Jay_84			146	188	213	258	292	310	383	480	500	527	546	559
53: Anedeia_78			146	188	213	258	292	310	383	480	500	527	546	559
54: Pepperwood_80			146	188	213	258	292	310	383	480	500	527	546	559
55: Larnav_85 + 1	99		146	188	213	258	292	310	383	480	500	527	546	559
56: NootNoot_75			146	188	213	258	292	310	383	480	500	527	546	559
57: Navo_77			146	188	213	258	292	310	383	480	500	527	546	559
58: Peebs_79	99		146	188	213	258	292	310	383	480	500	527	546	559
59: WhereRU_79			146	188	213	258	292	310	383	480	500	527	546	559
60: Sushi23_79	99		146	188	213	258	292	310	383	480	500	527	546	559
61: Warpy_83	99		146	188	213	258	292	310	383	480	500	527	546	559
62: Imored21_78	99		146	188	213	258	292	310	383	480	500	527	546	559
63: Targaryen_80			146	188	213	258	292	310	383	480	500	527	546	559
64: Samistr12_80		102	146	188	213	258	292	310	383	480	500	527	546	559
65: Battuta_80 + 1		102	146	188	200	213	258	292	312	381	481	502	546	559
66: Birchlyn_79			146	188	200	213	258	292	312	381	481	502	546	559
67: Enygma_82		102	146	188	200	213	258	292	312	381	481	502	546	559
68: Jolison_86 + 2	51	102	146	188	200	213	258	302	312	381	481	502	546	559
69: Wolford_81		102	146	188	200	213	258	302	312	381	481	502	546	559
70: Genie2_82 + 2		102	146	188	200	213	258	302	312	381	412	502	546	559
71: Gibbi_86 + 3			146	188	200	213	258	302	312	381	481	502	546	559
72: Tomas_84		102	146	188	200	213	258	302	312	381	481	502	546	559
73: Spelly_82		102	146	188	200	213	258	302	312	381	481	502	546	559
74: Mugiwara_83		102	146	188	200	213	258	302	312	381	412	502	546	559
75: KentuckyRacer_85		102	146	188	200	213	258	302	312	381	481	502	546	559
76: Amabiko_82 + 1		102	146	188	200	213	258	302	312	381	412	502	546	559
77: Solientia_82		102	146	188	200	213	258	302	312	381	481	502	546	559
78: TomSawyer_80	51	102	146	188	200	213	258	302	312	381	412	502	546	559
79: Eimer_90		102	146	188	200	213	258	302	312	381	412	502	546	559
80: IchabodCrane_79 + 1		102	146	188	200	213	258	302	312	381	481	502	546	559
81: Wipeout_79		102	146	188	200	213	258	302	312	381	481	502	546	559
82: StarPlatinum_82		102	146	188	200	213	258	302	312	381	481	502	546	559
83: Bordeaux_80		102	146	188	200	213	258	302	312	381	481	502	546	559
84: SaitySpitoon_81		102	146	188	200	213	258	302	312	381	481	502	546	559
85: Yabori_82		102	146	188	200	213	258	302	312	381	481	502	546	559
86: LukeCage_81			146	188	213	258	292	310	383	480	500	527	546	559
87: Annadreamy_58 + 1		129	132	146	159	188	213	302	315	382	481	502	546	559
88: Beifort_62 + 1			146	159	188	213	258	302	315	382	481	502	546	559
89: Seres1tree_61		129	132	146	159	188	213	302	315	382	481	502	546	559
90: Forrest_62 + 3		129	132	146	159	188	213	302	315	382	481	502	546	559
91: Comrade_61			146	159	188	213	258	302	315	382	481	502	546	559
92: FrancoB_59			146	159	188	200	213	254	315	376	480	502	546	559
93: Tuna1artare_59			146	159	188	213	258	302	315	382	481	502	546	559
94: Beufler_58		129	132	146	159	188	213	302	315	382	481	502	546	559
95: Emma1919_62		132	146	159	188	213	258	310	322	331	345	348	359	
96: Pateigo_60			146	159	188	213	258	302	315	382	481	502	546	559
97: Kenrey_62 + 1		132	146	159	188	213	258	310	322	331	345	348	359	
98: Moab_61		132	146	159	188	213	258	310	322	331	345	348	359	
99: Sham_57			146	159	188	213	258	302	315	382	481	502	546	559
100: Faust_61			146	159	188	213	258	302	315	382	481	502	546	559

Zoomed Pham 171101



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 171101 Report

This analysis was run 07/09/24 on database version 566.

Pham number 171101 has 514 members, 60 are drafts.

Phages represented in each track:

- Track 1 : Settecandela_119, Phrappuccino_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 : Nabi_55
- Track 26 : SarahRose_54
- Track 27 : Brataylor_57
- Track 28 : Yasdnil_54
- Track 29 : Dattran_57
- Track 30 : Caliburn_52
- 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 : Daubenski_81
- Track 43 : Cursive_78, Cross_80, HangryHippo_82, PacManQ_81, BlueOtter_82, Watermoore_80, Lululemon_81, Leo04_81
- Track 44 : Paradiddles_75
- Track 45 : Evy_80
- Track 46 : Braelyn_79
- Track 47 : Deutsch_80
- Track 48 : Squillium_79, Bartholomune_78, Liandry_78, Persimmon_77, PinkiePie_78
- Track 49 : Bmoc_78
- Track 50 : EGole_81
- Track 51 : LilMartin_77, MulchMansion_77, Angela_76
- Track 52 : Jay2Jay_84
- Track 53 : Anedea_78
- Track 54 : Pepperwood_80
- Track 55 : Larnav_85, Tribute_78
- Track 56 : NootNoot_75
- Track 57 : Navo_77
- Track 58 : Peebs_79
- Track 59 : WhereRU_79
- Track 60 : Sushi23_79
- Track 61 : Warpy_83
- Track 62 : Mildred21_78
- Track 63 : Targaryen_80
- Track 64 : Samisti12_80
- Track 65 : Battuta_80, Starbow_80
- Track 66 : Birchlyn_79
- Track 67 : Enygma_82
- Track 68 : Jollison_86, Quaran19_81, PumpkinSpice_81
- Track 69 : Wofford_81
- Track 70 : Genie2_82, BoomerJR_82, Stanimal_82
- Track 71 : Gibbi_86, JimJam_82, CeilingFan_84, Karimac_81
- Track 72 : Tomas_84
- Track 73 : Spelly_82
- Track 74 : Mugiwara_83
- Track 75 : KentuckyRacer_85
- Track 76 : Amabiko_82, MindFlayer_79
- Track 77 : Sollertia_82
- Track 78 : TomSawyer_80
- Track 79 : Elmer_90
- Track 80 : IchabodCrane_79, Spilled_83
- Track 81 : Wipeout_79
- Track 82 : StarPlatinum_82
- Track 83 : Bordeaux_80
- Track 84 : SaltySpittoon_81
- Track 85 : Yaboi_82
- Track 86 : LukeCage_81
- Track 87 : Annadreamy_58, Limpid_57
- Track 88 : Belfort_62, SparkleGoddess_61

- Track 89 : SeresaTree_61
- Track 90 : Forrest_62, Gilson_61, Jada_60, MeganTheeKilla_59
- Track 91 : Comrade_61
- Track 92 : Francob_59
- Track 93 : TunaTartare_59
- Track 94 : Beuffert_58
- Track 95 : Emma1919_62
- Track 96 : Patelgo_60
- Track 97 : Kenrey_62, Phredrick_60
- Track 98 : Moab_61
- Track 99 : Sham_57
- Track 100 : Faust_61
- Track 101 : Blueeyedbeauty_60
- Track 102 : Karp_59
- Track 103 : Stigma_60
- Track 104 : BillNye_56
- Track 105 : Wakanda_57
- Track 106 : Muntaha_58
- Track 107 : Circinus_58
- Track 108 : Rooney_51
- Track 109 : Dryad_56
- Track 110 : ShakeNBake_51
- Track 111 : Yara_46
- Track 112 : Wentworth_52
- Track 113 : Wilkos_53
- Track 114 : PHTowN_51
- Track 115 : Lizz_51
- Track 116 : Gibson_51
- Track 117 : Concombre_214, Bxz1_199, LolaVinca_207, Phusco_207, Asterius_205, NoodleTree_215, DirtMonster_202, Kamryn_208, Essence_206, Rahel_210, RoMag_204, Capablanca_214, SmallFry_209, FrayBell_212, TinyTim_207, Iota_204, Shnickers_207, SrishMeg2525_206, ShiaLabeouf_206, Blackbrain_206, Melpomini_204, Darko_208, Specks_213, Phlegm_213, BananaFence_206, Tortoise16_207, LordLeafolot_211, CindyLou_210, NuevoMundo_212, Spec_204, Teardrop_206, Gabriel_212, Mikro_205, Maby2021_209, FoxtrotP1_207
- Track 118 : Shelob_210, MikeLiesIn_211, Basquiat_206, Naval22_214, Ngannou_206, Turret_202, ChickenPhender_205, EmToTheThree_209, Bonray_211, InigoMontoya_212, Atlantean_209, Lee7_209, Janiyra_212, Flabslab_204, Nidhogg_210, Stubby_193, Morizzled23_206, JustHall_203, Bipolarisk_207, Chargie21_206, Delilah_207, Ading_210, Momo_210, NedWong_208, InterFolia_212, ParkTD_208, Fludd_209, Matsumoto_208, Babyland_212, Willis_210, Khaleesi_208, Kboogie_213, ScottMcG_202, Quasimodo_211, Naija_210, Catera_201, DrPhinkDaddy_206, Cactojaque_204, EmmaElysia_212, StubbySaigey_214, Ewok_208, Trinitium_205, YoungMoneyMata_207, McWolfish_206, ValleyTerrace_210, Amataga_210, Napoleon13_206, Loanshark_206, Patter_210, Latch_209, Chomp_208, YemiJoy2021_210, Audrick_211, Zeenon_211, Izajani_207, Ava3_208, ChaylaJr_206, Pivoine_210, Jessibeth14_209, PurduePete_209, Gamgam_210, Spud_203
- Track 119 : HyRo_197, Shifa_186
- Track 120 : Colt_200, Cane17_200, Blubba_205
- Track 121 : Grasshills_217, Bigswole_214, BigCity_218, EggyFarm_218, Pier_210

- Track 122 : Erdmann_210, Shrimp_211, ArcherS7_209, Delylah_211, Caravan_200, Derek_206, LifeSavor_208, Jedediah_209, EasyJones_212, Drazdys_207, Burrough_211, Breeniome_208, Gizmo_215, Mangeria_210, Tyke_207, Bangla1971_209, DTDevon_211, Guwapp_204, Bread_204, JPickles_205, Salacia_209, Pio_217
- Track 123 : Astraea_203, Littleton_212, ZygoTaiga_206, Roots515_211, McGee_208, FudgeTart_204, Daffodil_214, Rizal_201, ErnieJ_202, Wally_207, Pinkcreek_193, Megamind_206, Zalkecks_208, Yucca_209, BackyardAgain_204, Rabinovish_202, SilverDipper_213
- Track 124 : Grungle_193
- Track 125 : JayJay_207
- Track 126 : Phox_210, Koguma_208
- Track 127 : StephanieG_205, IkeLoa_201, BadAgartude_203
- Track 128 : Halldule_202, Shaqnato_200, Yassified_206, Norm_209, Sauce_205, Ronan_205, Blackdragon_204, QBert_201, Sprinklers_207
- Track 129 : Cali_202
- Track 130 : Nappy_210, Dandelion_217
- Track 131 : LRRHood_202, CharlieB_203, Lukilu_200, ET08_197
- Track 132 : Ghost_209, Alice_196, Pleione_213
- Track 133 : Issimir_205
- Track 134 : Tonenili_231
- Track 135 : MoMoMixon_207, Sebata_210
- Track 136 : LinStu_208, Adlitam_208, Dietrick_198, Jemmno_208
- Track 137 : JulietS_202, BeanWater_201
- Track 138 : I3_219
- Track 139 : Jaygup_205
- Track 140 : Greely_198
- Track 141 : Myrna_192
- Track 142 : ScoobyDoobyDoo_190
- Track 143 : Phabba_203
- Track 144 : Peregrin_100
- Track 145 : Weasels2_102
- Track 146 : Grayson_103
- Track 147 : NiceHouse_90
- Track 148 : Trina_102
- Track 149 : Francesca_77
- Track 150 : Dorin_75
- Track 151 : Maselop_59, Braxoaddie_59, CoffeeBean_59, Polyuyuki_59
- Track 152 : Apiary_59
- Track 153 : GuyFagieri_58
- Track 154 : GRU1_49
- Track 155 : Dalilpop_64
- Track 156 : Turuncu_63
- Track 157 : Flapper_64
- Track 158 : GTE5_49
- Track 159 : Bonum_63
- Track 160 : MerCougar_61
- Track 161 : Arti_59
- Track 162 : Buggaboo_61, SuperSulley_61
- Track 163 : GTE8_48
- Track 164 : Foxboro_61
- Track 165 : Commandaria_61
- Track 166 : StarStruck_61, Outis_61

- Track 167 : Wheezy_60
- Track 168 : GrootJr_62, NovumRegina_60
- Track 169 : NosilaM_62
- Track 170 : Jifall16_59, Kurt_60, Emianna_60, KidneyBean_60, Phomeo_59
- Track 171 : Kabluna_63
- Track 172 : Tracker_60
- Track 173 : NatB6_60
- Track 174 : Lollipop1437_64
- Track 175 : Float294_60
- Track 176 : Skysand_61
- Track 177 : Ennea_66
- Track 178 : Patio_62
- Track 179 : WhoseManz_60, Marietta_61
- Track 180 : HubbaBubba_55
- Track 181 : Sukkupi_60, Yndexa_60
- Track 182 : IDyn_59
- Track 183 : NadineRae_59
- Track 184 : BiPauneto_61
- Track 185 : Fury_67, Pleakley_67
- Track 186 : Gumball_66, SirHarley_69
- Track 187 : WaldoWhy_69, Chill_69
- Track 188 : Nova_66, Erk16_66, Giuseppe_68, KandZ_65, Visconti_68, Penelope2018_67, Troll4_66, Delton_67, Thoth_67, Prager_67, BigMama_65
- Track 189 : Helpful_70, Mopey_68
- Track 190 : Butterscotch_65
- Track 191 : PBI1_63
- Track 192 : Adjutor_65
- Track 193 : PLOT_66
- Track 194 : Hawkeye_75
- Track 195 : Skog_212
- Track 196 : CherryTomatoes_154, Pupper_153
- Track 197 : SCentae_152
- Track 198 : Oogie_96
- Track 199 : ScarletRaider_99
- Track 200 : FlyingTortilla_99
- Track 201 : Gray_98
- Track 202 : Pakusa_93
- Track 203 : Alok_92, Hanem_97, Schomber_96, Kabocha_99
- Track 204 : Chidiebere_98
- Track 205 : DalanDe_85
- Track 206 : GMA6_80
- Track 207 : UBSmoodge_101
- Track 208 : ChisanaKitsune_95
- Track 209 : GretelLyn_79, Sadboi_79, MoiGyank_84, Yikes_80, Gibbin_81
- Track 210 : Alyssamiracle_81, Jamemuya19_79, Rumi_79
- Track 211 : Tillicus_73
- Track 212 : Apeppi_73
- Track 213 : Mima20_79
- Track 214 : Erutan_79
- Track 215 : Ranch_80
- Track 216 : Patos_84, NorManre_84
- Track 217 : Lila22_83
- Track 218 : ParvusTarda_77

- Track 219 : Xenia2_78
- Track 220 : OtterstedtS21_79
- Track 221 : GOATification_78, Fulcrum_78, BirthdayBoy_81
- Track 222 : LuckyLeo_75
- Track 223 : Jalebi_78, Sampudon_80
- Track 224 : Zany_76
- Track 225 : DaviePasture_79
- Track 226 : Lambo_77
- Track 227 : DumpTruck_80
- Track 228 : Alephilan_79
- Track 229 : DoobyDoo_76
- Track 230 : Genamy16_81
- Track 231 : Wojtek_72
- Track 232 : Avian_78
- Track 233 : NovaSharks_80
- Track 234 : RedWattleHog_79, Stormageddon_76
- Track 235 : Zion_46, PeteyPab_45, PotatoChip_46
- Track 236 : Darwin_47
- Track 237 : Cruella_43
- Track 238 : C3PO_43
- Track 239 : Kimchi1738_43
- Track 240 : Stickynote_45
- Track 241 : Megatron06_78
- Track 242 : Phreeze_76
- Track 243 : Beckerton_76
- Track 244 : Oaker_77
- Track 245 : Predator_76
- Track 246 : Damien_77
- Track 247 : Konstantine_80
- Track 248 : Thumb_78
- Track 249 : Cborch11_78
- Track 250 : Barnyard_80
- Track 251 : DrLupo_85
- Track 252 : Madruga_89
- Track 253 : Patience_91
- Track 254 : Labelle_90
- Track 255 : JeanGrey_95
- Track 256 : E3_gp154
- Track 257 : Cantare_64
- Track 258 : 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 162 of the 454 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Aaronocolus_53, Ading_210, Amataga_210, Asten_54, Asterius_205, Atlantean_209, Audrick_211, Ava3_208, Babyland_212, BadAgartude_203, BananaFence_206, BarryBee_57, Basquiat_206, BeardedLady_53, Bipolarisk_207,

Blackbrain_206, Blackdragon_204, Blubba_205, Bonray_211, Bovely_53, Brataylor_57, BryanRecycles_55, Bxz1_199, Cactojaque_204, Caliburn_52, Cane17_200, Capablanca_214, Catera_201, Celeste_56, Celia_53, Chargie21_206, ChaylaJr_206, CherryTomatoes_154, ChickenPhender_205, Chomp_208, Chucky_54, CindyLou_210, Colt_200, Concombre_214, Danzina_56, Darko_208, Dattran_57, Delilah_207, DirtMonster_202, DrPhinkDaddy_206, Dwayne_54, E3_gp154, Eddasa_55, Ejemplo_52, EmToTheThree_209, Emaanora_57, EmmaElysia_212, EnochSoames_57, Esperer_53, Essence_206, Ewok_208, Flabslab_204, Fludd_209, FoxtrotP1_207, FrayBell_212, Gabriel_212, Gamgam_210, Goby_55, Godpower_56, Grungle_193, Halldule_202, Hippo_54, HyRo_197, Hydra_54, IkeLoa_201, Indigo_52, InigoMontoya_212, InterFolia_212, Iota_204, Issimir_205, Itza_54, Izajani_207, Izzy_55, Janiyra_212, Jash_55, JayJay_207, Jessibeth14_209, JustHall_203, Kamryn_208, Katalie_54, Kboogie_213, Khaleesi_208, Lannister_54, Latch_209, Lee7_209, Legacy_52, Leviticus_53, Loanshark_206, LolaVinca_207, LordLeafolot_211, Maby2021_209, Maneekul_54, Matsumoto_208, McWolfish_206, Melpomini_204, MikeLiesIn_211, Mikro_205, Momo_210, Morizzled23_206, Nabi_55, Naija_210, Nanodon_56, Napoleon13_206, Naval22_214, NedWong_208, Nerdos_52, Ngannou_206, Nidhogg_210, NoodleTree_215, Norm_209, NuevoMundo_212, Oliynyk_55, Ozzie_52, OzzyJ_56, ParkTD_208, Patter_210, Phettuccine_53, Phlegm_213, Phusco_207, Pivoine_210, Pupper_153, PurduePete_209, QBert_201, Quasimodo_211, Rahel_210, RedBear_55, RoMag_204, Ronan_205, Rusticus_55, SCentae_152, SarahRose_54, Sauce_205, ScottMcG_202, Shaqnato_200, Shelob_210, ShiaLabeouf_206, Shifa_186, Shnickers_207, Skog_212, SmallFry_209, Snorlax_54, South40_54, Spec_204, Specks_213, Sprinklers_207, Spud_203, SrishMeg2525_206, StephanieG_205, StubbySaigey_214, Stubby_193, Sujidade_55, SunsetPointe_52, TagePhighter_56, Teardrop_206, TinyTim_207, Toma_55, Tortoise16_207, Trinitium_205, Triste_55, TuanPN_52, Turret_202, Unstoppable_53, Urza_53, ValleyTerrace_210, VieEnRose_54, Werner_54, Whatever_54, Willis_210, Yassified_206, YemiJoy2021_210, YoungMoneyMata_207, Zeenon_211,

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

- Adlitam_208, Alice_196, ArcherS7_209, Astraea_203, BackyardAgain_204, Bangla1971_209, BeanWater_201, BigCity_218, Bigswole_214, Bread_204, Breeniome_208, Burrough_211, Cali_202, Caravan_200, CharlieB_203, DTDevon_211, Daffodil_214, Dandelion_217, Delylah_211, Derek_206, Dietrick_198, Drazdys_207, ET08_197, EasyJones_212, EggyFarm_218, Erdmann_210, ErnieJ_202, FudgeTart_204, Ghost_209, Gizmo_215, Grasshills_217, Guwapp_204, I3_219, JPickles_205, Jaygup_205, Jedediah_209, Jemmno_208, JulietS_202, Koguma_208, LRRHood_202, LifeSavor_208, LinStu_208, Littleton_212, Lorelei_55, Lukilu_200, Mangeria_210, McGee_208, Megamind_206, MoMoMixon_207, Nappy_210, Phox_210, Phrappuccino_119, Pier_210, Pinkcreek_193, Pio_217, Pleione_213, Rabinovish_202, Rizal_201, Roots515_211, Salacia_209, Sebata_210, Settecandela_119, Shrimp_211, SilverDipper_213, Tyke_207, Wally_207, Yasdnil_54, Yucca_209, Zalkecks_208, ZygoTaiga_206,

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

- Adjutor_65, Alephilan_79, Aloki_92, Alyssmiracle_81, Amabiko_82, Anedea_78, Angela_76, Annadreamy_58, Apeppi_73, Apiary_59, Arti_59, Avian_78, Barnyard_80, Bartholomune_78, Battuta_80, Beckerton_76, Belfort_62, Beuffert_58, BiPauneto_61, BigMama_65, BillNye_56, Birchlyn_79, BirthdayBoy_81, BlueOtter_82, Blueeyedbeauty_60, Bmoc_78, Bonum_63, BoomerJR_82,

Bordeaux_80, Braelyn_79, Braxoaddie_59, Buggaboo_61, Butterscotch_65, C3PO_43, Cantare_64, Cborch11_78, CeilingFan_84, Chidiebere_98, Chill_69, ChisanaKitsune_95, Circinus_58, CoffeeBean_59, Commandaria_61, Comrade_61, Cross_80, Cruella_43, Cursive_78, DalanDe_85, Dalilpop_64, Damien_77, Darwin_47, Daubenski_81, DaviePasture_79, Delton_67, DoobyDoo_76, Dorin_75, DrLupo_85, Dryad_56, DumpTruck_80, EGole_81, Elmer_90, Emianna_60, Emma1919_62, Ennea_66, Enygma_82, Erk16_66, Erutan_79, Evy_80, Faust_61, Finch_77, Flapper_64, Float294_60, FlyingTortilla_99, Forrest_62, Foxboro_61, Francesca_77, Francob_59, Fulcrum_78, Fury_67, GMA6_80, GOATification_78, GRU1_49, GTE5_49, GTE8_48, Genamy16_81, Genie2_82, Gibbi_86, Gibbin_81, Gibson_51, Gilson_61, Giuseppe_68, Gray_98, Grayson_103, Greely_198, Gretellyn_79, GrootJr_62, Gumball_66, GuyFagieri_58, Hanem_97, HangryHippo_82, Hawkeye_75, Helpful_70, HubbaBubba_55, IDyn_59, IchabodCrane_79, Indlulamithi_76, Jada_60, Jalebi_78, Jamemuya19_79, Jay2Jay_84, JeanGrey_95, Jifall16_59, JimJam_82, Jollison_86, Kabluna_63, Kabocha_99, KandZ_65, Karimac_81, Karp_59, Kenrey_62, KentuckyRacer_85, KidneyBean_60, Kimchi1738_43, Konstantine_80, Kurt_60, Labelle_90, Lambo_77, Larnav_85, Leo04_81, Liandry_78, Lika_54, LilMartin_77, Lila22_83, Limpid_57, Lizz_51, Lollipop1437_64, LuckyLeo_75, LukeCage_81, Lululemon_81, Madruga_89, Marietta_61, Maselop_59, MeganTheeKilla_59, Megatron06_78, MerCougar_61, Mildred21_78, Mima20_79, MindFlayer_79, Moab_61, MoiGyank_84, Mopey_68, Mugiwara_83, MulchMansion_77, Muntaha_58, Myrna_192, NadineRae_59, NatB6_60, Navo_77, NiceHouse_90, NootNoot_75, NorManre_84, NosilaM_62, NovaSharks_80, Nova_66, NovumRegina_60, Oaker_77, Oogie_96, OtterstedtS21_79, Outis_61, PBI1_63, PHTown_51, PLOT_66, PacManQ_81, Pakusa_93, Paradiddles_75, ParvusTarda_77, Patelgo_60, Patience_91, Patio_62, Patos_84, Peebs_79, Penelope2018_67, Pepperwood_80, Peregrin_100, Persimmon_77, PeteyPab_45, Phabba_203, Phomeo_59, Phredrick_60, Phreeze_76, PinkiePie_78, Pleakley_67, Polyuyuki_59, PotatoChip_46, Prager_67, Predator_76, PumpkinSpice_81, Quarant19_81, Rana_55, Ranch_80, RedWattleHog_79, Rooney_51, Rumi_79, Sadboi_79, SaltySpittoon_81, Samisti12_80, Sampudon_80, ScarletRaider_99, Schomber_96, ScoobyDoobyDoo_190, SeresaTree_61, ShakeNBake_51, Sham_57, SirHarley_69, Skysand_61, Sollertia_82, SparkleGoddess_61, Spelly_82, Spilled_83, Squillium_79, Stanimal_82, StarPlatinum_82, StarStruck_61, Starbow_80, Stickynote_45, Stigma_60, Stormageddon_76, Sukkupi_60, SuperSulley_61, Sushi23_79, Targaryen_80, Deutsch_80, Thoth_67, Thumb_78, Tillicus_73, TomSawyer_80, Tomas_84, Tonenili_231, Tracker_60, Tribute_78, Trina_102, Troll4_66, TunaTartare_59, Turuncu_63, UBSmoodge_101, Visconti_68, Wakanda_57, WaldoWhy_69, Warpy_83, Watermoore_80, Weasels2_102, Wentworth_52, Wheezy_60, WhereRU_79, WhoseManz_60, Wilkos_53, Wipeout_79, Wofford_81, Wojtek_72, Xenia2_78, Yaboi_82, Yara_46, Yikes_80, Yndexa_60, Zany_76, Zemlya_55, Zion_46,

Summary by start number:

Start 18:

- Found in 20 of 514 (3.9%) of genes in pham
- Manual Annotations of this start: 4 of 454
- Called 20.0% of time when present
- Phage (with cluster) where this start called: CharlieB_203 (C1), ET08_197 (C1), LRRHood_202 (C1), Lukilu_200 (C1),

Start 26:

- Found in 184 of 514 (35.8%) of genes in pham
- Manual Annotations of this start: 44 of 454
- Called 23.9% of time when present
- Phage (with cluster) where this start called: ArcherS7_209 (C1), Astraea_203 (C1), BackyardAgain_204 (C1), Bangla1971_209 (C1), Bread_204 (C1), Breeniome_208 (C1), Burrough_211 (C1), Caravan_200 (C1), DTDevon_211 (C1), Daffodil_214 (C1), Dandelion_217 (C1), Delylah_211 (C1), Derek_206 (C1), Drazdys_207 (C1), EasyJones_212 (C1), Erdmann_210 (C1), ErnieJ_202 (C1), FudgeTart_204 (C1), Gizmo_215 (C1), Guwapp_204 (C1), I3_219 (C1), JPickles_205 (C1), Jedediah_209 (C1), Koguma_208 (C1), LifeSavor_208 (C1), Littleton_212 (C1), Mangeria_210 (C1), McGee_208 (C1), Megamind_206 (C1), Nappy_210 (C1), Phox_210 (C1), Pinkcreek_193 (C1), Pio_217 (C1), Rabinovish_202 (C1), Rizal_201 (C1), Roots515_211 (C1), 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 183 of 514 (35.6%) of genes in pham
- Manual Annotations of this start: 6 of 454
- Called 3.3% of time when present
- Phage (with cluster) where this start called: Alice_196 (C1), Cali_202 (C1), Ghost_209 (C1), MoMoMixon_207 (C1), Pleione_213 (C1), Sebata_210 (C1),

Start 29:

- Found in 22 of 514 (4.3%) of genes in pham
- Manual Annotations of this start: 19 of 454
- Called 90.9% 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), Prager_67 (D1), SirHarley_69 (D1), Thoth_67 (D1), Troll4_66 (D1), Visconti_68 (D1), WaldoWhy_69 (D1),

Start 30:

- Found in 2 of 514 (0.4%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: GMA6_80 (DQ),

Start 32:

- Found in 183 of 514 (35.6%) of genes in pham
- Manual Annotations of this start: 8 of 454
- Called 6.6% 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), JulietS_202 (C1), LinStu_208 (C1), Pier_210 (C1),

Start 36:

- Found in 35 of 514 (6.8%) of genes in pham
- Manual Annotations of this start: 1 of 454

- Called 2.9% of time when present
- Phage (with cluster) where this start called: Lorelei_55 (BD1),

Start 40:

- Found in 2 of 514 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 454
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fury_67 (CR5), Pleakley_67 (CR5),

Start 42:

- Found in 2 of 514 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 454
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phrappuccino_119 (AA), Settecandela_119 (AA),

Start 49:

- Found in 10 of 514 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 454
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Chidiebere_98 (DQ), Pakusa_93 (DQ),

Start 53:

- Found in 9 of 514 (1.8%) of genes in pham
- Manual Annotations of this start: 1 of 454
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Oaker_77 (H1),

Start 56:

- Found in 12 of 514 (2.3%) of genes in pham
- Manual Annotations of this start: 2 of 454
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Cantare_64 (singleton), DalanDe_85 (DQ),

Start 57:

- Found in 5 of 514 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 454
- Called 20.0% of time when present
- Phage (with cluster) where this start called: DrLupo_85 (H2),

Start 58:

- Found in 13 of 514 (2.5%) of genes in pham
- Manual Annotations of this start: 5 of 454
- Called 84.6% of time when present
- Phage (with cluster) where this start called: Aloki_92 (DQ), ChisanaKitsune_95 (DQ), FlyingTortilla_99 (DQ), Gray_98 (DQ), Hanem_97 (DQ), JeanGrey_95 (singleton), Kabocha_99 (DQ), Oogie_96 (DQ), ScarletRaider_99 (DQ), Schomber_96 (DQ), UBSmoodge_101 (DQ),

Start 62:

- Found in 8 of 514 (1.6%) of genes in pham
- No Manual Annotations of this start.

- Called 12.5% of time when present
- Phage (with cluster) where this start called: Wilkos_53 (BN),

Start 63:

- Found in 4 of 514 (0.8%) of genes in pham
- Manual Annotations of this start: 3 of 454
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Greely_198 (C2), Myrna_192 (C2), Phabba_203 (C2), ScoobyDoobyDoo_190 (C2),

Start 64:

- Found in 22 of 514 (4.3%) of genes in pham
- Manual Annotations of this start: 1 of 454
- Called 4.5% of time when present
- Phage (with cluster) where this start called: Indlulamithi_76 (AC),

Start 67:

- Found in 22 of 514 (4.3%) of genes in pham
- Manual Annotations of this start: 1 of 454
- Called 9.1% of time when present
- Phage (with cluster) where this start called: Dorin_75 (CG), Francesca_77 (CG),

Start 68:

- Found in 247 of 514 (48.1%) of genes in pham
- Manual Annotations of this start: 162 of 454
- Called 71.7% of time when present
- Phage (with cluster) where this start called: Aaronocolus_53 (BD1), Ading_210 (C1), Amataga_210 (C1), Asten_54 (BD1), Asterius_205 (C1), Atlantean_209 (C1), Audrick_211 (C1), Ava3_208 (C1), Babyland_212 (C1), BadAgartude_203 (C1), BananaFence_206 (C1), BarryBee_57 (BD1), Basquiat_206 (C1), BeardedLady_53 (BD1), Bipolarisk_207 (C1), Blackbrain_206 (C1), Blackdragon_204 (C1), Blubba_205 (C1), Bonray_211 (C1), Bovely_53 (BD1), Brataylor_57 (BD1), BryanRecycles_55 (BD1), Bxz1_199 (C1), Cactojaque_204 (C1), Caliburn_52 (BD1), Cane17_200 (C1), Capablanca_214 (C1), Catera_201 (C1), Celeste_56 (BD1), Celia_53 (BD6), Chargie21_206 (C1), ChaylaJr_206 (C1), CherryTomatoes_154 (DO), ChickenPhender_205 (C1), Chomp_208 (C1), Chucky_54 (BD1), CindyLou_210 (C1), Colt_200 (C1), Concombre_214 (C1), Danzina_56 (BD1), Darko_208 (C1), Dattran_57 (BD1), Delilah_207 (C1), DirtMonster_202 (C1), DrPhinkDaddy_206 (C1), Dwayne_54 (BD1), E3_gp154 (singleton), Eddasa_55 (BD1), Ejemplo_52 (BD1), EmToTheThree_209 (C1), Emaanora_57 (BD1), EmmaElysia_212 (C1), EnochSoames_57 (BD1), Esperer_53 (BD1), Essence_206 (C1), Ewok_208 (C1), Flabslab_204 (C1), Fludd_209 (C1), FoxtrotP1_207 (C1), FrayBell_212 (C1), Gabriel_212 (C1), Gangam_210 (C1), Goby_55 (BD1), Godpower_56 (BD1), Grungle_193 (C1), Halldule_202 (C1), Hippo_54 (BD1), HyRo_197 (C1), Hydra_54 (BD1), IkeLoa_201 (C1), Indigo_52 (BD1), InigoMontoya_212 (C1), InterFolia_212 (C1), Iota_204 (C1), Issimir_205 (C1), Itza_54 (BD6), Izajani_207 (C1), Izzy_55 (BD1), Janiyra_212 (C1), Jash_55 (BD1), JayJay_207 (C1), Jessibeth14_209 (C1), JustHall_203 (C1), Kamryn_208 (C1), Katalie_54 (BD1), Kboogie_213 (C1), Khaleesi_208 (C1), Lannister_54 (BD1), Latch_209 (C1), Lee7_209 (C1), Legacy_52 (BD1), Leviticus_53 (BD1), Loanshark_206 (C1), LolaVinca_207 (C1), LordLeafolot_211 (C1), Maby2021_209 (C1), Maneekul_54 (BD1), Matsumoto_208 (C1), McWolfish_206 (C1), Melpomini_204 (C1), MikeLiesIn_211 (C1), Mikro_205 (C1), Momo_210 (C1),

Morizzled23_206 (C1), Nabi_55 (BD1), Naija_210 (C1), Nanodon_56 (BD1), Napoleon13_206 (C1), Naval22_214 (C1), NedWong_208 (C1), Nerdos_52 (BD1), Ngannou_206 (C1), Nidhogg_210 (C1), NoodleTree_215 (C1), Norm_209 (C1), NuevoMundo_212 (C1), Olynyk_55 (BD1), Ozzie_52 (BD1), OzzyJ_56 (BD1), ParkTD_208 (C1), Patter_210 (C1), Phettuccine_53 (BD1), Phlegm_213 (C1), Phusco_207 (C1), Pivoine_210 (C1), Pupper_153 (DO), PurduePete_209 (C1), QBert_201 (C1), Quasimodo_211 (C1), Rahel_210 (C1), RedBear_55 (BD1), RoMag_204 (C1), Ronan_205 (C1), Rusticus_55 (BD1), SCentae_152 (DO), SarahRose_54 (BD1), Sauce_205 (C1), ScottMcG_202 (C1), Shaq nato_200 (C1), Shelob_210 (C1), ShiaLabeouf_206 (C1), Shifa_186 (C1), Shnickers_207 (C1), Skog_212 (DO), SmallFry_209 (C1), Snorlax_54 (BD1), South40_54 (BD1), Spec_204 (C1), Specks_213 (C1), Sprinklers_207 (C1), Spud_203 (C1), SrishMeg2525_206 (C1), StephanieG_205 (C1), StubbySaigey_214 (C1), Stubby_193 (C1), Sujidade_55 (BD1), SunsetPointe_52 (BD1), TAgePhighter_56 (BD1), Teardrop_206 (C1), TinyTim_207 (C1), Toma_55 (BD1), Tortoise16_207 (C1), Trinitium_205 (C1), Triste_55 (BD1), TuanPN_52 (BD1), Turret_202 (C1), Unstoppable_53 (BD1), Urza_53 (BD6), ValleyTerrace_210 (C1), VieEnRose_54 (BD6), Werner_54 (BD1), Whatever_54 (BD1), Willis_210 (C1), Yassified_206 (C1), YemiJoy2021_210 (C1), YoungMoneyMata_207 (C1), Zeenon_211 (C1),

Start 69:

- Found in 32 of 514 (6.2%) of genes in pham
- Manual Annotations of this start: 26 of 454
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amabiko_82 (BE2), Battuta_80 (BE2), Birchlyn_79 (BE2), BoomerJR_82 (BE2), Bordeaux_80 (BE2), CeilingFan_84 (BE2), Elmer_90 (BE2), Enygma_82 (BE2), Genie2_82 (BE2), Gibbi_86 (BE2), IchabodCrane_79 (BE2), JimJam_82 (BE2), Jollison_86 (BE2), Karimac_81 (BE2), KentuckyRacer_85 (BE2), LukeCage_81 (BE2), MindFlayer_79 (BE2), Mugiwara_83 (BE2), PumpkinSpice_81 (BE2), Quarant19_81 (BE2), SaltySpittoon_81 (BE2), Sollertia_82 (BE2), Spelly_82 (BE2), Spilled_83 (BE2), Stanimal_82 (BE2), StarPlatinum_82 (BE2), Starbow_80 (BE2), TomSawyer_80 (BE2), Tomas_84 (BE2), Wipeout_79 (BE2), Wofford_81 (BE2), Yaboi_82 (BE2),

Start 70:

- Found in 67 of 514 (13.0%) of genes in pham
- Manual Annotations of this start: 57 of 454
- Called 95.5% of time when present
- Phage (with cluster) where this start called: Anedea_78 (BE1), Angela_76 (BE1), Annadreamy_58 (BK1), Bartholomune_78 (BE1), Belfort_62 (BK1), Beuffert_58 (BK1), BillNye_56 (BK2), BlueOtter_82 (BE1), Bmoc_78 (BE1), Braelyn_79 (BE1), Circinus_58 (BK2), Comrade_61 (BK1), Cross_80 (BE1), Cursive_78 (BE1), Daubenski_81 (BE1), EGole_81 (BE1), Emma1919_62 (BK1), Evy_80 (BE1), Faust_61 (BK1), Forrest_62 (BK1), Francob_59 (BK1), Gilson_61 (BK1), HangryHippo_82 (BE1), Jada_60 (BK1), Jay2Jay_84 (BE1), Karp_59 (BK1), Kenrey_62 (BK1), Larnav_85 (BE1), Leo04_81 (BE1), Liandry_78 (BE1), LilMartin_77 (BE1), Limpid_57 (BK1), Lululemon_81 (BE1), MeganTheeKilla_59 (BK1), Mildred21_78 (BE1), Moab_61 (BK1), MulchMansion_77 (BE1), Muntaha_58 (BK2), Navo_77 (BE1), NootNoot_75 (BE1), PacManQ_81 (BE1), Paradiddles_75 (BE1), Patelgo_60 (BK1), Peebs_79 (BE1), Pepperwood_80 (BE1), Persimmon_77 (BE1), Phredrick_60 (BK1), PinkiePie_78 (BE1), Samisti12_80 (BE1), SeresaTree_61 (BK1), Sham_57 (BK1), SparkleGoddess_61 (BK1), Squillium_79 (BE1), Stigma_60 (BK1), Sushi23_79 (BE1), Targaryen_80 (BE1), Teutsch_80 (BE1), Tonenili_231 (C1),

Tribute_78 (BE1), TunaTartare_59 (BK1), Wakanda_57 (BK2), Warpy_83 (BE1), Watermoore_80 (BE1), WhereRU_79 (BE1),

Start 71:

- Found in 5 of 514 (1.0%) of genes in pham
- Manual Annotations of this start: 4 of 454
- 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 72:

- Found in 2 of 514 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 454
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Finch_77 (singleton),

Start 73:

- Found in 130 of 514 (25.3%) of genes in pham
- Manual Annotations of this start: 88 of 454
- Called 73.8% of time when present
- Phage (with cluster) where this start called: Alyssamiracle_81 (DV), Apiary_59 (CR), Arti_59 (CR2), Avian_78 (DV), Barnyard_80 (H2), Beckerton_76 (H1), BiPauneto_61 (CR4), BirthdayBoy_81 (DV), Bonum_63 (CR2), Braxoaddie_59 (CR), Buggaboo_61 (CR2), C3PO_43 (EN), Cborch11_78 (H1), CoffeeBean_59 (CR), 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), Gibbin_81 (DV), Gibson_51 (BN), GretelLyn_79 (DV), GrootJr_62 (CR2), GuyFagieri_58 (CR), HubbaBubba_55 (CR4), IDyn_59 (CR4), Jalebi_78 (DV), Jamemuya19_79 (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), Lika_54 (BD1), Lizz_51 (BN), Lollipop1437_64 (CR3), LuckyLeo_75 (DV), Madruga_89 (U), Marietta_61 (CR4), Maselop_59 (CR), Megatron06_78 (H1), MerCougar_61 (CR2), MoiGyank_84 (DV), NadineRae_59 (CR4), NatB6_60 (CR2), NiceHouse_90 (CE), 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), PeteyPab_45 (EN), Phomeo_59 (CR2), Phreeze_76 (H1), Polyuyuki_59 (CR), PotatoChip_46 (EN), Predator_76 (H1), Rooney_51 (BN), Rumi_79 (DV), Sadboi_79 (DV), Sampudon_80 (DV), ShakeNBake_51 (BN), Skysand_61 (CR3), StarStruck_61 (CR2), Stickynote_45 (EN), Sukkupi_60 (CR4), SuperSulley_61 (CR2), Thumb_78 (H1), Tracker_60 (CR2), Turuncu_63 (CR1), 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 78:

- Found in 4 of 514 (0.8%) of genes in pham
- Manual Annotations of this start: 4 of 454
- 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 82:

- Found in 63 of 514 (12.3%) of genes in pham
- Manual Annotations of this start: 1 of 454
- Called 3.2% of time when present
- Phage (with cluster) where this start called: Alephilan_79 (DV), Yasdnil_54 (BD1),

Start 85:

- Found in 129 of 514 (25.1%) of genes in pham
- No Manual Annotations of this start.
- Called 1.6% of time when present
- Phage (with cluster) where this start called: Apeppi_73 (DV), Tillicus_73 (DV),

Start 89:

- Found in 257 of 514 (50.0%) of genes in pham
- Manual Annotations of this start: 6 of 454
- Called 4.3% of time when present
- Phage (with cluster) where this start called: Blueeyedbeauty_60 (BK1), Damien_77 (H1), DoobyDoo_76 (DV), GRU1_49 (CR1), Genamy16_81 (DV), Lila22_83 (DV), Mima20_79 (DV), NovaSharks_80 (DV), OtterstedtS21_79 (DV), Wojtek_72 (DV), Xenia2_78 (DV),

Start 264:

- Found in 3 of 514 (0.6%) of genes in pham
- Manual Annotations of this start: 3 of 454
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Grayson_103 (CB), Peregrin_100 (CB), Weasels2_102 (CB),

Start 265:

- Found in 1 of 514 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 454
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Trina_102 (CE),

Summary by clusters:

There are 31 clusters represented in this pham: DO, singleton, BN, DX, DV, DQ, BD6, BD1, C2, C1, AA, AC, EN, CB, CG, CE, U, BK1, BK2, CR, CR2, CR3, CR1, CR4, CR5, H2, H1, BE2, BE1, D2, D1,

Info for manual annotations of cluster AA:

- Start number 42 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster AC:

- Start number 64 was manually annotated 1 time for cluster AC.

Info for manual annotations of cluster BD1:

- Start number 36 was manually annotated 1 time for cluster BD1.
- Start number 68 was manually annotated 50 times for cluster BD1.
- Start number 71 was manually annotated 2 times for cluster BD1.
- Start number 73 was manually annotated 1 time for cluster BD1.
- Start number 82 was manually annotated 1 time for cluster BD1.

Info for manual annotations of cluster BD6:

- Start number 68 was manually annotated 4 times for cluster BD6.

Info for manual annotations of cluster BE1:

- Start number 70 was manually annotated 31 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 69 was manually annotated 26 times for cluster BE2.

Info for manual annotations of cluster BK1:

- Start number 70 was manually annotated 21 times for cluster BK1.
- Start number 89 was manually annotated 1 time for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 70 was manually annotated 4 times for cluster BK2.

Info for manual annotations of cluster BN:

- Start number 73 was manually annotated 8 times for cluster BN.

Info for manual annotations of cluster C1:

- Start number 18 was manually annotated 4 times for cluster C1.
- Start number 26 was manually annotated 44 times for cluster C1.
- Start number 28 was manually annotated 6 times for cluster C1.
- Start number 32 was manually annotated 8 times for cluster C1.
- Start number 68 was manually annotated 104 times for cluster C1.
- Start number 70 was manually annotated 1 time for cluster C1.

Info for manual annotations of cluster C2:

- Start number 63 was manually annotated 3 times for cluster C2.

Info for manual annotations of cluster CB:

- Start number 264 was manually annotated 3 times for cluster CB.

Info for manual annotations of cluster CE:

- Start number 73 was manually annotated 1 time for cluster CE.
- Start number 265 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster CG:

- Start number 67 was manually annotated 1 time for cluster CG.

Info for manual annotations of cluster CR:

- Start number 73 was manually annotated 6 times for cluster CR.

Info for manual annotations of cluster CR1:

- Start number 73 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:

- Start number 73 was manually annotated 20 times for cluster CR2.

Info for manual annotations of cluster CR3:

- Start number 73 was manually annotated 5 times for cluster CR3.

Info for manual annotations of cluster CR4:

- Start number 73 was manually annotated 7 times for cluster CR4.

Info for manual annotations of cluster CR5:

- Start number 40 was manually annotated 2 times for cluster CR5.

Info for manual annotations of cluster D1:

- Start number 29 was manually annotated 18 times for cluster D1.
- Start number 73 was manually annotated 2 times for cluster D1.

Info for manual annotations of cluster D2:

- Start number 29 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 49 was manually annotated 1 time for cluster DQ.
- Start number 56 was manually annotated 1 time for cluster DQ.
- Start number 58 was manually annotated 5 times for cluster DQ.

Info for manual annotations of cluster DV:

- Start number 73 was manually annotated 16 times for cluster DV.
- Start number 78 was manually annotated 4 times for cluster DV.
- Start number 89 was manually annotated 4 times for cluster DV.

Info for manual annotations of cluster DX:

- Start number 71 was manually annotated 2 times for cluster DX.

Info for manual annotations of cluster EN:

- Start number 73 was manually annotated 8 times for cluster EN.

Info for manual annotations of cluster H1:

- Start number 53 was manually annotated 1 time for cluster H1.
- Start number 73 was manually annotated 7 times for cluster H1.
- Start number 89 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 73 was manually annotated 1 time for cluster H2.

Info for manual annotations of cluster U:

- Start number 73 was manually annotated 3 times for cluster U.

Gene Information:

Gene: Aaronocolus_53 Start: 40236, Stop: 36757, Start Num: 68

Candidate Starts for Aaronocolus_53:

(6, 40446), (Start: 68 @40236 has 162 MA's), (84, 40164), (Start: 89 @40137 has 6 MA's), (91, 40122), (123, 39960), (126, 39933), (128, 39927), (144, 39837), (150, 39822), (160, 39768), (161, 39765), (188, 39669), (218, 39591), (247, 39444), (257, 39405), (269, 39360), (276, 39339), (283, 39324), (304, 39282), (308, 39270), (325, 39204), (329, 39192), (343, 39129), (359, 39000), (360, 38991), (366, 38955), (381, 38871), (383, 38853), (398, 38796), (399, 38793), (401, 38781), (438,

38643), (439, 38637), (440, 38622), (442, 38616), (449, 38583), (468, 38505), (474, 38472), (512, 38331), (530, 38274), (534, 38250), (535, 38244), (546, 38175), (558, 38112), (574, 38046), (578, 38025), (583, 38007), (601, 37950), (602, 37941), (655, 37833), (657, 37824), (661, 37812), (663, 37791), (673, 37761), (678, 37734), (709, 37668), (711, 37659), (714, 37647), (747, 37560), (756, 37536), (772, 37488), (812, 37344), (832, 37269), (880, 37095), (887, 37059), (899, 37011), (908, 36978),

Gene: Ading_210 Start: 113961, Stop: 117356, Start Num: 68

Candidate Starts for Ading_210:

(Start: 26 @113868 has 44 MA's), (Start: 28 @113874 has 6 MA's), (Start: 32 @113886 has 8 MA's), (37, 113895), (Start: 68 @113961 has 162 MA's), (84, 114036), (103, 114150), (109, 114174), (127, 114234), (151, 114345), (157, 114384), (164, 114408), (173, 114450), (203, 114549), (214, 114591), (216, 114597), (219, 114609), (229, 114672), (242, 114732), (243, 114735), (250, 114762), (261, 114804), (279, 114867), (321, 114987), (330, 115023), (335, 115041), (338, 115056), (351, 115173), (357, 115212), (372, 115332), (380, 115374), (389, 115419), (391, 115428), (402, 115479), (414, 115521), (432, 115587), (434, 115596), (435, 115599), (436, 115605), (437, 115608), (438, 115617), (439, 115623), (440, 115638), (462, 115725), (483, 115830), (495, 115884), (510, 115971), (516, 116001), (526, 116031), (533, 116064), (535, 116073), (546, 116145), (552, 116175), (577, 116292), (589, 116337), (601, 116379), (660, 116523), (675, 116583), (715, 116685), (750, 116772), (751, 116775), (761, 116793), (771, 116829), (772, 116832), (793, 116892), (798, 116910), (827, 117006), (836, 117036), (839, 117054), (846, 117084), (879, 117177), (883, 117192), (900, 117273), (902, 117279), (905, 117291),

Gene: Adjutor_65 Start: 49699, Stop: 53001, Start Num: 29

Candidate Starts for Adjutor_65:

(Start: 29 @49699 has 19 MA's), (Start: 64 @49786 has 1 MA's), (Start: 67 @49792 has 1 MA's), (Start: 73 @49801 has 88 MA's), (Start: 89 @49897 has 6 MA's), (130, 50053), (148, 50140), (149, 50143), (159, 50194), (224, 50458), (232, 50497), (249, 50569), (252, 50578), (270, 50653), (292, 50719), (294, 50725), (309, 50779), (316, 50797), (325, 50848), (326, 50851), (334, 50881), (349, 50965), (350, 50974), (354, 51001), (356, 51016), (382, 51193), (383, 51202), (412, 51307), (438, 51388), (448, 51448), (466, 51523), (472, 51556), (473, 51562), (478, 51583), (481, 51592), (494, 51637), (514, 51706), (520, 51721), (536, 51790), (547, 51853), (556, 51886), (557, 51889), (568, 51940), (584, 52015), (643, 52138), (651, 52156), (668, 52234), (669, 52237), (671, 52249), (685, 52294), (695, 52315), (699, 52327), (711, 52357), (717, 52378), (777, 52450), (798, 52507), (826, 52606), (844, 52672), (875, 52762), (882, 52795), (887, 52825), (896, 52870), (907, 52912), (914, 52942), (918, 52954), (922, 52969), (925, 52978),

Gene: Adlitam_208 Start: 112490, Stop: 115960, Start Num: 32

Candidate Starts for Adlitam_208:

(Start: 26 @112472 has 44 MA's), (Start: 28 @112478 has 6 MA's), (Start: 32 @112490 has 8 MA's), (37, 112499), (Start: 68 @112565 has 162 MA's), (84, 112640), (103, 112754), (109, 112778), (127, 112838), (151, 112949), (157, 112988), (164, 113012), (173, 113054), (203, 113153), (214, 113195), (216, 113201), (219, 113213), (229, 113276), (242, 113336), (243, 113339), (250, 113366), (261, 113408), (279, 113471), (321, 113591), (330, 113627), (335, 113645), (338, 113660), (351, 113777), (357, 113816), (372, 113936), (380, 113978), (389, 114023), (391, 114032), (402, 114083), (414, 114125), (432, 114191), (434, 114200), (435, 114203), (436, 114209), (437, 114212), (438, 114221), (439, 114227), (440, 114242), (462, 114329), (483, 114434), (495, 114488), (510, 114575), (516, 114605), (526, 114635), (533, 114668), (535, 114677), (546, 114749), (552, 114779), (577, 114896), (589, 114941), (601, 114983), (660, 115127), (675, 115187), (715, 115289), (750, 115376), (751, 115379), (761, 115397), (771, 115433), (772, 115436), (793, 115496), (798, 115514), (827, 115610), (836, 115640), (839, 115658), (846, 115688), (879, 115781), (883, 115796), (900, 115877), (902, 115883), (905, 115895),

Gene: Alephilan_79 Start: 52529, Stop: 55810, Start Num: 82

Candidate Starts for Alephilan_79:

(Start: 82 @52529 has 1 MA's), (Start: 89 @52565 has 6 MA's), (93, 52610), (103, 52652), (166, 52913), (194, 53015), (205, 53048), (224, 53144), (288, 53414), (289, 53423), (316, 53531), (324, 53576), (335, 53618), (356, 53750), (357, 53753), (358, 53783), (372, 53873), (382, 53927), (404, 54026), (412, 54041), (429, 54083), (466, 54257), (472, 54290), (476, 54308), (481, 54326), (494, 54371), (495, 54374), (524, 54470), (534, 54512), (536, 54524), (541, 54560), (582, 54740), (596, 54782), (603, 54818), (643, 54872), (651, 54890), (669, 54986), (671, 54998), (738, 55187), (798, 55277), (827, 55382), (831, 55397), (836, 55412), (840, 55433), (844, 55445), (845, 55451), (846, 55454), (855, 55481), (873, 55526), (893, 55634), (906, 55679), (912, 55703), (922, 55739),

Gene: Alice_196 Start: 112446, Stop: 115928, Start Num: 28

Candidate Starts for Alice_196:

(Start: 26 @112440 has 44 MA's), (Start: 28 @112446 has 6 MA's), (Start: 32 @112458 has 8 MA's), (37, 112467), (Start: 68 @112533 has 162 MA's), (84, 112608), (103, 112722), (109, 112746), (127, 112806), (151, 112917), (157, 112956), (164, 112980), (173, 113022), (203, 113121), (214, 113163), (216, 113169), (219, 113181), (229, 113244), (242, 113304), (243, 113307), (250, 113334), (261, 113376), (279, 113439), (321, 113559), (330, 113595), (335, 113613), (338, 113628), (351, 113745), (357, 113784), (372, 113904), (380, 113946), (389, 113991), (391, 114000), (402, 114051), (414, 114093), (432, 114159), (434, 114168), (435, 114171), (436, 114177), (437, 114180), (438, 114189), (439, 114195), (440, 114210), (462, 114297), (483, 114402), (495, 114456), (510, 114543), (516, 114573), (526, 114603), (533, 114636), (535, 114645), (546, 114717), (552, 114747), (577, 114864), (589, 114909), (601, 114951), (660, 115095), (675, 115155), (715, 115257), (750, 115344), (751, 115347), (761, 115365), (771, 115401), (772, 115404), (793, 115464), (798, 115482), (827, 115578), (836, 115608), (839, 115626), (846, 115656), (879, 115749), (883, 115764), (900, 115845), (902, 115851), (905, 115863),

Gene: Alok_i_92 Start: 70036, Stop: 72849, Start Num: 58

Candidate Starts for Alok_i_92:

(Start: 49 @70021 has 1 MA's), (Start: 56 @70033 has 2 MA's), (Start: 58 @70036 has 5 MA's), (84, 70129), (92, 70189), (125, 70339), (126, 70342), (128, 70348), (147, 70447), (153, 70477), (154, 70480), (167, 70543), (173, 70564), (174, 70567), (183, 70594), (216, 70711), (218, 70720), (226, 70777), (229, 70786), (245, 70852), (262, 70918), (325, 71083), (330, 71101), (334, 71116), (336, 71122), (338, 71134), (345, 71161), (346, 71164), (353, 71224), (354, 71233), (355, 71236), (357, 71248), (360, 71293), (371, 71362), (374, 71386), (407, 71542), (413, 71560), (416, 71584), (423, 71602), (442, 71698), (450, 71740), (453, 71746), (462, 71782), (464, 71791), (467, 71809), (468, 71815), (472, 71839), (473, 71845), (474, 71848), (478, 71866), (479, 71869), (508, 71962), (519, 72007), (522, 72013), (528, 72037), (529, 72040), (531, 72049), (532, 72055), (534, 72067), (556, 72184), (558, 72202), (559, 72205), (562, 72214), (592, 72328), (597, 72343), (655, 72490), (659, 72502), (661, 72508), (669, 72541), (676, 72574), (680, 72592), (685, 72604), (689, 72613), (732, 72727), (737, 72739), (744, 72754), (768, 72829), (771, 72838),

Gene: Alyssamiracle_81 Start: 50715, Stop: 54056, Start Num: 73

Candidate Starts for Alyssamiracle_81:

(Start: 73 @50715 has 88 MA's), (Start: 82 @50775 has 1 MA's), (Start: 89 @50811 has 6 MA's), (93, 50856), (103, 50898), (166, 51159), (205, 51294), (224, 51390), (288, 51660), (289, 51669), (316, 51777), (324, 51822), (335, 51864), (348, 51942), (356, 51996), (357, 51999), (358, 52029), (372, 52119), (382, 52173), (404, 52272), (412, 52287), (429, 52329), (466, 52503), (472, 52536), (476, 52554), (481, 52572), (494, 52617), (495, 52620), (524, 52716), (534, 52758), (536, 52770), (541, 52806), (582, 52986), (596, 53028), (603, 53064), (639, 53106), (643, 53118), (651, 53136), (669, 53232), (671, 53244), (739, 53439), (798, 53523), (827, 53628), (831, 53643), (836, 53658), (840, 53679), (844, 53691), (845, 53697), (846, 53700), (855, 53727), (873, 53772), (893, 53880), (906, 53925), (912, 53949), (922, 53985),

Gene: Amabiko_82 Start: 58443, Stop: 61763, Start Num: 69

Candidate Starts for Amabiko_82:

(Start: 69 @58443 has 26 MA's), (80, 58494), (85, 58515), (Start: 89 @58539 has 6 MA's), (102, 58620), (146, 58818), (189, 58998), (200, 59046), (202, 59049), (213, 59103), (223, 59154), (225, 59172), (228, 59181), (236, 59217), (259, 59325), (262, 59334), (337, 59544), (349, 59613), (372, 59778), (387, 59856), (438, 60018), (454, 60105), (462, 60141), (478, 60225), (499, 60288), (502, 60297), (546, 60501), (559, 60555), (562, 60564), (566, 60582), (568, 60588), (607, 60771), (608, 60780), (619, 60804), (622, 60831), (648, 60939), (670, 61038), (696, 61128), (722, 61206), (732, 61248), (740, 61266), (759, 61308), (771, 61347), (773, 61353), (783, 61380), (791, 61419), (806, 61467), (809, 61476), (830, 61548), (836, 61569), (841, 61596), (842, 61599), (847, 61614), (858, 61647), (882, 61716),

Gene: Amataga_210 Start: 112377, Stop: 115772, Start Num: 68

Candidate Starts for Amataga_210:

(Start: 26 @112284 has 44 MA's), (Start: 28 @112290 has 6 MA's), (Start: 32 @112302 has 8 MA's), (37, 112311), (Start: 68 @112377 has 162 MA's), (84, 112452), (103, 112566), (109, 112590), (127, 112650), (151, 112761), (157, 112800), (164, 112824), (173, 112866), (203, 112965), (214, 113007), (216, 113013), (219, 113025), (229, 113088), (242, 113148), (243, 113151), (250, 113178), (261, 113220), (279, 113283), (321, 113403), (330, 113439), (335, 113457), (338, 113472), (351, 113589), (357, 113628), (372, 113748), (380, 113790), (389, 113835), (391, 113844), (402, 113895), (414, 113937), (432, 114003), (434, 114012), (435, 114015), (436, 114021), (437, 114024), (438, 114033), (439, 114039), (440, 114054), (462, 114141), (483, 114246), (495, 114300), (510, 114387), (516, 114417), (526, 114447), (533, 114480), (535, 114489), (546, 114561), (552, 114591), (577, 114708), (589, 114753), (601, 114795), (660, 114939), (675, 114999), (715, 115101), (750, 115188), (751, 115191), (761, 115209), (771, 115245), (772, 115248), (793, 115308), (798, 115326), (827, 115422), (836, 115452), (839, 115470), (846, 115500), (879, 115593), (883, 115608), (900, 115689), (902, 115695), (905, 115707),

Gene: Anedea_78 Start: 57982, Stop: 61266, Start Num: 70

Candidate Starts for Anedea_78:

(Start: 70 @57982 has 57 MA's), (79, 58027), (85, 58057), (Start: 89 @58081 has 6 MA's), (146, 58360), (156, 58399), (168, 58462), (189, 58540), (190, 58552), (213, 58645), (225, 58708), (227, 58714), (236, 58753), (262, 58870), (310, 58969), (337, 59080), (349, 59149), (355, 59188), (389, 59401), (439, 59536), (440, 59551), (460, 59641), (461, 59647), (462, 59653), (478, 59737), (499, 59800), (502, 59809), (508, 59836), (517, 59881), (534, 59944), (546, 60016), (559, 60070), (562, 60079), (564, 60088), (566, 60097), (568, 60103), (622, 60346), (636, 60397), (638, 60415), (641, 60427), (642, 60430), (759, 60811), (783, 60883), (791, 60922), (806, 60970), (830, 61051), (832, 61060), (842, 61102), (858, 61150), (864, 61165), (876, 61204),

Gene: Angela_76 Start: 57448, Stop: 60732, Start Num: 70

Candidate Starts for Angela_76:

(33, 57364), (43, 57391), (Start: 70 @57448 has 57 MA's), (79, 57493), (85, 57523), (88, 57541), (Start: 89 @57547 has 6 MA's), (146, 57826), (168, 57928), (189, 58006), (190, 58018), (213, 58111), (225, 58174), (227, 58180), (236, 58219), (262, 58336), (279, 58375), (310, 58435), (337, 58546), (345, 58576), (355, 58654), (383, 58843), (389, 58867), (394, 58888), (439, 59002), (440, 59017), (460, 59107), (461, 59113), (462, 59119), (466, 59143), (467, 59146), (478, 59203), (487, 59236), (499, 59266), (502, 59275), (517, 59347), (521, 59356), (534, 59410), (546, 59482), (559, 59536), (562, 59545), (564, 59554), (566, 59563), (568, 59569), (587, 59650), (622, 59812), (638, 59881), (641, 59893), (670, 60007), (757, 60268), (759, 60277), (791, 60388), (806, 60436), (830, 60517), (842, 60568), (858, 60616), (864, 60631),

Gene: Annadreamy_58 Start: 47706, Stop: 50996, Start Num: 70

Candidate Starts for Annadreamy_58:

(Start: 70 @47706 has 57 MA's), (85, 47778), (88, 47796), (Start: 89 @47802 has 6 MA's), (146, 48081), (159, 48141), (213, 48366), (225, 48429), (231, 48456), (234, 48471), (236, 48474), (337, 48801), (434, 49230), (439, 49257), (448, 49311), (461, 49368), (462, 49374), (502, 49530), (508, 49557), (517, 49602), (534, 49665), (544, 49734), (546, 49737), (559, 49791), (562, 49800), (564, 49809), (566, 49818), (568, 49824), (598, 49938), (608, 50016), (619, 50040), (626, 50076), (638, 50136), (640, 50142), (665, 50259), (686, 50328), (727, 50457), (731, 50469), (758, 50526), (759, 50532), (791, 50643), (793, 50652), (800, 50673), (811, 50703), (818, 50727), (820, 50736), (842, 50823), (861, 50874), (864, 50886), (888, 50973),

Gene: Apeppi_73 Start: 51270, Stop: 54536, Start Num: 85

Candidate Starts for Apeppi_73:

(Start: 73 @51198 has 88 MA's), (Start: 82 @51258 has 1 MA's), (85, 51270), (Start: 89 @51294 has 6 MA's), (103, 51381), (205, 51777), (224, 51873), (250, 51996), (288, 52143), (289, 52152), (295, 52185), (303, 52221), (316, 52263), (324, 52308), (335, 52350), (356, 52482), (357, 52485), (358, 52515), (366, 52566), (370, 52587), (372, 52605), (383, 52668), (404, 52758), (412, 52773), (417, 52794), (466, 52989), (472, 53022), (476, 53040), (494, 53103), (495, 53106), (513, 53169), (524, 53202), (534, 53244), (536, 53256), (541, 53292), (568, 53406), (582, 53472), (591, 53499), (596, 53514), (603, 53550), (643, 53604), (651, 53622), (669, 53718), (674, 53742), (701, 53814), (802, 54018), (831, 54129), (836, 54144), (840, 54165), (844, 54177), (845, 54183), (846, 54186), (855, 54213), (873, 54258), (893, 54366), (904, 54405), (906, 54411), (912, 54435), (916, 54450), (918, 54456), (922, 54471),

Gene: Apiary_59 Start: 45761, Stop: 42345, Start Num: 73

Candidate Starts for Apiary_59:

(Start: 73 @45761 has 88 MA's), (86, 45680), (Start: 89 @45665 has 6 MA's), (107, 45557), (110, 45551), (130, 45503), (145, 45422), (155, 45380), (209, 45170), (212, 45155), (216, 45146), (221, 45122), (224, 45092), (232, 45053), (252, 44972), (262, 44930), (297, 44795), (325, 44681), (338, 44630), (340, 44612), (343, 44603), (354, 44525), (356, 44510), (359, 44471), (366, 44432), (382, 44339), (393, 44288), (395, 44282), (402, 44243), (439, 44138), (440, 44123), (441, 44120), (466, 44006), (467, 44003), (472, 43973), (476, 43955), (477, 43952), (478, 43946), (479, 43943), (488, 43910), (494, 43889), (536, 43721), (550, 43643), (558, 43604), (559, 43601), (561, 43595), (565, 43577), (590, 43481), (596, 43463), (603, 43427), (651, 43355), (669, 43262), (671, 43250), (688, 43187), (707, 43130), (746, 43001), (756, 42971), (775, 42911), (777, 42908), (787, 42866), (790, 42854), (814, 42764), (824, 42728), (837, 42683), (841, 42668), (853, 42626), (872, 42581), (884, 42527), (885, 42518), (887, 42506), (889, 42500), (892, 42482), (904, 42431), (905, 42428), (916, 42386),

Gene: ArcherS7_209 Start: 113326, Stop: 116814, Start Num: 26

Candidate Starts for ArcherS7_209:

(Start: 26 @113326 has 44 MA's), (Start: 28 @113332 has 6 MA's), (Start: 32 @113344 has 8 MA's), (37, 113353), (Start: 68 @113419 has 162 MA's), (84, 113494), (103, 113608), (109, 113632), (127, 113692), (151, 113803), (157, 113842), (164, 113866), (173, 113908), (203, 114007), (214, 114049), (216, 114055), (219, 114067), (229, 114130), (242, 114190), (243, 114193), (250, 114220), (261, 114262), (279, 114325), (330, 114481), (335, 114499), (338, 114514), (351, 114631), (357, 114670), (372, 114790), (380, 114832), (389, 114877), (391, 114886), (402, 114937), (414, 114979), (432, 115045), (434, 115054), (435, 115057), (436, 115063), (437, 115066), (438, 115075), (439, 115081), (440, 115096), (462, 115183), (483, 115288), (495, 115342), (510, 115429), (516, 115459), (526, 115489), (533, 115522), (535, 115531), (546, 115603), (552, 115633), (577, 115750), (589, 115795), (601, 115837), (660, 115981), (675, 116041), (715, 116143), (750, 116230), (751, 116233), (761, 116251), (771, 116287), (772, 116290), (793, 116350), (798, 116368), (827, 116464), (836, 116494), (839, 116512), (846, 116542), (879, 116635), (883, 116650), (900, 116731), (902, 116737), (905, 116749),

Gene: Arti_59 Start: 47894, Stop: 44583, Start Num: 73

Candidate Starts for Arti_59:

(1, 48146), (10, 48059), (14, 48032), (Start: 73 @47894 has 88 MA's), (85, 47822), (Start: 89 @47798 has 6 MA's), (128, 47645), (130, 47636), (194, 47354), (197, 47348), (204, 47324), (225, 47216), (232, 47186), (292, 46979), (335, 46808), (343, 46766), (354, 46688), (356, 46673), (376, 46535), (431, 46337), (441, 46280), (454, 46220), (466, 46169), (481, 46100), (494, 46055), (549, 45815), (559, 45770), (561, 45764), (565, 45746), (590, 45650), (603, 45596), (665, 45452), (669, 45443), (695, 45368), (718, 45293), (735, 45239), (769, 45149), (794, 45068), (801, 45047), (841, 44903), (842, 44900), (892, 44717), (907, 44660), (925, 44594),

Gene: Asten_54 Start: 42455, Stop: 38970, Start Num: 68

Candidate Starts for Asten_54:

(Start: 36 @42524 has 1 MA's), (Start: 68 @42455 has 162 MA's), (Start: 82 @42392 has 1 MA's), (84, 42383), (91, 42341), (107, 42248), (123, 42179), (135, 42110), (144, 42056), (161, 41984), (168, 41948), (188, 41888), (247, 41663), (257, 41624), (266, 41597), (269, 41579), (276, 41558), (283, 41543), (304, 41501), (325, 41423), (329, 41411), (358, 41225), (359, 41219), (366, 41174), (381, 41090), (383, 41072), (398, 41015), (399, 41012), (401, 41000), (438, 40862), (439, 40856), (440, 40841), (442, 40835), (449, 40802), (468, 40724), (474, 40691), (512, 40550), (518, 40532), (534, 40469), (535, 40463), (546, 40394), (558, 40331), (564, 40310), (574, 40265), (601, 40169), (602, 40160), (604, 40154), (655, 40052), (657, 40043), (661, 40031), (663, 40010), (673, 39980), (678, 39953), (709, 39887), (711, 39878), (714, 39866), (747, 39779), (796, 39611), (812, 39563), (840, 39452), (880, 39314), (883, 39305), (887, 39278), (899, 39230), (908, 39197), (914, 39170), (933, 39065), (934, 39053),

Gene: Asterius_205 Start: 112786, Stop: 116181, Start Num: 68

Candidate Starts for Asterius_205:

(Start: 26 @112693 has 44 MA's), (Start: 28 @112699 has 6 MA's), (Start: 32 @112711 has 8 MA's), (37, 112720), (Start: 68 @112786 has 162 MA's), (84, 112861), (103, 112975), (109, 112999), (127, 113059), (151, 113170), (157, 113209), (164, 113233), (173, 113275), (203, 113374), (214, 113416), (216, 113422), (219, 113434), (229, 113497), (242, 113557), (243, 113560), (250, 113587), (261, 113629), (279, 113692), (330, 113848), (335, 113866), (338, 113881), (351, 113998), (357, 114037), (372, 114157), (380, 114199), (389, 114244), (391, 114253), (402, 114304), (414, 114346), (432, 114412), (434, 114421), (435, 114424), (436, 114430), (437, 114433), (438, 114442), (439, 114448), (440, 114463), (462, 114550), (483, 114655), (495, 114709), (510, 114796), (516, 114826), (526, 114856), (533, 114889), (535, 114898), (546, 114970), (552, 115000), (577, 115117), (589, 115162), (601, 115204), (660, 115348), (675, 115408), (715, 115510), (750, 115597), (751, 115600), (761, 115618), (771, 115654), (772, 115657), (793, 115717), (798, 115735), (827, 115831), (836, 115861), (839, 115879), (846, 115909), (879, 116002), (883, 116017), (900, 116098), (902, 116104), (905, 116116),

Gene: Astraea_203 Start: 111888, Stop: 115376, Start Num: 26

Candidate Starts for Astraea_203:

(Start: 26 @111888 has 44 MA's), (Start: 28 @111894 has 6 MA's), (Start: 32 @111906 has 8 MA's), (37, 111915), (Start: 68 @111981 has 162 MA's), (84, 112056), (103, 112170), (109, 112194), (127, 112254), (151, 112365), (157, 112404), (164, 112428), (173, 112470), (203, 112569), (214, 112611), (216, 112617), (219, 112629), (229, 112692), (242, 112752), (243, 112755), (250, 112782), (261, 112824), (279, 112887), (321, 113007), (330, 113043), (335, 113061), (338, 113076), (351, 113193), (357, 113232), (372, 113352), (380, 113394), (389, 113439), (391, 113448), (402, 113499), (414, 113541), (432, 113607), (434, 113616), (435, 113619), (436, 113625), (437, 113628), (438, 113637), (439, 113643), (440, 113658), (462, 113745), (483, 113850), (495, 113904), (510, 113991), (516, 114021), (526, 114051), (533, 114084), (535, 114093), (546, 114165), (552, 114195), (577, 114312), (589, 114357), (601, 114399), (660, 114543), (675, 114603), (715, 114705), (750, 114792), (751,

114795), (761, 114813), (771, 114849), (772, 114852), (793, 114912), (798, 114930), (827, 115026), (836, 115056), (839, 115074), (846, 115104), (879, 115197), (883, 115212), (900, 115293), (902, 115299), (905, 115311),

Gene: Atlantean_209 Start: 112377, Stop: 115772, Start Num: 68

Candidate Starts for Atlantean_209:

(Start: 26 @112284 has 44 MA's), (Start: 28 @112290 has 6 MA's), (Start: 32 @112302 has 8 MA's), (37, 112311), (Start: 68 @112377 has 162 MA's), (84, 112452), (103, 112566), (109, 112590), (127, 112650), (151, 112761), (157, 112800), (164, 112824), (173, 112866), (203, 112965), (214, 113007), (216, 113013), (219, 113025), (229, 113088), (242, 113148), (243, 113151), (250, 113178), (261, 113220), (279, 113283), (321, 113403), (330, 113439), (335, 113457), (338, 113472), (351, 113589), (357, 113628), (372, 113748), (380, 113790), (389, 113835), (391, 113844), (402, 113895), (414, 113937), (432, 114003), (434, 114012), (435, 114015), (436, 114021), (437, 114024), (438, 114033), (439, 114039), (440, 114054), (462, 114141), (483, 114246), (495, 114300), (510, 114387), (516, 114417), (526, 114447), (533, 114480), (535, 114489), (546, 114561), (552, 114591), (577, 114708), (589, 114753), (601, 114795), (660, 114939), (675, 114999), (715, 115101), (750, 115188), (751, 115191), (761, 115209), (771, 115245), (772, 115248), (793, 115308), (798, 115326), (827, 115422), (836, 115452), (839, 115470), (846, 115500), (879, 115593), (883, 115608), (900, 115689), (902, 115695), (905, 115707),

Gene: Audrick_211 Start: 112267, Stop: 115662, Start Num: 68

Candidate Starts for Audrick_211:

(Start: 26 @112174 has 44 MA's), (Start: 28 @112180 has 6 MA's), (Start: 32 @112192 has 8 MA's), (37, 112201), (Start: 68 @112267 has 162 MA's), (84, 112342), (103, 112456), (109, 112480), (127, 112540), (151, 112651), (157, 112690), (164, 112714), (173, 112756), (203, 112855), (214, 112897), (216, 112903), (219, 112915), (229, 112978), (242, 113038), (243, 113041), (250, 113068), (261, 113110), (279, 113173), (321, 113293), (330, 113329), (335, 113347), (338, 113362), (351, 113479), (357, 113518), (372, 113638), (380, 113680), (389, 113725), (391, 113734), (402, 113785), (414, 113827), (432, 113893), (434, 113902), (435, 113905), (436, 113911), (437, 113914), (438, 113923), (439, 113929), (440, 113944), (462, 114031), (483, 114136), (495, 114190), (510, 114277), (516, 114307), (526, 114337), (533, 114370), (535, 114379), (546, 114451), (552, 114481), (577, 114598), (589, 114643), (601, 114685), (660, 114829), (675, 114889), (715, 114991), (750, 115078), (751, 115081), (761, 115099), (771, 115135), (772, 115138), (793, 115198), (798, 115216), (827, 115312), (836, 115342), (839, 115360), (846, 115390), (879, 115483), (883, 115498), (900, 115579), (902, 115585), (905, 115597),

Gene: Ava3_208 Start: 112811, Stop: 116206, Start Num: 68

Candidate Starts for Ava3_208:

(Start: 26 @112718 has 44 MA's), (Start: 28 @112724 has 6 MA's), (Start: 32 @112736 has 8 MA's), (37, 112745), (Start: 68 @112811 has 162 MA's), (84, 112886), (103, 113000), (109, 113024), (127, 113084), (151, 113195), (157, 113234), (164, 113258), (173, 113300), (203, 113399), (214, 113441), (216, 113447), (219, 113459), (229, 113522), (242, 113582), (243, 113585), (250, 113612), (261, 113654), (279, 113717), (321, 113837), (330, 113873), (335, 113891), (338, 113906), (351, 114023), (357, 114062), (372, 114182), (380, 114224), (389, 114269), (391, 114278), (402, 114329), (414, 114371), (432, 114437), (434, 114446), (435, 114449), (436, 114455), (437, 114458), (438, 114467), (439, 114473), (440, 114488), (462, 114575), (483, 114680), (495, 114734), (510, 114821), (516, 114851), (526, 114881), (533, 114914), (535, 114923), (546, 114995), (552, 115025), (577, 115142), (589, 115187), (601, 115229), (660, 115373), (675, 115433), (715, 115535), (750, 115622), (751, 115625), (761, 115643), (771, 115679), (772, 115682), (793, 115742), (798, 115760), (827, 115856), (836, 115886), (839, 115904), (846, 115934), (879, 116027), (883, 116042), (900, 116123), (902, 116129), (905, 116141),

Gene: Avian_78 Start: 50443, Stop: 53784, Start Num: 73

Candidate Starts for Avian_78:

(Start: 73 @50443 has 88 MA's), (Start: 89 @50539 has 6 MA's), (93, 50584), (103, 50626), (166, 50887), (205, 51022), (224, 51118), (288, 51388), (289, 51397), (316, 51505), (324, 51550), (335, 51592), (348, 51670), (356, 51724), (357, 51727), (358, 51757), (372, 51847), (382, 51901), (404, 52000), (412, 52015), (429, 52057), (466, 52231), (472, 52264), (476, 52282), (481, 52300), (494, 52345), (495, 52348), (524, 52444), (534, 52486), (536, 52498), (541, 52534), (582, 52714), (596, 52756), (603, 52792), (639, 52834), (643, 52846), (651, 52864), (669, 52960), (671, 52972), (739, 53167), (798, 53251), (827, 53356), (831, 53371), (836, 53386), (840, 53407), (844, 53419), (845, 53425), (846, 53428), (855, 53455), (873, 53500), (893, 53608), (906, 53653), (912, 53677), (922, 53713),

Gene: Babyland_212 Start: 113154, Stop: 116549, Start Num: 68

Candidate Starts for Babyland_212:

(Start: 26 @113061 has 44 MA's), (Start: 28 @113067 has 6 MA's), (Start: 32 @113079 has 8 MA's), (37, 113088), (Start: 68 @113154 has 162 MA's), (84, 113229), (103, 113343), (109, 113367), (127, 113427), (151, 113538), (157, 113577), (164, 113601), (173, 113643), (203, 113742), (214, 113784), (216, 113790), (219, 113802), (229, 113865), (242, 113925), (243, 113928), (250, 113955), (261, 113997), (279, 114060), (321, 114180), (330, 114216), (335, 114234), (338, 114249), (351, 114366), (357, 114405), (372, 114525), (380, 114567), (389, 114612), (391, 114621), (402, 114672), (414, 114714), (432, 114780), (434, 114789), (435, 114792), (436, 114798), (437, 114801), (438, 114810), (439, 114816), (440, 114831), (462, 114918), (483, 115023), (495, 115077), (510, 115164), (516, 115194), (526, 115224), (533, 115257), (535, 115266), (546, 115338), (552, 115368), (577, 115485), (589, 115530), (601, 115572), (660, 115716), (675, 115776), (715, 115878), (750, 115965), (751, 115968), (761, 115986), (771, 116022), (772, 116025), (793, 116085), (798, 116103), (827, 116199), (836, 116229), (839, 116247), (846, 116277), (879, 116370), (883, 116385), (900, 116466), (902, 116472), (905, 116484),

Gene: BackyardAgain_204 Start: 110970, Stop: 114458, Start Num: 26

Candidate Starts for BackyardAgain_204:

(Start: 26 @110970 has 44 MA's), (Start: 28 @110976 has 6 MA's), (Start: 32 @110988 has 8 MA's), (37, 110997), (Start: 68 @111063 has 162 MA's), (84, 111138), (103, 111252), (109, 111276), (127, 111336), (151, 111447), (157, 111486), (164, 111510), (173, 111552), (203, 111651), (214, 111693), (216, 111699), (219, 111711), (229, 111774), (242, 111834), (243, 111837), (250, 111864), (261, 111906), (279, 111969), (321, 112089), (330, 112125), (335, 112143), (338, 112158), (351, 112275), (357, 112314), (372, 112434), (380, 112476), (389, 112521), (391, 112530), (402, 112581), (414, 112623), (432, 112689), (434, 112698), (435, 112701), (436, 112707), (437, 112710), (438, 112719), (439, 112725), (440, 112740), (462, 112827), (483, 112932), (495, 112986), (510, 113073), (516, 113103), (526, 113133), (533, 113166), (535, 113175), (546, 113247), (552, 113277), (577, 113394), (589, 113439), (601, 113481), (660, 113625), (675, 113685), (715, 113787), (750, 113874), (751, 113877), (761, 113895), (771, 113931), (772, 113934), (793, 113994), (798, 114012), (827, 114108), (836, 114138), (839, 114156), (846, 114186), (879, 114279), (883, 114294), (900, 114375), (902, 114381), (905, 114393),

Gene: BadAgartude_203 Start: 112479, Stop: 115874, Start Num: 68

Candidate Starts for BadAgartude_203:

(11, 112311), (Start: 26 @112386 has 44 MA's), (Start: 28 @112392 has 6 MA's), (Start: 32 @112404 has 8 MA's), (37, 112413), (Start: 68 @112479 has 162 MA's), (84, 112554), (103, 112668), (109, 112692), (127, 112752), (151, 112863), (157, 112902), (164, 112926), (173, 112968), (203, 113067), (214, 113109), (216, 113115), (219, 113127), (229, 113190), (242, 113250), (243, 113253), (250, 113280), (261, 113322), (279, 113385), (330, 113541), (335, 113559), (338, 113574), (351, 113691), (357, 113730), (372, 113850), (380, 113892), (389, 113937), (391, 113946), (402, 113997), (414, 114039), (432, 114105), (434, 114114), (435, 114117), (436, 114123), (437, 114126), (438, 114135), (439, 114141), (440, 114156), (462, 114243), (483, 114348), (495, 114402), (510, 114489), (516,

114519), (526, 114549), (533, 114582), (535, 114591), (546, 114663), (552, 114693), (577, 114810), (589, 114855), (601, 114897), (660, 115041), (675, 115101), (715, 115203), (750, 115290), (751, 115293), (761, 115311), (771, 115347), (772, 115350), (793, 115410), (798, 115428), (827, 115524), (836, 115554), (839, 115572), (846, 115602), (879, 115695), (883, 115710), (900, 115791), (902, 115797), (905, 115809),

Gene: BananaFence_206 Start: 112610, Stop: 116005, Start Num: 68

Candidate Starts for BananaFence_206:

(Start: 26 @112517 has 44 MA's), (Start: 28 @112523 has 6 MA's), (Start: 32 @112535 has 8 MA's), (37, 112544), (Start: 68 @112610 has 162 MA's), (84, 112685), (103, 112799), (109, 112823), (127, 112883), (151, 112994), (157, 113033), (164, 113057), (173, 113099), (203, 113198), (214, 113240), (216, 113246), (219, 113258), (229, 113321), (242, 113381), (243, 113384), (250, 113411), (261, 113453), (279, 113516), (330, 113672), (335, 113690), (338, 113705), (351, 113822), (357, 113861), (372, 113981), (380, 114023), (389, 114068), (391, 114077), (402, 114128), (414, 114170), (432, 114236), (434, 114245), (435, 114248), (436, 114254), (437, 114257), (438, 114266), (439, 114272), (440, 114287), (462, 114374), (483, 114479), (495, 114533), (510, 114620), (516, 114650), (526, 114680), (533, 114713), (535, 114722), (546, 114794), (552, 114824), (577, 114941), (589, 114986), (601, 115028), (660, 115172), (675, 115232), (715, 115334), (750, 115421), (751, 115424), (761, 115442), (771, 115478), (772, 115481), (793, 115541), (798, 115559), (827, 115655), (836, 115685), (839, 115703), (846, 115733), (879, 115826), (883, 115841), (900, 115922), (902, 115928), (905, 115940),

Gene: Bangla1971_209 Start: 112290, Stop: 115778, Start Num: 26

Candidate Starts for Bangla1971_209:

(Start: 26 @112290 has 44 MA's), (Start: 28 @112296 has 6 MA's), (Start: 32 @112308 has 8 MA's), (37, 112317), (Start: 68 @112383 has 162 MA's), (84, 112458), (103, 112572), (109, 112596), (127, 112656), (151, 112767), (157, 112806), (164, 112830), (173, 112872), (203, 112971), (214, 113013), (216, 113019), (219, 113031), (229, 113094), (242, 113154), (243, 113157), (250, 113184), (261, 113226), (279, 113289), (330, 113445), (335, 113463), (338, 113478), (351, 113595), (357, 113634), (372, 113754), (380, 113796), (389, 113841), (391, 113850), (402, 113901), (414, 113943), (432, 114009), (434, 114018), (435, 114021), (436, 114027), (437, 114030), (438, 114039), (439, 114045), (440, 114060), (462, 114147), (483, 114252), (495, 114306), (510, 114393), (516, 114423), (526, 114453), (533, 114486), (535, 114495), (546, 114567), (552, 114597), (577, 114714), (589, 114759), (601, 114801), (660, 114945), (675, 115005), (715, 115107), (750, 115194), (751, 115197), (761, 115215), (771, 115251), (772, 115254), (793, 115314), (798, 115332), (827, 115428), (836, 115458), (839, 115476), (846, 115506), (879, 115599), (883, 115614), (900, 115695), (902, 115701), (905, 115713),

Gene: Barnyard_80 Start: 54919, Stop: 58254, Start Num: 73

Candidate Starts for Barnyard_80:

(Start: 57 @54892 has 1 MA's), (Start: 73 @54919 has 88 MA's), (80, 54970), (81, 54976), (Start: 89 @55015 has 6 MA's), (92, 55048), (111, 55132), (130, 55183), (149, 55273), (178, 55393), (193, 55453), (252, 55711), (316, 55906), (338, 56008), (348, 56071), (351, 56086), (356, 56131), (357, 56134), (396, 56368), (426, 56476), (427, 56482), (459, 56638), (466, 56677), (468, 56686), (472, 56710), (475, 56725), (476, 56728), (481, 56746), (482, 56752), (492, 56803), (509, 56908), (514, 56938), (519, 56950), (523, 56959), (526, 56974), (539, 57043), (550, 57100), (559, 57142), (564, 57160), (651, 57391), (653, 57403), (701, 57604), (720, 57658), (774, 57715), (776, 57718), (808, 57808), (829, 57892), (845, 57952), (871, 58021), (892, 58120), (907, 58180), (923, 58240),

Gene: BarryBee_57 Start: 42477, Stop: 38992, Start Num: 68

Candidate Starts for BarryBee_57:

(Start: 36 @42546 has 1 MA's), (Start: 68 @42477 has 162 MA's), (Start: 82 @42414 has 1 MA's), (84, 42405), (91, 42363), (107, 42270), (123, 42201), (135, 42132), (144, 42078), (161, 42006), (168,

41970), (188, 41910), (247, 41685), (257, 41646), (266, 41619), (269, 41601), (276, 41580), (283, 41565), (304, 41523), (325, 41445), (329, 41433), (358, 41247), (359, 41241), (366, 41196), (381, 41112), (383, 41094), (398, 41037), (399, 41034), (401, 41022), (438, 40884), (439, 40878), (440, 40863), (442, 40857), (449, 40824), (468, 40746), (474, 40713), (508, 40596), (512, 40572), (534, 40491), (535, 40485), (546, 40416), (558, 40353), (564, 40332), (574, 40287), (601, 40191), (602, 40182), (604, 40176), (655, 40074), (657, 40065), (661, 40053), (663, 40032), (673, 40002), (678, 39975), (709, 39909), (711, 39900), (714, 39888), (747, 39801), (796, 39633), (812, 39585), (840, 39474), (880, 39336), (883, 39327), (887, 39300), (899, 39252), (908, 39219), (933, 39087), (934, 39075),

Gene: Bartholomune_78 Start: 57817, Stop: 61101, Start Num: 70

Candidate Starts for Bartholomune_78:

(Start: 70 @57817 has 57 MA's), (79, 57862), (85, 57892), (88, 57910), (Start: 89 @57916 has 6 MA's), (99, 57982), (146, 58195), (149, 58201), (168, 58297), (189, 58375), (213, 58480), (225, 58543), (227, 58549), (236, 58588), (262, 58705), (310, 58804), (337, 58915), (345, 58945), (349, 58984), (387, 59227), (439, 59371), (440, 59386), (461, 59482), (462, 59488), (466, 59512), (478, 59572), (499, 59635), (502, 59644), (517, 59716), (534, 59779), (546, 59851), (559, 59905), (562, 59914), (564, 59923), (566, 59932), (568, 59938), (587, 60019), (606, 60118), (622, 60181), (638, 60250), (641, 60262), (689, 60448), (696, 60466), (725, 60562), (736, 60595), (759, 60646), (771, 60685), (773, 60691), (791, 60757), (800, 60787), (806, 60805), (818, 60841), (830, 60886), (832, 60895), (837, 60916), (842, 60937), (858, 60985), (864, 61000),

Gene: Basquiat_206 Start: 111889, Stop: 115284, Start Num: 68

Candidate Starts for Basquiat_206:

(Start: 26 @111796 has 44 MA's), (Start: 28 @111802 has 6 MA's), (Start: 32 @111814 has 8 MA's), (37, 111823), (Start: 68 @111889 has 162 MA's), (84, 111964), (103, 112078), (109, 112102), (127, 112162), (151, 112273), (157, 112312), (164, 112336), (173, 112378), (203, 112477), (214, 112519), (216, 112525), (219, 112537), (229, 112600), (242, 112660), (243, 112663), (250, 112690), (261, 112732), (279, 112795), (321, 112915), (330, 112951), (335, 112969), (338, 112984), (351, 113101), (357, 113140), (372, 113260), (380, 113302), (389, 113347), (391, 113356), (402, 113407), (414, 113449), (432, 113515), (434, 113524), (435, 113527), (436, 113533), (437, 113536), (438, 113545), (439, 113551), (440, 113566), (462, 113653), (483, 113758), (495, 113812), (510, 113899), (516, 113929), (526, 113959), (533, 113992), (535, 114001), (546, 114073), (552, 114103), (577, 114220), (589, 114265), (601, 114307), (660, 114451), (675, 114511), (715, 114613), (750, 114700), (751, 114703), (761, 114721), (771, 114757), (772, 114760), (793, 114820), (798, 114838), (827, 114934), (836, 114964), (839, 114982), (846, 115012), (879, 115105), (883, 115120), (900, 115201), (902, 115207), (905, 115219),

Gene: Battuta_80 Start: 58417, Stop: 61737, Start Num: 69

Candidate Starts for Battuta_80:

(Start: 69 @58417 has 26 MA's), (80, 58468), (85, 58489), (Start: 89 @58513 has 6 MA's), (102, 58594), (146, 58792), (189, 58972), (200, 59020), (213, 59077), (215, 59080), (223, 59128), (225, 59146), (228, 59155), (236, 59191), (259, 59299), (262, 59308), (337, 59518), (349, 59587), (372, 59752), (387, 59830), (438, 59992), (462, 60115), (478, 60199), (499, 60262), (502, 60271), (546, 60475), (559, 60529), (562, 60538), (566, 60556), (568, 60562), (607, 60745), (608, 60754), (619, 60778), (622, 60805), (648, 60913), (696, 61102), (722, 61180), (732, 61222), (740, 61240), (759, 61282), (771, 61321), (773, 61327), (783, 61354), (791, 61393), (806, 61441), (809, 61450), (830, 61522), (836, 61543), (841, 61570), (842, 61573), (847, 61588), (858, 61621), (882, 61690),

Gene: BeanWater_201 Start: 112340, Stop: 115810, Start Num: 32

Candidate Starts for BeanWater_201:

(Start: 18 @112292 has 4 MA's), (Start: 26 @112322 has 44 MA's), (Start: 28 @112328 has 6 MA's), (Start: 32 @112340 has 8 MA's), (37, 112349), (Start: 68 @112415 has 162 MA's), (84, 112490), (103,

112604), (109, 112628), (127, 112688), (151, 112799), (157, 112838), (164, 112862), (173, 112904), (203, 113003), (214, 113045), (216, 113051), (219, 113063), (229, 113126), (242, 113186), (243, 113189), (250, 113216), (261, 113258), (279, 113321), (321, 113441), (330, 113477), (335, 113495), (338, 113510), (351, 113627), (357, 113666), (372, 113786), (380, 113828), (389, 113873), (391, 113882), (402, 113933), (414, 113975), (432, 114041), (434, 114050), (435, 114053), (436, 114059), (437, 114062), (438, 114071), (439, 114077), (440, 114092), (462, 114179), (483, 114284), (495, 114338), (510, 114425), (516, 114455), (526, 114485), (533, 114518), (535, 114527), (546, 114599), (552, 114629), (577, 114746), (589, 114791), (601, 114833), (660, 114977), (675, 115037), (715, 115139), (750, 115226), (751, 115229), (761, 115247), (771, 115283), (772, 115286), (793, 115346), (798, 115364), (827, 115460), (836, 115490), (839, 115508), (846, 115538), (879, 115631), (883, 115646), (900, 115727), (902, 115733), (905, 115745),

Gene: BeardedLady_53 Start: 40610, Stop: 37131, Start Num: 68

Candidate Starts for BeardedLady_53:

(6, 40820), (Start: 68 @40610 has 162 MA's), (84, 40538), (Start: 89 @40511 has 6 MA's), (91, 40496), (123, 40334), (126, 40307), (128, 40301), (144, 40211), (150, 40196), (160, 40142), (161, 40139), (188, 40043), (218, 39965), (227, 39905), (247, 39818), (257, 39779), (269, 39734), (276, 39713), (283, 39698), (304, 39656), (308, 39644), (325, 39578), (329, 39566), (343, 39503), (359, 39374), (360, 39365), (366, 39329), (381, 39245), (383, 39227), (398, 39170), (399, 39167), (401, 39155), (438, 39017), (439, 39011), (440, 38996), (442, 38990), (449, 38957), (468, 38879), (474, 38846), (512, 38705), (530, 38648), (534, 38624), (535, 38618), (546, 38549), (558, 38486), (574, 38420), (583, 38381), (601, 38324), (602, 38315), (655, 38207), (657, 38198), (661, 38186), (663, 38165), (673, 38135), (678, 38108), (709, 38042), (711, 38033), (714, 38021), (747, 37934), (756, 37910), (772, 37862), (812, 37718), (832, 37643), (880, 37469), (883, 37460), (887, 37433), (899, 37385), (908, 37352),

Gene: Beckerton_76 Start: 56006, Stop: 59302, Start Num: 73

Candidate Starts for Beckerton_76:

(Start: 53 @55979 has 1 MA's), (Start: 73 @56006 has 88 MA's), (85, 56078), (Start: 89 @56102 has 6 MA's), (90, 56111), (92, 56135), (130, 56270), (150, 56363), (153, 56381), (179, 56489), (224, 56681), (284, 56915), (299, 56972), (316, 57026), (323, 57071), (331, 57098), (338, 57128), (356, 57251), (359, 57290), (365, 57332), (378, 57410), (382, 57428), (386, 57446), (388, 57458), (408, 57533), (441, 57689), (459, 57773), (473, 57851), (478, 57872), (481, 57881), (482, 57887), (485, 57896), (504, 57968), (507, 57983), (514, 58022), (519, 58034), (539, 58127), (540, 58133), (550, 58181), (559, 58223), (599, 58373), (601, 58385), (651, 58469), (677, 58610), (720, 58715), (795, 58814), (797, 58823), (820, 58901), (830, 58940), (834, 58955), (846, 59003), (877, 59099), (882, 59117), (886, 59144), (898, 59192), (905, 59222), (906, 59225), (910, 59240), (918, 59270), (920, 59279), (922, 59285), (923, 59288),

Gene: Belfort_62 Start: 50235, Stop: 53525, Start Num: 70

Candidate Starts for Belfort_62:

(59, 50217), (Start: 70 @50235 has 57 MA's), (75, 50250), (76, 50256), (80, 50286), (85, 50307), (88, 50325), (Start: 89 @50331 has 6 MA's), (124, 50499), (132, 50541), (146, 50610), (159, 50670), (188, 50784), (189, 50790), (213, 50895), (225, 50958), (227, 50964), (236, 51003), (302, 51192), (319, 51249), (323, 51276), (336, 51321), (383, 51627), (392, 51663), (431, 51747), (439, 51786), (460, 51891), (462, 51903), (468, 51936), (473, 51966), (474, 51969), (477, 51981), (478, 51987), (502, 52059), (516, 52125), (517, 52131), (534, 52194), (546, 52266), (559, 52320), (562, 52329), (566, 52347), (568, 52353), (598, 52467), (606, 52533), (608, 52545), (619, 52569), (626, 52605), (627, 52608), (638, 52665), (640, 52671), (644, 52683), (654, 52719), (665, 52788), (727, 52986), (740, 53019), (758, 53055), (759, 53061), (764, 53073), (791, 53172), (793, 53181), (800, 53202), (811, 53232), (826, 53289), (842, 53352), (861, 53403), (864, 53415),

Gene: Beuffert_58 Start: 48843, Stop: 52133, Start Num: 70

Candidate Starts for Beuffert_58:

(Start: 70 @48843 has 57 MA's), (85, 48915), (Start: 89 @48939 has 6 MA's), (146, 49218), (159, 49278), (200, 49446), (213, 49503), (225, 49566), (234, 49608), (236, 49611), (337, 49938), (348, 50004), (349, 50007), (434, 50367), (439, 50394), (448, 50448), (461, 50505), (462, 50511), (502, 50667), (508, 50694), (517, 50739), (534, 50802), (546, 50874), (559, 50928), (562, 50937), (564, 50946), (566, 50955), (568, 50961), (598, 51075), (608, 51153), (626, 51213), (638, 51273), (640, 51279), (644, 51291), (665, 51396), (686, 51465), (727, 51594), (755, 51657), (757, 51660), (758, 51663), (759, 51669), (791, 51780), (793, 51789), (800, 51810), (811, 51840), (818, 51864), (820, 51873), (842, 51960), (846, 51972), (861, 52011), (864, 52023), (888, 52110),

Gene: BiPauneto_61 Start: 47338, Stop: 44087, Start Num: 73

Candidate Starts for BiPauneto_61:

(16, 47470), (23, 47440), (27, 47428), (Start: 73 @47338 has 88 MA's), (86, 47257), (Start: 89 @47242 has 6 MA's), (93, 47197), (128, 47089), (130, 47080), (197, 46792), (210, 46741), (218, 46714), (225, 46660), (232, 46630), (292, 46423), (320, 46315), (338, 46237), (343, 46210), (354, 46132), (356, 46117), (376, 45979), (431, 45781), (433, 45775), (438, 45748), (466, 45613), (472, 45580), (481, 45544), (494, 45499), (502, 45487), (515, 45424), (549, 45259), (550, 45256), (558, 45217), (559, 45214), (561, 45208), (563, 45199), (565, 45190), (590, 45094), (596, 45076), (603, 45040), (668, 44890), (682, 44836), (735, 44740), (769, 44656), (772, 44647), (790, 44596), (814, 44506), (841, 44410), (842, 44407), (859, 44356), (892, 44224), (925, 44101),

Gene: BigCity_218 Start: 115911, Stop: 119381, Start Num: 32

Candidate Starts for BigCity_218:

(11, 115818), (Start: 26 @115893 has 44 MA's), (Start: 28 @115899 has 6 MA's), (Start: 32 @115911 has 8 MA's), (37, 115920), (Start: 68 @115986 has 162 MA's), (84, 116061), (103, 116175), (109, 116199), (127, 116259), (151, 116370), (157, 116409), (164, 116433), (173, 116475), (203, 116574), (214, 116616), (216, 116622), (219, 116634), (229, 116697), (242, 116757), (243, 116760), (250, 116787), (261, 116829), (279, 116892), (330, 117048), (335, 117066), (338, 117081), (351, 117198), (357, 117237), (372, 117357), (380, 117399), (389, 117444), (391, 117453), (402, 117504), (414, 117546), (432, 117612), (434, 117621), (435, 117624), (436, 117630), (437, 117633), (438, 117642), (439, 117648), (440, 117663), (462, 117750), (483, 117855), (495, 117909), (510, 117996), (516, 118026), (526, 118056), (533, 118089), (535, 118098), (546, 118170), (552, 118200), (577, 118317), (589, 118362), (601, 118404), (660, 118548), (675, 118608), (715, 118710), (750, 118797), (751, 118800), (761, 118818), (771, 118854), (772, 118857), (793, 118917), (798, 118935), (827, 119031), (836, 119061), (839, 119079), (846, 119109), (879, 119202), (883, 119217), (900, 119298), (902, 119304), (905, 119316),

Gene: BigMama_65 Start: 49772, Stop: 53074, Start Num: 29

Candidate Starts for BigMama_65:

(Start: 29 @49772 has 19 MA's), (Start: 64 @49859 has 1 MA's), (Start: 67 @49865 has 1 MA's), (Start: 73 @49874 has 88 MA's), (Start: 89 @49970 has 6 MA's), (130, 50126), (148, 50213), (149, 50216), (159, 50267), (224, 50531), (232, 50570), (249, 50642), (252, 50651), (270, 50726), (292, 50792), (294, 50798), (309, 50852), (316, 50870), (325, 50921), (326, 50924), (334, 50954), (349, 51038), (350, 51047), (354, 51074), (356, 51089), (382, 51266), (383, 51275), (412, 51380), (438, 51461), (448, 51521), (466, 51596), (472, 51629), (473, 51635), (478, 51656), (481, 51665), (494, 51710), (514, 51779), (520, 51794), (536, 51863), (547, 51926), (556, 51959), (557, 51962), (568, 52013), (584, 52088), (643, 52211), (651, 52229), (668, 52307), (669, 52310), (671, 52322), (685, 52367), (695, 52388), (699, 52400), (711, 52430), (717, 52451), (777, 52523), (798, 52580), (826, 52679), (844, 52745), (875, 52835), (881, 52865), (882, 52868), (887, 52898), (896, 52943), (907, 52985), (914, 53015), (918, 53027), (922, 53042), (925, 53051),

Gene: Bigswole_214 Start: 115765, Stop: 119235, Start Num: 32

Candidate Starts for Bigswole_214:

(11, 115672), (Start: 26 @115747 has 44 MA's), (Start: 28 @115753 has 6 MA's), (Start: 32 @115765 has 8 MA's), (37, 115774), (Start: 68 @115840 has 162 MA's), (84, 115915), (103, 116029), (109, 116053), (127, 116113), (151, 116224), (157, 116263), (164, 116287), (173, 116329), (203, 116428), (214, 116470), (216, 116476), (219, 116488), (229, 116551), (242, 116611), (243, 116614), (250, 116641), (261, 116683), (279, 116746), (330, 116902), (335, 116920), (338, 116935), (351, 117052), (357, 117091), (372, 117211), (380, 117253), (389, 117298), (391, 117307), (402, 117358), (414, 117400), (432, 117466), (434, 117475), (435, 117478), (436, 117484), (437, 117487), (438, 117496), (439, 117502), (440, 117517), (462, 117604), (483, 117709), (495, 117763), (510, 117850), (516, 117880), (526, 117910), (533, 117943), (535, 117952), (546, 118024), (552, 118054), (577, 118171), (589, 118216), (601, 118258), (660, 118402), (675, 118462), (715, 118564), (750, 118651), (751, 118654), (761, 118672), (771, 118708), (772, 118711), (793, 118771), (798, 118789), (827, 118885), (836, 118915), (839, 118933), (846, 118963), (879, 119056), (883, 119071), (900, 119152), (902, 119158), (905, 119170),

Gene: BillNye_56 Start: 51723, Stop: 55010, Start Num: 70

Candidate Starts for BillNye_56:

(Start: 70 @51723 has 57 MA's), (76, 51744), (85, 51795), (Start: 89 @51819 has 6 MA's), (105, 51915), (146, 52098), (159, 52158), (183, 52248), (189, 52278), (199, 52320), (200, 52326), (213, 52383), (225, 52446), (236, 52491), (244, 52539), (337, 52818), (349, 52887), (366, 53019), (372, 53052), (389, 53139), (431, 53235), (439, 53274), (440, 53289), (461, 53385), (462, 53391), (468, 53424), (477, 53469), (478, 53475), (486, 53505), (502, 53547), (511, 53592), (517, 53619), (534, 53682), (546, 53754), (559, 53808), (562, 53817), (566, 53835), (568, 53841), (601, 53967), (606, 54021), (608, 54033), (622, 54084), (641, 54165), (644, 54171), (679, 54327), (759, 54549), (760, 54552), (791, 54660), (793, 54669), (806, 54708), (832, 54798), (842, 54840), (847, 54855), (864, 54903), (886, 54981),

Gene: Bipolarisk_207 Start: 113080, Stop: 116475, Start Num: 68

Candidate Starts for Bipolarisk_207:

(Start: 26 @112987 has 44 MA's), (Start: 28 @112993 has 6 MA's), (Start: 32 @113005 has 8 MA's), (37, 113014), (Start: 68 @113080 has 162 MA's), (84, 113155), (103, 113269), (109, 113293), (127, 113353), (151, 113464), (157, 113503), (164, 113527), (173, 113569), (203, 113668), (214, 113710), (216, 113716), (219, 113728), (229, 113791), (242, 113851), (243, 113854), (250, 113881), (261, 113923), (279, 113986), (321, 114106), (330, 114142), (335, 114160), (338, 114175), (351, 114292), (357, 114331), (372, 114451), (380, 114493), (389, 114538), (391, 114547), (402, 114598), (414, 114640), (432, 114706), (434, 114715), (435, 114718), (436, 114724), (437, 114727), (438, 114736), (439, 114742), (440, 114757), (462, 114844), (483, 114949), (495, 115003), (510, 115090), (516, 115120), (526, 115150), (533, 115183), (535, 115192), (546, 115264), (552, 115294), (577, 115411), (589, 115456), (601, 115498), (660, 115642), (675, 115702), (715, 115804), (750, 115891), (751, 115894), (761, 115912), (771, 115948), (772, 115951), (793, 116011), (798, 116029), (827, 116125), (836, 116155), (839, 116173), (846, 116203), (879, 116296), (883, 116311), (900, 116392), (902, 116398), (905, 116410),

Gene: Birchlyn_79 Start: 56300, Stop: 59620, Start Num: 69

Candidate Starts for Birchlyn_79:

(Start: 69 @56300 has 26 MA's), (80, 56351), (85, 56372), (Start: 89 @56396 has 6 MA's), (102, 56477), (146, 56675), (189, 56855), (200, 56903), (213, 56960), (223, 57011), (225, 57029), (228, 57038), (236, 57074), (259, 57182), (262, 57191), (337, 57401), (349, 57470), (372, 57635), (387, 57713), (438, 57875), (462, 57998), (478, 58082), (499, 58145), (502, 58154), (546, 58358), (559, 58412), (562, 58421), (566, 58439), (568, 58445), (607, 58628), (608, 58637), (619, 58661), (622, 58688), (648, 58796), (696, 58985), (722, 59063), (732, 59105), (740, 59123), (759, 59165), (771, 59204), (773, 59210), (783, 59237), (791, 59276), (806, 59324), (809, 59333), (830, 59405), (836, 59426), (841, 59453), (842, 59456), (847, 59471), (858, 59504), (882, 59573),

Gene: BirthdayBoy_81 Start: 52357, Stop: 55698, Start Num: 73

Candidate Starts for BirthdayBoy_81:

(47, 52309), (Start: 73 @52357 has 88 MA's), (Start: 82 @52417 has 1 MA's), (Start: 89 @52453 has 6 MA's), (93, 52498), (103, 52540), (166, 52801), (194, 52903), (205, 52936), (224, 53032), (288, 53302), (289, 53311), (316, 53419), (324, 53464), (335, 53506), (356, 53638), (357, 53641), (358, 53671), (372, 53761), (382, 53815), (404, 53914), (412, 53929), (429, 53971), (466, 54145), (472, 54178), (476, 54196), (481, 54214), (494, 54259), (495, 54262), (524, 54358), (534, 54400), (536, 54412), (541, 54448), (582, 54628), (596, 54670), (603, 54706), (643, 54760), (651, 54778), (669, 54874), (671, 54886), (739, 55081), (798, 55165), (827, 55270), (831, 55285), (840, 55321), (844, 55333), (845, 55339), (846, 55342), (855, 55369), (873, 55414), (893, 55522), (906, 55567), (912, 55591), (922, 55627),

Gene: Blackbrain_206 Start: 112974, Stop: 116369, Start Num: 68

Candidate Starts for Blackbrain_206:

(Start: 26 @112881 has 44 MA's), (Start: 28 @112887 has 6 MA's), (Start: 32 @112899 has 8 MA's), (37, 112908), (Start: 68 @112974 has 162 MA's), (84, 113049), (103, 113163), (109, 113187), (127, 113247), (151, 113358), (157, 113397), (164, 113421), (173, 113463), (203, 113562), (214, 113604), (216, 113610), (219, 113622), (229, 113685), (242, 113745), (243, 113748), (250, 113775), (261, 113817), (279, 113880), (330, 114036), (335, 114054), (338, 114069), (351, 114186), (357, 114225), (372, 114345), (380, 114387), (389, 114432), (391, 114441), (402, 114492), (414, 114534), (432, 114600), (434, 114609), (435, 114612), (436, 114618), (437, 114621), (438, 114630), (439, 114636), (440, 114651), (462, 114738), (483, 114843), (495, 114897), (510, 114984), (516, 115014), (526, 115044), (533, 115077), (535, 115086), (546, 115158), (552, 115188), (577, 115305), (589, 115350), (601, 115392), (660, 115536), (675, 115596), (715, 115698), (750, 115785), (751, 115788), (761, 115806), (771, 115842), (772, 115845), (793, 115905), (798, 115923), (827, 116019), (836, 116049), (839, 116067), (846, 116097), (879, 116190), (883, 116205), (900, 116286), (902, 116292), (905, 116304),

Gene: Blackdragon_204 Start: 112713, Stop: 116108, Start Num: 68

Candidate Starts for Blackdragon_204:

(Start: 18 @112590 has 4 MA's), (Start: 26 @112620 has 44 MA's), (Start: 28 @112626 has 6 MA's), (Start: 32 @112638 has 8 MA's), (37, 112647), (Start: 68 @112713 has 162 MA's), (84, 112788), (103, 112902), (109, 112926), (127, 112986), (151, 113097), (157, 113136), (164, 113160), (173, 113202), (203, 113301), (214, 113343), (216, 113349), (219, 113361), (229, 113424), (242, 113484), (243, 113487), (250, 113514), (261, 113556), (279, 113619), (321, 113739), (330, 113775), (335, 113793), (338, 113808), (351, 113925), (357, 113964), (372, 114084), (380, 114126), (389, 114171), (391, 114180), (402, 114231), (414, 114273), (432, 114339), (434, 114348), (435, 114351), (436, 114357), (437, 114360), (438, 114369), (439, 114375), (440, 114390), (462, 114477), (483, 114582), (495, 114636), (510, 114723), (516, 114753), (526, 114783), (533, 114816), (535, 114825), (546, 114897), (552, 114927), (577, 115044), (589, 115089), (601, 115131), (660, 115275), (675, 115335), (715, 115437), (750, 115524), (751, 115527), (761, 115545), (771, 115581), (772, 115584), (793, 115644), (798, 115662), (827, 115758), (836, 115788), (839, 115806), (846, 115836), (879, 115929), (883, 115944), (900, 116025), (902, 116031), (905, 116043),

Gene: Blubba_205 Start: 116099, Stop: 119494, Start Num: 68

Candidate Starts for Blubba_205:

(Start: 26 @116006 has 44 MA's), (Start: 28 @116012 has 6 MA's), (Start: 32 @116024 has 8 MA's), (37, 116033), (Start: 68 @116099 has 162 MA's), (84, 116174), (103, 116288), (109, 116312), (127, 116372), (151, 116483), (157, 116522), (164, 116546), (173, 116588), (203, 116687), (214, 116729), (216, 116735), (219, 116747), (229, 116810), (242, 116870), (243, 116873), (250, 116900), (261, 116942), (279, 117005), (330, 117161), (335, 117179), (338, 117194), (351, 117311), (357, 117350), (372, 117470), (380, 117512), (389, 117557), (391, 117566), (402, 117617), (414, 117659), (432, 117725), (434, 117734), (435, 117737), (436, 117743), (437, 117746), (438, 117755), (439, 117761),

(440, 117776), (462, 117863), (483, 117968), (495, 118022), (510, 118109), (516, 118139), (526, 118169), (533, 118202), (535, 118211), (546, 118283), (552, 118313), (577, 118430), (589, 118475), (601, 118517), (660, 118661), (675, 118721), (715, 118823), (750, 118910), (751, 118913), (761, 118931), (771, 118967), (772, 118970), (793, 119030), (798, 119048), (827, 119144), (836, 119174), (839, 119192), (846, 119222), (879, 119315), (883, 119330), (902, 119417), (905, 119429), (916, 119468),

Gene: BlueOtter_82 Start: 59162, Stop: 62446, Start Num: 70

Candidate Starts for BlueOtter_82:

(Start: 70 @59162 has 57 MA's), (79, 59207), (85, 59237), (88, 59255), (Start: 89 @59261 has 6 MA's), (146, 59540), (168, 59642), (189, 59720), (213, 59825), (225, 59888), (227, 59894), (236, 59933), (262, 60050), (304, 60134), (337, 60260), (345, 60290), (349, 60329), (350, 60338), (380, 60536), (439, 60716), (460, 60821), (461, 60827), (462, 60833), (478, 60917), (486, 60947), (502, 60989), (508, 61016), (514, 61049), (517, 61061), (534, 61124), (546, 61196), (559, 61250), (562, 61259), (564, 61268), (566, 61277), (568, 61283), (622, 61526), (638, 61595), (641, 61607), (664, 61712), (725, 61907), (736, 61940), (759, 61991), (771, 62030), (773, 62036), (791, 62102), (806, 62150), (818, 62186), (830, 62231), (832, 62240), (842, 62282), (857, 62327), (858, 62330), (864, 62345),

Gene: Blueeyedbeauty_60 Start: 48314, Stop: 51508, Start Num: 89

Candidate Starts for Blueeyedbeauty_60:

(Start: 70 @48218 has 57 MA's), (85, 48290), (Start: 89 @48314 has 6 MA's), (146, 48593), (153, 48623), (159, 48653), (202, 48824), (213, 48878), (225, 48941), (234, 48983), (236, 48986), (337, 49313), (348, 49379), (372, 49547), (430, 49727), (434, 49742), (439, 49769), (448, 49823), (461, 49880), (462, 49886), (473, 49949), (487, 50003), (502, 50042), (517, 50114), (534, 50177), (543, 50237), (544, 50246), (546, 50249), (559, 50303), (562, 50312), (564, 50321), (566, 50330), (568, 50336), (598, 50450), (608, 50528), (619, 50552), (626, 50588), (638, 50648), (640, 50654), (644, 50666), (665, 50771), (727, 50969), (757, 51035), (758, 51038), (759, 51044), (791, 51155), (792, 51161), (793, 51164), (800, 51185), (811, 51215), (820, 51248), (826, 51272), (842, 51335), (846, 51347), (861, 51386), (864, 51398), (888, 51485),

Gene: Bmoc_78 Start: 57819, Stop: 61103, Start Num: 70

Candidate Starts for Bmoc_78:

(Start: 70 @57819 has 57 MA's), (79, 57864), (85, 57894), (Start: 89 @57918 has 6 MA's), (146, 58197), (168, 58299), (189, 58377), (213, 58482), (225, 58545), (227, 58551), (236, 58590), (262, 58707), (310, 58806), (337, 58917), (349, 58986), (355, 59025), (379, 59190), (389, 59238), (394, 59259), (439, 59373), (440, 59388), (460, 59478), (461, 59484), (462, 59490), (478, 59574), (499, 59637), (502, 59646), (508, 59673), (517, 59718), (534, 59781), (546, 59853), (559, 59907), (562, 59916), (564, 59925), (566, 59934), (568, 59940), (622, 60183), (638, 60252), (641, 60264), (642, 60267), (670, 60378), (759, 60648), (783, 60720), (791, 60759), (806, 60807), (830, 60888), (832, 60897), (842, 60939), (858, 60987), (864, 61002), (876, 61041),

Gene: Bonray_211 Start: 114482, Stop: 117877, Start Num: 68

Candidate Starts for Bonray_211:

(Start: 26 @114389 has 44 MA's), (Start: 28 @114395 has 6 MA's), (Start: 32 @114407 has 8 MA's), (37, 114416), (Start: 68 @114482 has 162 MA's), (84, 114557), (103, 114671), (109, 114695), (127, 114755), (151, 114866), (157, 114905), (164, 114929), (173, 114971), (203, 115070), (214, 115112), (216, 115118), (219, 115130), (229, 115193), (242, 115253), (243, 115256), (250, 115283), (261, 115325), (279, 115388), (321, 115508), (330, 115544), (335, 115562), (338, 115577), (351, 115694), (357, 115733), (372, 115853), (380, 115895), (389, 115940), (391, 115949), (402, 116000), (414, 116042), (432, 116108), (434, 116117), (435, 116120), (436, 116126), (437, 116129), (438, 116138), (439, 116144), (440, 116159), (462, 116246), (483, 116351), (495, 116405), (510, 116492), (516, 116522), (526, 116552), (533, 116585), (535, 116594), (546, 116666), (552, 116696), (577, 116813),

(589, 116858), (601, 116900), (660, 117044), (675, 117104), (715, 117206), (750, 117293), (751, 117296), (761, 117314), (771, 117350), (772, 117353), (793, 117413), (798, 117431), (827, 117527), (836, 117557), (839, 117575), (846, 117605), (879, 117698), (883, 117713), (900, 117794), (902, 117800), (905, 117812),

Gene: Bonum_63 Start: 48540, Stop: 45238, Start Num: 73

Candidate Starts for Bonum_63:

(Start: 73 @48540 has 88 MA's), (74, 48531), (Start: 89 @48444 has 6 MA's), (128, 48291), (130, 48282), (155, 48159), (194, 48000), (197, 47994), (204, 47970), (225, 47862), (252, 47751), (292, 47625), (335, 47454), (343, 47412), (354, 47334), (356, 47319), (376, 47181), (402, 47049), (431, 46983), (441, 46926), (454, 46866), (466, 46815), (481, 46746), (494, 46701), (549, 46458), (558, 46416), (559, 46413), (561, 46407), (565, 46389), (590, 46293), (603, 46239), (669, 46086), (686, 46026), (695, 46011), (735, 45882), (769, 45804), (790, 45744), (794, 45723), (795, 45720), (801, 45702), (824, 45618), (841, 45558), (849, 45531), (850, 45528), (874, 45462), (916, 45279), (925, 45249),

Gene: BoomerJR_82 Start: 58278, Stop: 61598, Start Num: 69

Candidate Starts for BoomerJR_82:

(Start: 69 @58278 has 26 MA's), (85, 58350), (Start: 89 @58374 has 6 MA's), (102, 58455), (146, 58653), (189, 58833), (200, 58881), (213, 58938), (223, 58989), (225, 59007), (228, 59016), (236, 59052), (259, 59160), (262, 59169), (302, 59241), (337, 59379), (349, 59448), (372, 59613), (387, 59691), (438, 59853), (441, 59877), (462, 59976), (478, 60060), (502, 60132), (546, 60336), (559, 60390), (562, 60399), (566, 60417), (568, 60423), (598, 60537), (608, 60615), (619, 60639), (622, 60666), (678, 60918), (679, 60921), (686, 60939), (693, 60951), (722, 61041), (740, 61101), (759, 61143), (771, 61182), (773, 61188), (783, 61215), (791, 61254), (806, 61302), (809, 61311), (830, 61383), (833, 61395), (836, 61404), (841, 61431), (842, 61434), (847, 61449), (858, 61482), (876, 61536), (882, 61551),

Gene: Bordeaux_80 Start: 58572, Stop: 61892, Start Num: 69

Candidate Starts for Bordeaux_80:

(Start: 69 @58572 has 26 MA's), (80, 58623), (85, 58644), (Start: 89 @58668 has 6 MA's), (102, 58749), (146, 58947), (189, 59127), (195, 59160), (200, 59175), (213, 59232), (223, 59283), (225, 59301), (228, 59310), (236, 59346), (259, 59454), (262, 59463), (337, 59673), (349, 59742), (372, 59907), (387, 59985), (438, 60147), (462, 60270), (466, 60294), (478, 60354), (502, 60426), (546, 60630), (559, 60684), (562, 60693), (566, 60711), (568, 60717), (607, 60900), (608, 60909), (619, 60933), (622, 60960), (648, 61068), (696, 61257), (722, 61335), (732, 61377), (740, 61395), (759, 61437), (771, 61476), (773, 61482), (783, 61509), (791, 61548), (806, 61596), (809, 61605), (830, 61677), (836, 61698), (841, 61725), (842, 61728), (847, 61743), (858, 61776), (882, 61845),

Gene: Bovely_53 Start: 40239, Stop: 36760, Start Num: 68

Candidate Starts for Bovely_53:

(6, 40449), (Start: 68 @40239 has 162 MA's), (84, 40167), (Start: 89 @40140 has 6 MA's), (91, 40125), (123, 39963), (126, 39936), (128, 39930), (144, 39840), (150, 39825), (160, 39771), (161, 39768), (188, 39672), (218, 39594), (247, 39447), (257, 39408), (269, 39363), (276, 39342), (283, 39327), (304, 39285), (308, 39273), (325, 39207), (329, 39195), (343, 39132), (359, 39003), (360, 38994), (366, 38958), (381, 38874), (383, 38856), (398, 38799), (399, 38796), (401, 38784), (438, 38646), (439, 38640), (440, 38625), (442, 38619), (449, 38586), (468, 38508), (474, 38475), (512, 38334), (530, 38277), (534, 38253), (535, 38247), (546, 38178), (558, 38115), (574, 38049), (578, 38028), (583, 38010), (601, 37953), (602, 37944), (655, 37836), (657, 37827), (661, 37815), (663, 37794), (673, 37764), (678, 37737), (709, 37671), (711, 37662), (714, 37650), (747, 37563), (756, 37539), (772, 37491), (812, 37347), (832, 37272), (880, 37098), (887, 37062), (899, 37014), (908, 36981),

Gene: Braelyn_79 Start: 58581, Stop: 61865, Start Num: 70

Candidate Starts for Braelyn_79:

(Start: 70 @58581 has 57 MA's), (79, 58626), (85, 58656), (88, 58674), (Start: 89 @58680 has 6 MA's), (146, 58959), (149, 58965), (168, 59061), (189, 59139), (213, 59244), (225, 59307), (227, 59313), (236, 59352), (262, 59469), (310, 59568), (337, 59679), (345, 59709), (349, 59748), (387, 59991), (394, 60021), (439, 60135), (440, 60150), (460, 60240), (461, 60246), (462, 60252), (478, 60336), (499, 60399), (502, 60408), (517, 60480), (534, 60543), (546, 60615), (559, 60669), (562, 60678), (564, 60687), (566, 60696), (568, 60702), (587, 60783), (606, 60882), (622, 60945), (638, 61014), (641, 61026), (689, 61212), (696, 61230), (725, 61326), (736, 61359), (759, 61410), (773, 61455), (791, 61521), (800, 61551), (806, 61569), (830, 61650), (837, 61680), (842, 61701), (858, 61749), (864, 61764),

Gene: Brataylor_57 Start: 42019, Stop: 38543, Start Num: 68

Candidate Starts for Brataylor_57:

(Start: 36 @42088 has 1 MA's), (Start: 68 @42019 has 162 MA's), (Start: 82 @41959 has 1 MA's), (84, 41950), (91, 41908), (107, 41815), (123, 41746), (135, 41677), (144, 41623), (161, 41551), (188, 41455), (218, 41377), (247, 41230), (257, 41191), (266, 41164), (269, 41146), (276, 41125), (283, 41110), (325, 40990), (329, 40978), (358, 40792), (359, 40786), (381, 40657), (383, 40639), (398, 40582), (399, 40579), (401, 40567), (438, 40429), (439, 40423), (440, 40408), (442, 40402), (449, 40369), (468, 40291), (474, 40258), (512, 40117), (534, 40036), (535, 40030), (546, 39961), (555, 39919), (558, 39898), (564, 39877), (574, 39832), (583, 39793), (601, 39736), (602, 39727), (652, 39646), (655, 39619), (661, 39598), (663, 39577), (673, 39547), (678, 39520), (709, 39454), (711, 39445), (714, 39433), (747, 39346), (796, 39178), (812, 39130), (835, 39046), (880, 38881), (883, 38872), (887, 38845), (899, 38797), (900, 38791), (906, 38770), (908, 38764), (931, 38659), (934, 38620), (943, 38557),

Gene: Braxoaddie_59 Start: 45750, Stop: 42334, Start Num: 73

Candidate Starts for Braxoaddie_59:

(Start: 73 @45750 has 88 MA's), (86, 45669), (Start: 89 @45654 has 6 MA's), (107, 45546), (110, 45540), (130, 45492), (145, 45411), (155, 45369), (209, 45159), (212, 45144), (216, 45135), (221, 45111), (224, 45081), (232, 45042), (252, 44961), (262, 44919), (297, 44784), (325, 44670), (338, 44619), (340, 44601), (343, 44592), (354, 44514), (356, 44499), (359, 44460), (366, 44421), (382, 44328), (393, 44277), (395, 44271), (402, 44232), (439, 44127), (440, 44112), (441, 44109), (466, 43995), (467, 43992), (472, 43962), (476, 43944), (477, 43941), (478, 43935), (479, 43932), (488, 43899), (494, 43878), (536, 43710), (550, 43632), (558, 43593), (559, 43590), (561, 43584), (565, 43566), (590, 43470), (596, 43452), (603, 43416), (651, 43344), (669, 43251), (671, 43239), (688, 43176), (707, 43119), (746, 42990), (756, 42960), (775, 42900), (777, 42897), (790, 42843), (814, 42753), (824, 42717), (837, 42672), (841, 42657), (853, 42615), (872, 42570), (884, 42516), (885, 42507), (887, 42495), (889, 42489), (892, 42471), (904, 42420), (905, 42417), (916, 42375),

Gene: Bread_204 Start: 112387, Stop: 115875, Start Num: 26

Candidate Starts for Bread_204:

(Start: 26 @112387 has 44 MA's), (Start: 28 @112393 has 6 MA's), (Start: 32 @112405 has 8 MA's), (37, 112414), (Start: 68 @112480 has 162 MA's), (84, 112555), (103, 112669), (109, 112693), (127, 112753), (151, 112864), (157, 112903), (164, 112927), (173, 112969), (203, 113068), (214, 113110), (216, 113116), (219, 113128), (229, 113191), (242, 113251), (243, 113254), (250, 113281), (261, 113323), (279, 113386), (330, 113542), (335, 113560), (338, 113575), (351, 113692), (357, 113731), (372, 113851), (380, 113893), (389, 113938), (391, 113947), (402, 113998), (414, 114040), (432, 114106), (434, 114115), (435, 114118), (436, 114124), (437, 114127), (438, 114136), (439, 114142), (440, 114157), (462, 114244), (483, 114349), (495, 114403), (510, 114490), (516, 114520), (526, 114550), (533, 114583), (535, 114592), (546, 114664), (552, 114694), (577, 114811), (589, 114856), (601, 114898), (660, 115042), (675, 115102), (715, 115204), (750, 115291), (751, 115294), (761, 115312), (771, 115348), (772, 115351), (793, 115411), (798, 115429), (827, 115525), (836, 115555),

(839, 115573), (846, 115603), (879, 115696), (883, 115711), (900, 115792), (902, 115798), (905, 115810),

Gene: Breeniome_208 Start: 111841, Stop: 115329, Start Num: 26

Candidate Starts for Breeniome_208:

(Start: 26 @111841 has 44 MA's), (Start: 28 @111847 has 6 MA's), (Start: 32 @111859 has 8 MA's), (37, 111868), (Start: 68 @111934 has 162 MA's), (84, 112009), (103, 112123), (109, 112147), (127, 112207), (151, 112318), (157, 112357), (164, 112381), (173, 112423), (203, 112522), (214, 112564), (216, 112570), (219, 112582), (229, 112645), (242, 112705), (243, 112708), (250, 112735), (261, 112777), (279, 112840), (330, 112996), (335, 113014), (338, 113029), (351, 113146), (357, 113185), (372, 113305), (380, 113347), (389, 113392), (391, 113401), (402, 113452), (414, 113494), (432, 113560), (434, 113569), (435, 113572), (436, 113578), (437, 113581), (438, 113590), (439, 113596), (440, 113611), (462, 113698), (483, 113803), (495, 113857), (510, 113944), (516, 113974), (526, 114004), (533, 114037), (535, 114046), (546, 114118), (552, 114148), (577, 114265), (589, 114310), (601, 114352), (660, 114496), (675, 114556), (715, 114658), (750, 114745), (751, 114748), (761, 114766), (771, 114802), (772, 114805), (793, 114865), (798, 114883), (827, 114979), (836, 115009), (839, 115027), (846, 115057), (879, 115150), (883, 115165), (900, 115246), (902, 115252), (905, 115264),

Gene: BryanRecycles_55 Start: 40726, Stop: 37247, Start Num: 68

Candidate Starts for BryanRecycles_55:

(Start: 36 @40795 has 1 MA's), (Start: 68 @40726 has 162 MA's), (84, 40654), (Start: 89 @40627 has 6 MA's), (91, 40612), (123, 40450), (126, 40423), (128, 40417), (144, 40327), (150, 40312), (160, 40258), (161, 40255), (188, 40159), (218, 40081), (247, 39934), (257, 39895), (269, 39850), (276, 39829), (283, 39814), (304, 39772), (308, 39760), (325, 39694), (329, 39682), (343, 39619), (359, 39490), (360, 39481), (366, 39445), (381, 39361), (383, 39343), (398, 39286), (399, 39283), (401, 39271), (438, 39133), (439, 39127), (440, 39112), (442, 39106), (451, 39067), (468, 38995), (474, 38962), (508, 38845), (512, 38821), (530, 38764), (534, 38740), (535, 38734), (546, 38665), (558, 38602), (574, 38536), (578, 38515), (583, 38497), (601, 38440), (602, 38431), (655, 38323), (657, 38314), (661, 38302), (663, 38281), (673, 38251), (678, 38224), (709, 38158), (711, 38149), (714, 38137), (747, 38050), (756, 38026), (772, 37978), (812, 37834), (832, 37759), (880, 37585), (887, 37549), (899, 37501), (908, 37468),

Gene: Buggaboo_61 Start: 49019, Stop: 45717, Start Num: 73

Candidate Starts for Buggaboo_61:

(33, 49094), (Start: 73 @49019 has 88 MA's), (Start: 89 @48923 has 6 MA's), (128, 48770), (130, 48761), (155, 48638), (194, 48479), (197, 48473), (204, 48449), (225, 48341), (252, 48230), (292, 48104), (335, 47933), (343, 47891), (354, 47813), (356, 47798), (376, 47660), (402, 47528), (431, 47462), (441, 47405), (454, 47345), (466, 47294), (473, 47255), (481, 47225), (494, 47180), (549, 46937), (558, 46895), (559, 46892), (561, 46886), (565, 46868), (590, 46772), (603, 46718), (669, 46565), (686, 46505), (695, 46490), (735, 46361), (769, 46283), (790, 46223), (794, 46202), (795, 46199), (801, 46181), (824, 46097), (841, 46037), (849, 46010), (916, 45758), (925, 45728),

Gene: Burrough_211 Start: 114157, Stop: 117645, Start Num: 26

Candidate Starts for Burrough_211:

(Start: 26 @114157 has 44 MA's), (Start: 28 @114163 has 6 MA's), (Start: 32 @114175 has 8 MA's), (37, 114184), (Start: 68 @114250 has 162 MA's), (84, 114325), (103, 114439), (109, 114463), (127, 114523), (151, 114634), (157, 114673), (164, 114697), (173, 114739), (203, 114838), (214, 114880), (216, 114886), (219, 114898), (229, 114961), (242, 115021), (243, 115024), (250, 115051), (261, 115093), (279, 115156), (330, 115312), (335, 115330), (338, 115345), (351, 115462), (357, 115501), (372, 115621), (380, 115663), (389, 115708), (391, 115717), (402, 115768), (414, 115810), (432, 115876), (434, 115885), (435, 115888), (436, 115894), (437, 115897), (438, 115906), (439, 115912), (440, 115927), (462, 116014), (483, 116119), (495, 116173), (510, 116260), (516, 116290), (526,

116320), (533, 116353), (535, 116362), (546, 116434), (552, 116464), (577, 116581), (589, 116626), (601, 116668), (660, 116812), (675, 116872), (715, 116974), (750, 117061), (751, 117064), (761, 117082), (771, 117118), (772, 117121), (793, 117181), (798, 117199), (827, 117295), (836, 117325), (839, 117343), (846, 117373), (879, 117466), (883, 117481), (900, 117562), (902, 117568), (905, 117580),

Gene: Butterscotch_65 Start: 49750, Stop: 53052, Start Num: 29

Candidate Starts for Butterscotch_65:

(Start: 29 @49750 has 19 MA's), (Start: 64 @49837 has 1 MA's), (Start: 67 @49843 has 1 MA's), (Start: 73 @49852 has 88 MA's), (Start: 89 @49948 has 6 MA's), (130, 50104), (148, 50191), (149, 50194), (159, 50245), (224, 50509), (232, 50548), (249, 50620), (252, 50629), (270, 50704), (292, 50770), (294, 50776), (309, 50830), (316, 50848), (325, 50899), (326, 50902), (334, 50932), (349, 51016), (350, 51025), (354, 51052), (356, 51067), (382, 51244), (383, 51253), (412, 51358), (438, 51439), (448, 51499), (466, 51574), (472, 51607), (473, 51613), (478, 51634), (481, 51643), (494, 51688), (514, 51757), (520, 51772), (536, 51841), (547, 51904), (556, 51937), (557, 51940), (568, 51991), (584, 52066), (643, 52189), (651, 52207), (668, 52285), (669, 52288), (671, 52300), (685, 52345), (695, 52366), (699, 52378), (711, 52408), (717, 52429), (777, 52501), (798, 52558), (826, 52657), (844, 52723), (875, 52813), (881, 52843), (882, 52846), (896, 52921), (907, 52963), (914, 52993), (918, 53005), (922, 53020), (925, 53029),

Gene: Bxz1_199 Start: 115449, Stop: 118844, Start Num: 68

Candidate Starts for Bxz1_199:

(Start: 26 @115356 has 44 MA's), (Start: 28 @115362 has 6 MA's), (Start: 32 @115374 has 8 MA's), (37, 115383), (Start: 68 @115449 has 162 MA's), (84, 115524), (103, 115638), (109, 115662), (127, 115722), (151, 115833), (157, 115872), (164, 115896), (173, 115938), (203, 116037), (214, 116079), (216, 116085), (219, 116097), (229, 116160), (242, 116220), (243, 116223), (250, 116250), (261, 116292), (279, 116355), (330, 116511), (335, 116529), (338, 116544), (351, 116661), (357, 116700), (372, 116820), (380, 116862), (389, 116907), (391, 116916), (402, 116967), (414, 117009), (432, 117075), (434, 117084), (435, 117087), (436, 117093), (437, 117096), (438, 117105), (439, 117111), (440, 117126), (462, 117213), (483, 117318), (495, 117372), (510, 117459), (516, 117489), (526, 117519), (533, 117552), (535, 117561), (546, 117633), (552, 117663), (577, 117780), (589, 117825), (601, 117867), (660, 118011), (675, 118071), (715, 118173), (750, 118260), (751, 118263), (761, 118281), (771, 118317), (772, 118320), (793, 118380), (798, 118398), (827, 118494), (836, 118524), (839, 118542), (846, 118572), (879, 118665), (883, 118680), (900, 118761), (902, 118767), (905, 118779),

Gene: C3PO_43 Start: 41952, Stop: 38659, Start Num: 73

Candidate Starts for C3PO_43:

(Start: 73 @41952 has 88 MA's), (81, 41895), (86, 41871), (Start: 89 @41856 has 6 MA's), (90, 41847), (130, 41700), (182, 41418), (194, 41340), (212, 41274), (267, 41031), (300, 40926), (325, 40824), (337, 40776), (354, 40671), (356, 40656), (368, 40560), (419, 40341), (420, 40338), (429, 40323), (437, 40293), (440, 40263), (466, 40146), (472, 40113), (478, 40086), (484, 40062), (525, 39915), (526, 39909), (534, 39873), (536, 39861), (539, 39840), (557, 39765), (559, 39747), (603, 39570), (637, 39540), (645, 39513), (651, 39498), (683, 39369), (721, 39336), (763, 39249), (798, 39135), (801, 39129), (805, 39117), (846, 38967), (847, 38964), (849, 38958), (855, 38940), (859, 38931), (867, 38913), (891, 38811), (893, 38787), (903, 38751), (904, 38745),

Gene: Cactojaque_204 Start: 111909, Stop: 115304, Start Num: 68

Candidate Starts for Cactojaque_204:

(Start: 26 @111816 has 44 MA's), (Start: 28 @111822 has 6 MA's), (Start: 32 @111834 has 8 MA's), (37, 111843), (Start: 68 @111909 has 162 MA's), (84, 111984), (103, 112098), (109, 112122), (127, 112182), (151, 112293), (157, 112332), (164, 112356), (173, 112398), (203, 112497), (214, 112539), (216, 112545), (219, 112557), (229, 112620), (242, 112680), (243, 112683), (250, 112710), (261,

112752), (279, 112815), (321, 112935), (330, 112971), (335, 112989), (338, 113004), (351, 113121), (357, 113160), (372, 113280), (380, 113322), (389, 113367), (391, 113376), (402, 113427), (414, 113469), (432, 113535), (434, 113544), (435, 113547), (436, 113553), (437, 113556), (438, 113565), (439, 113571), (440, 113586), (462, 113673), (483, 113778), (495, 113832), (510, 113919), (516, 113949), (526, 113979), (533, 114012), (535, 114021), (546, 114093), (552, 114123), (577, 114240), (589, 114285), (601, 114327), (660, 114471), (675, 114531), (715, 114633), (750, 114720), (751, 114723), (761, 114741), (771, 114777), (772, 114780), (793, 114840), (798, 114858), (827, 114954), (836, 114984), (839, 115002), (846, 115032), (879, 115125), (883, 115140), (900, 115221), (902, 115227), (905, 115239),

Gene: Cali_202 Start: 113769, Stop: 117251, Start Num: 28

Candidate Starts for Cali_202:

(Start: 18 @113733 has 4 MA's), (Start: 26 @113763 has 44 MA's), (Start: 28 @113769 has 6 MA's), (Start: 32 @113781 has 8 MA's), (37, 113790), (Start: 68 @113856 has 162 MA's), (84, 113931), (103, 114045), (109, 114069), (127, 114129), (151, 114240), (157, 114279), (164, 114303), (173, 114345), (203, 114444), (214, 114486), (216, 114492), (219, 114504), (229, 114567), (242, 114627), (243, 114630), (250, 114657), (261, 114699), (279, 114762), (321, 114882), (330, 114918), (335, 114936), (338, 114951), (351, 115068), (357, 115107), (372, 115227), (380, 115269), (389, 115314), (391, 115323), (402, 115374), (414, 115416), (432, 115482), (434, 115491), (435, 115494), (436, 115500), (437, 115503), (438, 115512), (439, 115518), (440, 115533), (462, 115620), (483, 115725), (495, 115779), (510, 115866), (516, 115896), (526, 115926), (533, 115959), (535, 115968), (546, 116040), (552, 116070), (577, 116187), (589, 116232), (601, 116274), (660, 116418), (675, 116478), (715, 116580), (750, 116667), (751, 116670), (761, 116688), (771, 116724), (772, 116727), (793, 116787), (798, 116805), (827, 116901), (836, 116931), (839, 116949), (846, 116979), (879, 117072), (883, 117087), (900, 117168), (902, 117174), (905, 117186),

Gene: Caliburn_52 Start: 40340, Stop: 36861, Start Num: 68

Candidate Starts for Caliburn_52:

(6, 40550), (Start: 68 @40340 has 162 MA's), (84, 40268), (Start: 89 @40241 has 6 MA's), (91, 40226), (123, 40064), (126, 40037), (128, 40031), (144, 39941), (150, 39926), (160, 39872), (161, 39869), (188, 39773), (218, 39695), (247, 39548), (257, 39509), (269, 39464), (276, 39443), (283, 39428), (304, 39386), (308, 39374), (325, 39308), (329, 39296), (343, 39233), (359, 39104), (360, 39095), (366, 39059), (381, 38975), (383, 38957), (398, 38900), (399, 38897), (401, 38885), (438, 38747), (439, 38741), (440, 38726), (442, 38720), (451, 38681), (456, 38663), (468, 38609), (474, 38576), (512, 38435), (534, 38354), (535, 38348), (546, 38279), (558, 38216), (574, 38150), (578, 38129), (583, 38111), (601, 38054), (602, 38045), (655, 37937), (657, 37928), (661, 37916), (663, 37895), (673, 37865), (678, 37838), (709, 37772), (711, 37763), (714, 37751), (747, 37664), (756, 37640), (772, 37592), (812, 37448), (832, 37373), (880, 37199), (887, 37163), (899, 37115), (908, 37082), (934, 36938),

Gene: Cane17_200 Start: 116508, Stop: 119903, Start Num: 68

Candidate Starts for Cane17_200:

(Start: 26 @116415 has 44 MA's), (Start: 28 @116421 has 6 MA's), (Start: 32 @116433 has 8 MA's), (37, 116442), (Start: 68 @116508 has 162 MA's), (84, 116583), (103, 116697), (109, 116721), (127, 116781), (151, 116892), (157, 116931), (164, 116955), (173, 116997), (203, 117096), (214, 117138), (216, 117144), (219, 117156), (229, 117219), (242, 117279), (243, 117282), (250, 117309), (261, 117351), (279, 117414), (330, 117570), (335, 117588), (338, 117603), (351, 117720), (357, 117759), (372, 117879), (380, 117921), (389, 117966), (391, 117975), (402, 118026), (414, 118068), (432, 118134), (434, 118143), (435, 118146), (436, 118152), (437, 118155), (438, 118164), (439, 118170), (440, 118185), (462, 118272), (483, 118377), (495, 118431), (510, 118518), (516, 118548), (526, 118578), (533, 118611), (535, 118620), (546, 118692), (552, 118722), (577, 118839), (589, 118884), (601, 118926), (660, 119070), (675, 119130), (715, 119232), (750, 119319), (751, 119322), (761, 119340), (771, 119376), (772, 119379), (793, 119439), (798, 119457), (827, 119553), (836, 119583),

(839, 119601), (846, 119631), (879, 119724), (883, 119739), (902, 119826), (905, 119838), (916, 119877),

Gene: Cantare_64 Start: 54042, Stop: 56888, Start Num: 56

Candidate Starts for Cantare_64:

(48, 54024), (Start: 56 @54042 has 2 MA's), (66, 54060), (80, 54120), (84, 54138), (92, 54198), (101, 54243), (107, 54273), (113, 54288), (125, 54345), (136, 54396), (155, 54489), (164, 54528), (170, 54564), (173, 54570), (196, 54645), (198, 54648), (204, 54669), (207, 54678), (210, 54696), (211, 54702), (226, 54780), (229, 54789), (262, 54921), (275, 54972), (276, 54975), (280, 54984), (290, 54996), (312, 55050), (329, 55122), (330, 55128), (348, 55221), (349, 55224), (351, 55236), (354, 55260), (355, 55263), (361, 55326), (374, 55413), (385, 55473), (406, 55548), (423, 55611), (432, 55653), (434, 55662), (436, 55671), (439, 55689), (450, 55752), (462, 55794), (464, 55803), (468, 55827), (469, 55833), (474, 55860), (479, 55881), (508, 55974), (528, 56049), (532, 56067), (534, 56079), (551, 56175), (564, 56235), (565, 56241), (586, 56322), (595, 56352), (646, 56466), (654, 56502), (655, 56511), (669, 56562), (676, 56595), (689, 56634), (714, 56697), (716, 56703), (732, 56757), (744, 56784), (749, 56805), (772, 56871),

Gene: Capablanca_214 Start: 115077, Stop: 118472, Start Num: 68

Candidate Starts for Capablanca_214:

(Start: 26 @114984 has 44 MA's), (Start: 28 @114990 has 6 MA's), (Start: 32 @115002 has 8 MA's), (37, 115011), (Start: 68 @115077 has 162 MA's), (84, 115152), (103, 115266), (109, 115290), (127, 115350), (151, 115461), (157, 115500), (164, 115524), (173, 115566), (203, 115665), (214, 115707), (216, 115713), (219, 115725), (229, 115788), (242, 115848), (243, 115851), (250, 115878), (261, 115920), (279, 115983), (330, 116139), (335, 116157), (338, 116172), (351, 116289), (357, 116328), (372, 116448), (380, 116490), (389, 116535), (391, 116544), (402, 116595), (414, 116637), (432, 116703), (434, 116712), (435, 116715), (436, 116721), (437, 116724), (438, 116733), (439, 116739), (440, 116754), (462, 116841), (483, 116946), (495, 117000), (510, 117087), (516, 117117), (526, 117147), (533, 117180), (535, 117189), (546, 117261), (552, 117291), (577, 117408), (589, 117453), (601, 117495), (660, 117639), (675, 117699), (715, 117801), (750, 117888), (751, 117891), (761, 117909), (771, 117945), (772, 117948), (793, 118008), (798, 118026), (827, 118122), (836, 118152), (839, 118170), (846, 118200), (879, 118293), (883, 118308), (900, 118389), (902, 118395), (905, 118407),

Gene: Caravan_200 Start: 113104, Stop: 116592, Start Num: 26

Candidate Starts for Caravan_200:

(Start: 26 @113104 has 44 MA's), (Start: 28 @113110 has 6 MA's), (Start: 32 @113122 has 8 MA's), (37, 113131), (Start: 68 @113197 has 162 MA's), (84, 113272), (103, 113386), (109, 113410), (127, 113470), (151, 113581), (157, 113620), (164, 113644), (173, 113686), (203, 113785), (214, 113827), (216, 113833), (219, 113845), (229, 113908), (242, 113968), (243, 113971), (250, 113998), (261, 114040), (279, 114103), (330, 114259), (335, 114277), (338, 114292), (351, 114409), (357, 114448), (372, 114568), (380, 114610), (389, 114655), (391, 114664), (402, 114715), (414, 114757), (432, 114823), (434, 114832), (435, 114835), (436, 114841), (437, 114844), (438, 114853), (439, 114859), (440, 114874), (462, 114961), (483, 115066), (495, 115120), (510, 115207), (516, 115237), (526, 115267), (533, 115300), (535, 115309), (546, 115381), (552, 115411), (577, 115528), (589, 115573), (601, 115615), (660, 115759), (675, 115819), (715, 115921), (750, 116008), (751, 116011), (761, 116029), (771, 116065), (772, 116068), (793, 116128), (798, 116146), (827, 116242), (836, 116272), (839, 116290), (846, 116320), (879, 116413), (883, 116428), (900, 116509), (902, 116515), (905, 116527),

Gene: Catera_201 Start: 111590, Stop: 114985, Start Num: 68

Candidate Starts for Catera_201:

(Start: 26 @111497 has 44 MA's), (Start: 28 @111503 has 6 MA's), (Start: 32 @111515 has 8 MA's), (37, 111524), (Start: 68 @111590 has 162 MA's), (84, 111665), (103, 111779), (109, 111803), (127,

111863), (151, 111974), (157, 112013), (164, 112037), (173, 112079), (203, 112178), (214, 112220), (216, 112226), (219, 112238), (229, 112301), (242, 112361), (243, 112364), (250, 112391), (261, 112433), (279, 112496), (321, 112616), (330, 112652), (335, 112670), (338, 112685), (351, 112802), (357, 112841), (372, 112961), (380, 113003), (389, 113048), (391, 113057), (402, 113108), (414, 113150), (432, 113216), (434, 113225), (435, 113228), (436, 113234), (437, 113237), (438, 113246), (439, 113252), (440, 113267), (462, 113354), (483, 113459), (495, 113513), (510, 113600), (516, 113630), (526, 113660), (533, 113693), (535, 113702), (546, 113774), (552, 113804), (577, 113921), (589, 113966), (601, 114008), (660, 114152), (675, 114212), (715, 114314), (750, 114401), (751, 114404), (761, 114422), (771, 114458), (772, 114461), (793, 114521), (798, 114539), (827, 114635), (836, 114665), (839, 114683), (846, 114713), (879, 114806), (883, 114821), (900, 114902), (902, 114908), (905, 114920),

Gene: Cborch11_78 Start: 55192, Stop: 58488, Start Num: 73

Candidate Starts for Cborch11_78:

(Start: 53 @55162 has 1 MA's), (65, 55183), (Start: 73 @55192 has 88 MA's), (85, 55264), (Start: 89 @55288 has 6 MA's), (92, 55321), (130, 55456), (149, 55546), (150, 55549), (153, 55567), (179, 55675), (224, 55867), (284, 56101), (299, 56158), (323, 56257), (331, 56284), (337, 56311), (338, 56314), (356, 56437), (359, 56476), (365, 56518), (378, 56596), (382, 56614), (386, 56632), (388, 56644), (408, 56719), (441, 56875), (459, 56959), (473, 57037), (478, 57058), (481, 57067), (482, 57073), (485, 57082), (504, 57154), (507, 57169), (514, 57208), (519, 57220), (539, 57313), (540, 57319), (550, 57367), (559, 57409), (599, 57559), (601, 57571), (651, 57655), (677, 57796), (720, 57901), (795, 58000), (797, 58009), (820, 58087), (830, 58126), (834, 58141), (846, 58189), (877, 58285), (882, 58303), (886, 58330), (898, 58378), (905, 58408), (906, 58411), (910, 58426), (918, 58456), (920, 58465), (922, 58471), (923, 58474),

Gene: CeilingFan_84 Start: 58332, Stop: 61652, Start Num: 69

Candidate Starts for CeilingFan_84:

(Start: 69 @58332 has 26 MA's), (80, 58383), (85, 58404), (Start: 89 @58428 has 6 MA's), (102, 58509), (146, 58707), (189, 58887), (200, 58935), (202, 58938), (213, 58992), (223, 59043), (225, 59061), (228, 59070), (236, 59106), (259, 59214), (262, 59223), (337, 59433), (349, 59502), (372, 59667), (387, 59745), (412, 59814), (438, 59907), (462, 60030), (478, 60114), (499, 60177), (502, 60186), (546, 60390), (559, 60444), (562, 60453), (566, 60471), (568, 60477), (608, 60669), (619, 60693), (622, 60720), (648, 60828), (696, 61017), (722, 61095), (732, 61137), (740, 61155), (759, 61197), (771, 61236), (773, 61242), (783, 61269), (791, 61308), (806, 61356), (830, 61437), (836, 61458), (841, 61485), (842, 61488), (847, 61503), (858, 61536), (882, 61605),

Gene: Celeste_56 Start: 41488, Stop: 38009, Start Num: 68

Candidate Starts for Celeste_56:

(Start: 36 @41557 has 1 MA's), (Start: 68 @41488 has 162 MA's), (Start: 82 @41425 has 1 MA's), (84, 41416), (91, 41374), (107, 41281), (123, 41212), (135, 41143), (144, 41089), (161, 41017), (168, 40981), (188, 40921), (218, 40843), (247, 40696), (257, 40657), (266, 40630), (269, 40612), (276, 40591), (283, 40576), (325, 40456), (329, 40444), (358, 40258), (359, 40252), (366, 40207), (381, 40123), (383, 40105), (398, 40048), (399, 40045), (401, 40033), (438, 39895), (439, 39889), (440, 39874), (442, 39868), (449, 39835), (468, 39757), (474, 39724), (512, 39583), (519, 39562), (534, 39502), (535, 39496), (546, 39427), (558, 39364), (564, 39343), (574, 39298), (583, 39259), (601, 39202), (602, 39193), (655, 39085), (661, 39064), (663, 39043), (673, 39013), (678, 38986), (709, 38920), (711, 38911), (714, 38899), (747, 38812), (756, 38788), (796, 38644), (812, 38596), (835, 38512), (840, 38485), (880, 38347), (883, 38338), (887, 38311), (899, 38263), (900, 38257), (906, 38236), (908, 38230), (931, 38125), (934, 38086), (943, 38023),

Gene: Celia_53 Start: 38881, Stop: 35396, Start Num: 68

Candidate Starts for Celia_53:

(35, 38950), (39, 38941), (46, 38914), (Start: 68 @38881 has 162 MA's), (74, 38866), (76, 38854), (84, 38806), (86, 38794), (91, 38764), (99, 38713), (107, 38671), (117, 38638), (126, 38575), (154, 38440), (160, 38410), (161, 38407), (169, 38365), (188, 38311), (229, 38167), (247, 38086), (263, 38029), (266, 38020), (269, 38002), (276, 37981), (279, 37975), (304, 37924), (308, 37912), (325, 37846), (329, 37834), (336, 37807), (348, 37732), (358, 37648), (359, 37642), (383, 37495), (398, 37438), (399, 37435), (421, 37366), (424, 37357), (428, 37327), (429, 37324), (438, 37285), (439, 37279), (442, 37258), (449, 37225), (451, 37219), (468, 37147), (474, 37114), (477, 37102), (503, 37021), (512, 36973), (514, 36964), (529, 36919), (530, 36916), (534, 36892), (553, 36787), (558, 36754), (574, 36688), (601, 36592), (602, 36583), (655, 36475), (663, 36433), (673, 36403), (709, 36310), (711, 36301), (714, 36289), (715, 36286), (735, 36223), (741, 36217), (772, 36130), (780, 36109), (785, 36082), (807, 36004), (812, 35983), (825, 35935), (832, 35908), (875, 35764), (884, 35719), (911, 35602), (912, 35599), (931, 35512), (934, 35473), (936, 35467), (943, 35410), (946, 35401),

Gene: Chargie21_206 Start: 111889, Stop: 115284, Start Num: 68

Candidate Starts for Chargie21_206:

(Start: 26 @111796 has 44 MA's), (Start: 28 @111802 has 6 MA's), (Start: 32 @111814 has 8 MA's), (37, 111823), (Start: 68 @111889 has 162 MA's), (84, 111964), (103, 112078), (109, 112102), (127, 112162), (151, 112273), (157, 112312), (164, 112336), (173, 112378), (203, 112477), (214, 112519), (216, 112525), (219, 112537), (229, 112600), (242, 112660), (243, 112663), (250, 112690), (261, 112732), (279, 112795), (321, 112915), (330, 112951), (335, 112969), (338, 112984), (351, 113101), (357, 113140), (372, 113260), (380, 113302), (389, 113347), (391, 113356), (402, 113407), (414, 113449), (432, 113515), (434, 113524), (435, 113527), (436, 113533), (437, 113536), (438, 113545), (439, 113551), (440, 113566), (462, 113653), (483, 113758), (495, 113812), (510, 113899), (516, 113929), (526, 113959), (533, 113992), (535, 114001), (546, 114073), (552, 114103), (577, 114220), (589, 114265), (601, 114307), (660, 114451), (675, 114511), (715, 114613), (750, 114700), (751, 114703), (761, 114721), (771, 114757), (772, 114760), (793, 114820), (798, 114838), (827, 114934), (836, 114964), (839, 114982), (846, 115012), (879, 115105), (883, 115120), (900, 115201), (902, 115207), (905, 115219),

Gene: CharlieB_203 Start: 112494, Stop: 116012, Start Num: 18

Candidate Starts for CharlieB_203:

(Start: 18 @112494 has 4 MA's), (Start: 26 @112524 has 44 MA's), (Start: 28 @112530 has 6 MA's), (Start: 32 @112542 has 8 MA's), (37, 112551), (Start: 68 @112617 has 162 MA's), (84, 112692), (103, 112806), (109, 112830), (127, 112890), (151, 113001), (157, 113040), (164, 113064), (173, 113106), (203, 113205), (214, 113247), (216, 113253), (219, 113265), (229, 113328), (242, 113388), (243, 113391), (250, 113418), (261, 113460), (279, 113523), (321, 113643), (330, 113679), (335, 113697), (338, 113712), (351, 113829), (357, 113868), (372, 113988), (380, 114030), (389, 114075), (391, 114084), (402, 114135), (414, 114177), (432, 114243), (434, 114252), (435, 114255), (436, 114261), (437, 114264), (438, 114273), (439, 114279), (440, 114294), (462, 114381), (483, 114486), (495, 114540), (510, 114627), (516, 114657), (526, 114687), (533, 114720), (535, 114729), (546, 114801), (552, 114831), (577, 114948), (589, 114993), (601, 115035), (660, 115179), (675, 115239), (715, 115341), (750, 115428), (751, 115431), (761, 115449), (771, 115485), (772, 115488), (793, 115548), (798, 115566), (827, 115662), (836, 115692), (839, 115710), (846, 115740), (879, 115833), (883, 115848), (900, 115929), (902, 115935), (905, 115947),

Gene: ChaylaJr_206 Start: 112317, Stop: 115712, Start Num: 68

Candidate Starts for ChaylaJr_206:

(Start: 26 @112224 has 44 MA's), (Start: 28 @112230 has 6 MA's), (Start: 32 @112242 has 8 MA's), (37, 112251), (Start: 68 @112317 has 162 MA's), (84, 112392), (103, 112506), (109, 112530), (127, 112590), (151, 112701), (157, 112740), (164, 112764), (173, 112806), (203, 112905), (214, 112947), (216, 112953), (219, 112965), (229, 113028), (242, 113088), (243, 113091), (250, 113118), (261, 113160), (279, 113223), (321, 113343), (330, 113379), (335, 113397), (338, 113412), (351, 113529), (357, 113568), (372, 113688), (380, 113730), (389, 113775), (391, 113784), (402, 113835), (414,

113877), (432, 113943), (434, 113952), (435, 113955), (436, 113961), (437, 113964), (438, 113973), (439, 113979), (440, 113994), (462, 114081), (483, 114186), (495, 114240), (510, 114327), (516, 114357), (526, 114387), (533, 114420), (535, 114429), (546, 114501), (552, 114531), (577, 114648), (589, 114693), (601, 114735), (660, 114879), (675, 114939), (715, 115041), (750, 115128), (751, 115131), (761, 115149), (771, 115185), (772, 115188), (793, 115248), (798, 115266), (827, 115362), (836, 115392), (839, 115410), (846, 115440), (879, 115533), (883, 115548), (900, 115629), (902, 115635), (905, 115647),

Gene: CherryTomatoes_154 Start: 105997, Stop: 109452, Start Num: 68

Candidate Starts for CherryTomatoes_154:

(Start: 68 @105997 has 162 MA's), (84, 106072), (127, 106270), (134, 106306), (150, 106378), (153, 106399), (183, 106519), (188, 106543), (192, 106567), (198, 106588), (203, 106615), (214, 106657), (225, 106726), (229, 106738), (242, 106795), (243, 106798), (250, 106825), (279, 106927), (338, 107116), (339, 107119), (342, 107152), (386, 107470), (389, 107485), (390, 107488), (440, 107695), (441, 107698), (442, 107701), (443, 107710), (448, 107728), (462, 107791), (464, 107800), (475, 107863), (496, 107953), (516, 108064), (544, 108202), (546, 108205), (558, 108256), (559, 108259), (579, 108346), (643, 108517), (711, 108739), (784, 108940), (819, 109054), (821, 109063), (827, 109087), (835, 109114), (836, 109117), (839, 109135), (846, 109165), (851, 109183), (863, 109213), (865, 109216), (878, 109255), (879, 109258), (915, 109408),

Gene: ChickenPhender_205 Start: 112036, Stop: 115431, Start Num: 68

Candidate Starts for ChickenPhender_205:

(Start: 26 @111943 has 44 MA's), (Start: 28 @111949 has 6 MA's), (Start: 32 @111961 has 8 MA's), (37, 111970), (Start: 68 @112036 has 162 MA's), (84, 112111), (103, 112225), (109, 112249), (127, 112309), (151, 112420), (157, 112459), (164, 112483), (173, 112525), (203, 112624), (214, 112666), (216, 112672), (219, 112684), (229, 112747), (242, 112807), (243, 112810), (250, 112837), (261, 112879), (279, 112942), (321, 113062), (330, 113098), (335, 113116), (338, 113131), (351, 113248), (357, 113287), (372, 113407), (380, 113449), (389, 113494), (391, 113503), (402, 113554), (414, 113596), (432, 113662), (434, 113671), (435, 113674), (436, 113680), (437, 113683), (438, 113692), (439, 113698), (440, 113713), (462, 113800), (483, 113905), (495, 113959), (510, 114046), (516, 114076), (526, 114106), (533, 114139), (535, 114148), (546, 114220), (552, 114250), (577, 114367), (589, 114412), (601, 114454), (660, 114598), (675, 114658), (715, 114760), (750, 114847), (751, 114850), (761, 114868), (771, 114904), (772, 114907), (793, 114967), (798, 114985), (827, 115081), (836, 115111), (839, 115129), (846, 115159), (879, 115252), (883, 115267), (900, 115348), (902, 115354), (905, 115366),

Gene: Chidiebere_98 Start: 70671, Stop: 73499, Start Num: 49

Candidate Starts for Chidiebere_98:

(Start: 49 @70671 has 1 MA's), (Start: 56 @70683 has 2 MA's), (Start: 58 @70686 has 5 MA's), (84, 70779), (92, 70839), (125, 70989), (126, 70992), (128, 70998), (147, 71097), (153, 71127), (154, 71130), (167, 71193), (173, 71214), (174, 71217), (183, 71244), (216, 71361), (218, 71370), (226, 71427), (229, 71436), (245, 71502), (262, 71568), (325, 71733), (330, 71751), (334, 71766), (336, 71772), (338, 71784), (345, 71811), (346, 71814), (353, 71874), (354, 71883), (355, 71886), (357, 71898), (360, 71943), (371, 72012), (374, 72036), (407, 72192), (413, 72210), (416, 72234), (423, 72252), (442, 72348), (450, 72390), (453, 72396), (462, 72432), (464, 72441), (467, 72459), (468, 72465), (472, 72489), (473, 72495), (474, 72498), (478, 72516), (479, 72519), (508, 72612), (519, 72657), (522, 72663), (528, 72687), (529, 72690), (531, 72699), (532, 72705), (534, 72717), (556, 72834), (558, 72852), (559, 72855), (562, 72864), (592, 72978), (597, 72993), (655, 73140), (658, 73149), (659, 73152), (661, 73158), (676, 73224), (680, 73242), (685, 73254), (689, 73263), (732, 73377), (737, 73389), (744, 73404), (768, 73479), (771, 73488),

Gene: Chill_69 Start: 49783, Stop: 53085, Start Num: 29

Candidate Starts for Chill_69:

(Start: 29 @49783 has 19 MA's), (Start: 64 @49870 has 1 MA's), (Start: 67 @49876 has 1 MA's), (Start: 73 @49885 has 88 MA's), (Start: 89 @49981 has 6 MA's), (130, 50137), (148, 50224), (149, 50227), (159, 50278), (224, 50542), (232, 50581), (249, 50653), (252, 50662), (270, 50737), (292, 50803), (294, 50809), (309, 50863), (316, 50881), (325, 50932), (326, 50935), (334, 50965), (349, 51049), (354, 51085), (356, 51100), (382, 51277), (412, 51391), (438, 51472), (466, 51607), (472, 51640), (473, 51646), (478, 51667), (481, 51676), (494, 51721), (514, 51790), (520, 51805), (526, 51826), (536, 51874), (547, 51937), (556, 51970), (557, 51973), (558, 51988), (568, 52024), (584, 52099), (643, 52222), (651, 52240), (668, 52318), (669, 52321), (671, 52333), (695, 52399), (699, 52411), (711, 52441), (717, 52462), (777, 52534), (798, 52591), (826, 52690), (844, 52756), (875, 52846), (881, 52876), (882, 52879), (887, 52909), (896, 52954), (907, 52996), (914, 53026), (918, 53038), (922, 53053), (925, 53062),

Gene: ChisanaKitsune_95 Start: 69630, Stop: 72443, Start Num: 58

Candidate Starts for ChisanaKitsune_95:

(Start: 49 @69615 has 1 MA's), (Start: 56 @69627 has 2 MA's), (Start: 58 @69630 has 5 MA's), (84, 69723), (92, 69783), (125, 69933), (126, 69936), (128, 69942), (147, 70041), (153, 70071), (154, 70074), (167, 70137), (173, 70158), (174, 70161), (183, 70188), (216, 70305), (218, 70314), (226, 70371), (229, 70380), (245, 70446), (262, 70512), (268, 70536), (325, 70677), (330, 70695), (334, 70710), (336, 70716), (338, 70728), (345, 70755), (346, 70758), (353, 70818), (354, 70827), (355, 70830), (357, 70842), (360, 70887), (371, 70956), (407, 71136), (413, 71154), (416, 71178), (423, 71196), (442, 71292), (450, 71334), (462, 71376), (464, 71385), (467, 71403), (468, 71409), (472, 71433), (473, 71439), (474, 71442), (478, 71460), (479, 71463), (508, 71556), (519, 71601), (522, 71607), (528, 71631), (529, 71634), (531, 71643), (532, 71649), (534, 71661), (556, 71778), (558, 71796), (559, 71799), (562, 71808), (597, 71937), (655, 72084), (658, 72093), (659, 72096), (661, 72102), (680, 72186), (685, 72198), (689, 72207), (733, 72324), (744, 72348),

Gene: Chomp_208 Start: 113666, Stop: 117061, Start Num: 68

Candidate Starts for Chomp_208:

(Start: 26 @113573 has 44 MA's), (Start: 28 @113579 has 6 MA's), (Start: 32 @113591 has 8 MA's), (37, 113600), (Start: 68 @113666 has 162 MA's), (84, 113741), (103, 113855), (109, 113879), (127, 113939), (151, 114050), (157, 114089), (164, 114113), (173, 114155), (203, 114254), (214, 114296), (216, 114302), (219, 114314), (229, 114377), (242, 114437), (243, 114440), (250, 114467), (261, 114509), (279, 114572), (321, 114692), (330, 114728), (335, 114746), (338, 114761), (351, 114878), (357, 114917), (372, 115037), (380, 115079), (389, 115124), (391, 115133), (402, 115184), (414, 115226), (432, 115292), (434, 115301), (435, 115304), (436, 115310), (437, 115313), (438, 115322), (439, 115328), (440, 115343), (462, 115430), (483, 115535), (495, 115589), (510, 115676), (516, 115706), (526, 115736), (533, 115769), (535, 115778), (546, 115850), (552, 115880), (577, 115997), (589, 116042), (601, 116084), (660, 116228), (675, 116288), (715, 116390), (750, 116477), (751, 116480), (761, 116498), (771, 116534), (772, 116537), (793, 116597), (798, 116615), (827, 116711), (836, 116741), (839, 116759), (846, 116789), (879, 116882), (883, 116897), (900, 116978), (902, 116984), (905, 116996),

Gene: Chucky_54 Start: 42494, Stop: 39009, Start Num: 68

Candidate Starts for Chucky_54:

(Start: 36 @42563 has 1 MA's), (Start: 68 @42494 has 162 MA's), (Start: 82 @42431 has 1 MA's), (84, 42422), (91, 42380), (107, 42287), (123, 42218), (135, 42149), (144, 42095), (161, 42023), (168, 41987), (188, 41927), (247, 41702), (257, 41663), (266, 41636), (269, 41618), (276, 41597), (283, 41582), (304, 41540), (325, 41462), (329, 41450), (358, 41264), (359, 41258), (366, 41213), (381, 41129), (383, 41111), (398, 41054), (399, 41051), (401, 41039), (438, 40901), (439, 40895), (440, 40880), (442, 40874), (449, 40841), (468, 40763), (474, 40730), (512, 40589), (534, 40508), (535, 40502), (546, 40433), (558, 40370), (564, 40349), (574, 40304), (601, 40208), (602, 40199), (604, 40193), (655, 40091), (657, 40082), (661, 40070), (663, 40049), (673, 40019), (678, 39992), (709, 39926), (711, 39917), (714, 39905), (747, 39818), (796, 39650), (812, 39602), (840, 39491), (842,

39485), (880, 39353), (883, 39344), (887, 39317), (908, 39236), (933, 39104), (934, 39092),

Gene: CindyLou_210 Start: 113926, Stop: 117321, Start Num: 68

Candidate Starts for CindyLou_210:

(Start: 26 @113833 has 44 MA's), (Start: 28 @113839 has 6 MA's), (Start: 32 @113851 has 8 MA's), (37, 113860), (Start: 68 @113926 has 162 MA's), (84, 114001), (103, 114115), (109, 114139), (127, 114199), (151, 114310), (157, 114349), (164, 114373), (173, 114415), (203, 114514), (214, 114556), (216, 114562), (219, 114574), (229, 114637), (242, 114697), (243, 114700), (250, 114727), (261, 114769), (279, 114832), (330, 114988), (335, 115006), (338, 115021), (351, 115138), (357, 115177), (372, 115297), (380, 115339), (389, 115384), (391, 115393), (402, 115444), (414, 115486), (432, 115552), (434, 115561), (435, 115564), (436, 115570), (437, 115573), (438, 115582), (439, 115588), (440, 115603), (462, 115690), (483, 115795), (495, 115849), (510, 115936), (516, 115966), (526, 115996), (533, 116029), (535, 116038), (546, 116110), (552, 116140), (577, 116257), (589, 116302), (601, 116344), (660, 116488), (675, 116548), (715, 116650), (750, 116737), (751, 116740), (761, 116758), (771, 116794), (772, 116797), (793, 116857), (798, 116875), (827, 116971), (836, 117001), (839, 117019), (846, 117049), (879, 117142), (883, 117157), (900, 117238), (902, 117244), (905, 117256),

Gene: Circinus_58 Start: 51862, Stop: 55149, Start Num: 70

Candidate Starts for Circinus_58:

(Start: 70 @51862 has 57 MA's), (76, 51883), (85, 51934), (Start: 89 @51958 has 6 MA's), (105, 52054), (146, 52237), (159, 52297), (183, 52387), (189, 52417), (195, 52450), (199, 52459), (200, 52465), (213, 52522), (225, 52585), (236, 52630), (244, 52678), (337, 52957), (349, 53026), (366, 53158), (372, 53191), (389, 53278), (431, 53374), (439, 53413), (440, 53428), (461, 53524), (462, 53530), (468, 53563), (477, 53608), (478, 53614), (486, 53644), (502, 53686), (511, 53731), (517, 53758), (534, 53821), (546, 53893), (559, 53947), (562, 53956), (566, 53974), (568, 53980), (601, 54106), (606, 54160), (608, 54172), (622, 54223), (641, 54304), (644, 54310), (679, 54466), (759, 54688), (760, 54691), (791, 54799), (793, 54808), (806, 54847), (832, 54937), (842, 54979), (847, 54994), (864, 55042), (886, 55120),

Gene: CoffeeBean_59 Start: 45708, Stop: 42292, Start Num: 73

Candidate Starts for CoffeeBean_59:

(Start: 73 @45708 has 88 MA's), (86, 45627), (Start: 89 @45612 has 6 MA's), (107, 45504), (110, 45498), (130, 45450), (145, 45369), (155, 45327), (209, 45117), (212, 45102), (216, 45093), (221, 45069), (224, 45039), (232, 45000), (252, 44919), (262, 44877), (297, 44742), (325, 44628), (338, 44577), (340, 44559), (343, 44550), (354, 44472), (356, 44457), (359, 44418), (366, 44379), (382, 44286), (393, 44235), (395, 44229), (402, 44190), (439, 44085), (440, 44070), (441, 44067), (466, 43953), (467, 43950), (472, 43920), (476, 43902), (477, 43899), (478, 43893), (479, 43890), (488, 43857), (494, 43836), (536, 43668), (550, 43590), (558, 43551), (559, 43548), (561, 43542), (565, 43524), (590, 43428), (596, 43410), (603, 43374), (651, 43302), (669, 43209), (671, 43197), (688, 43134), (707, 43077), (746, 42948), (756, 42918), (775, 42858), (777, 42855), (790, 42801), (814, 42711), (824, 42675), (837, 42630), (841, 42615), (853, 42573), (872, 42528), (884, 42474), (885, 42465), (887, 42453), (889, 42447), (892, 42429), (904, 42378), (905, 42375), (916, 42333),

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

Candidate Starts for Colt_200:

(Start: 26 @115646 has 44 MA's), (Start: 28 @115652 has 6 MA's), (Start: 32 @115664 has 8 MA's), (37, 115673), (Start: 68 @115739 has 162 MA's), (84, 115814), (103, 115928), (109, 115952), (127, 116012), (151, 116123), (157, 116162), (164, 116186), (173, 116228), (203, 116327), (214, 116369), (216, 116375), (219, 116387), (229, 116450), (242, 116510), (243, 116513), (250, 116540), (261, 116582), (279, 116645), (330, 116801), (335, 116819), (338, 116834), (351, 116951), (357, 116990), (372, 117110), (380, 117152), (389, 117197), (391, 117206), (402, 117257), (414, 117299), (432, 117365), (434, 117374), (435, 117377), (436, 117383), (437, 117386), (438, 117395), (439, 117401),

(440, 117416), (462, 117503), (483, 117608), (495, 117662), (510, 117749), (516, 117779), (526, 117809), (533, 117842), (535, 117851), (546, 117923), (552, 117953), (577, 118070), (589, 118115), (601, 118157), (660, 118301), (675, 118361), (715, 118463), (750, 118550), (751, 118553), (761, 118571), (771, 118607), (772, 118610), (793, 118670), (798, 118688), (827, 118784), (836, 118814), (839, 118832), (846, 118862), (879, 118955), (883, 118970), (902, 119057), (905, 119069), (916, 119108),

Gene: Commandaria_61 Start: 49218, Stop: 45910, Start Num: 73

Candidate Starts for Commandaria_61:

(Start: 73 @49218 has 88 MA's), (85, 49146), (86, 49137), (Start: 89 @49122 has 6 MA's), (93, 49077), (128, 48969), (130, 48960), (155, 48837), (194, 48678), (197, 48672), (204, 48648), (221, 48579), (225, 48540), (252, 48429), (292, 48303), (335, 48132), (340, 48099), (343, 48090), (354, 48012), (356, 47997), (366, 47919), (376, 47859), (381, 47835), (382, 47826), (431, 47661), (466, 47493), (472, 47460), (473, 47454), (476, 47442), (481, 47424), (494, 47379), (549, 47139), (559, 47094), (561, 47088), (565, 47070), (590, 46974), (596, 46956), (603, 46920), (695, 46692), (699, 46680), (712, 46635), (735, 46560), (769, 46476), (801, 46374), (814, 46326), (841, 46230), (842, 46227), (849, 46203), (887, 46068), (891, 46056), (907, 45987), (916, 45951),

Gene: Comrade_61 Start: 49851, Stop: 53141, Start Num: 70

Candidate Starts for Comrade_61:

(59, 49833), (Start: 70 @49851 has 57 MA's), (76, 49872), (80, 49902), (85, 49923), (88, 49941), (Start: 89 @49947 has 6 MA's), (124, 50115), (132, 50157), (146, 50226), (159, 50286), (188, 50400), (189, 50406), (213, 50511), (225, 50574), (227, 50580), (236, 50619), (302, 50808), (310, 50835), (336, 50937), (349, 51015), (383, 51243), (392, 51279), (431, 51363), (439, 51402), (460, 51507), (462, 51519), (468, 51552), (473, 51582), (474, 51585), (477, 51597), (478, 51603), (502, 51675), (516, 51741), (517, 51747), (534, 51810), (546, 51882), (559, 51936), (562, 51945), (566, 51963), (568, 51969), (598, 52083), (606, 52149), (608, 52161), (626, 52221), (627, 52224), (638, 52281), (640, 52287), (644, 52299), (654, 52335), (665, 52404), (727, 52602), (740, 52635), (758, 52671), (759, 52677), (764, 52689), (791, 52788), (793, 52797), (800, 52818), (811, 52848), (826, 52905), (842, 52968), (861, 53019), (864, 53031),

Gene: Concombres_214 Start: 115529, Stop: 118924, Start Num: 68

Candidate Starts for Concombres_214:

(Start: 26 @115436 has 44 MA's), (Start: 28 @115442 has 6 MA's), (Start: 32 @115454 has 8 MA's), (37, 115463), (Start: 68 @115529 has 162 MA's), (84, 115604), (103, 115718), (109, 115742), (127, 115802), (151, 115913), (157, 115952), (164, 115976), (173, 116018), (203, 116117), (214, 116159), (216, 116165), (219, 116177), (229, 116240), (242, 116300), (243, 116303), (250, 116330), (261, 116372), (279, 116435), (330, 116591), (335, 116609), (338, 116624), (351, 116741), (357, 116780), (372, 116900), (380, 116942), (389, 116987), (391, 116996), (402, 117047), (414, 117089), (432, 117155), (434, 117164), (435, 117167), (436, 117173), (437, 117176), (438, 117185), (439, 117191), (440, 117206), (462, 117293), (483, 117398), (495, 117452), (510, 117539), (516, 117569), (526, 117599), (533, 117632), (535, 117641), (546, 117713), (552, 117743), (577, 117860), (589, 117905), (601, 117947), (660, 118091), (675, 118151), (715, 118253), (750, 118340), (751, 118343), (761, 118361), (771, 118397), (772, 118400), (793, 118460), (798, 118478), (827, 118574), (836, 118604), (839, 118622), (846, 118652), (879, 118745), (883, 118760), (900, 118841), (902, 118847), (905, 118859),

Gene: Cross_80 Start: 59163, Stop: 62447, Start Num: 70

Candidate Starts for Cross_80:

(Start: 70 @59163 has 57 MA's), (79, 59208), (85, 59238), (88, 59256), (Start: 89 @59262 has 6 MA's), (146, 59541), (168, 59643), (189, 59721), (213, 59826), (225, 59889), (227, 59895), (236, 59934), (262, 60051), (304, 60135), (337, 60261), (345, 60291), (349, 60330), (350, 60339), (380, 60537), (439, 60717), (460, 60822), (461, 60828), (462, 60834), (478, 60918), (486, 60948), (502,

60990), (508, 61017), (514, 61050), (517, 61062), (534, 61125), (546, 61197), (559, 61251), (562, 61260), (564, 61269), (566, 61278), (568, 61284), (622, 61527), (638, 61596), (641, 61608), (664, 61713), (725, 61908), (736, 61941), (759, 61992), (771, 62031), (773, 62037), (791, 62103), (806, 62151), (818, 62187), (830, 62232), (832, 62241), (842, 62283), (857, 62328), (858, 62331), (864, 62346),

Gene: Cruella_43 Start: 41952, Stop: 38659, Start Num: 73

Candidate Starts for Cruella_43:

(Start: 73 @41952 has 88 MA's), (81, 41895), (86, 41871), (Start: 89 @41856 has 6 MA's), (90, 41847), (130, 41700), (182, 41418), (194, 41340), (212, 41274), (267, 41031), (300, 40926), (325, 40824), (337, 40776), (354, 40671), (356, 40656), (368, 40560), (419, 40341), (420, 40338), (429, 40323), (437, 40293), (440, 40263), (466, 40146), (472, 40113), (478, 40086), (484, 40062), (525, 39915), (526, 39909), (534, 39873), (536, 39861), (539, 39840), (557, 39765), (559, 39747), (603, 39570), (637, 39540), (645, 39513), (651, 39498), (683, 39369), (721, 39336), (763, 39249), (798, 39135), (801, 39129), (805, 39117), (846, 38967), (847, 38964), (849, 38958), (855, 38940), (859, 38931), (891, 38811), (893, 38787), (903, 38751), (904, 38745),

Gene: Cursive_78 Start: 58688, Stop: 61972, Start Num: 70

Candidate Starts for Cursive_78:

(Start: 70 @58688 has 57 MA's), (79, 58733), (85, 58763), (88, 58781), (Start: 89 @58787 has 6 MA's), (146, 59066), (168, 59168), (189, 59246), (213, 59351), (225, 59414), (227, 59420), (236, 59459), (262, 59576), (304, 59660), (337, 59786), (345, 59816), (349, 59855), (350, 59864), (380, 60062), (439, 60242), (460, 60347), (461, 60353), (462, 60359), (478, 60443), (486, 60473), (502, 60515), (508, 60542), (514, 60575), (517, 60587), (534, 60650), (546, 60722), (559, 60776), (562, 60785), (564, 60794), (566, 60803), (568, 60809), (622, 61052), (638, 61121), (641, 61133), (664, 61238), (725, 61433), (736, 61466), (759, 61517), (771, 61556), (773, 61562), (791, 61628), (806, 61676), (818, 61712), (830, 61757), (832, 61766), (842, 61808), (857, 61853), (858, 61856), (864, 61871),

Gene: DTDevon_211 Start: 114322, Stop: 117810, Start Num: 26

Candidate Starts for DTDevon_211:

(Start: 26 @114322 has 44 MA's), (Start: 28 @114328 has 6 MA's), (Start: 32 @114340 has 8 MA's), (37, 114349), (Start: 68 @114415 has 162 MA's), (84, 114490), (103, 114604), (109, 114628), (127, 114688), (151, 114799), (157, 114838), (164, 114862), (173, 114904), (203, 115003), (214, 115045), (216, 115051), (219, 115063), (229, 115126), (242, 115186), (243, 115189), (250, 115216), (261, 115258), (279, 115321), (330, 115477), (335, 115495), (338, 115510), (351, 115627), (357, 115666), (372, 115786), (380, 115828), (389, 115873), (391, 115882), (402, 115933), (414, 115975), (432, 116041), (434, 116050), (435, 116053), (436, 116059), (437, 116062), (438, 116071), (439, 116077), (440, 116092), (462, 116179), (483, 116284), (495, 116338), (510, 116425), (516, 116455), (526, 116485), (533, 116518), (535, 116527), (546, 116599), (552, 116629), (577, 116746), (589, 116791), (601, 116833), (660, 116977), (675, 117037), (715, 117139), (750, 117226), (751, 117229), (761, 117247), (771, 117283), (772, 117286), (793, 117346), (798, 117364), (827, 117460), (836, 117490), (839, 117508), (846, 117538), (879, 117631), (883, 117646), (900, 117727), (902, 117733), (905, 117745),

Gene: Daffodil_214 Start: 113287, Stop: 116775, Start Num: 26

Candidate Starts for Daffodil_214:

(Start: 26 @113287 has 44 MA's), (Start: 28 @113293 has 6 MA's), (Start: 32 @113305 has 8 MA's), (37, 113314), (Start: 68 @113380 has 162 MA's), (84, 113455), (103, 113569), (109, 113593), (127, 113653), (151, 113764), (157, 113803), (164, 113827), (173, 113869), (203, 113968), (214, 114010), (216, 114016), (219, 114028), (229, 114091), (242, 114151), (243, 114154), (250, 114181), (261, 114223), (279, 114286), (321, 114406), (330, 114442), (335, 114460), (338, 114475), (351, 114592), (357, 114631), (372, 114751), (380, 114793), (389, 114838), (391, 114847), (402, 114898), (414,

114940), (432, 115006), (434, 115015), (435, 115018), (436, 115024), (437, 115027), (438, 115036), (439, 115042), (440, 115057), (462, 115144), (483, 115249), (495, 115303), (510, 115390), (516, 115420), (526, 115450), (533, 115483), (535, 115492), (546, 115564), (552, 115594), (577, 115711), (589, 115756), (601, 115798), (660, 115942), (675, 116002), (715, 116104), (750, 116191), (751, 116194), (761, 116212), (771, 116248), (772, 116251), (793, 116311), (798, 116329), (827, 116425), (836, 116455), (839, 116473), (846, 116503), (879, 116596), (883, 116611), (900, 116692), (902, 116698), (905, 116710),

Gene: DalanDe_85 Start: 69803, Stop: 72664, Start Num: 56

Candidate Starts for DalanDe_85:

(Start: 56 @69803 has 2 MA's), (84, 69899), (88, 69923), (92, 69962), (93, 69974), (95, 69980), (97, 69986), (107, 70037), (115, 70064), (147, 70223), (167, 70319), (170, 70334), (183, 70370), (184, 70376), (200, 70424), (206, 70442), (207, 70445), (217, 70487), (226, 70547), (229, 70556), (240, 70604), (252, 70646), (253, 70658), (272, 70733), (330, 70895), (337, 70925), (338, 70928), (351, 71003), (353, 71018), (361, 71093), (366, 71126), (373, 71177), (405, 71324), (411, 71348), (431, 71435), (436, 71456), (442, 71495), (450, 71537), (462, 71579), (464, 71588), (468, 71612), (472, 71636), (473, 71642), (474, 71645), (502, 71729), (519, 71804), (528, 71834), (532, 71852), (534, 71864), (554, 71972), (561, 72008), (565, 72026), (567, 72032), (597, 72140), (655, 72287), (658, 72296), (678, 72383), (685, 72401), (697, 72431), (699, 72434), (711, 72464), (720, 72491), (729, 72515), (744, 72551), (749, 72572), (773, 72641), (779, 72659),

Gene: Dalilpop_64 Start: 50147, Stop: 46866, Start Num: 73

Candidate Starts for Dalilpop_64:

(8, 50339), (Start: 70 @50153 has 57 MA's), (Start: 73 @50147 has 88 MA's), (86, 50066), (Start: 89 @50051 has 6 MA's), (93, 50006), (128, 49895), (130, 49886), (142, 49820), (155, 49763), (188, 49637), (197, 49598), (204, 49574), (210, 49547), (216, 49529), (218, 49520), (225, 49466), (278, 49253), (292, 49229), (354, 48935), (356, 48920), (419, 48602), (431, 48578), (441, 48521), (466, 48410), (467, 48407), (481, 48341), (485, 48326), (540, 48107), (549, 48059), (558, 48017), (559, 48014), (561, 48008), (565, 47990), (590, 47894), (596, 47876), (603, 47840), (669, 47675), (675, 47645), (686, 47615), (732, 47528), (735, 47522), (769, 47435), (790, 47375), (801, 47333), (841, 47189), (842, 47186), (849, 47162), (907, 46946), (916, 46910), (925, 46880),

Gene: Damien_77 Start: 55598, Stop: 58798, Start Num: 89

Candidate Starts for Damien_77:

(Start: 53 @55472 has 1 MA's), (65, 55493), (Start: 73 @55502 has 88 MA's), (85, 55574), (Start: 89 @55598 has 6 MA's), (92, 55631), (130, 55766), (149, 55856), (150, 55859), (153, 55877), (179, 55985), (224, 56177), (284, 56411), (299, 56468), (323, 56567), (331, 56594), (337, 56621), (338, 56624), (351, 56702), (356, 56747), (359, 56786), (365, 56828), (378, 56906), (382, 56924), (386, 56942), (388, 56954), (408, 57029), (441, 57185), (459, 57269), (473, 57347), (478, 57368), (481, 57377), (482, 57383), (485, 57392), (504, 57464), (507, 57479), (514, 57518), (519, 57530), (539, 57623), (540, 57629), (550, 57677), (559, 57719), (599, 57869), (601, 57881), (651, 57965), (677, 58106), (720, 58211), (795, 58310), (797, 58319), (820, 58397), (830, 58436), (834, 58451), (846, 58499), (877, 58595), (882, 58613), (886, 58640), (898, 58688), (905, 58718), (906, 58721), (910, 58736), (918, 58766), (920, 58775), (922, 58781), (923, 58784),

Gene: Dandelion_217 Start: 116920, Stop: 120408, Start Num: 26

Candidate Starts for Dandelion_217:

(Start: 26 @116920 has 44 MA's), (Start: 28 @116926 has 6 MA's), (Start: 32 @116938 has 8 MA's), (37, 116947), (Start: 68 @117013 has 162 MA's), (84, 117088), (103, 117202), (109, 117226), (127, 117286), (151, 117397), (157, 117436), (164, 117460), (173, 117502), (175, 117508), (203, 117601), (214, 117643), (216, 117649), (219, 117661), (229, 117724), (242, 117784), (243, 117787), (250, 117814), (261, 117856), (279, 117919), (330, 118075), (335, 118093), (338, 118108), (351, 118225), (357, 118264), (372, 118384), (380, 118426), (389, 118471), (391, 118480), (402, 118531), (414,

118573), (432, 118639), (434, 118648), (435, 118651), (436, 118657), (437, 118660), (438, 118669), (439, 118675), (440, 118690), (462, 118777), (483, 118882), (495, 118936), (510, 119023), (516, 119053), (526, 119083), (533, 119116), (535, 119125), (546, 119197), (552, 119227), (577, 119344), (589, 119389), (601, 119431), (660, 119575), (675, 119635), (715, 119737), (750, 119824), (751, 119827), (761, 119845), (771, 119881), (772, 119884), (793, 119944), (798, 119962), (827, 120058), (836, 120088), (839, 120106), (846, 120136), (879, 120229), (883, 120244), (900, 120325), (902, 120331), (905, 120343),

Gene: Danzina_56 Start: 41718, Stop: 38236, Start Num: 68

Candidate Starts for Danzina_56:

(30, 41802), (60, 41733), (Start: 68 @41718 has 162 MA's), (84, 41643), (85, 41640), (Start: 89 @41616 has 6 MA's), (92, 41583), (104, 41526), (107, 41508), (123, 41439), (135, 41370), (144, 41316), (161, 41244), (168, 41208), (188, 41148), (218, 41070), (247, 40923), (257, 40884), (266, 40857), (269, 40839), (276, 40818), (283, 40803), (325, 40683), (329, 40671), (358, 40485), (359, 40479), (366, 40434), (381, 40350), (383, 40332), (398, 40275), (399, 40272), (401, 40260), (438, 40122), (439, 40116), (440, 40101), (442, 40095), (449, 40062), (468, 39984), (474, 39951), (512, 39810), (519, 39789), (534, 39729), (535, 39723), (546, 39654), (558, 39591), (564, 39570), (574, 39525), (583, 39486), (601, 39429), (602, 39420), (655, 39312), (661, 39291), (663, 39270), (673, 39240), (678, 39213), (709, 39147), (711, 39138), (714, 39126), (747, 39039), (796, 38871), (812, 38823), (835, 38739), (840, 38712), (880, 38574), (883, 38565), (887, 38538), (899, 38490), (900, 38484), (906, 38463), (908, 38457), (931, 38352), (934, 38313), (943, 38250),

Gene: Darko_208 Start: 112614, Stop: 116009, Start Num: 68

Candidate Starts for Darko_208:

(Start: 26 @112521 has 44 MA's), (Start: 28 @112527 has 6 MA's), (Start: 32 @112539 has 8 MA's), (37, 112548), (Start: 68 @112614 has 162 MA's), (84, 112689), (103, 112803), (109, 112827), (127, 112887), (151, 112998), (157, 113037), (164, 113061), (173, 113103), (203, 113202), (214, 113244), (216, 113250), (219, 113262), (229, 113325), (242, 113385), (243, 113388), (250, 113415), (261, 113457), (279, 113520), (330, 113676), (335, 113694), (338, 113709), (351, 113826), (357, 113865), (372, 113985), (380, 114027), (389, 114072), (391, 114081), (402, 114132), (414, 114174), (432, 114240), (434, 114249), (435, 114252), (436, 114258), (437, 114261), (438, 114270), (439, 114276), (440, 114291), (462, 114378), (483, 114483), (495, 114537), (510, 114624), (516, 114654), (526, 114684), (533, 114717), (535, 114726), (546, 114798), (552, 114828), (577, 114945), (589, 114990), (601, 115032), (660, 115176), (675, 115236), (715, 115338), (750, 115425), (751, 115428), (761, 115446), (771, 115482), (772, 115485), (793, 115545), (798, 115563), (827, 115659), (836, 115689), (839, 115707), (846, 115737), (879, 115830), (883, 115845), (900, 115926), (902, 115932), (905, 115944),

Gene: Darwin_47 Start: 41830, Stop: 38537, Start Num: 73

Candidate Starts for Darwin_47:

(Start: 73 @41830 has 88 MA's), (81, 41773), (86, 41749), (Start: 89 @41734 has 6 MA's), (90, 41725), (130, 41578), (153, 41458), (182, 41296), (194, 41218), (267, 40909), (300, 40804), (325, 40702), (337, 40654), (356, 40534), (368, 40438), (419, 40219), (420, 40216), (429, 40201), (437, 40171), (440, 40141), (466, 40024), (472, 39991), (478, 39964), (484, 39940), (515, 39835), (525, 39793), (536, 39739), (539, 39718), (557, 39643), (559, 39625), (593, 39493), (603, 39448), (637, 39418), (645, 39391), (651, 39376), (683, 39247), (721, 39214), (763, 39127), (770, 39100), (798, 39013), (801, 39007), (805, 38995), (846, 38845), (847, 38842), (849, 38836), (855, 38818), (859, 38809), (867, 38791), (891, 38689), (893, 38665), (903, 38629), (904, 38623), (916, 38578),

Gene: Dattran_57 Start: 41879, Stop: 38400, Start Num: 68

Candidate Starts for Dattran_57:

(Start: 36 @41948 has 1 MA's), (Start: 68 @41879 has 162 MA's), (Start: 82 @41816 has 1 MA's), (84, 41807), (91, 41765), (107, 41672), (123, 41603), (135, 41534), (144, 41480), (161, 41408), (168,

41372), (188, 41312), (218, 41234), (247, 41087), (257, 41048), (266, 41021), (269, 41003), (276, 40982), (283, 40967), (325, 40847), (329, 40835), (358, 40649), (359, 40643), (366, 40598), (381, 40514), (383, 40496), (398, 40439), (399, 40436), (401, 40424), (438, 40286), (439, 40280), (440, 40265), (442, 40259), (449, 40226), (468, 40148), (474, 40115), (512, 39974), (534, 39893), (535, 39887), (546, 39818), (558, 39755), (564, 39734), (574, 39689), (583, 39650), (601, 39593), (602, 39584), (655, 39476), (661, 39455), (663, 39434), (673, 39404), (678, 39377), (709, 39311), (711, 39302), (714, 39290), (747, 39203), (756, 39179), (796, 39035), (812, 38987), (835, 38903), (840, 38876), (880, 38738), (883, 38729), (887, 38702), (899, 38654), (900, 38648), (906, 38627), (908, 38621), (931, 38516), (933, 38489), (934, 38477), (943, 38414),

Gene: Daubenski_81 Start: 58913, Stop: 62197, Start Num: 70

Candidate Starts for Daubenski_81:

(21, 58784), (43, 58856), (Start: 70 @58913 has 57 MA's), (79, 58958), (85, 58988), (Start: 89 @59012 has 6 MA's), (146, 59291), (168, 59393), (176, 59420), (189, 59471), (190, 59483), (213, 59576), (225, 59639), (227, 59645), (236, 59684), (244, 59732), (262, 59801), (302, 59873), (310, 59900), (337, 60011), (349, 60080), (379, 60284), (403, 60374), (428, 60419), (439, 60467), (440, 60482), (460, 60572), (461, 60578), (462, 60584), (478, 60668), (499, 60731), (502, 60740), (517, 60812), (534, 60875), (546, 60947), (559, 61001), (562, 61010), (564, 61019), (566, 61028), (568, 61034), (587, 61115), (622, 61277), (638, 61346), (641, 61358), (670, 61472), (725, 61658), (736, 61691), (740, 61700), (759, 61742), (773, 61787), (791, 61853), (806, 61901), (818, 61937), (830, 61982), (841, 62030), (842, 62033), (852, 62069), (858, 62081), (864, 62096),

Gene: DaviePasture_79 Start: 51941, Stop: 55282, Start Num: 73

Candidate Starts for DaviePasture_79:

(47, 51893), (Start: 73 @51941 has 88 MA's), (Start: 82 @52001 has 1 MA's), (Start: 89 @52037 has 6 MA's), (93, 52082), (103, 52124), (166, 52385), (194, 52487), (205, 52520), (224, 52616), (288, 52886), (289, 52895), (316, 53003), (324, 53048), (335, 53090), (356, 53222), (357, 53225), (358, 53255), (372, 53345), (382, 53399), (404, 53498), (412, 53513), (429, 53555), (466, 53729), (472, 53762), (476, 53780), (477, 53783), (481, 53798), (494, 53843), (495, 53846), (524, 53942), (534, 53984), (536, 53996), (541, 54032), (582, 54212), (596, 54254), (603, 54290), (643, 54344), (651, 54362), (669, 54458), (671, 54470), (738, 54659), (798, 54749), (827, 54854), (831, 54869), (840, 54905), (844, 54917), (845, 54923), (846, 54926), (855, 54953), (873, 54998), (893, 55106), (906, 55151), (912, 55175), (922, 55211),

Gene: Delilah_207 Start: 113498, Stop: 116893, Start Num: 68

Candidate Starts for Delilah_207:

(Start: 26 @113405 has 44 MA's), (Start: 28 @113411 has 6 MA's), (Start: 32 @113423 has 8 MA's), (37, 113432), (Start: 68 @113498 has 162 MA's), (84, 113573), (103, 113687), (109, 113711), (127, 113771), (151, 113882), (157, 113921), (164, 113945), (173, 113987), (203, 114086), (214, 114128), (216, 114134), (219, 114146), (229, 114209), (242, 114269), (243, 114272), (250, 114299), (261, 114341), (279, 114404), (321, 114524), (330, 114560), (335, 114578), (338, 114593), (351, 114710), (357, 114749), (372, 114869), (380, 114911), (389, 114956), (391, 114965), (402, 115016), (414, 115058), (432, 115124), (434, 115133), (435, 115136), (436, 115142), (437, 115145), (438, 115154), (439, 115160), (440, 115175), (462, 115262), (483, 115367), (495, 115421), (510, 115508), (516, 115538), (526, 115568), (533, 115601), (535, 115610), (546, 115682), (552, 115712), (577, 115829), (589, 115874), (601, 115916), (660, 116060), (675, 116120), (715, 116222), (750, 116309), (751, 116312), (761, 116330), (771, 116366), (772, 116369), (793, 116429), (798, 116447), (827, 116543), (836, 116573), (839, 116591), (846, 116621), (879, 116714), (883, 116729), (900, 116810), (902, 116816), (905, 116828),

Gene: Delton_67 Start: 50148, Stop: 53450, Start Num: 29

Candidate Starts for Delton_67:

(Start: 29 @50148 has 19 MA's), (Start: 64 @50235 has 1 MA's), (Start: 67 @50241 has 1 MA's), (Start: 73 @50250 has 88 MA's), (Start: 89 @50346 has 6 MA's), (130, 50502), (148, 50589), (149, 50592), (159, 50643), (224, 50907), (232, 50946), (249, 51018), (252, 51027), (270, 51102), (292, 51168), (294, 51174), (309, 51228), (316, 51246), (325, 51297), (326, 51300), (334, 51330), (349, 51414), (350, 51423), (354, 51450), (356, 51465), (382, 51642), (383, 51651), (412, 51756), (438, 51837), (448, 51897), (466, 51972), (472, 52005), (473, 52011), (478, 52032), (481, 52041), (494, 52086), (514, 52155), (520, 52170), (536, 52239), (547, 52302), (556, 52335), (557, 52338), (568, 52389), (584, 52464), (643, 52587), (651, 52605), (668, 52683), (669, 52686), (671, 52698), (685, 52743), (695, 52764), (699, 52776), (711, 52806), (717, 52827), (777, 52899), (798, 52956), (826, 53055), (844, 53121), (875, 53211), (881, 53241), (882, 53244), (887, 53274), (896, 53319), (907, 53361), (914, 53391), (918, 53403), (922, 53418), (925, 53427),

Gene: Delylah_211 Start: 113694, Stop: 117182, Start Num: 26

Candidate Starts for Delylah_211:

(Start: 26 @113694 has 44 MA's), (Start: 28 @113700 has 6 MA's), (Start: 32 @113712 has 8 MA's), (37, 113721), (Start: 68 @113787 has 162 MA's), (84, 113862), (103, 113976), (109, 114000), (127, 114060), (151, 114171), (157, 114210), (164, 114234), (173, 114276), (203, 114375), (214, 114417), (216, 114423), (219, 114435), (229, 114498), (242, 114558), (243, 114561), (250, 114588), (261, 114630), (279, 114693), (330, 114849), (335, 114867), (338, 114882), (351, 114999), (357, 115038), (372, 115158), (380, 115200), (389, 115245), (391, 115254), (402, 115305), (414, 115347), (432, 115413), (434, 115422), (435, 115425), (436, 115431), (437, 115434), (438, 115443), (439, 115449), (440, 115464), (462, 115551), (483, 115656), (495, 115710), (510, 115797), (516, 115827), (526, 115857), (533, 115890), (535, 115899), (546, 115971), (552, 116001), (577, 116118), (589, 116163), (601, 116205), (660, 116349), (675, 116409), (715, 116511), (750, 116598), (751, 116601), (761, 116619), (771, 116655), (772, 116658), (793, 116718), (798, 116736), (827, 116832), (836, 116862), (839, 116880), (846, 116910), (879, 117003), (883, 117018), (900, 117099), (902, 117105), (905, 117117),

Gene: Derek_206 Start: 112850, Stop: 116338, Start Num: 26

Candidate Starts for Derek_206:

(Start: 26 @112850 has 44 MA's), (Start: 28 @112856 has 6 MA's), (Start: 32 @112868 has 8 MA's), (37, 112877), (Start: 68 @112943 has 162 MA's), (84, 113018), (103, 113132), (109, 113156), (127, 113216), (151, 113327), (157, 113366), (164, 113390), (173, 113432), (203, 113531), (214, 113573), (216, 113579), (219, 113591), (229, 113654), (242, 113714), (243, 113717), (250, 113744), (261, 113786), (279, 113849), (330, 114005), (335, 114023), (338, 114038), (351, 114155), (357, 114194), (372, 114314), (380, 114356), (389, 114401), (391, 114410), (402, 114461), (414, 114503), (432, 114569), (434, 114578), (435, 114581), (436, 114587), (437, 114590), (438, 114599), (439, 114605), (440, 114620), (462, 114707), (483, 114812), (495, 114866), (510, 114953), (516, 114983), (526, 115013), (533, 115046), (535, 115055), (546, 115127), (552, 115157), (577, 115274), (589, 115319), (601, 115361), (660, 115505), (675, 115565), (715, 115667), (750, 115754), (751, 115757), (761, 115775), (771, 115811), (772, 115814), (793, 115874), (798, 115892), (827, 115988), (836, 116018), (839, 116036), (846, 116066), (879, 116159), (883, 116174), (900, 116255), (902, 116261), (905, 116273),

Gene: Dietrick_198 Start: 111544, Stop: 115014, Start Num: 32

Candidate Starts for Dietrick_198:

(Start: 26 @111526 has 44 MA's), (Start: 28 @111532 has 6 MA's), (Start: 32 @111544 has 8 MA's), (37, 111553), (Start: 68 @111619 has 162 MA's), (84, 111694), (103, 111808), (109, 111832), (127, 111892), (151, 112003), (157, 112042), (164, 112066), (173, 112108), (203, 112207), (214, 112249), (216, 112255), (219, 112267), (229, 112330), (242, 112390), (243, 112393), (250, 112420), (261, 112462), (279, 112525), (321, 112645), (330, 112681), (335, 112699), (338, 112714), (351, 112831), (357, 112870), (372, 112990), (380, 113032), (389, 113077), (391, 113086), (402, 113137), (414, 113179), (432, 113245), (434, 113254), (435, 113257), (436, 113263), (437, 113266), (438, 113275),

(439, 113281), (440, 113296), (462, 113383), (483, 113488), (495, 113542), (510, 113629), (516, 113659), (526, 113689), (533, 113722), (535, 113731), (546, 113803), (552, 113833), (577, 113950), (589, 113995), (601, 114037), (660, 114181), (675, 114241), (715, 114343), (750, 114430), (751, 114433), (761, 114451), (771, 114487), (772, 114490), (793, 114550), (798, 114568), (827, 114664), (836, 114694), (839, 114712), (846, 114742), (879, 114835), (883, 114850), (900, 114931), (902, 114937), (905, 114949),

Gene: DirtMonster_202 Start: 112859, Stop: 116254, Start Num: 68

Candidate Starts for DirtMonster_202:

(Start: 26 @112766 has 44 MA's), (Start: 28 @112772 has 6 MA's), (Start: 32 @112784 has 8 MA's), (37, 112793), (Start: 68 @112859 has 162 MA's), (84, 112934), (103, 113048), (109, 113072), (127, 113132), (151, 113243), (157, 113282), (164, 113306), (173, 113348), (203, 113447), (214, 113489), (216, 113495), (219, 113507), (229, 113570), (242, 113630), (243, 113633), (250, 113660), (261, 113702), (279, 113765), (330, 113921), (335, 113939), (338, 113954), (351, 114071), (357, 114110), (372, 114230), (380, 114272), (389, 114317), (391, 114326), (402, 114377), (414, 114419), (432, 114485), (434, 114494), (435, 114497), (436, 114503), (437, 114506), (438, 114515), (439, 114521), (440, 114536), (462, 114623), (483, 114728), (495, 114782), (510, 114869), (516, 114899), (526, 114929), (533, 114962), (535, 114971), (546, 115043), (552, 115073), (577, 115190), (589, 115235), (601, 115277), (660, 115421), (675, 115481), (715, 115583), (750, 115670), (751, 115673), (761, 115691), (771, 115727), (772, 115730), (793, 115790), (798, 115808), (827, 115904), (836, 115934), (839, 115952), (846, 115982), (879, 116075), (883, 116090), (900, 116171), (902, 116177), (905, 116189),

Gene: DoobyDoo_76 Start: 50921, Stop: 54166, Start Num: 89

Candidate Starts for DoobyDoo_76:

(Start: 82 @50885 has 1 MA's), (Start: 89 @50921 has 6 MA's), (93, 50966), (103, 51008), (166, 51269), (194, 51371), (205, 51404), (224, 51500), (288, 51770), (289, 51779), (316, 51887), (324, 51932), (335, 51974), (356, 52106), (357, 52109), (358, 52139), (361, 52160), (372, 52229), (382, 52283), (404, 52382), (412, 52397), (429, 52439), (466, 52613), (472, 52646), (476, 52664), (481, 52682), (494, 52727), (495, 52730), (524, 52826), (534, 52868), (536, 52880), (541, 52916), (582, 53096), (596, 53138), (603, 53174), (643, 53228), (651, 53246), (669, 53342), (671, 53354), (739, 53549), (798, 53633), (822, 53714), (827, 53738), (831, 53753), (840, 53789), (844, 53801), (845, 53807), (846, 53810), (855, 53837), (873, 53882), (893, 53990), (906, 54035), (912, 54059), (922, 54095),

Gene: Dorin_75 Start: 60424, Stop: 64227, Start Num: 67

Candidate Starts for Dorin_75:

(Start: 67 @60424 has 1 MA's), (Start: 73 @60433 has 88 MA's), (88, 60523), (96, 60583), (105, 60625), (155, 60844), (157, 60859), (223, 61144), (228, 61171), (236, 61207), (259, 61315), (291, 61372), (307, 61417), (311, 61426), (332, 61513), (336, 61528), (338, 61540), (347, 61576), (351, 61618), (356, 61654), (383, 61840), (384, 61843), (410, 61930), (429, 61987), (448, 62086), (455, 62113), (474, 62209), (478, 62227), (489, 62269), (502, 62299), (517, 62371), (526, 62395), (557, 62539), (559, 62557), (566, 62584), (580, 62650), (587, 62671), (594, 62698), (601, 62716), (621, 62827), (625, 62833), (634, 62890), (653, 62968), (658, 63001), (678, 63103), (723, 63238), (731, 63274), (761, 63352), (769, 63382), (786, 63436), (789, 63445), (791, 63460), (820, 63562), (852, 63691), (861, 63706), (866, 63721), (870, 63727), (879, 63760), (891, 63814), (907, 63889), (913, 63916), (915, 63922), (917, 63928), (928, 63967), (929, 63979), (932, 64000), (941, 64069), (944, 64102), (948, 64126), (954, 64195),

Gene: DrLupo_85 Start: 55971, Stop: 59333, Start Num: 57

Candidate Starts for DrLupo_85:

(Start: 57 @55971 has 1 MA's), (Start: 73 @55998 has 88 MA's), (81, 56055), (Start: 89 @56094 has 6 MA's), (130, 56262), (137, 56298), (140, 56313), (155, 56379), (164, 56418), (165, 56421), (178,

56472), (188, 56505), (194, 56538), (206, 56574), (216, 56613), (225, 56676), (226, 56679), (243, 56760), (252, 56790), (286, 56913), (316, 56985), (321, 57018), (348, 57150), (356, 57210), (357, 57213), (372, 57333), (374, 57342), (396, 57447), (426, 57555), (427, 57561), (459, 57717), (465, 57750), (466, 57756), (468, 57765), (472, 57789), (475, 57804), (476, 57807), (481, 57825), (482, 57831), (492, 57882), (498, 57921), (500, 57951), (509, 57987), (514, 58017), (526, 58053), (550, 58179), (559, 58221), (564, 58239), (570, 58263), (576, 58296), (651, 58470), (690, 58650), (692, 58656), (698, 58677), (720, 58737), (774, 58794), (808, 58887), (845, 59031), (871, 59100), (877, 59130), (907, 59259), (923, 59319),

Gene: DrPhinkDaddy_206 Start: 114158, Stop: 117553, Start Num: 68

Candidate Starts for DrPhinkDaddy_206:

(Start: 26 @114065 has 44 MA's), (Start: 28 @114071 has 6 MA's), (Start: 32 @114083 has 8 MA's), (37, 114092), (Start: 68 @114158 has 162 MA's), (84, 114233), (103, 114347), (109, 114371), (127, 114431), (151, 114542), (157, 114581), (164, 114605), (173, 114647), (203, 114746), (214, 114788), (216, 114794), (219, 114806), (229, 114869), (242, 114929), (243, 114932), (250, 114959), (261, 115001), (279, 115064), (321, 115184), (330, 115220), (335, 115238), (338, 115253), (351, 115370), (357, 115409), (372, 115529), (380, 115571), (389, 115616), (391, 115625), (402, 115676), (414, 115718), (432, 115784), (434, 115793), (435, 115796), (436, 115802), (437, 115805), (438, 115814), (439, 115820), (440, 115835), (462, 115922), (483, 116027), (495, 116081), (510, 116168), (516, 116198), (526, 116228), (533, 116261), (535, 116270), (546, 116342), (552, 116372), (577, 116489), (589, 116534), (601, 116576), (660, 116720), (675, 116780), (715, 116882), (750, 116969), (751, 116972), (761, 116990), (771, 117026), (772, 117029), (793, 117089), (798, 117107), (827, 117203), (836, 117233), (839, 117251), (846, 117281), (879, 117374), (883, 117389), (900, 117470), (902, 117476), (905, 117488),

Gene: Drazdys_207 Start: 112967, Stop: 116455, Start Num: 26

Candidate Starts for Drazdys_207:

(Start: 26 @112967 has 44 MA's), (Start: 28 @112973 has 6 MA's), (Start: 32 @112985 has 8 MA's), (37, 112994), (Start: 68 @113060 has 162 MA's), (84, 113135), (103, 113249), (109, 113273), (127, 113333), (151, 113444), (157, 113483), (164, 113507), (173, 113549), (203, 113648), (214, 113690), (216, 113696), (219, 113708), (229, 113771), (242, 113831), (243, 113834), (250, 113861), (261, 113903), (279, 113966), (330, 114122), (335, 114140), (338, 114155), (351, 114272), (357, 114311), (372, 114431), (380, 114473), (389, 114518), (391, 114527), (402, 114578), (414, 114620), (432, 114686), (434, 114695), (435, 114698), (436, 114704), (437, 114707), (438, 114716), (439, 114722), (440, 114737), (462, 114824), (483, 114929), (495, 114983), (510, 115070), (516, 115100), (526, 115130), (533, 115163), (535, 115172), (546, 115244), (552, 115274), (577, 115391), (589, 115436), (601, 115478), (660, 115622), (675, 115682), (715, 115784), (750, 115871), (751, 115874), (761, 115892), (771, 115928), (772, 115931), (793, 115991), (798, 116009), (827, 116105), (836, 116135), (839, 116153), (846, 116183), (879, 116276), (883, 116291), (900, 116372), (902, 116378), (905, 116390),

Gene: Dryad_56 Start: 40017, Stop: 36817, Start Num: 73

Candidate Starts for Dryad_56:

(62, 40038), (Start: 73 @40017 has 88 MA's), (74, 40008), (79, 39975), (Start: 89 @39921 has 6 MA's), (96, 39867), (103, 39834), (114, 39798), (116, 39789), (118, 39780), (124, 39750), (130, 39717), (134, 39693), (144, 39639), (148, 39627), (159, 39573), (187, 39504), (206, 39423), (233, 39288), (246, 39225), (247, 39222), (273, 39117), (293, 39066), (298, 39051), (303, 39036), (328, 38940), (335, 38910), (346, 38865), (349, 38829), (354, 38793), (356, 38778), (357, 38775), (368, 38682), (383, 38592), (387, 38577), (417, 38466), (440, 38385), (442, 38379), (447, 38352), (459, 38301), (472, 38229), (473, 38223), (481, 38193), (489, 38163), (507, 38118), (513, 38082), (542, 37953), (569, 37842), (573, 37818), (637, 37674), (639, 37662), (643, 37650), (667, 37539), (724, 37359), (795, 37299), (798, 37287), (810, 37254), (826, 37188), (844, 37122), (881, 37011), (884, 36999), (887, 36978), (892, 36954), (907, 36894), (916, 36858), (920, 36843),

Gene: DumpTruck_80 Start: 51478, Stop: 54825, Start Num: 73

Candidate Starts for DumpTruck_80:

(Start: 73 @51478 has 88 MA's), (86, 51559), (Start: 89 @51574 has 6 MA's), (90, 51583), (91, 51589), (107, 51682), (160, 51892), (166, 51922), (180, 51970), (205, 52057), (224, 52153), (270, 52354), (288, 52423), (289, 52432), (316, 52543), (324, 52588), (335, 52630), (356, 52762), (357, 52765), (358, 52795), (383, 52948), (404, 53038), (412, 53053), (417, 53074), (466, 53269), (472, 53302), (476, 53320), (489, 53368), (494, 53383), (495, 53386), (524, 53482), (536, 53536), (541, 53572), (568, 53686), (582, 53752), (596, 53794), (603, 53830), (643, 53884), (651, 53902), (669, 53998), (671, 54010), (674, 54022), (704, 54106), (802, 54301), (827, 54397), (831, 54412), (844, 54460), (845, 54466), (846, 54469), (855, 54496), (873, 54541), (904, 54688), (906, 54694), (912, 54718), (922, 54754),

Gene: Dwayne_54 Start: 42482, Stop: 38997, Start Num: 68

Candidate Starts for Dwayne_54:

(Start: 36 @42551 has 1 MA's), (Start: 68 @42482 has 162 MA's), (Start: 82 @42419 has 1 MA's), (84, 42410), (91, 42368), (107, 42275), (123, 42206), (135, 42137), (144, 42083), (161, 42011), (168, 41975), (188, 41915), (247, 41690), (257, 41651), (266, 41624), (269, 41606), (276, 41585), (283, 41570), (304, 41528), (325, 41450), (329, 41438), (358, 41252), (359, 41246), (366, 41201), (381, 41117), (383, 41099), (398, 41042), (399, 41039), (401, 41027), (438, 40889), (439, 40883), (440, 40868), (442, 40862), (449, 40829), (468, 40751), (474, 40718), (512, 40577), (534, 40496), (535, 40490), (546, 40421), (558, 40358), (564, 40337), (574, 40292), (601, 40196), (602, 40187), (604, 40181), (655, 40079), (657, 40070), (661, 40058), (663, 40037), (673, 40007), (678, 39980), (709, 39914), (711, 39905), (714, 39893), (747, 39806), (796, 39638), (812, 39590), (840, 39479), (880, 39341), (883, 39332), (887, 39305), (899, 39257), (908, 39224), (914, 39197), (933, 39092), (934, 39080),

Gene: E3_gp154 Start: 103974, Stop: 107150, Start Num: 68

Candidate Starts for E3_gp154:

(Start: 68 @103974 has 162 MA's), (74, 103989), (94, 104124), (101, 104154), (105, 104172), (112, 104196), (139, 104310), (143, 104334), (160, 104406), (162, 104412), (170, 104454), (183, 104493), (203, 104559), (206, 104568), (209, 104583), (226, 104673), (229, 104682), (243, 104751), (250, 104778), (266, 104835), (301, 104919), (321, 105000), (322, 105006), (343, 105090), (351, 105144), (357, 105183), (391, 105399), (399, 105429), (414, 105477), (425, 105513), (434, 105552), (435, 105555), (436, 105561), (440, 105594), (449, 105633), (462, 105672), (542, 106023), (544, 106041), (546, 106044), (643, 106344), (652, 106368), (669, 106440), (676, 106473), (691, 106515), (751, 106662), (773, 106716), (839, 106857), (860, 106920), (879, 106977),

Gene: EGole_81 Start: 60108, Stop: 63392, Start Num: 70

Candidate Starts for EGole_81:

(Start: 70 @60108 has 57 MA's), (79, 60153), (85, 60183), (88, 60201), (Start: 89 @60207 has 6 MA's), (146, 60486), (168, 60588), (189, 60666), (213, 60771), (225, 60834), (227, 60840), (236, 60879), (262, 60996), (304, 61080), (337, 61206), (345, 61236), (349, 61275), (439, 61662), (460, 61767), (461, 61773), (462, 61779), (466, 61803), (478, 61863), (486, 61893), (487, 61896), (502, 61935), (508, 61962), (514, 61995), (517, 62007), (534, 62070), (546, 62142), (559, 62196), (562, 62205), (564, 62214), (566, 62223), (568, 62229), (622, 62472), (638, 62541), (641, 62553), (650, 62574), (664, 62658), (725, 62853), (736, 62886), (759, 62937), (773, 62982), (791, 63048), (806, 63096), (818, 63132), (830, 63177), (832, 63186), (842, 63228), (857, 63273), (858, 63276), (864, 63291),

Gene: ET08_197 Start: 112528, Stop: 116046, Start Num: 18

Candidate Starts for ET08_197:

(Start: 18 @112528 has 4 MA's), (Start: 26 @112558 has 44 MA's), (Start: 28 @112564 has 6 MA's), (Start: 32 @112576 has 8 MA's), (37, 112585), (Start: 68 @112651 has 162 MA's), (84, 112726), (103, 112840), (109, 112864), (127, 112924), (151, 113035), (157, 113074), (164, 113098), (173, 113140), (203, 113239), (214, 113281), (216, 113287), (219, 113299), (229, 113362), (242, 113422), (243, 113425), (250, 113452), (261, 113494), (279, 113557), (321, 113677), (330, 113713), (335, 113731), (338, 113746), (351, 113863), (357, 113902), (372, 114022), (380, 114064), (389, 114109), (391, 114118), (402, 114169), (414, 114211), (432, 114277), (434, 114286), (435, 114289), (436, 114295), (437, 114298), (438, 114307), (439, 114313), (440, 114328), (462, 114415), (483, 114520), (495, 114574), (510, 114661), (516, 114691), (526, 114721), (533, 114754), (535, 114763), (546, 114835), (552, 114865), (577, 114982), (589, 115027), (601, 115069), (660, 115213), (675, 115273), (715, 115375), (750, 115462), (751, 115465), (761, 115483), (771, 115519), (772, 115522), (793, 115582), (798, 115600), (827, 115696), (836, 115726), (839, 115744), (846, 115774), (879, 115867), (883, 115882), (900, 115963), (902, 115969), (905, 115981),

Gene: EasyJones_212 Start: 113039, Stop: 116527, Start Num: 26

Candidate Starts for EasyJones_212:

(Start: 26 @113039 has 44 MA's), (Start: 28 @113045 has 6 MA's), (Start: 32 @113057 has 8 MA's), (37, 113066), (Start: 68 @113132 has 162 MA's), (84, 113207), (103, 113321), (109, 113345), (127, 113405), (151, 113516), (157, 113555), (164, 113579), (173, 113621), (203, 113720), (214, 113762), (216, 113768), (219, 113780), (229, 113843), (242, 113903), (243, 113906), (250, 113933), (261, 113975), (279, 114038), (330, 114194), (335, 114212), (338, 114227), (351, 114344), (357, 114383), (372, 114503), (380, 114545), (389, 114590), (391, 114599), (402, 114650), (414, 114692), (432, 114758), (434, 114767), (435, 114770), (436, 114776), (437, 114779), (438, 114788), (439, 114794), (440, 114809), (462, 114896), (483, 115001), (495, 115055), (510, 115142), (516, 115172), (526, 115202), (533, 115235), (535, 115244), (546, 115316), (552, 115346), (577, 115463), (589, 115508), (601, 115550), (660, 115694), (675, 115754), (715, 115856), (750, 115943), (751, 115946), (761, 115964), (771, 116000), (772, 116003), (793, 116063), (798, 116081), (827, 116177), (836, 116207), (839, 116225), (846, 116255), (879, 116348), (883, 116363), (900, 116444), (902, 116450), (905, 116462),

Gene: Eddasa_55 Start: 40726, Stop: 37247, Start Num: 68

Candidate Starts for Eddasa_55:

(Start: 68 @40726 has 162 MA's), (74, 40714), (84, 40654), (85, 40651), (Start: 89 @40627 has 6 MA's), (123, 40450), (126, 40423), (128, 40417), (144, 40327), (150, 40312), (160, 40258), (161, 40255), (188, 40159), (218, 40081), (247, 39934), (257, 39895), (269, 39850), (276, 39829), (283, 39814), (304, 39772), (308, 39760), (325, 39694), (329, 39682), (343, 39619), (359, 39490), (360, 39481), (366, 39445), (381, 39361), (383, 39343), (398, 39286), (399, 39283), (401, 39271), (438, 39133), (439, 39127), (440, 39112), (442, 39106), (451, 39067), (468, 38995), (474, 38962), (508, 38845), (512, 38821), (530, 38764), (534, 38740), (535, 38734), (546, 38665), (558, 38602), (574, 38536), (578, 38515), (583, 38497), (601, 38440), (602, 38431), (655, 38323), (657, 38314), (661, 38302), (663, 38281), (673, 38251), (678, 38224), (709, 38158), (711, 38149), (714, 38137), (747, 38050), (756, 38026), (772, 37978), (812, 37834), (832, 37759), (880, 37585), (887, 37549), (899, 37501), (908, 37468),

Gene: EggyFarm_218 Start: 115912, Stop: 119382, Start Num: 32

Candidate Starts for EggyFarm_218:

(11, 115819), (Start: 26 @115894 has 44 MA's), (Start: 28 @115900 has 6 MA's), (Start: 32 @115912 has 8 MA's), (37, 115921), (Start: 68 @115987 has 162 MA's), (84, 116062), (103, 116176), (109, 116200), (127, 116260), (151, 116371), (157, 116410), (164, 116434), (173, 116476), (203, 116575), (214, 116617), (216, 116623), (219, 116635), (229, 116698), (242, 116758), (243, 116761), (250, 116788), (261, 116830), (279, 116893), (330, 117049), (335, 117067), (338, 117082), (351, 117199), (357, 117238), (372, 117358), (380, 117400), (389, 117445), (391, 117454), (402, 117505), (414, 117547), (432, 117613), (434, 117622), (435, 117625), (436, 117631), (437, 117634), (438, 117643),

(439, 117649), (440, 117664), (462, 117751), (483, 117856), (495, 117910), (510, 117997), (516, 118027), (526, 118057), (533, 118090), (535, 118099), (546, 118171), (552, 118201), (577, 118318), (589, 118363), (601, 118405), (660, 118549), (675, 118609), (715, 118711), (750, 118798), (751, 118801), (761, 118819), (771, 118855), (772, 118858), (793, 118918), (798, 118936), (827, 119032), (836, 119062), (839, 119080), (846, 119110), (879, 119203), (883, 119218), (900, 119299), (902, 119305), (905, 119317),

Gene: Ejemplo_52 Start: 42420, Stop: 38935, Start Num: 68

Candidate Starts for Ejemplo_52:

(Start: 36 @42489 has 1 MA's), (Start: 68 @42420 has 162 MA's), (Start: 82 @42357 has 1 MA's), (84, 42348), (91, 42306), (107, 42213), (123, 42144), (135, 42075), (144, 42021), (161, 41949), (168, 41913), (188, 41853), (247, 41628), (257, 41589), (266, 41562), (269, 41544), (276, 41523), (283, 41508), (304, 41466), (325, 41388), (329, 41376), (358, 41190), (359, 41184), (366, 41139), (381, 41055), (383, 41037), (398, 40980), (399, 40977), (401, 40965), (438, 40827), (439, 40821), (440, 40806), (442, 40800), (449, 40767), (468, 40689), (474, 40656), (512, 40515), (534, 40434), (535, 40428), (546, 40359), (558, 40296), (564, 40275), (574, 40230), (601, 40134), (602, 40125), (604, 40119), (655, 40017), (657, 40008), (661, 39996), (663, 39975), (673, 39945), (678, 39918), (709, 39852), (711, 39843), (714, 39831), (747, 39744), (796, 39576), (812, 39528), (840, 39417), (880, 39279), (883, 39270), (887, 39243), (899, 39195), (908, 39162), (914, 39135), (933, 39030), (934, 39018),

Gene: Elmer_90 Start: 59515, Stop: 62835, Start Num: 69

Candidate Starts for Elmer_90:

(51, 59485), (Start: 69 @59515 has 26 MA's), (80, 59566), (85, 59587), (Start: 89 @59611 has 6 MA's), (102, 59692), (146, 59890), (189, 60070), (200, 60118), (213, 60175), (223, 60226), (225, 60244), (228, 60253), (236, 60289), (262, 60406), (302, 60478), (337, 60616), (349, 60685), (372, 60850), (387, 60928), (438, 61090), (442, 61117), (462, 61213), (466, 61237), (478, 61297), (502, 61369), (546, 61573), (559, 61627), (562, 61636), (566, 61654), (568, 61660), (607, 61843), (608, 61852), (619, 61876), (622, 61903), (696, 62200), (722, 62278), (732, 62320), (759, 62380), (771, 62419), (773, 62425), (783, 62452), (791, 62491), (806, 62539), (809, 62548), (830, 62620), (841, 62668), (842, 62671), (857, 62716), (858, 62719), (876, 62773), (882, 62788),

Gene: EmToTheThree_209 Start: 113531, Stop: 116926, Start Num: 68

Candidate Starts for EmToTheThree_209:

(Start: 26 @113438 has 44 MA's), (Start: 28 @113444 has 6 MA's), (Start: 32 @113456 has 8 MA's), (37, 113465), (Start: 68 @113531 has 162 MA's), (84, 113606), (103, 113720), (109, 113744), (127, 113804), (151, 113915), (157, 113954), (164, 113978), (173, 114020), (203, 114119), (214, 114161), (216, 114167), (219, 114179), (229, 114242), (242, 114302), (243, 114305), (250, 114332), (261, 114374), (279, 114437), (321, 114557), (330, 114593), (335, 114611), (338, 114626), (351, 114743), (357, 114782), (372, 114902), (380, 114944), (389, 114989), (391, 114998), (402, 115049), (414, 115091), (432, 115157), (434, 115166), (435, 115169), (436, 115175), (437, 115178), (438, 115187), (439, 115193), (440, 115208), (462, 115295), (483, 115400), (495, 115454), (510, 115541), (516, 115571), (526, 115601), (533, 115634), (535, 115643), (546, 115715), (552, 115745), (577, 115862), (589, 115907), (601, 115949), (660, 116093), (675, 116153), (715, 116255), (750, 116342), (751, 116345), (761, 116363), (771, 116399), (772, 116402), (793, 116462), (798, 116480), (827, 116576), (836, 116606), (839, 116624), (846, 116654), (879, 116747), (883, 116762), (900, 116843), (902, 116849), (905, 116861),

Gene: Emaanora_57 Start: 42405, Stop: 38920, Start Num: 68

Candidate Starts for Emaanora_57:

(Start: 36 @42474 has 1 MA's), (Start: 68 @42405 has 162 MA's), (Start: 82 @42342 has 1 MA's), (84, 42333), (91, 42291), (107, 42198), (123, 42129), (135, 42060), (144, 42006), (161, 41934), (168, 41898), (188, 41838), (247, 41613), (257, 41574), (266, 41547), (269, 41529), (276, 41508), (283,

41493), (304, 41451), (325, 41373), (329, 41361), (358, 41175), (359, 41169), (366, 41124), (381, 41040), (383, 41022), (398, 40965), (399, 40962), (401, 40950), (438, 40812), (439, 40806), (440, 40791), (442, 40785), (449, 40752), (468, 40674), (474, 40641), (512, 40500), (534, 40419), (535, 40413), (546, 40344), (558, 40281), (564, 40260), (574, 40215), (601, 40119), (602, 40110), (604, 40104), (655, 40002), (657, 39993), (661, 39981), (663, 39960), (673, 39930), (678, 39903), (709, 39837), (711, 39828), (714, 39816), (747, 39729), (796, 39561), (812, 39513), (840, 39402), (842, 39396), (880, 39264), (883, 39255), (887, 39228), (908, 39147), (933, 39015), (934, 39003),

Gene: Emianna_60 Start: 49104, Stop: 45793, Start Num: 73

Candidate Starts for Emianna_60:

(4, 49347), (Start: 73 @49104 has 88 MA's), (85, 49032), (Start: 89 @49008 has 6 MA's), (128, 48855), (130, 48846), (155, 48723), (194, 48564), (197, 48558), (204, 48534), (225, 48426), (232, 48396), (248, 48327), (292, 48189), (296, 48171), (335, 48018), (343, 47976), (354, 47898), (356, 47883), (376, 47745), (431, 47547), (440, 47493), (441, 47490), (454, 47430), (466, 47379), (481, 47310), (494, 47265), (549, 47025), (558, 46983), (559, 46980), (561, 46974), (565, 46956), (590, 46860), (603, 46806), (665, 46662), (669, 46653), (695, 46578), (718, 46503), (735, 46449), (753, 46407), (769, 46359), (794, 46278), (801, 46257), (827, 46167), (836, 46137), (841, 46113), (842, 46110), (892, 45927), (907, 45870),

Gene: Emma1919_62 Start: 48644, Stop: 51934, Start Num: 70

Candidate Starts for Emma1919_62:

(Start: 70 @48644 has 57 MA's), (75, 48659), (76, 48665), (85, 48716), (Start: 89 @48740 has 6 MA's), (129, 48929), (146, 49019), (159, 49079), (189, 49199), (213, 49304), (225, 49367), (227, 49373), (236, 49412), (323, 49685), (337, 49739), (345, 49769), (349, 49808), (356, 49856), (431, 50156), (439, 50195), (460, 50300), (461, 50306), (462, 50312), (468, 50345), (471, 50360), (474, 50378), (477, 50390), (478, 50396), (487, 50429), (499, 50459), (502, 50468), (516, 50534), (517, 50540), (521, 50549), (534, 50603), (546, 50675), (559, 50729), (562, 50738), (566, 50756), (568, 50762), (598, 50876), (606, 50942), (608, 50954), (626, 51014), (627, 51017), (640, 51080), (641, 51086), (644, 51092), (665, 51197), (679, 51248), (706, 51317), (725, 51386), (727, 51395), (758, 51464), (759, 51470), (764, 51482), (773, 51515), (775, 51518), (791, 51581), (793, 51590), (800, 51611), (804, 51623), (818, 51665), (842, 51761), (852, 51797), (857, 51806), (864, 51824), (891, 51920),

Gene: EmmaElysia_212 Start: 113550, Stop: 116945, Start Num: 68

Candidate Starts for EmmaElysia_212:

(Start: 26 @113457 has 44 MA's), (Start: 28 @113463 has 6 MA's), (Start: 32 @113475 has 8 MA's), (37, 113484), (Start: 68 @113550 has 162 MA's), (84, 113625), (103, 113739), (109, 113763), (127, 113823), (151, 113934), (157, 113973), (164, 113997), (173, 114039), (203, 114138), (214, 114180), (216, 114186), (219, 114198), (229, 114261), (242, 114321), (243, 114324), (250, 114351), (261, 114393), (279, 114456), (321, 114576), (330, 114612), (335, 114630), (338, 114645), (351, 114762), (357, 114801), (372, 114921), (380, 114963), (389, 115008), (391, 115017), (402, 115068), (414, 115110), (432, 115176), (434, 115185), (435, 115188), (436, 115194), (437, 115197), (438, 115206), (439, 115212), (440, 115227), (462, 115314), (483, 115419), (495, 115473), (510, 115560), (516, 115590), (526, 115620), (533, 115653), (535, 115662), (546, 115734), (552, 115764), (577, 115881), (589, 115926), (601, 115968), (660, 116112), (675, 116172), (715, 116274), (750, 116361), (751, 116364), (761, 116382), (771, 116418), (772, 116421), (793, 116481), (798, 116499), (827, 116595), (836, 116625), (839, 116643), (846, 116673), (879, 116766), (883, 116781), (900, 116862), (902, 116868), (905, 116880),

Gene: Ennea_66 Start: 49878, Stop: 46564, Start Num: 73

Candidate Starts for Ennea_66:

(1, 50130), (10, 50043), (14, 50016), (Start: 73 @49878 has 88 MA's), (Start: 89 @49782 has 6 MA's), (128, 49629), (130, 49620), (155, 49497), (194, 49338), (197, 49332), (204, 49308), (218, 49254),

(225, 49200), (232, 49170), (241, 49131), (252, 49089), (271, 49008), (292, 48963), (335, 48792), (343, 48750), (354, 48672), (356, 48657), (376, 48519), (431, 48321), (450, 48219), (466, 48153), (476, 48102), (481, 48084), (494, 48039), (549, 47796), (558, 47754), (559, 47751), (561, 47745), (565, 47727), (590, 47631), (596, 47613), (603, 47577), (665, 47433), (669, 47424), (674, 47400), (695, 47349), (735, 47220), (769, 47130), (772, 47121), (794, 47049), (801, 47028), (845, 46872), (850, 46857), (916, 46608),

Gene: EnochSoames_57 Start: 40522, Stop: 37043, Start Num: 68

Candidate Starts for EnochSoames_57:

(Start: 36 @40591 has 1 MA's), (Start: 68 @40522 has 162 MA's), (84, 40450), (Start: 89 @40423 has 6 MA's), (91, 40408), (123, 40246), (126, 40219), (128, 40213), (144, 40123), (150, 40108), (160, 40054), (161, 40051), (188, 39955), (218, 39877), (247, 39730), (257, 39691), (269, 39646), (276, 39625), (283, 39610), (304, 39568), (308, 39556), (325, 39490), (329, 39478), (343, 39415), (359, 39286), (360, 39277), (366, 39241), (381, 39157), (383, 39139), (398, 39082), (399, 39079), (401, 39067), (438, 38929), (439, 38923), (440, 38908), (442, 38902), (456, 38845), (468, 38791), (474, 38758), (512, 38617), (530, 38560), (534, 38536), (535, 38530), (546, 38461), (558, 38398), (574, 38332), (578, 38311), (583, 38293), (601, 38236), (602, 38227), (655, 38119), (657, 38110), (661, 38098), (663, 38077), (673, 38047), (678, 38020), (709, 37954), (711, 37945), (714, 37933), (747, 37846), (756, 37822), (772, 37774), (812, 37630), (832, 37555), (880, 37381), (887, 37345), (899, 37297), (908, 37264),

Gene: Enygma_82 Start: 60218, Stop: 63538, Start Num: 69

Candidate Starts for Enygma_82:

(Start: 69 @60218 has 26 MA's), (85, 60290), (Start: 89 @60314 has 6 MA's), (146, 60593), (189, 60773), (200, 60821), (213, 60878), (223, 60929), (225, 60947), (228, 60956), (236, 60992), (262, 61109), (337, 61319), (349, 61388), (372, 61553), (387, 61631), (438, 61793), (462, 61916), (472, 61973), (478, 62000), (502, 62072), (546, 62276), (559, 62330), (562, 62339), (566, 62357), (568, 62363), (598, 62477), (608, 62555), (619, 62579), (622, 62606), (648, 62714), (696, 62903), (722, 62981), (732, 63023), (740, 63041), (759, 63083), (773, 63128), (783, 63155), (791, 63194), (806, 63242), (809, 63251), (830, 63323), (833, 63335), (836, 63344), (841, 63371), (842, 63374), (857, 63419), (858, 63422), (876, 63476), (882, 63491),

Gene: Erdmann_210 Start: 113397, Stop: 116885, Start Num: 26

Candidate Starts for Erdmann_210:

(Start: 26 @113397 has 44 MA's), (Start: 28 @113403 has 6 MA's), (Start: 32 @113415 has 8 MA's), (37, 113424), (Start: 68 @113490 has 162 MA's), (84, 113565), (103, 113679), (109, 113703), (127, 113763), (151, 113874), (157, 113913), (164, 113937), (173, 113979), (203, 114078), (214, 114120), (216, 114126), (219, 114138), (229, 114201), (242, 114261), (243, 114264), (250, 114291), (261, 114333), (279, 114396), (330, 114552), (335, 114570), (338, 114585), (351, 114702), (357, 114741), (372, 114861), (380, 114903), (389, 114948), (391, 114957), (402, 115008), (414, 115050), (432, 115116), (434, 115125), (435, 115128), (436, 115134), (437, 115137), (438, 115146), (439, 115152), (440, 115167), (462, 115254), (483, 115359), (495, 115413), (510, 115500), (516, 115530), (526, 115560), (533, 115593), (535, 115602), (546, 115674), (552, 115704), (577, 115821), (589, 115866), (601, 115908), (660, 116052), (675, 116112), (715, 116214), (750, 116301), (751, 116304), (761, 116322), (771, 116358), (772, 116361), (793, 116421), (798, 116439), (827, 116535), (836, 116565), (839, 116583), (846, 116613), (879, 116706), (883, 116721), (900, 116802), (902, 116808), (905, 116820),

Gene: Erk16_66 Start: 49865, Stop: 53167, Start Num: 29

Candidate Starts for Erk16_66:

(Start: 29 @49865 has 19 MA's), (Start: 64 @49952 has 1 MA's), (Start: 67 @49958 has 1 MA's), (Start: 73 @49967 has 88 MA's), (Start: 89 @50063 has 6 MA's), (130, 50219), (148, 50306), (149, 50309), (159, 50360), (224, 50624), (232, 50663), (249, 50735), (252, 50744), (270, 50819), (292,

50885), (294, 50891), (309, 50945), (316, 50963), (325, 51014), (326, 51017), (334, 51047), (349, 51131), (350, 51140), (354, 51167), (356, 51182), (382, 51359), (383, 51368), (412, 51473), (438, 51554), (448, 51614), (466, 51689), (472, 51722), (473, 51728), (478, 51749), (481, 51758), (494, 51803), (514, 51872), (520, 51887), (536, 51956), (547, 52019), (556, 52052), (557, 52055), (568, 52106), (584, 52181), (643, 52304), (651, 52322), (668, 52400), (669, 52403), (671, 52415), (685, 52460), (695, 52481), (699, 52493), (711, 52523), (717, 52544), (777, 52616), (798, 52673), (826, 52772), (844, 52838), (875, 52928), (881, 52958), (882, 52961), (887, 52991), (896, 53036), (907, 53078), (914, 53108), (918, 53120), (922, 53135), (925, 53144),

Gene: ErnieJ_202 Start: 111218, Stop: 114706, Start Num: 26

Candidate Starts for ErnieJ_202:

(Start: 26 @111218 has 44 MA's), (Start: 28 @111224 has 6 MA's), (Start: 32 @111236 has 8 MA's), (37, 111245), (Start: 68 @111311 has 162 MA's), (84, 111386), (103, 111500), (109, 111524), (127, 111584), (151, 111695), (157, 111734), (164, 111758), (173, 111800), (203, 111899), (214, 111941), (216, 111947), (219, 111959), (229, 112022), (242, 112082), (243, 112085), (250, 112112), (261, 112154), (279, 112217), (321, 112337), (330, 112373), (335, 112391), (338, 112406), (351, 112523), (357, 112562), (372, 112682), (380, 112724), (389, 112769), (391, 112778), (402, 112829), (414, 112871), (432, 112937), (434, 112946), (435, 112949), (436, 112955), (437, 112958), (438, 112967), (439, 112973), (440, 112988), (462, 113075), (483, 113180), (495, 113234), (510, 113321), (516, 113351), (526, 113381), (533, 113414), (535, 113423), (546, 113495), (552, 113525), (577, 113642), (589, 113687), (601, 113729), (660, 113873), (675, 113933), (715, 114035), (750, 114122), (751, 114125), (761, 114143), (771, 114179), (772, 114182), (793, 114242), (798, 114260), (827, 114356), (836, 114386), (839, 114404), (846, 114434), (879, 114527), (883, 114542), (900, 114623), (902, 114629), (905, 114641),

Gene: Erutan_79 Start: 51975, Stop: 55283, Start Num: 78

Candidate Starts for Erutan_79:

(Start: 78 @51975 has 4 MA's), (Start: 82 @52002 has 1 MA's), (85, 52014), (Start: 89 @52038 has 6 MA's), (93, 52083), (103, 52125), (166, 52386), (194, 52488), (205, 52521), (224, 52617), (288, 52887), (289, 52896), (316, 53004), (324, 53049), (335, 53091), (356, 53223), (357, 53226), (358, 53256), (361, 53277), (372, 53346), (382, 53400), (404, 53499), (412, 53514), (429, 53556), (466, 53730), (472, 53763), (476, 53781), (481, 53799), (494, 53844), (495, 53847), (524, 53943), (534, 53985), (536, 53997), (541, 54033), (582, 54213), (596, 54255), (603, 54291), (643, 54345), (651, 54363), (669, 54459), (671, 54471), (739, 54666), (798, 54750), (822, 54831), (827, 54855), (831, 54870), (840, 54906), (844, 54918), (845, 54924), (846, 54927), (855, 54954), (873, 54999), (893, 55107), (906, 55152), (912, 55176), (922, 55212),

Gene: Esperer_53 Start: 40052, Stop: 36573, Start Num: 68

Candidate Starts for Esperer_53:

(2, 40313), (Start: 68 @40052 has 162 MA's), (84, 39980), (Start: 89 @39953 has 6 MA's), (91, 39938), (123, 39776), (126, 39749), (128, 39743), (144, 39653), (150, 39638), (160, 39584), (161, 39581), (188, 39485), (218, 39407), (227, 39347), (247, 39260), (257, 39221), (269, 39176), (276, 39155), (283, 39140), (304, 39098), (308, 39086), (325, 39020), (329, 39008), (343, 38945), (359, 38816), (360, 38807), (366, 38771), (381, 38687), (383, 38669), (398, 38612), (399, 38609), (401, 38597), (438, 38459), (439, 38453), (440, 38438), (442, 38432), (449, 38399), (468, 38321), (474, 38288), (512, 38147), (530, 38090), (534, 38066), (535, 38060), (546, 37991), (558, 37928), (574, 37862), (578, 37841), (583, 37823), (601, 37766), (602, 37757), (655, 37649), (657, 37640), (661, 37628), (663, 37607), (673, 37577), (678, 37550), (709, 37484), (711, 37475), (714, 37463), (747, 37376), (756, 37352), (772, 37304), (812, 37160), (832, 37085), (880, 36911), (887, 36875), (899, 36827), (908, 36794),

Gene: Essence_206 Start: 112272, Stop: 115667, Start Num: 68

Candidate Starts for Essence_206:

(Start: 26 @112179 has 44 MA's), (Start: 28 @112185 has 6 MA's), (Start: 32 @112197 has 8 MA's), (37, 112206), (Start: 68 @112272 has 162 MA's), (84, 112347), (103, 112461), (109, 112485), (127, 112545), (151, 112656), (157, 112695), (164, 112719), (173, 112761), (203, 112860), (214, 112902), (216, 112908), (219, 112920), (229, 112983), (242, 113043), (243, 113046), (250, 113073), (261, 113115), (279, 113178), (330, 113334), (335, 113352), (338, 113367), (351, 113484), (357, 113523), (372, 113643), (380, 113685), (389, 113730), (391, 113739), (402, 113790), (414, 113832), (432, 113898), (434, 113907), (435, 113910), (436, 113916), (437, 113919), (438, 113928), (439, 113934), (440, 113949), (462, 114036), (483, 114141), (495, 114195), (510, 114282), (516, 114312), (526, 114342), (533, 114375), (535, 114384), (546, 114456), (552, 114486), (577, 114603), (589, 114648), (601, 114690), (660, 114834), (675, 114894), (715, 114996), (750, 115083), (751, 115086), (761, 115104), (771, 115140), (772, 115143), (793, 115203), (798, 115221), (827, 115317), (836, 115347), (839, 115365), (846, 115395), (879, 115488), (883, 115503), (900, 115584), (902, 115590), (905, 115602),

Gene: Evy_80 Start: 59063, Stop: 62347, Start Num: 70

Candidate Starts for Evy_80:

(Start: 70 @59063 has 57 MA's), (79, 59108), (85, 59138), (88, 59156), (Start: 89 @59162 has 6 MA's), (99, 59228), (146, 59441), (189, 59621), (213, 59726), (225, 59789), (227, 59795), (236, 59834), (254, 59924), (262, 59951), (310, 60050), (337, 60161), (345, 60191), (346, 60194), (349, 60230), (387, 60473), (394, 60503), (439, 60617), (440, 60632), (460, 60722), (461, 60728), (462, 60734), (478, 60818), (499, 60881), (502, 60890), (508, 60917), (517, 60962), (534, 61025), (546, 61097), (559, 61151), (562, 61160), (564, 61169), (566, 61178), (568, 61184), (622, 61427), (638, 61496), (664, 61613), (694, 61703), (708, 61745), (725, 61808), (736, 61841), (759, 61892), (773, 61937), (791, 62003), (806, 62051), (830, 62132), (832, 62141), (842, 62183), (858, 62231), (864, 62246),

Gene: Ewok_208 Start: 113408, Stop: 116803, Start Num: 68

Candidate Starts for Ewok_208:

(Start: 26 @113315 has 44 MA's), (Start: 28 @113321 has 6 MA's), (Start: 32 @113333 has 8 MA's), (37, 113342), (Start: 68 @113408 has 162 MA's), (84, 113483), (103, 113597), (109, 113621), (127, 113681), (151, 113792), (157, 113831), (164, 113855), (173, 113897), (203, 113996), (214, 114038), (216, 114044), (219, 114056), (229, 114119), (242, 114179), (243, 114182), (250, 114209), (261, 114251), (279, 114314), (321, 114434), (330, 114470), (335, 114488), (338, 114503), (351, 114620), (357, 114659), (372, 114779), (380, 114821), (389, 114866), (391, 114875), (402, 114926), (414, 114968), (432, 115034), (434, 115043), (435, 115046), (436, 115052), (437, 115055), (438, 115064), (439, 115070), (440, 115085), (462, 115172), (483, 115277), (495, 115331), (510, 115418), (516, 115448), (526, 115478), (533, 115511), (535, 115520), (546, 115592), (552, 115622), (577, 115739), (589, 115784), (601, 115826), (660, 115970), (675, 116030), (715, 116132), (750, 116219), (751, 116222), (761, 116240), (771, 116276), (772, 116279), (793, 116339), (798, 116357), (827, 116453), (836, 116483), (839, 116501), (846, 116531), (879, 116624), (883, 116639), (900, 116720), (902, 116726), (905, 116738),

Gene: Faust_61 Start: 49769, Stop: 53059, Start Num: 70

Candidate Starts for Faust_61:

(Start: 70 @49769 has 57 MA's), (75, 49784), (76, 49790), (85, 49841), (Start: 89 @49865 has 6 MA's), (146, 50144), (159, 50204), (188, 50318), (189, 50324), (213, 50429), (225, 50492), (227, 50498), (236, 50537), (375, 51116), (431, 51281), (439, 51320), (460, 51425), (461, 51431), (462, 51437), (466, 51461), (474, 51503), (487, 51554), (502, 51593), (517, 51665), (534, 51728), (546, 51800), (559, 51854), (562, 51863), (564, 51872), (566, 51881), (568, 51887), (606, 52067), (608, 52079), (619, 52103), (626, 52139), (627, 52142), (638, 52199), (640, 52205), (644, 52217), (665, 52322), (696, 52415), (727, 52520), (731, 52532), (758, 52589), (759, 52595), (773, 52640), (791, 52706), (793, 52715), (811, 52766), (842, 52886), (861, 52937), (864, 52949), (888, 53036),

Gene: Finch_77 Start: 65462, Stop: 68653, Start Num: 72

Candidate Starts for Finch_77:

(Start: 72 @65462 has 1 MA's), (84, 65525), (105, 65648), (138, 65789), (139, 65798), (144, 65822), (153, 65858), (158, 65882), (170, 65939), (183, 65978), (188, 66002), (203, 66044), (219, 66104), (229, 66167), (243, 66224), (247, 66239), (250, 66251), (253, 66266), (267, 66311), (279, 66353), (304, 66407), (313, 66431), (314, 66434), (321, 66473), (333, 66521), (335, 66527), (341, 66563), (343, 66569), (353, 66638), (363, 66734), (372, 66782), (384, 66848), (386, 66854), (414, 66926), (415, 66929), (434, 67001), (435, 67004), (436, 67010), (446, 67067), (449, 67082), (452, 67091), (456, 67106), (462, 67127), (464, 67136), (477, 67205), (501, 67289), (503, 67295), (507, 67313), (512, 67343), (524, 67382), (544, 67496), (546, 67499), (558, 67550), (559, 67553), (561, 67559), (573, 67613), (574, 67616), (577, 67631), (583, 67658), (594, 67694), (603, 67748), (639, 67790), (663, 67892), (675, 67934), (676, 67937), (678, 67949), (709, 68012), (710, 68018), (732, 68090), (741, 68102), (750, 68132), (772, 68189), (822, 68270), (824, 68279), (844, 68360), (862, 68408), (865, 68420), (879, 68462), (881, 68471), (887, 68504), (899, 68552),

Gene: Flabslab_204 Start: 111453, Stop: 114848, Start Num: 68

Candidate Starts for Flabslab_204:

(Start: 26 @111360 has 44 MA's), (Start: 28 @111366 has 6 MA's), (Start: 32 @111378 has 8 MA's), (37, 111387), (Start: 68 @111453 has 162 MA's), (84, 111528), (103, 111642), (109, 111666), (127, 111726), (151, 111837), (157, 111876), (164, 111900), (173, 111942), (203, 112041), (214, 112083), (216, 112089), (219, 112101), (229, 112164), (242, 112224), (243, 112227), (250, 112254), (261, 112296), (279, 112359), (321, 112479), (330, 112515), (335, 112533), (338, 112548), (351, 112665), (357, 112704), (372, 112824), (380, 112866), (389, 112911), (391, 112920), (402, 112971), (414, 113013), (432, 113079), (434, 113088), (435, 113091), (436, 113097), (437, 113100), (438, 113109), (439, 113115), (440, 113130), (462, 113217), (483, 113322), (495, 113376), (510, 113463), (516, 113493), (526, 113523), (533, 113556), (535, 113565), (546, 113637), (552, 113667), (577, 113784), (589, 113829), (601, 113871), (660, 114015), (675, 114075), (715, 114177), (750, 114264), (751, 114267), (761, 114285), (771, 114321), (772, 114324), (793, 114384), (798, 114402), (827, 114498), (836, 114528), (839, 114546), (846, 114576), (879, 114669), (883, 114684), (900, 114765), (902, 114771), (905, 114783),

Gene: Flapper_64 Start: 49579, Stop: 46298, Start Num: 73

Candidate Starts for Flapper_64:

(25, 49672), (Start: 71 @49582 has 4 MA's), (Start: 73 @49579 has 88 MA's), (74, 49570), (86, 49498), (Start: 89 @49483 has 6 MA's), (93, 49438), (128, 49327), (130, 49318), (142, 49252), (155, 49195), (188, 49069), (197, 49030), (204, 49006), (210, 48979), (216, 48961), (218, 48952), (225, 48898), (278, 48685), (292, 48661), (325, 48526), (354, 48367), (356, 48352), (419, 48034), (431, 48010), (441, 47953), (466, 47842), (481, 47773), (485, 47758), (494, 47728), (540, 47539), (549, 47491), (558, 47449), (559, 47446), (561, 47440), (565, 47422), (590, 47326), (596, 47308), (603, 47272), (669, 47107), (675, 47077), (686, 47047), (718, 47008), (735, 46954), (748, 46930), (769, 46867), (790, 46807), (801, 46765), (841, 46621), (842, 46618), (849, 46594), (907, 46378), (916, 46342), (925, 46312),

Gene: Float294_60 Start: 49099, Stop: 45785, Start Num: 73

Candidate Starts for Float294_60:

(3, 49324), (12, 49240), (Start: 73 @49099 has 88 MA's), (Start: 89 @49003 has 6 MA's), (128, 48850), (130, 48841), (155, 48718), (194, 48559), (197, 48553), (225, 48421), (232, 48391), (252, 48310), (271, 48229), (292, 48184), (335, 48013), (343, 47971), (354, 47893), (356, 47878), (376, 47740), (391, 47662), (431, 47542), (450, 47440), (466, 47374), (476, 47323), (481, 47305), (494, 47260), (549, 47017), (558, 46975), (559, 46972), (561, 46966), (565, 46948), (590, 46852), (596, 46834), (603, 46798), (665, 46654), (669, 46645), (674, 46621), (695, 46570), (735, 46441), (769, 46351), (772, 46342), (790, 46291), (794, 46270), (801, 46249), (845, 46093), (850, 46078), (916, 45829),

Gene: Fludd_209 Start: 112844, Stop: 116239, Start Num: 68

Candidate Starts for Fludd_209:

(Start: 26 @112751 has 44 MA's), (Start: 28 @112757 has 6 MA's), (Start: 32 @112769 has 8 MA's), (37, 112778), (Start: 68 @112844 has 162 MA's), (84, 112919), (103, 113033), (109, 113057), (127, 113117), (151, 113228), (157, 113267), (164, 113291), (173, 113333), (203, 113432), (214, 113474), (216, 113480), (219, 113492), (229, 113555), (242, 113615), (243, 113618), (250, 113645), (261, 113687), (279, 113750), (321, 113870), (330, 113906), (335, 113924), (338, 113939), (351, 114056), (357, 114095), (372, 114215), (380, 114257), (389, 114302), (391, 114311), (402, 114362), (414, 114404), (432, 114470), (434, 114479), (435, 114482), (436, 114488), (437, 114491), (438, 114500), (439, 114506), (440, 114521), (462, 114608), (483, 114713), (495, 114767), (510, 114854), (516, 114884), (526, 114914), (533, 114947), (535, 114956), (546, 115028), (552, 115058), (577, 115175), (589, 115220), (601, 115262), (660, 115406), (675, 115466), (715, 115568), (750, 115655), (751, 115658), (761, 115676), (771, 115712), (772, 115715), (793, 115775), (798, 115793), (827, 115889), (836, 115919), (839, 115937), (846, 115967), (879, 116060), (883, 116075), (900, 116156), (902, 116162), (905, 116174),

Gene: FlyingTortilla_99 Start: 74166, Stop: 76973, Start Num: 58

Candidate Starts for FlyingTortilla_99:

(19, 74061), (31, 74103), (Start: 49 @74151 has 1 MA's), (Start: 58 @74166 has 5 MA's), (84, 74256), (87, 74271), (92, 74316), (108, 74394), (125, 74466), (147, 74574), (153, 74604), (154, 74607), (155, 74610), (167, 74670), (173, 74691), (183, 74721), (216, 74838), (226, 74904), (229, 74913), (230, 74916), (262, 75045), (276, 75099), (325, 75210), (330, 75228), (334, 75243), (336, 75249), (338, 75261), (345, 75288), (346, 75291), (353, 75351), (354, 75360), (357, 75375), (371, 75489), (413, 75687), (416, 75711), (423, 75729), (429, 75762), (440, 75819), (441, 75822), (450, 75867), (452, 75870), (462, 75909), (464, 75918), (468, 75942), (469, 75948), (473, 75972), (474, 75975), (478, 75993), (482, 76005), (519, 76134), (522, 76140), (528, 76164), (532, 76182), (534, 76194), (556, 76311), (558, 76329), (559, 76332), (562, 76341), (588, 76446), (592, 76455), (600, 76482), (655, 76614), (659, 76626), (661, 76632), (676, 76698), (680, 76716), (685, 76728), (689, 76737), (702, 76773), (732, 76851), (744, 76878), (768, 76953), (771, 76962),

Gene: Forrest_62 Start: 49341, Stop: 52631, Start Num: 70

Candidate Starts for Forrest_62:

(Start: 70 @49341 has 57 MA's), (75, 49356), (76, 49362), (85, 49413), (Start: 89 @49437 has 6 MA's), (129, 49626), (146, 49716), (159, 49776), (189, 49896), (213, 50001), (225, 50064), (227, 50070), (236, 50109), (323, 50382), (337, 50436), (345, 50466), (349, 50505), (356, 50553), (431, 50853), (439, 50892), (460, 50997), (461, 51003), (462, 51009), (468, 51042), (471, 51057), (474, 51075), (477, 51087), (478, 51093), (487, 51126), (499, 51156), (502, 51165), (516, 51231), (517, 51237), (521, 51246), (534, 51300), (546, 51372), (559, 51426), (562, 51435), (566, 51453), (568, 51459), (598, 51573), (606, 51639), (608, 51651), (626, 51711), (627, 51714), (640, 51777), (641, 51783), (644, 51789), (665, 51894), (678, 51942), (679, 51945), (706, 52014), (725, 52083), (727, 52092), (758, 52161), (759, 52167), (764, 52179), (773, 52212), (775, 52215), (791, 52278), (793, 52287), (800, 52308), (804, 52320), (818, 52362), (842, 52458), (852, 52494), (857, 52503), (864, 52521), (891, 52617),

Gene: Foxboro_61 Start: 49613, Stop: 46299, Start Num: 73

Candidate Starts for Foxboro_61:

(4, 49856), (Start: 73 @49613 has 88 MA's), (85, 49541), (Start: 89 @49517 has 6 MA's), (93, 49472), (128, 49364), (130, 49355), (155, 49232), (194, 49073), (197, 49067), (204, 49043), (225, 48935), (232, 48905), (248, 48836), (292, 48698), (296, 48680), (335, 48527), (343, 48485), (348, 48446), (354, 48407), (356, 48392), (376, 48254), (431, 48056), (441, 47999), (454, 47939), (466, 47888), (481, 47819), (494, 47774), (558, 47489), (559, 47486), (561, 47480), (565, 47462), (590, 47366), (603, 47312), (649, 47243), (669, 47159), (682, 47108), (686, 47099), (718, 47009), (735, 46955),

(753, 46913), (769, 46865), (794, 46784), (801, 46763), (827, 46673), (836, 46643), (841, 46619), (842, 46616), (892, 46433), (907, 46376),

Gene: FoxtrotP1_207 Start: 114088, Stop: 117483, Start Num: 68

Candidate Starts for FoxtrotP1_207:

(Start: 26 @113995 has 44 MA's), (Start: 28 @114001 has 6 MA's), (Start: 32 @114013 has 8 MA's), (37, 114022), (Start: 68 @114088 has 162 MA's), (84, 114163), (103, 114277), (109, 114301), (127, 114361), (151, 114472), (157, 114511), (164, 114535), (173, 114577), (203, 114676), (214, 114718), (216, 114724), (219, 114736), (229, 114799), (242, 114859), (243, 114862), (250, 114889), (261, 114931), (279, 114994), (330, 115150), (335, 115168), (338, 115183), (351, 115300), (357, 115339), (372, 115459), (380, 115501), (389, 115546), (391, 115555), (402, 115606), (414, 115648), (432, 115714), (434, 115723), (435, 115726), (436, 115732), (437, 115735), (438, 115744), (439, 115750), (440, 115765), (462, 115852), (483, 115957), (495, 116011), (510, 116098), (516, 116128), (526, 116158), (533, 116191), (535, 116200), (546, 116272), (552, 116302), (577, 116419), (589, 116464), (601, 116506), (660, 116650), (675, 116710), (715, 116812), (750, 116899), (751, 116902), (761, 116920), (771, 116956), (772, 116959), (793, 117019), (798, 117037), (827, 117133), (836, 117163), (839, 117181), (846, 117211), (879, 117304), (883, 117319), (900, 117400), (902, 117406), (905, 117418),

Gene: Francesca_77 Start: 61162, Stop: 64965, Start Num: 67

Candidate Starts for Francesca_77:

(Start: 67 @61162 has 1 MA's), (Start: 73 @61171 has 88 MA's), (88, 61261), (96, 61321), (105, 61363), (155, 61582), (157, 61597), (183, 61696), (188, 61720), (223, 61882), (228, 61909), (236, 61945), (259, 62053), (291, 62110), (307, 62155), (311, 62164), (332, 62251), (338, 62278), (347, 62314), (351, 62356), (356, 62392), (383, 62578), (384, 62581), (410, 62668), (429, 62725), (448, 62824), (455, 62851), (478, 62965), (489, 63007), (502, 63037), (517, 63109), (557, 63277), (559, 63295), (566, 63322), (580, 63388), (587, 63409), (594, 63436), (601, 63454), (621, 63565), (625, 63571), (634, 63628), (653, 63706), (658, 63739), (678, 63841), (723, 63976), (731, 64012), (761, 64090), (769, 64120), (786, 64174), (789, 64183), (820, 64300), (852, 64429), (861, 64444), (866, 64459), (891, 64552), (907, 64627), (913, 64654), (915, 64660), (917, 64666), (928, 64705), (929, 64717), (932, 64738), (941, 64807), (944, 64840), (948, 64864), (954, 64933),

Gene: Francob_59 Start: 48697, Stop: 51987, Start Num: 70

Candidate Starts for Francob_59:

(Start: 70 @48697 has 57 MA's), (76, 48718), (85, 48769), (Start: 89 @48793 has 6 MA's), (146, 49072), (159, 49132), (189, 49252), (213, 49357), (225, 49420), (227, 49426), (236, 49465), (254, 49555), (350, 49870), (356, 49909), (431, 50209), (439, 50248), (462, 50365), (468, 50398), (474, 50431), (478, 50449), (487, 50482), (502, 50521), (516, 50587), (517, 50593), (534, 50656), (546, 50728), (559, 50782), (562, 50791), (564, 50800), (566, 50809), (568, 50815), (598, 50929), (606, 50995), (608, 51007), (626, 51067), (627, 51070), (638, 51127), (640, 51133), (641, 51139), (644, 51145), (665, 51250), (679, 51301), (727, 51448), (758, 51517), (759, 51523), (764, 51535), (791, 51634), (793, 51643), (811, 51694), (820, 51727), (842, 51814), (861, 51865), (864, 51877),

Gene: FrayBell_212 Start: 112934, Stop: 116329, Start Num: 68

Candidate Starts for FrayBell_212:

(Start: 26 @112841 has 44 MA's), (Start: 28 @112847 has 6 MA's), (Start: 32 @112859 has 8 MA's), (37, 112868), (Start: 68 @112934 has 162 MA's), (84, 113009), (103, 113123), (109, 113147), (127, 113207), (151, 113318), (157, 113357), (164, 113381), (173, 113423), (203, 113522), (214, 113564), (216, 113570), (219, 113582), (229, 113645), (242, 113705), (243, 113708), (250, 113735), (261, 113777), (279, 113840), (330, 113996), (335, 114014), (338, 114029), (351, 114146), (357, 114185), (372, 114305), (380, 114347), (389, 114392), (391, 114401), (402, 114452), (414, 114494), (432, 114560), (434, 114569), (435, 114572), (436, 114578), (437, 114581), (438, 114590), (439, 114596), (440, 114611), (462, 114698), (483, 114803), (495, 114857), (510, 114944), (516, 114974), (526,

115004), (533, 115037), (535, 115046), (546, 115118), (552, 115148), (577, 115265), (589, 115310), (601, 115352), (660, 115496), (675, 115556), (715, 115658), (750, 115745), (751, 115748), (761, 115766), (771, 115802), (772, 115805), (793, 115865), (798, 115883), (827, 115979), (836, 116009), (839, 116027), (846, 116057), (879, 116150), (883, 116165), (900, 116246), (902, 116252), (905, 116264),

Gene: FudgeTart_204 Start: 112462, Stop: 115950, Start Num: 26

Candidate Starts for FudgeTart_204:

(Start: 26 @112462 has 44 MA's), (Start: 28 @112468 has 6 MA's), (Start: 32 @112480 has 8 MA's), (37, 112489), (Start: 68 @112555 has 162 MA's), (84, 112630), (103, 112744), (109, 112768), (127, 112828), (151, 112939), (157, 112978), (164, 113002), (173, 113044), (203, 113143), (214, 113185), (216, 113191), (219, 113203), (229, 113266), (242, 113326), (243, 113329), (250, 113356), (261, 113398), (279, 113461), (321, 113581), (330, 113617), (335, 113635), (338, 113650), (351, 113767), (357, 113806), (372, 113926), (380, 113968), (389, 114013), (391, 114022), (402, 114073), (414, 114115), (432, 114181), (434, 114190), (435, 114193), (436, 114199), (437, 114202), (438, 114211), (439, 114217), (440, 114232), (462, 114319), (483, 114424), (495, 114478), (510, 114565), (516, 114595), (526, 114625), (533, 114658), (535, 114667), (546, 114739), (552, 114769), (577, 114886), (589, 114931), (601, 114973), (660, 115117), (675, 115177), (715, 115279), (750, 115366), (751, 115369), (761, 115387), (771, 115423), (772, 115426), (793, 115486), (798, 115504), (827, 115600), (836, 115630), (839, 115648), (846, 115678), (879, 115771), (883, 115786), (900, 115867), (902, 115873), (905, 115885),

Gene: Fulcrum_78 Start: 51710, Stop: 55051, Start Num: 73

Candidate Starts for Fulcrum_78:

(47, 51662), (Start: 73 @51710 has 88 MA's), (Start: 82 @51770 has 1 MA's), (Start: 89 @51806 has 6 MA's), (93, 51851), (103, 51893), (166, 52154), (194, 52256), (205, 52289), (224, 52385), (288, 52655), (289, 52664), (316, 52772), (324, 52817), (335, 52859), (356, 52991), (357, 52994), (358, 53024), (372, 53114), (382, 53168), (404, 53267), (412, 53282), (429, 53324), (466, 53498), (472, 53531), (476, 53549), (481, 53567), (494, 53612), (495, 53615), (524, 53711), (534, 53753), (536, 53765), (541, 53801), (582, 53981), (596, 54023), (603, 54059), (643, 54113), (651, 54131), (669, 54227), (671, 54239), (739, 54434), (798, 54518), (827, 54623), (831, 54638), (840, 54674), (844, 54686), (845, 54692), (846, 54695), (855, 54722), (873, 54767), (893, 54875), (906, 54920), (912, 54944), (922, 54980),

Gene: Fury_67 Start: 47998, Stop: 44609, Start Num: 40

Candidate Starts for Fury_67:

(24, 48049), (Start: 40 @47998 has 2 MA's), (45, 47980), (55, 47953), (Start: 73 @47929 has 88 MA's), (86, 47848), (Start: 89 @47833 has 6 MA's), (95, 47782), (128, 47680), (130, 47671), (152, 47566), (155, 47548), (177, 47455), (194, 47389), (197, 47383), (201, 47371), (218, 47305), (225, 47251), (252, 47140), (255, 47119), (271, 47059), (281, 47032), (292, 47014), (321, 46897), (354, 46723), (356, 46708), (376, 46570), (395, 46477), (402, 46438), (431, 46372), (438, 46339), (441, 46315), (454, 46255), (466, 46204), (467, 46201), (468, 46195), (472, 46171), (476, 46153), (481, 46135), (494, 46090), (549, 45850), (557, 45823), (559, 45805), (561, 45799), (565, 45781), (590, 45685), (596, 45667), (601, 45643), (603, 45631), (662, 45499), (666, 45478), (669, 45472), (675, 45442), (735, 45265), (752, 45229), (769, 45178), (790, 45118), (794, 45097), (801, 45076), (850, 44902), (907, 44689), (925, 44623),

Gene: GMA6_80 Start: 61160, Stop: 64054, Start Num: 30

Candidate Starts for GMA6_80:

(17, 61112), (Start: 26 @61148 has 44 MA's), (30, 61160), (34, 61169), (Start: 36 @61172 has 1 MA's), (Start: 56 @61223 has 2 MA's), (75, 61265), (79, 61292), (84, 61319), (90, 61355), (92, 61379), (95, 61397), (105, 61442), (128, 61538), (131, 61556), (132, 61562), (133, 61565), (136, 61580), (154, 61670), (155, 61673), (163, 61709), (173, 61754), (176, 61766), (181, 61778), (183, 61784), (184,

61790), (200, 61847), (206, 61862), (207, 61865), (208, 61874), (216, 61901), (226, 61967), (229, 61976), (245, 62042), (268, 62132), (305, 62210), (317, 62234), (320, 62246), (321, 62255), (325, 62273), (330, 62291), (338, 62324), (345, 62351), (348, 62384), (371, 62552), (400, 62696), (420, 62783), (423, 62792), (429, 62825), (432, 62834), (434, 62843), (439, 62870), (440, 62885), (442, 62891), (450, 62933), (452, 62936), (459, 62960), (462, 62975), (464, 62984), (466, 62999), (468, 63008), (472, 63032), (473, 63038), (474, 63041), (480, 63068), (508, 63155), (519, 63200), (528, 63230), (532, 63248), (534, 63260), (556, 63377), (562, 63407), (571, 63443), (573, 63455), (574, 63458), (586, 63503), (588, 63512), (597, 63536), (602, 63575), (655, 63683), (658, 63692), (678, 63779), (680, 63785), (713, 63866), (744, 63947), (765, 64004), (772, 64034),

Gene: GOATification_78 Start: 51710, Stop: 55051, Start Num: 73

Candidate Starts for GOATification_78:

(47, 51662), (Start: 73 @51710 has 88 MA's), (Start: 82 @51770 has 1 MA's), (Start: 89 @51806 has 6 MA's), (93, 51851), (103, 51893), (166, 52154), (194, 52256), (205, 52289), (224, 52385), (288, 52655), (289, 52664), (316, 52772), (324, 52817), (335, 52859), (356, 52991), (357, 52994), (358, 53024), (372, 53114), (382, 53168), (404, 53267), (412, 53282), (429, 53324), (466, 53498), (472, 53531), (476, 53549), (481, 53567), (494, 53612), (495, 53615), (524, 53711), (534, 53753), (536, 53765), (541, 53801), (582, 53981), (596, 54023), (603, 54059), (643, 54113), (651, 54131), (669, 54227), (671, 54239), (739, 54434), (798, 54518), (827, 54623), (831, 54638), (840, 54674), (844, 54686), (845, 54692), (846, 54695), (855, 54722), (873, 54767), (893, 54875), (906, 54920), (912, 54944), (922, 54980),

Gene: GRU1_49 Start: 41041, Stop: 37856, Start Num: 89

Candidate Starts for GRU1_49:

(Start: 72 @41137 has 1 MA's), (86, 41056), (Start: 89 @41041 has 6 MA's), (93, 40996), (128, 40885), (130, 40876), (142, 40810), (155, 40753), (188, 40627), (197, 40588), (204, 40564), (210, 40537), (218, 40510), (225, 40456), (278, 40243), (292, 40219), (354, 39925), (356, 39910), (419, 39592), (431, 39568), (441, 39511), (454, 39451), (466, 39400), (481, 39331), (485, 39316), (540, 39097), (549, 39049), (558, 39007), (559, 39004), (561, 38998), (565, 38980), (590, 38884), (596, 38866), (603, 38830), (669, 38665), (675, 38635), (686, 38605), (732, 38518), (735, 38512), (769, 38425), (790, 38365), (801, 38323), (841, 38179), (849, 38152), (907, 37936), (916, 37900), (925, 37870), (927, 37861),

Gene: GTE5_49 Start: 42214, Stop: 38933, Start Num: 73

Candidate Starts for GTE5_49:

(Start: 70 @42220 has 57 MA's), (Start: 73 @42214 has 88 MA's), (74, 42205), (86, 42133), (Start: 89 @42118 has 6 MA's), (128, 41962), (130, 41953), (155, 41830), (197, 41665), (204, 41641), (217, 41590), (225, 41533), (252, 41422), (278, 41320), (292, 41296), (354, 41002), (356, 40987), (419, 40669), (431, 40645), (441, 40588), (466, 40477), (467, 40474), (481, 40408), (485, 40393), (540, 40174), (549, 40126), (558, 40084), (559, 40081), (561, 40075), (565, 40057), (590, 39961), (596, 39943), (603, 39907), (669, 39742), (675, 39712), (686, 39682), (732, 39595), (735, 39589), (769, 39502), (790, 39442), (801, 39400), (841, 39256), (842, 39253), (849, 39229), (907, 39013), (916, 38977), (925, 38947),

Gene: GTE8_48 Start: 42138, Stop: 38830, Start Num: 73

Candidate Starts for GTE8_48:

(1, 42387), (9, 42309), (13, 42282), (Start: 73 @42138 has 88 MA's), (86, 42057), (Start: 89 @42042 has 6 MA's), (128, 41889), (130, 41880), (155, 41757), (194, 41598), (197, 41592), (204, 41568), (225, 41460), (232, 41430), (292, 41223), (325, 41088), (343, 41010), (354, 40932), (356, 40917), (431, 40581), (441, 40524), (454, 40464), (466, 40413), (481, 40344), (505, 40278), (558, 40014), (559, 40011), (561, 40005), (565, 39987), (572, 39963), (590, 39891), (603, 39837), (665, 39693), (669, 39684), (695, 39609), (735, 39480), (769, 39396), (794, 39315), (801, 39294), (841, 39150), (842, 39147), (849, 39123), (850, 39120), (882, 39018), (925, 38841),

Gene: Gabriel_212 Start: 112010, Stop: 115405, Start Num: 68

Candidate Starts for Gabriel_212:

(Start: 26 @111917 has 44 MA's), (Start: 28 @111923 has 6 MA's), (Start: 32 @111935 has 8 MA's), (37, 111944), (Start: 68 @112010 has 162 MA's), (84, 112085), (103, 112199), (109, 112223), (127, 112283), (151, 112394), (157, 112433), (164, 112457), (173, 112499), (203, 112598), (214, 112640), (216, 112646), (219, 112658), (229, 112721), (242, 112781), (243, 112784), (250, 112811), (261, 112853), (279, 112916), (330, 113072), (335, 113090), (338, 113105), (351, 113222), (357, 113261), (372, 113381), (380, 113423), (389, 113468), (391, 113477), (402, 113528), (414, 113570), (432, 113636), (434, 113645), (435, 113648), (436, 113654), (437, 113657), (438, 113666), (439, 113672), (440, 113687), (462, 113774), (483, 113879), (495, 113933), (510, 114020), (516, 114050), (526, 114080), (533, 114113), (535, 114122), (546, 114194), (552, 114224), (577, 114341), (589, 114386), (601, 114428), (660, 114572), (675, 114632), (715, 114734), (750, 114821), (751, 114824), (761, 114842), (771, 114878), (772, 114881), (793, 114941), (798, 114959), (827, 115055), (836, 115085), (839, 115103), (846, 115133), (879, 115226), (883, 115241), (900, 115322), (902, 115328), (905, 115340),

Gene: Gamgam_210 Start: 112367, Stop: 115762, Start Num: 68

Candidate Starts for Gamgam_210:

(Start: 26 @112274 has 44 MA's), (Start: 28 @112280 has 6 MA's), (Start: 32 @112292 has 8 MA's), (37, 112301), (Start: 68 @112367 has 162 MA's), (84, 112442), (103, 112556), (109, 112580), (127, 112640), (151, 112751), (157, 112790), (164, 112814), (173, 112856), (203, 112955), (214, 112997), (216, 113003), (219, 113015), (229, 113078), (242, 113138), (243, 113141), (250, 113168), (261, 113210), (279, 113273), (321, 113393), (330, 113429), (335, 113447), (338, 113462), (351, 113579), (357, 113618), (372, 113738), (380, 113780), (389, 113825), (391, 113834), (402, 113885), (414, 113927), (432, 113993), (434, 114002), (435, 114005), (436, 114011), (437, 114014), (438, 114023), (439, 114029), (440, 114044), (462, 114131), (483, 114236), (495, 114290), (510, 114377), (516, 114407), (526, 114437), (533, 114470), (535, 114479), (546, 114551), (552, 114581), (577, 114698), (589, 114743), (601, 114785), (660, 114929), (675, 114989), (715, 115091), (750, 115178), (751, 115181), (761, 115199), (771, 115235), (772, 115238), (793, 115298), (798, 115316), (827, 115412), (836, 115442), (839, 115460), (846, 115490), (879, 115583), (883, 115598), (900, 115679), (902, 115685), (905, 115697),

Gene: Genamy16_81 Start: 50797, Stop: 54042, Start Num: 89

Candidate Starts for Genamy16_81:

(Start: 73 @50701 has 88 MA's), (Start: 82 @50761 has 1 MA's), (Start: 89 @50797 has 6 MA's), (93, 50842), (103, 50884), (166, 51145), (205, 51280), (224, 51376), (288, 51646), (289, 51655), (316, 51763), (324, 51808), (335, 51850), (348, 51928), (356, 51982), (357, 51985), (358, 52015), (372, 52105), (382, 52159), (404, 52258), (412, 52273), (429, 52315), (466, 52489), (472, 52522), (476, 52540), (481, 52558), (494, 52603), (495, 52606), (524, 52702), (534, 52744), (536, 52756), (541, 52792), (582, 52972), (596, 53014), (603, 53050), (639, 53092), (643, 53104), (651, 53122), (669, 53218), (671, 53230), (739, 53425), (798, 53509), (827, 53614), (831, 53629), (836, 53644), (840, 53665), (844, 53677), (845, 53683), (846, 53686), (855, 53713), (873, 53758), (893, 53866), (906, 53911), (912, 53935), (922, 53971),

Gene: Genie2_82 Start: 58392, Stop: 61712, Start Num: 69

Candidate Starts for Genie2_82:

(Start: 69 @58392 has 26 MA's), (85, 58464), (Start: 89 @58488 has 6 MA's), (102, 58569), (146, 58767), (189, 58947), (200, 58995), (213, 59052), (223, 59103), (225, 59121), (228, 59130), (236, 59166), (259, 59274), (262, 59283), (302, 59355), (337, 59493), (349, 59562), (372, 59727), (387, 59805), (438, 59967), (441, 59991), (462, 60090), (478, 60174), (502, 60246), (546, 60450), (559, 60504), (562, 60513), (566, 60531), (568, 60537), (598, 60651), (608, 60729), (619, 60753), (622, 60780), (678, 61032), (679, 61035), (686, 61053), (693, 61065), (722, 61155), (740, 61215), (759,

61257), (771, 61296), (773, 61302), (783, 61329), (791, 61368), (806, 61416), (809, 61425), (830, 61497), (833, 61509), (836, 61518), (841, 61545), (842, 61548), (847, 61563), (858, 61596), (876, 61650), (882, 61665),

Gene: Ghost_209 Start: 112201, Stop: 115683, Start Num: 28

Candidate Starts for Ghost_209:

(Start: 26 @112195 has 44 MA's), (Start: 28 @112201 has 6 MA's), (Start: 32 @112213 has 8 MA's), (37, 112222), (Start: 68 @112288 has 162 MA's), (84, 112363), (103, 112477), (109, 112501), (127, 112561), (151, 112672), (157, 112711), (164, 112735), (173, 112777), (203, 112876), (214, 112918), (216, 112924), (219, 112936), (229, 112999), (242, 113059), (243, 113062), (250, 113089), (261, 113131), (279, 113194), (321, 113314), (330, 113350), (335, 113368), (338, 113383), (351, 113500), (357, 113539), (372, 113659), (380, 113701), (389, 113746), (391, 113755), (402, 113806), (414, 113848), (432, 113914), (434, 113923), (435, 113926), (436, 113932), (437, 113935), (438, 113944), (439, 113950), (440, 113965), (462, 114052), (483, 114157), (495, 114211), (510, 114298), (516, 114328), (526, 114358), (533, 114391), (535, 114400), (546, 114472), (552, 114502), (577, 114619), (589, 114664), (601, 114706), (660, 114850), (675, 114910), (715, 115012), (750, 115099), (751, 115102), (761, 115120), (771, 115156), (772, 115159), (793, 115219), (798, 115237), (827, 115333), (836, 115363), (839, 115381), (846, 115411), (879, 115504), (883, 115519), (900, 115600), (902, 115606), (905, 115618),

Gene: Gibbi_86 Start: 58555, Stop: 61875, Start Num: 69

Candidate Starts for Gibbi_86:

(Start: 69 @58555 has 26 MA's), (80, 58606), (85, 58627), (Start: 89 @58651 has 6 MA's), (102, 58732), (146, 58930), (189, 59110), (200, 59158), (202, 59161), (213, 59215), (223, 59266), (225, 59284), (228, 59293), (236, 59329), (259, 59437), (262, 59446), (337, 59656), (349, 59725), (372, 59890), (387, 59968), (412, 60037), (438, 60130), (462, 60253), (478, 60337), (499, 60400), (502, 60409), (546, 60613), (559, 60667), (562, 60676), (566, 60694), (568, 60700), (608, 60892), (619, 60916), (622, 60943), (648, 61051), (696, 61240), (722, 61318), (732, 61360), (740, 61378), (759, 61420), (771, 61459), (773, 61465), (783, 61492), (791, 61531), (806, 61579), (830, 61660), (836, 61681), (841, 61708), (842, 61711), (847, 61726), (858, 61759), (882, 61828),

Gene: Gibbin_81 Start: 52515, Stop: 55856, Start Num: 73

Candidate Starts for Gibbin_81:

(47, 52467), (Start: 73 @52515 has 88 MA's), (Start: 82 @52575 has 1 MA's), (Start: 89 @52611 has 6 MA's), (93, 52656), (103, 52698), (166, 52959), (194, 53061), (205, 53094), (224, 53190), (288, 53460), (289, 53469), (316, 53577), (324, 53622), (335, 53664), (356, 53796), (357, 53799), (358, 53829), (361, 53850), (372, 53919), (382, 53973), (404, 54072), (412, 54087), (429, 54129), (466, 54303), (472, 54336), (476, 54354), (481, 54372), (494, 54417), (495, 54420), (524, 54516), (534, 54558), (536, 54570), (541, 54606), (582, 54786), (596, 54828), (603, 54864), (643, 54918), (651, 54936), (669, 55032), (671, 55044), (739, 55239), (798, 55323), (822, 55404), (827, 55428), (831, 55443), (840, 55479), (844, 55491), (845, 55497), (846, 55500), (855, 55527), (873, 55572), (893, 55680), (906, 55725), (912, 55749), (922, 55785),

Gene: Gibson_51 Start: 39054, Stop: 35857, Start Num: 73

Candidate Starts for Gibson_51:

(62, 39075), (Start: 73 @39054 has 88 MA's), (79, 39012), (Start: 89 @38958 has 6 MA's), (96, 38904), (114, 38835), (116, 38826), (118, 38817), (124, 38787), (130, 38754), (137, 38718), (144, 38676), (148, 38664), (159, 38610), (187, 38541), (193, 38502), (206, 38460), (210, 38439), (224, 38367), (233, 38325), (246, 38262), (247, 38259), (270, 38169), (273, 38154), (277, 38145), (293, 38103), (298, 38088), (303, 38073), (328, 37977), (335, 37947), (349, 37866), (351, 37854), (354, 37830), (356, 37815), (357, 37812), (368, 37719), (381, 37647), (383, 37629), (393, 37587), (409, 37530), (417, 37503), (440, 37422), (442, 37416), (447, 37389), (459, 37338), (467, 37296), (472, 37266), (473, 37260), (481, 37230), (485, 37215), (489, 37200), (506, 37158), (507, 37155), (513,

37119), (519, 37104), (542, 36990), (637, 36711), (639, 36699), (643, 36687), (651, 36669), (667, 36576), (699, 36471), (790, 36360), (795, 36336), (827, 36219), (853, 36126), (881, 36048), (884, 36036), (887, 36015), (898, 35967), (907, 35931), (916, 35895), (920, 35880),

Gene: Gilson_61 Start: 48597, Stop: 51887, Start Num: 70

Candidate Starts for Gilson_61:

(Start: 70 @48597 has 57 MA's), (75, 48612), (76, 48618), (85, 48669), (Start: 89 @48693 has 6 MA's), (129, 48882), (146, 48972), (159, 49032), (189, 49152), (213, 49257), (225, 49320), (227, 49326), (236, 49365), (323, 49638), (337, 49692), (345, 49722), (349, 49761), (356, 49809), (431, 50109), (439, 50148), (460, 50253), (461, 50259), (462, 50265), (468, 50298), (471, 50313), (474, 50331), (477, 50343), (478, 50349), (487, 50382), (499, 50412), (502, 50421), (516, 50487), (517, 50493), (521, 50502), (534, 50556), (546, 50628), (559, 50682), (562, 50691), (566, 50709), (568, 50715), (598, 50829), (606, 50895), (608, 50907), (626, 50967), (627, 50970), (640, 51033), (641, 51039), (644, 51045), (665, 51150), (678, 51198), (679, 51201), (706, 51270), (725, 51339), (727, 51348), (758, 51417), (759, 51423), (764, 51435), (773, 51468), (775, 51471), (791, 51534), (793, 51543), (800, 51564), (804, 51576), (818, 51618), (842, 51714), (852, 51750), (857, 51759), (864, 51777), (891, 51873),

Gene: Giuseppe_68 Start: 49677, Stop: 52979, Start Num: 29

Candidate Starts for Giuseppe_68:

(Start: 29 @49677 has 19 MA's), (Start: 64 @49764 has 1 MA's), (Start: 67 @49770 has 1 MA's), (Start: 73 @49779 has 88 MA's), (Start: 89 @49875 has 6 MA's), (130, 50031), (148, 50118), (149, 50121), (159, 50172), (224, 50436), (232, 50475), (249, 50547), (252, 50556), (270, 50631), (292, 50697), (294, 50703), (309, 50757), (316, 50775), (325, 50826), (326, 50829), (334, 50859), (349, 50943), (350, 50952), (354, 50979), (356, 50994), (382, 51171), (383, 51180), (412, 51285), (438, 51366), (448, 51426), (466, 51501), (472, 51534), (473, 51540), (478, 51561), (481, 51570), (494, 51615), (514, 51684), (520, 51699), (536, 51768), (547, 51831), (556, 51864), (557, 51867), (568, 51918), (584, 51993), (643, 52116), (651, 52134), (668, 52212), (669, 52215), (671, 52227), (685, 52272), (695, 52293), (699, 52305), (711, 52335), (717, 52356), (777, 52428), (798, 52485), (826, 52584), (844, 52650), (875, 52740), (881, 52770), (882, 52773), (887, 52803), (896, 52848), (907, 52890), (914, 52920), (918, 52932), (922, 52947), (925, 52956),

Gene: Gizmo_215 Start: 115313, Stop: 118801, Start Num: 26

Candidate Starts for Gizmo_215:

(Start: 26 @115313 has 44 MA's), (Start: 28 @115319 has 6 MA's), (Start: 32 @115331 has 8 MA's), (37, 115340), (Start: 68 @115406 has 162 MA's), (84, 115481), (103, 115595), (109, 115619), (127, 115679), (151, 115790), (157, 115829), (164, 115853), (173, 115895), (203, 115994), (214, 116036), (216, 116042), (219, 116054), (229, 116117), (242, 116177), (243, 116180), (250, 116207), (261, 116249), (279, 116312), (330, 116468), (335, 116486), (338, 116501), (351, 116618), (357, 116657), (372, 116777), (380, 116819), (389, 116864), (391, 116873), (402, 116924), (414, 116966), (432, 117032), (434, 117041), (435, 117044), (436, 117050), (437, 117053), (438, 117062), (439, 117068), (440, 117083), (462, 117170), (483, 117275), (495, 117329), (510, 117416), (516, 117446), (526, 117476), (533, 117509), (535, 117518), (546, 117590), (552, 117620), (577, 117737), (589, 117782), (601, 117824), (660, 117968), (675, 118028), (715, 118130), (750, 118217), (751, 118220), (761, 118238), (771, 118274), (772, 118277), (793, 118337), (798, 118355), (827, 118451), (836, 118481), (839, 118499), (846, 118529), (879, 118622), (883, 118637), (900, 118718), (902, 118724), (905, 118736),

Gene: Goby_55 Start: 41781, Stop: 38299, Start Num: 68

Candidate Starts for Goby_55:

(Start: 68 @41781 has 162 MA's), (74, 41766), (75, 41760), (Start: 82 @41715 has 1 MA's), (84, 41706), (91, 41664), (107, 41571), (123, 41502), (135, 41433), (144, 41379), (161, 41307), (168, 41271), (188, 41211), (218, 41133), (247, 40986), (257, 40947), (266, 40920), (269, 40902), (276,

40881), (283, 40866), (325, 40746), (329, 40734), (358, 40548), (359, 40542), (366, 40497), (381, 40413), (383, 40395), (398, 40338), (399, 40335), (401, 40323), (438, 40185), (439, 40179), (440, 40164), (442, 40158), (449, 40125), (468, 40047), (474, 40014), (512, 39873), (534, 39792), (535, 39786), (546, 39717), (558, 39654), (564, 39633), (574, 39588), (583, 39549), (601, 39492), (602, 39483), (655, 39375), (661, 39354), (663, 39333), (673, 39303), (678, 39276), (709, 39210), (711, 39201), (714, 39189), (747, 39102), (756, 39078), (796, 38934), (812, 38886), (835, 38802), (840, 38775), (880, 38637), (883, 38628), (887, 38601), (899, 38553), (900, 38547), (906, 38526), (908, 38520), (931, 38415), (933, 38388), (934, 38376), (943, 38313),

Gene: Godpower_56 Start: 41758, Stop: 38279, Start Num: 68

Candidate Starts for Godpower_56:

(Start: 36 @41827 has 1 MA's), (Start: 68 @41758 has 162 MA's), (Start: 82 @41695 has 1 MA's), (84, 41686), (91, 41644), (107, 41551), (123, 41482), (135, 41413), (144, 41359), (161, 41287), (168, 41251), (188, 41191), (218, 41113), (247, 40966), (257, 40927), (266, 40900), (269, 40882), (276, 40861), (283, 40846), (325, 40726), (329, 40714), (358, 40528), (359, 40522), (366, 40477), (381, 40393), (383, 40375), (398, 40318), (399, 40315), (401, 40303), (438, 40165), (439, 40159), (440, 40144), (442, 40138), (449, 40105), (468, 40027), (474, 39994), (512, 39853), (534, 39772), (535, 39766), (546, 39697), (558, 39634), (564, 39613), (574, 39568), (583, 39529), (601, 39472), (602, 39463), (655, 39355), (661, 39334), (663, 39313), (673, 39283), (678, 39256), (709, 39190), (711, 39181), (714, 39169), (747, 39082), (756, 39058), (812, 38866), (835, 38782), (840, 38755), (880, 38617), (883, 38608), (887, 38581), (899, 38533), (900, 38527), (906, 38506), (908, 38500), (931, 38395), (934, 38356), (936, 38350), (943, 38293),

Gene: Grasshills_217 Start: 115911, Stop: 119381, Start Num: 32

Candidate Starts for Grasshills_217:

(11, 115818), (Start: 26 @115893 has 44 MA's), (Start: 28 @115899 has 6 MA's), (Start: 32 @115911 has 8 MA's), (37, 115920), (Start: 68 @115986 has 162 MA's), (84, 116061), (103, 116175), (109, 116199), (127, 116259), (151, 116370), (157, 116409), (164, 116433), (173, 116475), (203, 116574), (214, 116616), (216, 116622), (219, 116634), (229, 116697), (242, 116757), (243, 116760), (250, 116787), (261, 116829), (279, 116892), (330, 117048), (335, 117066), (338, 117081), (351, 117198), (357, 117237), (372, 117357), (380, 117399), (389, 117444), (391, 117453), (402, 117504), (414, 117546), (432, 117612), (434, 117621), (435, 117624), (436, 117630), (437, 117633), (438, 117642), (439, 117648), (440, 117663), (462, 117750), (483, 117855), (495, 117909), (510, 117996), (516, 118026), (526, 118056), (533, 118089), (535, 118098), (546, 118170), (552, 118200), (577, 118317), (589, 118362), (601, 118404), (660, 118548), (675, 118608), (715, 118710), (750, 118797), (751, 118800), (761, 118818), (771, 118854), (772, 118857), (793, 118917), (798, 118935), (827, 119031), (836, 119061), (839, 119079), (846, 119109), (879, 119202), (883, 119217), (900, 119298), (902, 119304), (905, 119316),

Gene: Gray_98 Start: 70297, Stop: 73110, Start Num: 58

Candidate Starts for Gray_98:

(Start: 49 @70282 has 1 MA's), (Start: 56 @70294 has 2 MA's), (Start: 58 @70297 has 5 MA's), (84, 70390), (92, 70450), (125, 70600), (126, 70603), (128, 70609), (136, 70651), (147, 70708), (153, 70738), (154, 70741), (167, 70804), (173, 70825), (174, 70828), (183, 70855), (216, 70972), (218, 70981), (226, 71038), (229, 71047), (262, 71179), (325, 71344), (330, 71362), (334, 71377), (336, 71383), (338, 71395), (345, 71422), (346, 71425), (353, 71485), (354, 71494), (355, 71497), (357, 71509), (360, 71554), (371, 71623), (374, 71647), (407, 71803), (413, 71821), (416, 71845), (423, 71863), (442, 71959), (450, 72001), (453, 72007), (462, 72043), (464, 72052), (467, 72070), (468, 72076), (472, 72100), (473, 72106), (474, 72109), (478, 72127), (479, 72130), (508, 72223), (519, 72268), (522, 72274), (528, 72298), (529, 72301), (531, 72310), (532, 72316), (534, 72328), (556, 72445), (558, 72463), (559, 72466), (562, 72475), (592, 72589), (597, 72604), (655, 72751), (659, 72763), (661, 72769), (669, 72802), (676, 72835), (680, 72853), (685, 72865), (689, 72874), (732, 72988), (737, 73000), (744, 73015), (768, 73090), (771, 73099),

Gene: Grayson_103 Start: 62973, Stop: 65801, Start Num: 264

Candidate Starts for Grayson_103:

(251, 62925), (258, 62955), (260, 62961), (Start: 264 @62973 has 3 MA's), (302, 63051), (310, 63078), (348, 63255), (351, 63270), (383, 63492), (384, 63495), (392, 63528), (472, 63816), (474, 63825), (478, 63843), (484, 63867), (502, 63915), (517, 63987), (526, 64011), (559, 64173), (609, 64398), (632, 64473), (775, 64998), (789, 65046), (811, 65130), (815, 65145), (828, 65196), (837, 65232), (861, 65307), (870, 65328), (915, 65523), (917, 65529), (929, 65577), (935, 65637), (937, 65646), (944, 65700), (946, 65706), (953, 65778),

Gene: Greely_198 Start: 110173, Stop: 113589, Start Num: 63

Candidate Starts for Greely_198:

(Start: 63 @110173 has 3 MA's), (95, 110335), (110, 110398), (150, 110563), (173, 110671), (206, 110791), (214, 110824), (216, 110830), (226, 110896), (229, 110905), (242, 110962), (243, 110965), (248, 110983), (250, 110992), (266, 111049), (270, 111070), (279, 111094), (303, 111139), (335, 111268), (338, 111283), (368, 111532), (372, 111559), (391, 111655), (409, 111721), (425, 111778), (434, 111823), (435, 111826), (439, 111850), (442, 111871), (462, 111955), (464, 111964), (468, 111988), (497, 112123), (530, 112270), (533, 112291), (535, 112300), (538, 112324), (544, 112369), (552, 112396), (559, 112426), (579, 112513), (603, 112615), (639, 112657), (643, 112669), (647, 112678), (661, 112738), (666, 112780), (675, 112816), (682, 112843), (714, 112915), (751, 113008), (772, 113065), (785, 113098), (822, 113221), (836, 113272), (839, 113290), (848, 113326), (860, 113356), (868, 113374), (878, 113410), (883, 113425), (895, 113491), (897, 113494), (902, 113512), (905, 113524), (921, 113581),

Gene: Gretellyn_79 Start: 52344, Stop: 55685, Start Num: 73

Candidate Starts for Gretellyn_79:

(47, 52296), (Start: 73 @52344 has 88 MA's), (Start: 82 @52404 has 1 MA's), (Start: 89 @52440 has 6 MA's), (93, 52485), (103, 52527), (166, 52788), (194, 52890), (205, 52923), (224, 53019), (288, 53289), (289, 53298), (316, 53406), (324, 53451), (335, 53493), (356, 53625), (357, 53628), (358, 53658), (361, 53679), (372, 53748), (382, 53802), (404, 53901), (412, 53916), (429, 53958), (466, 54132), (472, 54165), (476, 54183), (481, 54201), (494, 54246), (495, 54249), (524, 54345), (534, 54387), (536, 54399), (541, 54435), (582, 54615), (596, 54657), (603, 54693), (643, 54747), (651, 54765), (669, 54861), (671, 54873), (739, 55068), (798, 55152), (822, 55233), (827, 55257), (831, 55272), (840, 55308), (844, 55320), (845, 55326), (846, 55329), (855, 55356), (873, 55401), (893, 55509), (906, 55554), (912, 55578), (922, 55614),

Gene: GrootJr_62 Start: 48486, Stop: 45175, Start Num: 73

Candidate Starts for GrootJr_62:

(4, 48729), (Start: 73 @48486 has 88 MA's), (85, 48414), (Start: 89 @48390 has 6 MA's), (93, 48345), (128, 48237), (130, 48228), (155, 48105), (194, 47946), (197, 47940), (204, 47916), (225, 47808), (232, 47778), (248, 47709), (292, 47571), (296, 47553), (335, 47400), (343, 47358), (354, 47280), (356, 47265), (376, 47127), (431, 46929), (440, 46875), (441, 46872), (454, 46812), (466, 46761), (481, 46692), (494, 46647), (549, 46407), (558, 46365), (559, 46362), (561, 46356), (565, 46338), (590, 46242), (603, 46188), (665, 46044), (669, 46035), (695, 45960), (718, 45885), (735, 45831), (753, 45789), (769, 45741), (794, 45660), (801, 45639), (827, 45549), (836, 45519), (841, 45495), (842, 45492), (892, 45309), (907, 45252),

Gene: Grungle_193 Start: 110325, Stop: 113720, Start Num: 68

Candidate Starts for Grungle_193:

(Start: 18 @110202 has 4 MA's), (Start: 26 @110232 has 44 MA's), (Start: 28 @110238 has 6 MA's), (Start: 32 @110250 has 8 MA's), (37, 110259), (Start: 68 @110325 has 162 MA's), (84, 110400), (103, 110514), (109, 110538), (127, 110598), (151, 110709), (157, 110748), (164, 110772), (173, 110814), (203, 110913), (214, 110955), (216, 110961), (219, 110973), (229, 111036), (242, 111096), (243,

111099), (250, 111126), (261, 111168), (279, 111231), (321, 111351), (330, 111387), (335, 111405), (338, 111420), (351, 111537), (357, 111576), (372, 111696), (380, 111738), (389, 111783), (391, 111792), (402, 111843), (414, 111885), (432, 111951), (434, 111960), (435, 111963), (436, 111969), (437, 111972), (438, 111981), (439, 111987), (440, 112002), (462, 112089), (483, 112194), (495, 112248), (510, 112335), (516, 112365), (526, 112395), (533, 112428), (535, 112437), (546, 112509), (552, 112539), (577, 112656), (581, 112674), (589, 112701), (601, 112743), (660, 112887), (675, 112947), (715, 113049), (750, 113136), (751, 113139), (761, 113157), (771, 113193), (772, 113196), (793, 113256), (798, 113274), (827, 113370), (836, 113400), (839, 113418), (846, 113448), (879, 113541), (883, 113556), (900, 113637), (902, 113643), (905, 113655),

Gene: Gumball_66 Start: 50219, Stop: 53521, Start Num: 29

Candidate Starts for Gumball_66:

(Start: 29 @50219 has 19 MA's), (Start: 64 @50306 has 1 MA's), (Start: 67 @50312 has 1 MA's), (Start: 73 @50321 has 88 MA's), (Start: 89 @50417 has 6 MA's), (130, 50573), (148, 50660), (149, 50663), (159, 50714), (224, 50978), (232, 51017), (249, 51089), (252, 51098), (270, 51173), (292, 51239), (294, 51245), (309, 51299), (316, 51317), (325, 51368), (326, 51371), (334, 51401), (349, 51485), (350, 51494), (354, 51521), (356, 51536), (382, 51713), (383, 51722), (412, 51827), (438, 51908), (448, 51968), (466, 52043), (472, 52076), (473, 52082), (478, 52103), (481, 52112), (494, 52157), (514, 52226), (520, 52241), (536, 52310), (556, 52406), (557, 52409), (568, 52460), (584, 52535), (643, 52658), (651, 52676), (668, 52754), (669, 52757), (671, 52769), (685, 52814), (695, 52835), (699, 52847), (711, 52877), (717, 52898), (777, 52970), (798, 53027), (826, 53126), (844, 53192), (875, 53282), (881, 53312), (882, 53315), (887, 53345), (896, 53390), (907, 53432), (914, 53462), (918, 53474), (922, 53489), (925, 53498),

Gene: Guwapp_204 Start: 111029, Stop: 114517, Start Num: 26

Candidate Starts for Guwapp_204:

(Start: 26 @111029 has 44 MA's), (Start: 28 @111035 has 6 MA's), (Start: 32 @111047 has 8 MA's), (37, 111056), (Start: 68 @111122 has 162 MA's), (84, 111197), (103, 111311), (109, 111335), (127, 111395), (151, 111506), (157, 111545), (164, 111569), (173, 111611), (203, 111710), (214, 111752), (216, 111758), (219, 111770), (229, 111833), (242, 111893), (243, 111896), (250, 111923), (261, 111965), (279, 112028), (330, 112184), (335, 112202), (338, 112217), (351, 112334), (357, 112373), (372, 112493), (380, 112535), (389, 112580), (391, 112589), (402, 112640), (414, 112682), (432, 112748), (434, 112757), (435, 112760), (436, 112766), (437, 112769), (438, 112778), (439, 112784), (440, 112799), (462, 112886), (483, 112991), (495, 113045), (510, 113132), (516, 113162), (526, 113192), (533, 113225), (535, 113234), (546, 113306), (552, 113336), (577, 113453), (589, 113498), (601, 113540), (660, 113684), (675, 113744), (715, 113846), (750, 113933), (751, 113936), (761, 113954), (771, 113990), (772, 113993), (793, 114053), (798, 114071), (827, 114167), (836, 114197), (839, 114215), (846, 114245), (879, 114338), (883, 114353), (900, 114434), (902, 114440), (905, 114452),

Gene: GuyFagieri_58 Start: 45944, Stop: 42528, Start Num: 73

Candidate Starts for GuyFagieri_58:

(Start: 73 @45944 has 88 MA's), (86, 45863), (Start: 89 @45848 has 6 MA's), (107, 45740), (110, 45734), (130, 45686), (155, 45563), (209, 45353), (212, 45338), (216, 45329), (221, 45305), (224, 45275), (232, 45236), (306, 44942), (338, 44810), (339, 44807), (340, 44792), (343, 44783), (354, 44705), (356, 44690), (359, 44651), (366, 44612), (382, 44519), (393, 44468), (395, 44462), (402, 44423), (439, 44318), (440, 44303), (441, 44300), (466, 44186), (467, 44183), (472, 44153), (476, 44135), (477, 44132), (478, 44126), (479, 44123), (488, 44090), (494, 44069), (536, 43901), (547, 43835), (550, 43823), (559, 43781), (561, 43775), (565, 43757), (590, 43661), (596, 43643), (603, 43607), (639, 43565), (651, 43535), (656, 43499), (669, 43442), (671, 43430), (688, 43367), (707, 43310), (726, 43241), (742, 43193), (746, 43184), (754, 43157), (756, 43154), (775, 43094), (814, 42947), (837, 42866), (841, 42851), (842, 42848), (853, 42809), (884, 42710), (885, 42701), (887, 42689), (889, 42683), (891, 42677), (892, 42665), (904, 42614), (905, 42611), (916, 42569),

Gene: Halldule_202 Start: 111507, Stop: 114902, Start Num: 68

Candidate Starts for Halldule_202:

(Start: 18 @111384 has 4 MA's), (Start: 26 @111414 has 44 MA's), (Start: 28 @111420 has 6 MA's), (Start: 32 @111432 has 8 MA's), (37, 111441), (Start: 68 @111507 has 162 MA's), (84, 111582), (103, 111696), (109, 111720), (127, 111780), (151, 111891), (157, 111930), (164, 111954), (173, 111996), (203, 112095), (214, 112137), (216, 112143), (219, 112155), (229, 112218), (242, 112278), (243, 112281), (250, 112308), (261, 112350), (279, 112413), (321, 112533), (330, 112569), (335, 112587), (338, 112602), (351, 112719), (357, 112758), (372, 112878), (380, 112920), (389, 112965), (391, 112974), (402, 113025), (414, 113067), (432, 113133), (434, 113142), (435, 113145), (436, 113151), (437, 113154), (438, 113163), (439, 113169), (440, 113184), (462, 113271), (483, 113376), (495, 113430), (510, 113517), (516, 113547), (526, 113577), (533, 113610), (535, 113619), (546, 113691), (552, 113721), (577, 113838), (589, 113883), (601, 113925), (660, 114069), (675, 114129), (715, 114231), (750, 114318), (751, 114321), (761, 114339), (771, 114375), (772, 114378), (793, 114438), (798, 114456), (827, 114552), (836, 114582), (839, 114600), (846, 114630), (879, 114723), (883, 114738), (900, 114819), (902, 114825), (905, 114837),

Gene: Hanem_97 Start: 70036, Stop: 72849, Start Num: 58

Candidate Starts for Hanem_97:

(Start: 49 @70021 has 1 MA's), (Start: 56 @70033 has 2 MA's), (Start: 58 @70036 has 5 MA's), (84, 70129), (92, 70189), (125, 70339), (126, 70342), (128, 70348), (147, 70447), (153, 70477), (154, 70480), (167, 70543), (173, 70564), (174, 70567), (183, 70594), (216, 70711), (218, 70720), (226, 70777), (229, 70786), (245, 70852), (262, 70918), (325, 71083), (330, 71101), (334, 71116), (336, 71122), (338, 71134), (345, 71161), (346, 71164), (353, 71224), (354, 71233), (355, 71236), (357, 71248), (360, 71293), (371, 71362), (374, 71386), (407, 71542), (413, 71560), (416, 71584), (423, 71602), (442, 71698), (450, 71740), (453, 71746), (462, 71782), (464, 71791), (467, 71809), (468, 71815), (472, 71839), (473, 71845), (474, 71848), (478, 71866), (479, 71869), (508, 71962), (519, 72007), (522, 72013), (528, 72037), (529, 72040), (531, 72049), (532, 72055), (534, 72067), (556, 72184), (558, 72202), (559, 72205), (562, 72214), (592, 72328), (597, 72343), (655, 72490), (659, 72502), (661, 72508), (669, 72541), (676, 72574), (680, 72592), (685, 72604), (689, 72613), (732, 72727), (737, 72739), (744, 72754), (768, 72829), (771, 72838),

Gene: HangryHippo_82 Start: 59162, Stop: 62446, Start Num: 70

Candidate Starts for HangryHippo_82:

(Start: 70 @59162 has 57 MA's), (79, 59207), (85, 59237), (88, 59255), (Start: 89 @59261 has 6 MA's), (146, 59540), (168, 59642), (189, 59720), (213, 59825), (225, 59888), (227, 59894), (236, 59933), (262, 60050), (304, 60134), (337, 60260), (345, 60290), (349, 60329), (350, 60338), (380, 60536), (439, 60716), (460, 60821), (461, 60827), (462, 60833), (478, 60917), (486, 60947), (502, 60989), (508, 61016), (514, 61049), (517, 61061), (534, 61124), (546, 61196), (559, 61250), (562, 61259), (564, 61268), (566, 61277), (568, 61283), (622, 61526), (638, 61595), (641, 61607), (664, 61712), (725, 61907), (736, 61940), (759, 61991), (771, 62030), (773, 62036), (791, 62102), (806, 62150), (818, 62186), (830, 62231), (832, 62240), (842, 62282), (857, 62327), (858, 62330), (864, 62345),

Gene: Hawkeye_75 Start: 50526, Stop: 53972, Start Num: 29

Candidate Starts for Hawkeye_75:

(Start: 29 @50526 has 19 MA's), (41, 50559), (52, 50589), (Start: 73 @50625 has 88 MA's), (74, 50634), (85, 50697), (Start: 89 @50721 has 6 MA's), (90, 50730), (106, 50823), (128, 50868), (130, 50877), (144, 50952), (149, 50967), (164, 51033), (224, 51282), (232, 51321), (282, 51513), (316, 51621), (325, 51672), (326, 51675), (335, 51708), (354, 51825), (356, 51840), (412, 52131), (438, 52212), (448, 52272), (466, 52347), (472, 52380), (473, 52386), (481, 52416), (520, 52545), (531, 52584), (536, 52614), (556, 52710), (557, 52713), (558, 52728), (568, 52764), (584, 52839), (643, 52962), (645, 52965), (651, 52980), (668, 53058), (669, 53061), (671, 53073), (743, 53280), (744,

53283), (769, 53364), (798, 53478), (817, 53541), (827, 53583), (844, 53643), (875, 53733), (882, 53766), (887, 53796), (896, 53841), (904, 53874), (905, 53877), (918, 53925), (930, 53967),

Gene: Helpful_70 Start: 50059, Stop: 53361, Start Num: 29

Candidate Starts for Helpful_70:

(Start: 29 @50059 has 19 MA's), (Start: 64 @50146 has 1 MA's), (Start: 67 @50152 has 1 MA's), (Start: 73 @50161 has 88 MA's), (Start: 89 @50257 has 6 MA's), (130, 50413), (148, 50500), (149, 50503), (159, 50554), (224, 50818), (232, 50857), (249, 50929), (252, 50938), (270, 51013), (292, 51079), (294, 51085), (309, 51139), (316, 51157), (325, 51208), (326, 51211), (334, 51241), (349, 51325), (350, 51334), (354, 51361), (356, 51376), (382, 51553), (383, 51562), (387, 51577), (412, 51667), (438, 51748), (448, 51808), (466, 51883), (472, 51916), (473, 51922), (478, 51943), (481, 51952), (494, 51997), (514, 52066), (520, 52081), (536, 52150), (547, 52213), (556, 52246), (557, 52249), (568, 52300), (584, 52375), (643, 52498), (651, 52516), (668, 52594), (669, 52597), (671, 52609), (685, 52654), (695, 52675), (699, 52687), (711, 52717), (717, 52738), (777, 52810), (798, 52867), (826, 52966), (844, 53032), (875, 53122), (881, 53152), (882, 53155), (887, 53185), (896, 53230), (907, 53272), (914, 53302), (918, 53314), (922, 53329), (925, 53338),

Gene: Hippo_54 Start: 42468, Stop: 38983, Start Num: 68

Candidate Starts for Hippo_54:

(Start: 36 @42537 has 1 MA's), (Start: 68 @42468 has 162 MA's), (Start: 82 @42405 has 1 MA's), (84, 42396), (91, 42354), (107, 42261), (123, 42192), (135, 42123), (144, 42069), (161, 41997), (168, 41961), (188, 41901), (247, 41676), (257, 41637), (266, 41610), (269, 41592), (276, 41571), (283, 41556), (304, 41514), (325, 41436), (329, 41424), (358, 41238), (359, 41232), (366, 41187), (381, 41103), (383, 41085), (398, 41028), (399, 41025), (401, 41013), (438, 40875), (439, 40869), (440, 40854), (442, 40848), (449, 40815), (468, 40737), (474, 40704), (482, 40668), (512, 40563), (534, 40482), (535, 40476), (546, 40407), (558, 40344), (564, 40323), (574, 40278), (601, 40182), (602, 40173), (604, 40167), (655, 40065), (657, 40056), (661, 40044), (663, 40023), (673, 39993), (678, 39966), (709, 39900), (711, 39891), (714, 39879), (747, 39792), (796, 39624), (812, 39576), (840, 39465), (880, 39327), (883, 39318), (887, 39291), (899, 39243), (908, 39210), (914, 39183), (933, 39078), (934, 39066),

Gene: HubbaBubba_55 Start: 44123, Stop: 40872, Start Num: 73

Candidate Starts for HubbaBubba_55:

(5, 44351), (Start: 73 @44123 has 88 MA's), (86, 44042), (Start: 89 @44027 has 6 MA's), (93, 43982), (128, 43874), (130, 43865), (165, 43700), (197, 43577), (210, 43526), (218, 43499), (225, 43445), (226, 43442), (232, 43415), (278, 43232), (292, 43208), (320, 43100), (338, 43022), (343, 42995), (354, 42917), (356, 42902), (376, 42764), (431, 42566), (433, 42560), (438, 42533), (466, 42398), (472, 42365), (481, 42329), (494, 42284), (502, 42272), (515, 42209), (549, 42044), (550, 42041), (558, 42002), (559, 41999), (561, 41993), (563, 41984), (565, 41975), (590, 41879), (596, 41861), (603, 41825), (682, 41621), (735, 41525), (769, 41441), (772, 41432), (814, 41291), (841, 41195), (842, 41192), (892, 41009),

Gene: HyRo_197 Start: 112631, Stop: 116026, Start Num: 68

Candidate Starts for HyRo_197:

(Start: 26 @112538 has 44 MA's), (Start: 28 @112544 has 6 MA's), (Start: 32 @112556 has 8 MA's), (37, 112565), (Start: 68 @112631 has 162 MA's), (84, 112706), (103, 112820), (109, 112844), (127, 112904), (144, 112997), (151, 113015), (157, 113054), (164, 113078), (173, 113120), (203, 113219), (214, 113261), (216, 113267), (219, 113279), (229, 113342), (242, 113402), (243, 113405), (250, 113432), (261, 113474), (279, 113537), (330, 113693), (335, 113711), (338, 113726), (351, 113843), (357, 113882), (372, 114002), (380, 114044), (389, 114089), (391, 114098), (402, 114149), (414, 114191), (432, 114257), (434, 114266), (435, 114269), (436, 114275), (437, 114278), (438, 114287), (439, 114293), (440, 114308), (462, 114395), (483, 114500), (495, 114554), (510, 114641), (516, 114671), (526, 114701), (533, 114734), (535, 114743), (546, 114815), (552, 114845), (577, 114962),

(589, 115007), (601, 115049), (660, 115193), (675, 115253), (715, 115355), (750, 115442), (751, 115445), (761, 115463), (771, 115499), (772, 115502), (793, 115562), (798, 115580), (827, 115676), (836, 115706), (839, 115724), (846, 115754), (879, 115847), (883, 115862), (900, 115943), (902, 115949), (905, 115961),

Gene: Hydra_54 Start: 40888, Stop: 37409, Start Num: 68

Candidate Starts for Hydra_54:

(Start: 36 @40957 has 1 MA's), (Start: 68 @40888 has 162 MA's), (84, 40816), (Start: 89 @40789 has 6 MA's), (91, 40774), (104, 40699), (123, 40612), (126, 40585), (128, 40579), (144, 40489), (150, 40474), (160, 40420), (161, 40417), (188, 40321), (218, 40243), (247, 40096), (257, 40057), (269, 40012), (276, 39991), (283, 39976), (304, 39934), (308, 39922), (325, 39856), (329, 39844), (343, 39781), (359, 39652), (360, 39643), (366, 39607), (381, 39523), (383, 39505), (398, 39448), (399, 39445), (401, 39433), (438, 39295), (439, 39289), (440, 39274), (442, 39268), (449, 39235), (468, 39157), (474, 39124), (512, 38983), (530, 38926), (534, 38902), (535, 38896), (546, 38827), (558, 38764), (574, 38698), (578, 38677), (583, 38659), (601, 38602), (602, 38593), (655, 38485), (657, 38476), (661, 38464), (663, 38443), (673, 38413), (678, 38386), (709, 38320), (711, 38311), (714, 38299), (747, 38212), (756, 38188), (772, 38140), (812, 37996), (832, 37921), (880, 37747), (887, 37711), (899, 37663), (908, 37630),

Gene: I3_219 Start: 115274, Stop: 118762, Start Num: 26

Candidate Starts for I3_219:

(Start: 26 @115274 has 44 MA's), (Start: 28 @115280 has 6 MA's), (Start: 32 @115292 has 8 MA's), (37, 115301), (Start: 68 @115367 has 162 MA's), (84, 115442), (103, 115556), (109, 115580), (127, 115640), (151, 115751), (157, 115790), (164, 115814), (173, 115856), (203, 115955), (210, 115985), (214, 115997), (216, 116003), (219, 116015), (229, 116078), (242, 116138), (243, 116141), (250, 116168), (261, 116210), (279, 116273), (330, 116429), (335, 116447), (338, 116462), (351, 116579), (357, 116618), (372, 116738), (380, 116780), (389, 116825), (391, 116834), (402, 116885), (414, 116927), (432, 116993), (434, 117002), (435, 117005), (436, 117011), (437, 117014), (438, 117023), (439, 117029), (440, 117044), (462, 117131), (483, 117236), (495, 117290), (510, 117377), (516, 117407), (526, 117437), (533, 117470), (535, 117479), (546, 117551), (552, 117581), (577, 117698), (589, 117743), (601, 117785), (660, 117929), (675, 117989), (715, 118091), (750, 118178), (751, 118181), (761, 118199), (771, 118235), (772, 118238), (793, 118298), (798, 118316), (827, 118412), (836, 118442), (839, 118460), (846, 118490), (879, 118583), (883, 118598), (900, 118679), (902, 118685), (905, 118697),

Gene: IDyn_59 Start: 45555, Stop: 42304, Start Num: 73

Candidate Starts for IDyn_59:

(5, 45774), (Start: 73 @45555 has 88 MA's), (86, 45474), (Start: 89 @45459 has 6 MA's), (93, 45414), (128, 45306), (130, 45297), (197, 45009), (210, 44958), (218, 44931), (225, 44877), (232, 44847), (278, 44664), (292, 44640), (338, 44454), (343, 44427), (354, 44349), (356, 44334), (376, 44196), (395, 44103), (431, 43998), (433, 43992), (438, 43965), (466, 43830), (472, 43797), (481, 43761), (494, 43716), (502, 43704), (515, 43641), (549, 43476), (550, 43473), (558, 43434), (559, 43431), (561, 43425), (563, 43416), (565, 43407), (590, 43311), (596, 43293), (603, 43257), (668, 43107), (682, 43053), (735, 42957), (769, 42873), (772, 42864), (790, 42813), (814, 42723), (841, 42627), (842, 42624), (892, 42441), (925, 42318),

Gene: IchabodCrane_79 Start: 58144, Stop: 61464, Start Num: 69

Candidate Starts for IchabodCrane_79:

(Start: 69 @58144 has 26 MA's), (80, 58195), (85, 58216), (Start: 89 @58240 has 6 MA's), (102, 58321), (146, 58519), (189, 58699), (200, 58747), (202, 58750), (213, 58804), (215, 58807), (223, 58855), (225, 58873), (228, 58882), (236, 58918), (259, 59026), (262, 59035), (337, 59245), (349, 59314), (372, 59479), (387, 59557), (412, 59626), (438, 59719), (462, 59842), (478, 59926), (499, 59989), (502, 59998), (546, 60202), (559, 60256), (562, 60265), (566, 60283), (568, 60289), (608,

60481), (619, 60505), (622, 60532), (648, 60640), (696, 60829), (722, 60907), (732, 60949), (740, 60967), (759, 61009), (771, 61048), (773, 61054), (783, 61081), (791, 61120), (806, 61168), (830, 61249), (836, 61270), (841, 61297), (842, 61300), (847, 61315), (858, 61348), (882, 61417),

Gene: IkeLoa_201 Start: 112032, Stop: 115427, Start Num: 68

Candidate Starts for IkeLoa_201:

(11, 111864), (Start: 26 @111939 has 44 MA's), (Start: 28 @111945 has 6 MA's), (Start: 32 @111957 has 8 MA's), (37, 111966), (Start: 68 @112032 has 162 MA's), (84, 112107), (103, 112221), (109, 112245), (127, 112305), (151, 112416), (157, 112455), (164, 112479), (173, 112521), (203, 112620), (214, 112662), (216, 112668), (219, 112680), (229, 112743), (242, 112803), (243, 112806), (250, 112833), (261, 112875), (279, 112938), (330, 113094), (335, 113112), (338, 113127), (351, 113244), (357, 113283), (372, 113403), (380, 113445), (389, 113490), (391, 113499), (402, 113550), (414, 113592), (432, 113658), (434, 113667), (435, 113670), (436, 113676), (437, 113679), (438, 113688), (439, 113694), (440, 113709), (462, 113796), (483, 113901), (495, 113955), (510, 114042), (516, 114072), (526, 114102), (533, 114135), (535, 114144), (546, 114216), (552, 114246), (577, 114363), (589, 114408), (601, 114450), (660, 114594), (675, 114654), (715, 114756), (750, 114843), (751, 114846), (761, 114864), (771, 114900), (772, 114903), (793, 114963), (798, 114981), (827, 115077), (836, 115107), (839, 115125), (846, 115155), (879, 115248), (883, 115263), (900, 115344), (902, 115350), (905, 115362),

Gene: Indigo_52 Start: 40232, Stop: 36753, Start Num: 68

Candidate Starts for Indigo_52:

(6, 40442), (Start: 68 @40232 has 162 MA's), (84, 40160), (Start: 89 @40133 has 6 MA's), (91, 40118), (123, 39956), (126, 39929), (128, 39923), (144, 39833), (150, 39818), (160, 39764), (161, 39761), (188, 39665), (218, 39587), (247, 39440), (257, 39401), (269, 39356), (276, 39335), (283, 39320), (304, 39278), (308, 39266), (325, 39200), (329, 39188), (343, 39125), (359, 38996), (360, 38987), (366, 38951), (381, 38867), (383, 38849), (398, 38792), (399, 38789), (401, 38777), (438, 38639), (439, 38633), (440, 38618), (442, 38612), (449, 38579), (468, 38501), (474, 38468), (512, 38327), (530, 38270), (534, 38246), (535, 38240), (546, 38171), (558, 38108), (574, 38042), (578, 38021), (583, 38003), (601, 37946), (602, 37937), (655, 37829), (657, 37820), (661, 37808), (663, 37787), (673, 37757), (678, 37730), (709, 37664), (711, 37655), (714, 37643), (747, 37556), (756, 37532), (772, 37484), (812, 37340), (832, 37265), (880, 37091), (887, 37055), (899, 37007), (908, 36974),

Gene: Indlulamithi_76 Start: 52921, Stop: 56100, Start Num: 64

Candidate Starts for Indlulamithi_76:

(Start: 64 @52921 has 1 MA's), (Start: 73 @52936 has 88 MA's), (85, 53008), (Start: 89 @53032 has 6 MA's), (95, 53083), (101, 53110), (126, 53173), (130, 53188), (132, 53203), (149, 53278), (150, 53281), (164, 53344), (165, 53347), (169, 53377), (193, 53458), (252, 53713), (262, 53755), (309, 53905), (316, 53923), (321, 53956), (348, 54091), (349, 54094), (350, 54103), (354, 54130), (356, 54142), (394, 54373), (395, 54376), (418, 54454), (429, 54475), (440, 54535), (446, 54565), (466, 54649), (472, 54682), (478, 54709), (481, 54718), (482, 54724), (485, 54733), (489, 54748), (507, 54793), (511, 54817), (519, 54844), (524, 54862), (529, 54877), (560, 55033), (564, 55048), (572, 55081), (576, 55105), (603, 55204), (703, 55477), (796, 55609), (802, 55624), (810, 55648), (813, 55666), (814, 55669), (826, 55714), (877, 55888), (882, 55906), (887, 55936), (904, 56011), (905, 56014),

Gene: InigoMontoya_212 Start: 113041, Stop: 116436, Start Num: 68

Candidate Starts for InigoMontoya_212:

(Start: 26 @112948 has 44 MA's), (Start: 28 @112954 has 6 MA's), (Start: 32 @112966 has 8 MA's), (37, 112975), (Start: 68 @113041 has 162 MA's), (84, 113116), (103, 113230), (109, 113254), (127, 113314), (151, 113425), (157, 113464), (164, 113488), (173, 113530), (203, 113629), (214, 113671), (216, 113677), (219, 113689), (229, 113752), (242, 113812), (243, 113815), (250, 113842), (261,

113884), (279, 113947), (321, 114067), (330, 114103), (335, 114121), (338, 114136), (351, 114253), (357, 114292), (372, 114412), (380, 114454), (389, 114499), (391, 114508), (402, 114559), (414, 114601), (432, 114667), (434, 114676), (435, 114679), (436, 114685), (437, 114688), (438, 114697), (439, 114703), (440, 114718), (462, 114805), (483, 114910), (495, 114964), (510, 115051), (516, 115081), (526, 115111), (533, 115144), (535, 115153), (546, 115225), (552, 115255), (577, 115372), (589, 115417), (601, 115459), (660, 115603), (675, 115663), (715, 115765), (750, 115852), (751, 115855), (761, 115873), (771, 115909), (772, 115912), (793, 115972), (798, 115990), (827, 116086), (836, 116116), (839, 116134), (846, 116164), (879, 116257), (883, 116272), (900, 116353), (902, 116359), (905, 116371),

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

Candidate Starts for InterFolia_212:

(Start: 26 @114646 has 44 MA's), (Start: 28 @114652 has 6 MA's), (Start: 32 @114664 has 8 MA's), (37, 114673), (Start: 68 @114739 has 162 MA's), (84, 114814), (103, 114928), (109, 114952), (127, 115012), (151, 115123), (157, 115162), (164, 115186), (173, 115228), (203, 115327), (214, 115369), (216, 115375), (219, 115387), (229, 115450), (242, 115510), (243, 115513), (250, 115540), (261, 115582), (279, 115645), (321, 115765), (330, 115801), (335, 115819), (338, 115834), (351, 115951), (357, 115990), (372, 116110), (380, 116152), (389, 116197), (391, 116206), (402, 116257), (414, 116299), (432, 116365), (434, 116374), (435, 116377), (436, 116383), (437, 116386), (438, 116395), (439, 116401), (440, 116416), (462, 116503), (483, 116608), (495, 116662), (510, 116749), (516, 116779), (526, 116809), (533, 116842), (535, 116851), (546, 116923), (552, 116953), (577, 117070), (589, 117115), (601, 117157), (660, 117301), (675, 117361), (715, 117463), (750, 117550), (751, 117553), (761, 117571), (771, 117607), (772, 117610), (793, 117670), (798, 117688), (827, 117784), (836, 117814), (839, 117832), (846, 117862), (879, 117955), (883, 117970), (900, 118051), (902, 118057), (905, 118069),

Gene: Iota_204 Start: 112726, Stop: 116121, Start Num: 68

Candidate Starts for Iota_204:

(Start: 26 @112633 has 44 MA's), (Start: 28 @112639 has 6 MA's), (Start: 32 @112651 has 8 MA's), (37, 112660), (Start: 68 @112726 has 162 MA's), (84, 112801), (103, 112915), (109, 112939), (127, 112999), (151, 113110), (157, 113149), (164, 113173), (173, 113215), (203, 113314), (214, 113356), (216, 113362), (219, 113374), (229, 113437), (242, 113497), (243, 113500), (250, 113527), (261, 113569), (279, 113632), (330, 113788), (335, 113806), (338, 113821), (351, 113938), (357, 113977), (372, 114097), (380, 114139), (389, 114184), (391, 114193), (402, 114244), (414, 114286), (432, 114352), (434, 114361), (435, 114364), (436, 114370), (437, 114373), (438, 114382), (439, 114388), (440, 114403), (462, 114490), (483, 114595), (495, 114649), (510, 114736), (516, 114766), (526, 114796), (533, 114829), (535, 114838), (546, 114910), (552, 114940), (577, 115057), (589, 115102), (601, 115144), (660, 115288), (675, 115348), (715, 115450), (750, 115537), (751, 115540), (761, 115558), (771, 115594), (772, 115597), (793, 115657), (798, 115675), (827, 115771), (836, 115801), (839, 115819), (846, 115849), (879, 115942), (883, 115957), (900, 116038), (902, 116044), (905, 116056),

Gene: Issimir_205 Start: 112679, Stop: 116074, Start Num: 68

Candidate Starts for Issimir_205:

(Start: 18 @112556 has 4 MA's), (Start: 26 @112586 has 44 MA's), (Start: 28 @112592 has 6 MA's), (Start: 32 @112604 has 8 MA's), (37, 112613), (Start: 68 @112679 has 162 MA's), (84, 112754), (103, 112868), (109, 112892), (127, 112952), (151, 113063), (157, 113102), (164, 113126), (173, 113168), (203, 113267), (214, 113309), (216, 113315), (219, 113327), (229, 113390), (242, 113450), (243, 113453), (250, 113480), (261, 113522), (279, 113585), (330, 113741), (335, 113759), (338, 113774), (351, 113891), (357, 113930), (372, 114050), (380, 114092), (389, 114137), (391, 114146), (402, 114197), (414, 114239), (432, 114305), (434, 114314), (435, 114317), (436, 114323), (437, 114326), (438, 114335), (439, 114341), (440, 114356), (462, 114443), (483, 114548), (495, 114602), (510, 114689), (516, 114719), (526, 114749), (533, 114782), (535, 114791), (546, 114863), (552, 114893),

(577, 115010), (589, 115055), (601, 115097), (660, 115241), (675, 115301), (715, 115403), (750, 115490), (751, 115493), (761, 115511), (771, 115547), (772, 115550), (793, 115610), (798, 115628), (827, 115724), (836, 115754), (839, 115772), (846, 115802), (879, 115895), (883, 115910), (900, 115991), (902, 115997), (905, 116009),

Gene: Itza_54 Start: 38814, Stop: 35329, Start Num: 68

Candidate Starts for Itza_54:

(35, 38883), (39, 38874), (46, 38847), (Start: 68 @38814 has 162 MA's), (74, 38799), (76, 38787), (84, 38739), (86, 38727), (91, 38697), (99, 38646), (107, 38604), (117, 38571), (126, 38508), (154, 38373), (160, 38343), (161, 38340), (169, 38298), (188, 38244), (229, 38100), (247, 38019), (263, 37962), (266, 37953), (269, 37935), (276, 37914), (279, 37908), (304, 37857), (308, 37845), (325, 37779), (329, 37767), (336, 37740), (348, 37665), (358, 37581), (359, 37575), (383, 37428), (398, 37371), (399, 37368), (421, 37299), (424, 37290), (428, 37260), (429, 37257), (438, 37218), (439, 37212), (442, 37191), (449, 37158), (451, 37152), (468, 37080), (474, 37047), (477, 37035), (503, 36954), (512, 36906), (514, 36897), (529, 36852), (530, 36849), (534, 36825), (553, 36720), (558, 36687), (574, 36621), (601, 36525), (602, 36516), (655, 36408), (663, 36366), (673, 36336), (709, 36243), (711, 36234), (714, 36222), (715, 36219), (735, 36156), (741, 36150), (772, 36063), (780, 36042), (785, 36015), (807, 35937), (812, 35916), (825, 35868), (832, 35841), (875, 35697), (884, 35652), (911, 35535), (912, 35532), (931, 35445), (934, 35406), (936, 35400), (943, 35343), (946, 35334),

Gene: Izajani_207 Start: 113548, Stop: 116943, Start Num: 68

Candidate Starts for Izajani_207:

(Start: 26 @113455 has 44 MA's), (Start: 28 @113461 has 6 MA's), (Start: 32 @113473 has 8 MA's), (37, 113482), (Start: 68 @113548 has 162 MA's), (84, 113623), (103, 113737), (109, 113761), (127, 113821), (151, 113932), (157, 113971), (164, 113995), (173, 114037), (203, 114136), (214, 114178), (216, 114184), (219, 114196), (229, 114259), (242, 114319), (243, 114322), (250, 114349), (261, 114391), (279, 114454), (321, 114574), (330, 114610), (335, 114628), (338, 114643), (351, 114760), (357, 114799), (372, 114919), (380, 114961), (389, 115006), (391, 115015), (402, 115066), (414, 115108), (432, 115174), (434, 115183), (435, 115186), (436, 115192), (437, 115195), (438, 115204), (439, 115210), (440, 115225), (462, 115312), (483, 115417), (495, 115471), (510, 115558), (516, 115588), (526, 115618), (533, 115651), (535, 115660), (546, 115732), (552, 115762), (577, 115879), (589, 115924), (601, 115966), (660, 116110), (675, 116170), (715, 116272), (750, 116359), (751, 116362), (761, 116380), (771, 116416), (772, 116419), (793, 116479), (798, 116497), (827, 116593), (836, 116623), (839, 116641), (846, 116671), (879, 116764), (883, 116779), (900, 116860), (902, 116866), (905, 116878),

Gene: Izzy_55 Start: 40773, Stop: 37294, Start Num: 68

Candidate Starts for Izzy_55:

(Start: 36 @40842 has 1 MA's), (Start: 68 @40773 has 162 MA's), (84, 40701), (Start: 89 @40674 has 6 MA's), (91, 40659), (123, 40497), (126, 40470), (128, 40464), (144, 40374), (150, 40359), (160, 40305), (161, 40302), (188, 40206), (218, 40128), (247, 39981), (257, 39942), (269, 39897), (276, 39876), (283, 39861), (304, 39819), (308, 39807), (325, 39741), (329, 39729), (343, 39666), (359, 39537), (360, 39528), (366, 39492), (381, 39408), (383, 39390), (398, 39333), (399, 39330), (401, 39318), (438, 39180), (439, 39174), (440, 39159), (442, 39153), (451, 39114), (468, 39042), (474, 39009), (508, 38892), (512, 38868), (530, 38811), (534, 38787), (535, 38781), (546, 38712), (558, 38649), (574, 38583), (578, 38562), (583, 38544), (601, 38487), (602, 38478), (655, 38370), (657, 38361), (661, 38349), (663, 38328), (673, 38298), (678, 38271), (709, 38205), (711, 38196), (714, 38184), (747, 38097), (756, 38073), (772, 38025), (812, 37881), (832, 37806), (880, 37632), (887, 37596), (899, 37548), (908, 37515),

Gene: JPickles_205 Start: 110933, Stop: 114421, Start Num: 26

Candidate Starts for JPickles_205:

(Start: 26 @110933 has 44 MA's), (Start: 28 @110939 has 6 MA's), (Start: 32 @110951 has 8 MA's), (37, 110960), (Start: 68 @111026 has 162 MA's), (84, 111101), (103, 111215), (109, 111239), (127, 111299), (151, 111410), (157, 111449), (164, 111473), (173, 111515), (203, 111614), (214, 111656), (216, 111662), (219, 111674), (229, 111737), (242, 111797), (243, 111800), (250, 111827), (261, 111869), (279, 111932), (330, 112088), (335, 112106), (338, 112121), (351, 112238), (357, 112277), (372, 112397), (380, 112439), (389, 112484), (391, 112493), (402, 112544), (414, 112586), (432, 112652), (434, 112661), (435, 112664), (436, 112670), (437, 112673), (438, 112682), (439, 112688), (440, 112703), (462, 112790), (483, 112895), (495, 112949), (510, 113036), (516, 113066), (526, 113096), (533, 113129), (535, 113138), (546, 113210), (552, 113240), (577, 113357), (589, 113402), (601, 113444), (660, 113588), (675, 113648), (715, 113750), (750, 113837), (751, 113840), (761, 113858), (771, 113894), (772, 113897), (793, 113957), (798, 113975), (827, 114071), (836, 114101), (839, 114119), (846, 114149), (879, 114242), (883, 114257), (900, 114338), (902, 114344), (905, 114356),

Gene: Jada_60 Start: 48523, Stop: 51813, Start Num: 70

Candidate Starts for Jada_60:

(Start: 70 @48523 has 57 MA's), (75, 48538), (76, 48544), (85, 48595), (Start: 89 @48619 has 6 MA's), (129, 48808), (146, 48898), (159, 48958), (189, 49078), (213, 49183), (225, 49246), (227, 49252), (236, 49291), (323, 49564), (337, 49618), (345, 49648), (349, 49687), (356, 49735), (431, 50035), (439, 50074), (460, 50179), (461, 50185), (462, 50191), (468, 50224), (471, 50239), (474, 50257), (477, 50269), (478, 50275), (487, 50308), (499, 50338), (502, 50347), (516, 50413), (517, 50419), (521, 50428), (534, 50482), (546, 50554), (559, 50608), (562, 50617), (566, 50635), (568, 50641), (598, 50755), (606, 50821), (608, 50833), (626, 50893), (627, 50896), (640, 50959), (641, 50965), (644, 50971), (665, 51076), (678, 51124), (679, 51127), (706, 51196), (725, 51265), (727, 51274), (758, 51343), (759, 51349), (764, 51361), (773, 51394), (775, 51397), (791, 51460), (793, 51469), (800, 51490), (804, 51502), (818, 51544), (842, 51640), (852, 51676), (857, 51685), (864, 51703), (891, 51799),

Gene: Jalebi_78 Start: 52937, Stop: 56278, Start Num: 73

Candidate Starts for Jalebi_78:

(47, 52889), (Start: 73 @52937 has 88 MA's), (Start: 82 @52997 has 1 MA's), (Start: 89 @53033 has 6 MA's), (93, 53078), (103, 53120), (166, 53381), (194, 53483), (205, 53516), (224, 53612), (288, 53882), (289, 53891), (316, 53999), (324, 54044), (335, 54086), (356, 54218), (357, 54221), (358, 54251), (361, 54272), (372, 54341), (382, 54395), (404, 54494), (412, 54509), (466, 54725), (472, 54758), (476, 54776), (481, 54794), (494, 54839), (495, 54842), (524, 54938), (534, 54980), (536, 54992), (541, 55028), (564, 55127), (582, 55208), (596, 55250), (603, 55286), (643, 55340), (651, 55358), (669, 55454), (671, 55466), (739, 55661), (798, 55745), (822, 55826), (827, 55850), (831, 55865), (840, 55901), (844, 55913), (845, 55919), (846, 55922), (855, 55949), (873, 55994), (893, 56102), (906, 56147), (912, 56171), (922, 56207),

Gene: Jamemuya19_79 Start: 50306, Stop: 53647, Start Num: 73

Candidate Starts for Jamemuya19_79:

(Start: 73 @50306 has 88 MA's), (Start: 82 @50366 has 1 MA's), (Start: 89 @50402 has 6 MA's), (93, 50447), (103, 50489), (166, 50750), (205, 50885), (224, 50981), (288, 51251), (289, 51260), (316, 51368), (324, 51413), (335, 51455), (348, 51533), (356, 51587), (357, 51590), (358, 51620), (372, 51710), (382, 51764), (404, 51863), (412, 51878), (429, 51920), (466, 52094), (472, 52127), (476, 52145), (481, 52163), (494, 52208), (495, 52211), (524, 52307), (534, 52349), (536, 52361), (541, 52397), (582, 52577), (596, 52619), (603, 52655), (639, 52697), (643, 52709), (651, 52727), (669, 52823), (671, 52835), (739, 53030), (798, 53114), (827, 53219), (831, 53234), (836, 53249), (840, 53270), (844, 53282), (845, 53288), (846, 53291), (855, 53318), (873, 53363), (893, 53471), (906, 53516), (912, 53540), (922, 53576),

Gene: Janiyra_212 Start: 113266, Stop: 116661, Start Num: 68

Candidate Starts for Janiyra_212:

(Start: 26 @113173 has 44 MA's), (Start: 28 @113179 has 6 MA's), (Start: 32 @113191 has 8 MA's), (37, 113200), (Start: 68 @113266 has 162 MA's), (84, 113341), (103, 113455), (109, 113479), (127, 113539), (151, 113650), (157, 113689), (164, 113713), (173, 113755), (203, 113854), (214, 113896), (216, 113902), (219, 113914), (229, 113977), (242, 114037), (243, 114040), (250, 114067), (261, 114109), (279, 114172), (321, 114292), (330, 114328), (335, 114346), (338, 114361), (351, 114478), (357, 114517), (372, 114637), (380, 114679), (389, 114724), (391, 114733), (402, 114784), (414, 114826), (432, 114892), (434, 114901), (435, 114904), (436, 114910), (437, 114913), (438, 114922), (439, 114928), (440, 114943), (462, 115030), (483, 115135), (495, 115189), (510, 115276), (516, 115306), (526, 115336), (533, 115369), (535, 115378), (546, 115450), (552, 115480), (577, 115597), (589, 115642), (601, 115684), (660, 115828), (675, 115888), (715, 115990), (750, 116077), (751, 116080), (761, 116098), (771, 116134), (772, 116137), (793, 116197), (798, 116215), (827, 116311), (836, 116341), (839, 116359), (846, 116389), (879, 116482), (883, 116497), (900, 116578), (902, 116584), (905, 116596),

Gene: Jash_55 Start: 40726, Stop: 37247, Start Num: 68

Candidate Starts for Jash_55:

(Start: 36 @40795 has 1 MA's), (Start: 68 @40726 has 162 MA's), (84, 40654), (Start: 89 @40627 has 6 MA's), (91, 40612), (123, 40450), (126, 40423), (128, 40417), (144, 40327), (150, 40312), (160, 40258), (161, 40255), (188, 40159), (218, 40081), (247, 39934), (257, 39895), (269, 39850), (276, 39829), (283, 39814), (304, 39772), (308, 39760), (325, 39694), (329, 39682), (343, 39619), (359, 39490), (360, 39481), (366, 39445), (381, 39361), (383, 39343), (398, 39286), (399, 39283), (401, 39271), (438, 39133), (439, 39127), (440, 39112), (442, 39106), (451, 39067), (468, 38995), (474, 38962), (508, 38845), (512, 38821), (530, 38764), (534, 38740), (535, 38734), (546, 38665), (558, 38602), (574, 38536), (578, 38515), (583, 38497), (601, 38440), (602, 38431), (655, 38323), (657, 38314), (661, 38302), (663, 38281), (673, 38251), (678, 38224), (709, 38158), (711, 38149), (714, 38137), (747, 38050), (756, 38026), (772, 37978), (812, 37834), (832, 37759), (880, 37585), (887, 37549), (899, 37501), (908, 37468),

Gene: Jay2Jay_84 Start: 59915, Stop: 63199, Start Num: 70

Candidate Starts for Jay2Jay_84:

(Start: 70 @59915 has 57 MA's), (79, 59960), (85, 59990), (88, 60008), (Start: 89 @60014 has 6 MA's), (99, 60080), (146, 60293), (189, 60473), (213, 60578), (225, 60641), (227, 60647), (236, 60686), (254, 60776), (262, 60803), (310, 60902), (337, 61013), (345, 61043), (349, 61082), (387, 61325), (394, 61355), (439, 61469), (440, 61484), (461, 61580), (462, 61586), (478, 61670), (499, 61733), (502, 61742), (508, 61769), (517, 61814), (534, 61877), (546, 61949), (559, 62003), (562, 62012), (564, 62021), (566, 62030), (568, 62036), (606, 62216), (622, 62279), (638, 62348), (664, 62465), (694, 62555), (708, 62597), (725, 62660), (736, 62693), (759, 62744), (771, 62783), (773, 62789), (791, 62855), (806, 62903), (818, 62939), (830, 62984), (832, 62993), (842, 63035), (858, 63083), (864, 63098),

Gene: JayJay_207 Start: 113963, Stop: 117358, Start Num: 68

Candidate Starts for JayJay_207:

(Start: 26 @113870 has 44 MA's), (Start: 28 @113876 has 6 MA's), (Start: 32 @113888 has 8 MA's), (37, 113897), (Start: 68 @113963 has 162 MA's), (84, 114038), (103, 114152), (109, 114176), (127, 114236), (151, 114347), (157, 114386), (164, 114410), (173, 114452), (203, 114551), (214, 114593), (216, 114599), (219, 114611), (229, 114674), (242, 114734), (243, 114737), (250, 114764), (261, 114806), (279, 114869), (321, 114989), (330, 115025), (335, 115043), (338, 115058), (351, 115175), (357, 115214), (372, 115334), (380, 115376), (389, 115421), (391, 115430), (402, 115481), (414, 115523), (432, 115589), (434, 115598), (435, 115601), (436, 115607), (437, 115610), (438, 115619), (439, 115625), (440, 115640), (462, 115727), (483, 115832), (495, 115886), (510, 115973), (516, 116003), (526, 116033), (533, 116066), (535, 116075), (546, 116147), (552, 116177), (577, 116294), (589, 116339), (601, 116381), (675, 116585), (715, 116687), (750, 116774), (751, 116777), (761,

116795), (771, 116831), (772, 116834), (793, 116894), (798, 116912), (827, 117008), (836, 117038), (839, 117056), (846, 117086), (879, 117179), (883, 117194), (900, 117275), (902, 117281), (905, 117293),

Gene: Jaygup_205 Start: 112012, Stop: 115482, Start Num: 32

Candidate Starts for Jaygup_205:

(Start: 26 @111994 has 44 MA's), (Start: 28 @112000 has 6 MA's), (Start: 32 @112012 has 8 MA's), (37, 112021), (Start: 68 @112087 has 162 MA's), (84, 112162), (103, 112276), (109, 112300), (127, 112360), (151, 112471), (157, 112510), (164, 112534), (173, 112576), (203, 112675), (214, 112717), (216, 112723), (219, 112735), (229, 112798), (242, 112858), (243, 112861), (250, 112888), (261, 112930), (279, 112993), (330, 113149), (335, 113167), (338, 113182), (351, 113299), (357, 113338), (372, 113458), (380, 113500), (389, 113545), (391, 113554), (402, 113605), (414, 113647), (432, 113713), (434, 113722), (435, 113725), (436, 113731), (437, 113734), (438, 113743), (439, 113749), (440, 113764), (462, 113851), (483, 113956), (495, 114010), (510, 114097), (516, 114127), (526, 114157), (533, 114190), (535, 114199), (546, 114271), (552, 114301), (577, 114418), (589, 114463), (601, 114505), (660, 114649), (675, 114709), (715, 114811), (750, 114898), (751, 114901), (761, 114919), (771, 114955), (772, 114958), (793, 115018), (798, 115036), (827, 115132), (836, 115162), (839, 115180), (846, 115210), (879, 115303), (883, 115318), (900, 115399), (902, 115405), (905, 115417),

Gene: JeanGrey_95 Start: 74979, Stop: 78152, Start Num: 58

Candidate Starts for JeanGrey_95:

(Start: 58 @74979 has 5 MA's), (79, 75033), (91, 75102), (122, 75231), (132, 75279), (143, 75339), (160, 75411), (170, 75459), (175, 75471), (183, 75498), (203, 75564), (205, 75570), (206, 75573), (210, 75594), (229, 75687), (242, 75741), (243, 75744), (250, 75771), (279, 75873), (321, 75993), (336, 76050), (343, 76089), (345, 76092), (346, 76095), (350, 76140), (351, 76143), (360, 76227), (366, 76263), (368, 76275), (384, 76368), (391, 76398), (415, 76467), (422, 76488), (432, 76530), (434, 76539), (436, 76548), (502, 76824), (512, 76875), (538, 76983), (544, 77028), (546, 77031), (574, 77148), (575, 77157), (579, 77172), (645, 77343), (659, 77403), (660, 77406), (779, 77733), (836, 77832), (839, 77850), (879, 77973), (904, 78084), (919, 78132),

Gene: Jedediah_209 Start: 113047, Stop: 116535, Start Num: 26

Candidate Starts for Jedediah_209:

(Start: 26 @113047 has 44 MA's), (Start: 28 @113053 has 6 MA's), (Start: 32 @113065 has 8 MA's), (37, 113074), (Start: 68 @113140 has 162 MA's), (84, 113215), (103, 113329), (109, 113353), (127, 113413), (151, 113524), (157, 113563), (164, 113587), (173, 113629), (203, 113728), (214, 113770), (216, 113776), (219, 113788), (229, 113851), (242, 113911), (243, 113914), (250, 113941), (261, 113983), (279, 114046), (330, 114202), (335, 114220), (338, 114235), (351, 114352), (357, 114391), (372, 114511), (380, 114553), (389, 114598), (391, 114607), (402, 114658), (414, 114700), (432, 114766), (434, 114775), (435, 114778), (436, 114784), (437, 114787), (438, 114796), (439, 114802), (440, 114817), (462, 114904), (483, 115009), (495, 115063), (510, 115150), (516, 115180), (526, 115210), (533, 115243), (535, 115252), (546, 115324), (552, 115354), (577, 115471), (589, 115516), (601, 115558), (660, 115702), (675, 115762), (715, 115864), (750, 115951), (751, 115954), (761, 115972), (771, 116008), (772, 116011), (793, 116071), (798, 116089), (827, 116185), (836, 116215), (839, 116233), (846, 116263), (879, 116356), (883, 116371), (900, 116452), (902, 116458), (905, 116470),

Gene: Jemmno_208 Start: 111894, Stop: 115364, Start Num: 32

Candidate Starts for Jemmno_208:

(Start: 26 @111876 has 44 MA's), (Start: 28 @111882 has 6 MA's), (Start: 32 @111894 has 8 MA's), (37, 111903), (Start: 68 @111969 has 162 MA's), (84, 112044), (103, 112158), (109, 112182), (127, 112242), (151, 112353), (157, 112392), (164, 112416), (173, 112458), (203, 112557), (214, 112599), (216, 112605), (219, 112617), (229, 112680), (242, 112740), (243, 112743), (250, 112770), (261,

112812), (279, 112875), (321, 112995), (330, 113031), (335, 113049), (338, 113064), (351, 113181), (357, 113220), (372, 113340), (380, 113382), (389, 113427), (391, 113436), (402, 113487), (414, 113529), (432, 113595), (434, 113604), (435, 113607), (436, 113613), (437, 113616), (438, 113625), (439, 113631), (440, 113646), (462, 113733), (483, 113838), (495, 113892), (510, 113979), (516, 114009), (526, 114039), (533, 114072), (535, 114081), (546, 114153), (552, 114183), (577, 114300), (589, 114345), (601, 114387), (660, 114531), (675, 114591), (715, 114693), (750, 114780), (751, 114783), (761, 114801), (771, 114837), (772, 114840), (793, 114900), (798, 114918), (827, 115014), (836, 115044), (839, 115062), (846, 115092), (879, 115185), (883, 115200), (900, 115281), (902, 115287), (905, 115299),

Gene: Jessibeth14_209 Start: 114157, Stop: 117552, Start Num: 68

Candidate Starts for Jessibeth14_209:

(Start: 26 @114064 has 44 MA's), (Start: 28 @114070 has 6 MA's), (Start: 32 @114082 has 8 MA's), (37, 114091), (Start: 68 @114157 has 162 MA's), (84, 114232), (103, 114346), (109, 114370), (127, 114430), (151, 114541), (157, 114580), (164, 114604), (173, 114646), (203, 114745), (214, 114787), (216, 114793), (219, 114805), (229, 114868), (242, 114928), (243, 114931), (250, 114958), (261, 115000), (279, 115063), (321, 115183), (330, 115219), (335, 115237), (338, 115252), (351, 115369), (357, 115408), (372, 115528), (380, 115570), (389, 115615), (391, 115624), (402, 115675), (414, 115717), (432, 115783), (434, 115792), (435, 115795), (436, 115801), (437, 115804), (438, 115813), (439, 115819), (440, 115834), (462, 115921), (483, 116026), (495, 116080), (510, 116167), (516, 116197), (526, 116227), (533, 116260), (535, 116269), (546, 116341), (552, 116371), (577, 116488), (589, 116533), (601, 116575), (660, 116719), (675, 116779), (715, 116881), (750, 116968), (751, 116971), (761, 116989), (771, 117025), (772, 117028), (793, 117088), (798, 117106), (827, 117202), (836, 117232), (839, 117250), (846, 117280), (879, 117373), (883, 117388), (900, 117469), (902, 117475), (905, 117487),

Gene: Jifall16_59 Start: 48758, Stop: 45447, Start Num: 73

Candidate Starts for Jifall16_59:

(4, 49001), (Start: 73 @48758 has 88 MA's), (85, 48686), (Start: 89 @48662 has 6 MA's), (128, 48509), (130, 48500), (155, 48377), (194, 48218), (197, 48212), (204, 48188), (225, 48080), (232, 48050), (248, 47981), (292, 47843), (296, 47825), (335, 47672), (343, 47630), (354, 47552), (356, 47537), (376, 47399), (431, 47201), (440, 47147), (441, 47144), (454, 47084), (466, 47033), (481, 46964), (494, 46919), (549, 46679), (558, 46637), (559, 46634), (561, 46628), (565, 46610), (590, 46514), (603, 46460), (665, 46316), (669, 46307), (695, 46232), (718, 46157), (735, 46103), (753, 46061), (769, 46013), (794, 45932), (801, 45911), (827, 45821), (836, 45791), (841, 45767), (842, 45764), (892, 45581), (907, 45524),

Gene: JimJam_82 Start: 58518, Stop: 61838, Start Num: 69

Candidate Starts for JimJam_82:

(Start: 69 @58518 has 26 MA's), (80, 58569), (85, 58590), (Start: 89 @58614 has 6 MA's), (102, 58695), (146, 58893), (189, 59073), (200, 59121), (202, 59124), (213, 59178), (223, 59229), (225, 59247), (228, 59256), (236, 59292), (259, 59400), (262, 59409), (337, 59619), (349, 59688), (372, 59853), (387, 59931), (412, 60000), (438, 60093), (462, 60216), (478, 60300), (499, 60363), (502, 60372), (546, 60576), (559, 60630), (562, 60639), (566, 60657), (568, 60663), (608, 60855), (619, 60879), (622, 60906), (648, 61014), (696, 61203), (722, 61281), (732, 61323), (740, 61341), (759, 61383), (771, 61422), (773, 61428), (783, 61455), (791, 61494), (806, 61542), (830, 61623), (836, 61644), (841, 61671), (842, 61674), (847, 61689), (858, 61722), (882, 61791),

Gene: Jollison_86 Start: 58400, Stop: 61720, Start Num: 69

Candidate Starts for Jollison_86:

(Start: 69 @58400 has 26 MA's), (80, 58451), (85, 58472), (Start: 89 @58496 has 6 MA's), (102, 58577), (146, 58775), (189, 58955), (200, 59003), (213, 59060), (223, 59111), (225, 59129), (228, 59138), (236, 59174), (259, 59282), (262, 59291), (337, 59501), (349, 59570), (372, 59735), (387,

59813), (438, 59975), (462, 60098), (466, 60122), (478, 60182), (499, 60245), (502, 60254), (546, 60458), (559, 60512), (562, 60521), (566, 60539), (568, 60545), (607, 60728), (608, 60737), (619, 60761), (622, 60788), (648, 60896), (696, 61085), (722, 61163), (732, 61205), (740, 61223), (759, 61265), (771, 61304), (773, 61310), (783, 61337), (791, 61376), (806, 61424), (809, 61433), (830, 61505), (836, 61526), (841, 61553), (842, 61556), (847, 61571), (858, 61604), (882, 61673),

Gene: JulietS_202 Start: 110183, Stop: 113653, Start Num: 32

Candidate Starts for JulietS_202:

(Start: 18 @110135 has 4 MA's), (Start: 26 @110165 has 44 MA's), (Start: 28 @110171 has 6 MA's), (Start: 32 @110183 has 8 MA's), (37, 110192), (Start: 68 @110258 has 162 MA's), (84, 110333), (103, 110447), (109, 110471), (127, 110531), (151, 110642), (157, 110681), (164, 110705), (173, 110747), (203, 110846), (214, 110888), (216, 110894), (219, 110906), (229, 110969), (242, 111029), (243, 111032), (250, 111059), (261, 111101), (279, 111164), (321, 111284), (330, 111320), (335, 111338), (338, 111353), (351, 111470), (357, 111509), (372, 111629), (380, 111671), (389, 111716), (391, 111725), (402, 111776), (414, 111818), (432, 111884), (434, 111893), (435, 111896), (436, 111902), (437, 111905), (438, 111914), (439, 111920), (440, 111935), (462, 112022), (483, 112127), (495, 112181), (510, 112268), (516, 112298), (526, 112328), (533, 112361), (535, 112370), (546, 112442), (552, 112472), (577, 112589), (589, 112634), (601, 112676), (660, 112820), (675, 112880), (715, 112982), (750, 113069), (751, 113072), (761, 113090), (771, 113126), (772, 113129), (793, 113189), (798, 113207), (827, 113303), (836, 113333), (839, 113351), (846, 113381), (879, 113474), (883, 113489), (900, 113570), (902, 113576), (905, 113588),

Gene: JustHall_203 Start: 112173, Stop: 115568, Start Num: 68

Candidate Starts for JustHall_203:

(Start: 26 @112080 has 44 MA's), (Start: 28 @112086 has 6 MA's), (Start: 32 @112098 has 8 MA's), (37, 112107), (Start: 68 @112173 has 162 MA's), (84, 112248), (103, 112362), (109, 112386), (127, 112446), (151, 112557), (157, 112596), (164, 112620), (173, 112662), (203, 112761), (214, 112803), (216, 112809), (219, 112821), (229, 112884), (242, 112944), (243, 112947), (250, 112974), (261, 113016), (279, 113079), (321, 113199), (330, 113235), (335, 113253), (338, 113268), (351, 113385), (357, 113424), (372, 113544), (380, 113586), (389, 113631), (391, 113640), (402, 113691), (414, 113733), (432, 113799), (434, 113808), (435, 113811), (436, 113817), (437, 113820), (438, 113829), (439, 113835), (440, 113850), (462, 113937), (483, 114042), (495, 114096), (510, 114183), (516, 114213), (526, 114243), (533, 114276), (535, 114285), (546, 114357), (552, 114387), (577, 114504), (589, 114549), (601, 114591), (660, 114735), (675, 114795), (715, 114897), (750, 114984), (751, 114987), (761, 115005), (771, 115041), (772, 115044), (793, 115104), (798, 115122), (827, 115218), (836, 115248), (839, 115266), (846, 115296), (879, 115389), (883, 115404), (900, 115485), (902, 115491), (905, 115503),

Gene: Kabluna_63 Start: 47955, Stop: 44653, Start Num: 73

Candidate Starts for Kabluna_63:

(Start: 73 @47955 has 88 MA's), (Start: 89 @47859 has 6 MA's), (128, 47706), (130, 47697), (155, 47574), (194, 47415), (197, 47409), (204, 47385), (225, 47277), (252, 47166), (292, 47040), (335, 46869), (343, 46827), (354, 46749), (356, 46734), (376, 46596), (402, 46464), (431, 46398), (441, 46341), (454, 46281), (466, 46230), (481, 46161), (494, 46116), (549, 45873), (558, 45831), (559, 45828), (561, 45822), (565, 45804), (590, 45708), (603, 45654), (669, 45501), (686, 45441), (695, 45426), (735, 45297), (769, 45219), (790, 45159), (794, 45138), (795, 45135), (801, 45117), (824, 45033), (841, 44973), (849, 44946), (850, 44943), (874, 44877), (916, 44694), (925, 44664),

Gene: Kabocha_99 Start: 71499, Stop: 74312, Start Num: 58

Candidate Starts for Kabocha_99:

(Start: 49 @71484 has 1 MA's), (Start: 56 @71496 has 2 MA's), (Start: 58 @71499 has 5 MA's), (84, 71592), (92, 71652), (125, 71802), (126, 71805), (128, 71811), (147, 71910), (153, 71940), (154, 71943), (167, 72006), (173, 72027), (174, 72030), (183, 72057), (216, 72174), (218, 72183), (226,

72240), (229, 72249), (245, 72315), (262, 72381), (325, 72546), (330, 72564), (334, 72579), (336, 72585), (338, 72597), (345, 72624), (346, 72627), (353, 72687), (354, 72696), (355, 72699), (357, 72711), (360, 72756), (371, 72825), (374, 72849), (407, 73005), (413, 73023), (416, 73047), (423, 73065), (442, 73161), (450, 73203), (453, 73209), (462, 73245), (464, 73254), (467, 73272), (468, 73278), (472, 73302), (473, 73308), (474, 73311), (478, 73329), (479, 73332), (508, 73425), (519, 73470), (522, 73476), (528, 73500), (529, 73503), (531, 73512), (532, 73518), (534, 73530), (556, 73647), (558, 73665), (559, 73668), (562, 73677), (592, 73791), (597, 73806), (655, 73953), (659, 73965), (661, 73971), (669, 74004), (676, 74037), (680, 74055), (685, 74067), (689, 74076), (732, 74190), (737, 74202), (744, 74217), (768, 74292), (771, 74301),

Gene: Kamryn_208 Start: 113803, Stop: 117198, Start Num: 68

Candidate Starts for Kamryn_208:

(Start: 26 @113710 has 44 MA's), (Start: 28 @113716 has 6 MA's), (Start: 32 @113728 has 8 MA's), (37, 113737), (Start: 68 @113803 has 162 MA's), (84, 113878), (103, 113992), (109, 114016), (127, 114076), (151, 114187), (157, 114226), (164, 114250), (173, 114292), (203, 114391), (214, 114433), (216, 114439), (219, 114451), (229, 114514), (242, 114574), (243, 114577), (250, 114604), (261, 114646), (279, 114709), (330, 114865), (335, 114883), (338, 114898), (351, 115015), (357, 115054), (372, 115174), (380, 115216), (389, 115261), (391, 115270), (402, 115321), (414, 115363), (432, 115429), (434, 115438), (435, 115441), (436, 115447), (437, 115450), (438, 115459), (439, 115465), (440, 115480), (462, 115567), (483, 115672), (495, 115726), (510, 115813), (516, 115843), (526, 115873), (533, 115906), (535, 115915), (546, 115987), (552, 116017), (577, 116134), (589, 116179), (601, 116221), (660, 116365), (675, 116425), (715, 116527), (750, 116614), (751, 116617), (761, 116635), (771, 116671), (772, 116674), (793, 116734), (798, 116752), (827, 116848), (836, 116878), (839, 116896), (846, 116926), (879, 117019), (883, 117034), (900, 117115), (902, 117121), (905, 117133),

Gene: KandZ_65 Start: 49894, Stop: 53196, Start Num: 29

Candidate Starts for KandZ_65:

(Start: 29 @49894 has 19 MA's), (Start: 64 @49981 has 1 MA's), (Start: 67 @49987 has 1 MA's), (Start: 73 @49996 has 88 MA's), (Start: 89 @50092 has 6 MA's), (130, 50248), (148, 50335), (149, 50338), (159, 50389), (224, 50653), (232, 50692), (249, 50764), (252, 50773), (270, 50848), (292, 50914), (294, 50920), (309, 50974), (316, 50992), (325, 51043), (326, 51046), (334, 51076), (349, 51160), (350, 51169), (354, 51196), (356, 51211), (382, 51388), (383, 51397), (412, 51502), (438, 51583), (448, 51643), (466, 51718), (472, 51751), (473, 51757), (478, 51778), (481, 51787), (494, 51832), (514, 51901), (520, 51916), (536, 51985), (547, 52048), (556, 52081), (557, 52084), (568, 52135), (584, 52210), (643, 52333), (651, 52351), (668, 52429), (669, 52432), (671, 52444), (685, 52489), (695, 52510), (699, 52522), (711, 52552), (717, 52573), (777, 52645), (798, 52702), (826, 52801), (844, 52867), (875, 52957), (881, 52987), (882, 52990), (887, 53020), (896, 53065), (907, 53107), (914, 53137), (918, 53149), (922, 53164), (925, 53173),

Gene: Karimac_81 Start: 58549, Stop: 61869, Start Num: 69

Candidate Starts for Karimac_81:

(Start: 69 @58549 has 26 MA's), (80, 58600), (85, 58621), (Start: 89 @58645 has 6 MA's), (102, 58726), (146, 58924), (189, 59104), (200, 59152), (202, 59155), (213, 59209), (223, 59260), (225, 59278), (228, 59287), (236, 59323), (259, 59431), (262, 59440), (337, 59650), (349, 59719), (372, 59884), (387, 59962), (412, 60031), (438, 60124), (462, 60247), (478, 60331), (499, 60394), (502, 60403), (546, 60607), (559, 60661), (562, 60670), (566, 60688), (568, 60694), (608, 60886), (619, 60910), (622, 60937), (648, 61045), (696, 61234), (722, 61312), (732, 61354), (740, 61372), (759, 61414), (771, 61453), (773, 61459), (783, 61486), (791, 61525), (806, 61573), (830, 61654), (836, 61675), (841, 61702), (842, 61705), (847, 61720), (858, 61753), (882, 61822),

Gene: Karp_59 Start: 49450, Stop: 52740, Start Num: 70

Candidate Starts for Karp_59:

(59, 49432), (Start: 70 @49450 has 57 MA's), (75, 49465), (76, 49471), (80, 49501), (85, 49522), (88, 49540), (Start: 89 @49546 has 6 MA's), (124, 49714), (132, 49756), (146, 49825), (159, 49885), (188, 49999), (189, 50005), (213, 50110), (225, 50173), (227, 50179), (236, 50218), (302, 50407), (319, 50464), (323, 50491), (336, 50536), (383, 50842), (392, 50878), (431, 50962), (439, 51001), (460, 51106), (462, 51118), (468, 51151), (473, 51181), (474, 51184), (477, 51196), (478, 51202), (502, 51274), (516, 51340), (517, 51346), (534, 51409), (546, 51481), (559, 51535), (562, 51544), (566, 51562), (568, 51568), (598, 51682), (606, 51748), (608, 51760), (626, 51820), (627, 51823), (638, 51880), (640, 51886), (644, 51898), (654, 51934), (665, 52003), (727, 52201), (740, 52234), (758, 52270), (759, 52276), (764, 52288), (788, 52369), (791, 52387), (793, 52396), (800, 52417), (811, 52447), (826, 52504), (842, 52567), (864, 52630),

Gene: Katalie_54 Start: 42740, Stop: 39261, Start Num: 68

Candidate Starts for Katalie_54:

(Start: 36 @42806 has 1 MA's), (Start: 68 @42740 has 162 MA's), (Start: 82 @42677 has 1 MA's), (84, 42668), (86, 42656), (91, 42626), (107, 42533), (117, 42500), (123, 42464), (135, 42395), (144, 42341), (161, 42269), (188, 42173), (218, 42095), (247, 41948), (257, 41909), (269, 41864), (276, 41843), (283, 41828), (298, 41807), (325, 41708), (329, 41696), (343, 41633), (358, 41510), (359, 41504), (366, 41459), (381, 41375), (383, 41357), (398, 41300), (399, 41297), (401, 41285), (438, 41147), (440, 41126), (442, 41120), (445, 41105), (456, 41063), (467, 41015), (468, 41009), (474, 40976), (512, 40835), (530, 40778), (534, 40754), (535, 40748), (546, 40679), (557, 40631), (558, 40616), (564, 40595), (574, 40550), (601, 40454), (602, 40445), (655, 40337), (657, 40328), (661, 40316), (663, 40295), (673, 40265), (678, 40238), (711, 40163), (714, 40151), (747, 40064), (756, 40040), (812, 39848), (840, 39737), (880, 39599), (887, 39563), (899, 39515), (900, 39509), (908, 39482), (933, 39350), (934, 39338), (936, 39332), (943, 39275),

Gene: Kboogie_213 Start: 112831, Stop: 116226, Start Num: 68

Candidate Starts for Kboogie_213:

(Start: 26 @112738 has 44 MA's), (Start: 28 @112744 has 6 MA's), (Start: 32 @112756 has 8 MA's), (37, 112765), (Start: 68 @112831 has 162 MA's), (84, 112906), (103, 113020), (109, 113044), (127, 113104), (151, 113215), (157, 113254), (164, 113278), (173, 113320), (203, 113419), (214, 113461), (216, 113467), (219, 113479), (229, 113542), (242, 113602), (243, 113605), (250, 113632), (261, 113674), (279, 113737), (321, 113857), (330, 113893), (335, 113911), (338, 113926), (351, 114043), (357, 114082), (372, 114202), (380, 114244), (389, 114289), (391, 114298), (402, 114349), (414, 114391), (432, 114457), (434, 114466), (435, 114469), (436, 114475), (437, 114478), (438, 114487), (439, 114493), (440, 114508), (462, 114595), (483, 114700), (495, 114754), (510, 114841), (516, 114871), (526, 114901), (533, 114934), (535, 114943), (546, 115015), (552, 115045), (577, 115162), (589, 115207), (601, 115249), (660, 115393), (675, 115453), (715, 115555), (750, 115642), (751, 115645), (761, 115663), (771, 115699), (772, 115702), (793, 115762), (798, 115780), (827, 115876), (836, 115906), (839, 115924), (846, 115954), (879, 116047), (883, 116062), (900, 116143), (902, 116149), (905, 116161),

Gene: Kenrey_62 Start: 48788, Stop: 52078, Start Num: 70

Candidate Starts for Kenrey_62:

(Start: 70 @48788 has 57 MA's), (76, 48809), (80, 48839), (85, 48860), (Start: 89 @48884 has 6 MA's), (146, 49163), (159, 49223), (188, 49337), (189, 49343), (190, 49355), (213, 49448), (225, 49511), (227, 49517), (236, 49556), (239, 49583), (310, 49772), (315, 49787), (349, 49952), (356, 50000), (431, 50300), (439, 50339), (462, 50456), (468, 50489), (474, 50522), (478, 50540), (487, 50573), (502, 50612), (516, 50678), (517, 50684), (534, 50747), (546, 50819), (559, 50873), (562, 50882), (566, 50900), (568, 50906), (598, 51020), (606, 51086), (608, 51098), (626, 51158), (627, 51161), (644, 51236), (660, 51299), (665, 51341), (706, 51461), (727, 51539), (758, 51608), (759, 51614), (788, 51707), (791, 51725), (793, 51734), (800, 51755), (811, 51785), (820, 51818), (842, 51905), (846, 51917), (852, 51941), (864, 51968),

Gene: KentuckyRacer_85 Start: 58333, Stop: 61653, Start Num: 69

Candidate Starts for KentuckyRacer_85:

(Start: 69 @58333 has 26 MA's), (80, 58384), (85, 58405), (Start: 89 @58429 has 6 MA's), (102, 58510), (146, 58708), (189, 58888), (200, 58936), (213, 58993), (223, 59044), (225, 59062), (228, 59071), (236, 59107), (259, 59215), (262, 59224), (337, 59434), (349, 59503), (372, 59668), (387, 59746), (412, 59815), (438, 59908), (462, 60031), (478, 60115), (499, 60178), (502, 60187), (546, 60391), (559, 60445), (562, 60454), (566, 60472), (568, 60478), (608, 60670), (619, 60694), (622, 60721), (648, 60829), (696, 61018), (722, 61096), (732, 61138), (740, 61156), (759, 61198), (771, 61237), (773, 61243), (783, 61270), (791, 61309), (806, 61357), (830, 61438), (836, 61459), (841, 61486), (842, 61489), (847, 61504), (858, 61537), (882, 61606),

Gene: Khaleesi_208 Start: 113624, Stop: 117019, Start Num: 68

Candidate Starts for Khaleesi_208:

(Start: 26 @113531 has 44 MA's), (Start: 28 @113537 has 6 MA's), (Start: 32 @113549 has 8 MA's), (37, 113558), (Start: 68 @113624 has 162 MA's), (84, 113699), (103, 113813), (109, 113837), (127, 113897), (151, 114008), (157, 114047), (164, 114071), (173, 114113), (203, 114212), (214, 114254), (216, 114260), (219, 114272), (229, 114335), (242, 114395), (243, 114398), (250, 114425), (261, 114467), (279, 114530), (321, 114650), (330, 114686), (335, 114704), (338, 114719), (351, 114836), (357, 114875), (372, 114995), (380, 115037), (389, 115082), (391, 115091), (402, 115142), (414, 115184), (432, 115250), (434, 115259), (435, 115262), (436, 115268), (437, 115271), (438, 115280), (439, 115286), (440, 115301), (462, 115388), (483, 115493), (495, 115547), (510, 115634), (516, 115664), (526, 115694), (533, 115727), (535, 115736), (546, 115808), (552, 115838), (577, 115955), (589, 116000), (601, 116042), (660, 116186), (675, 116246), (715, 116348), (750, 116435), (751, 116438), (761, 116456), (771, 116492), (772, 116495), (793, 116555), (798, 116573), (827, 116669), (836, 116699), (839, 116717), (846, 116747), (879, 116840), (883, 116855), (900, 116936), (902, 116942), (905, 116954),

Gene: KidneyBean_60 Start: 48882, Stop: 45571, Start Num: 73

Candidate Starts for KidneyBean_60:

(4, 49125), (Start: 73 @48882 has 88 MA's), (85, 48810), (Start: 89 @48786 has 6 MA's), (128, 48633), (130, 48624), (155, 48501), (194, 48342), (197, 48336), (204, 48312), (225, 48204), (232, 48174), (248, 48105), (292, 47967), (296, 47949), (335, 47796), (343, 47754), (354, 47676), (356, 47661), (376, 47523), (431, 47325), (440, 47271), (441, 47268), (454, 47208), (466, 47157), (481, 47088), (494, 47043), (549, 46803), (558, 46761), (559, 46758), (561, 46752), (565, 46734), (590, 46638), (603, 46584), (665, 46440), (669, 46431), (695, 46356), (718, 46281), (735, 46227), (753, 46185), (769, 46137), (794, 46056), (801, 46035), (827, 45945), (836, 45915), (841, 45891), (842, 45888), (892, 45705), (907, 45648),

Gene: Kimchi1738_43 Start: 41039, Stop: 37746, Start Num: 73

Candidate Starts for Kimchi1738_43:

(Start: 73 @41039 has 88 MA's), (81, 40982), (86, 40958), (Start: 89 @40943 has 6 MA's), (90, 40934), (130, 40787), (182, 40505), (194, 40427), (267, 40118), (300, 40013), (325, 39911), (352, 39776), (354, 39758), (356, 39743), (368, 39647), (419, 39428), (420, 39425), (429, 39410), (437, 39380), (440, 39350), (466, 39233), (472, 39200), (478, 39173), (484, 39149), (525, 39002), (536, 38948), (539, 38927), (557, 38852), (559, 38834), (603, 38657), (637, 38627), (645, 38600), (651, 38585), (683, 38456), (721, 38423), (763, 38336), (798, 38222), (801, 38216), (805, 38204), (846, 38054), (847, 38051), (849, 38045), (855, 38027), (859, 38018), (867, 38000), (893, 37874), (903, 37838), (904, 37832),

Gene: Koguma_208 Start: 112391, Stop: 115879, Start Num: 26

Candidate Starts for Koguma_208:

(Start: 18 @112361 has 4 MA's), (Start: 26 @112391 has 44 MA's), (Start: 28 @112397 has 6 MA's), (Start: 32 @112409 has 8 MA's), (37, 112418), (Start: 68 @112484 has 162 MA's), (84, 112559), (103,

112673), (109, 112697), (127, 112757), (151, 112868), (157, 112907), (164, 112931), (173, 112973), (203, 113072), (214, 113114), (216, 113120), (219, 113132), (229, 113195), (242, 113255), (243, 113258), (250, 113285), (261, 113327), (279, 113390), (321, 113510), (330, 113546), (335, 113564), (338, 113579), (351, 113696), (357, 113735), (372, 113855), (380, 113897), (389, 113942), (391, 113951), (402, 114002), (414, 114044), (432, 114110), (434, 114119), (435, 114122), (436, 114128), (437, 114131), (438, 114140), (439, 114146), (440, 114161), (462, 114248), (483, 114353), (495, 114407), (510, 114494), (516, 114524), (526, 114554), (533, 114587), (535, 114596), (546, 114668), (552, 114698), (577, 114815), (589, 114860), (601, 114902), (660, 115046), (675, 115106), (715, 115208), (750, 115295), (751, 115298), (761, 115316), (771, 115352), (772, 115355), (793, 115415), (798, 115433), (827, 115529), (836, 115559), (839, 115577), (846, 115607), (879, 115700), (883, 115715), (900, 115796), (902, 115802), (905, 115814),

Gene: Konstantine_80 Start: 55996, Stop: 59292, Start Num: 73

Candidate Starts for Konstantine_80:

(Start: 53 @55969 has 1 MA's), (Start: 73 @55996 has 88 MA's), (85, 56068), (Start: 89 @56092 has 6 MA's), (92, 56125), (130, 56260), (150, 56353), (153, 56371), (165, 56419), (179, 56479), (224, 56671), (284, 56905), (299, 56962), (316, 57016), (323, 57061), (331, 57088), (337, 57115), (338, 57118), (351, 57196), (356, 57241), (359, 57280), (365, 57322), (378, 57400), (382, 57418), (386, 57436), (388, 57448), (408, 57523), (441, 57679), (459, 57763), (473, 57841), (478, 57862), (481, 57871), (482, 57877), (485, 57886), (504, 57958), (507, 57973), (514, 58012), (519, 58024), (539, 58117), (540, 58123), (550, 58171), (559, 58213), (599, 58363), (601, 58375), (651, 58459), (677, 58600), (720, 58705), (795, 58804), (797, 58813), (820, 58891), (830, 58930), (834, 58945), (846, 58993), (877, 59089), (882, 59107), (886, 59134), (898, 59182), (905, 59212), (906, 59215), (910, 59230), (918, 59260), (920, 59269), (922, 59275), (923, 59278),

Gene: Kurt_60 Start: 49119, Stop: 45808, Start Num: 73

Candidate Starts for Kurt_60:

(4, 49362), (Start: 73 @49119 has 88 MA's), (85, 49047), (Start: 89 @49023 has 6 MA's), (128, 48870), (130, 48861), (155, 48738), (194, 48579), (197, 48573), (204, 48549), (225, 48441), (232, 48411), (248, 48342), (292, 48204), (296, 48186), (335, 48033), (343, 47991), (354, 47913), (356, 47898), (376, 47760), (431, 47562), (440, 47508), (441, 47505), (454, 47445), (466, 47394), (481, 47325), (494, 47280), (549, 47040), (558, 46998), (559, 46995), (561, 46989), (565, 46971), (590, 46875), (603, 46821), (665, 46677), (669, 46668), (695, 46593), (718, 46518), (735, 46464), (753, 46422), (769, 46374), (794, 46293), (801, 46272), (827, 46182), (836, 46152), (841, 46128), (842, 46125), (892, 45942), (907, 45885),

Gene: LRRHood_202 Start: 112706, Stop: 116224, Start Num: 18

Candidate Starts for LRRHood_202:

(Start: 18 @112706 has 4 MA's), (Start: 26 @112736 has 44 MA's), (Start: 28 @112742 has 6 MA's), (Start: 32 @112754 has 8 MA's), (37, 112763), (Start: 68 @112829 has 162 MA's), (84, 112904), (103, 113018), (109, 113042), (127, 113102), (151, 113213), (157, 113252), (164, 113276), (173, 113318), (203, 113417), (214, 113459), (216, 113465), (219, 113477), (229, 113540), (242, 113600), (243, 113603), (250, 113630), (261, 113672), (279, 113735), (321, 113855), (330, 113891), (335, 113909), (338, 113924), (351, 114041), (357, 114080), (372, 114200), (380, 114242), (389, 114287), (391, 114296), (402, 114347), (414, 114389), (432, 114455), (434, 114464), (435, 114467), (436, 114473), (437, 114476), (438, 114485), (439, 114491), (440, 114506), (462, 114593), (483, 114698), (495, 114752), (510, 114839), (516, 114869), (526, 114899), (533, 114932), (535, 114941), (546, 115013), (552, 115043), (577, 115160), (589, 115205), (601, 115247), (660, 115391), (675, 115451), (715, 115553), (750, 115640), (751, 115643), (761, 115661), (771, 115697), (772, 115700), (793, 115760), (798, 115778), (827, 115874), (836, 115904), (839, 115922), (846, 115952), (879, 116045), (883, 116060), (900, 116141), (902, 116147), (905, 116159),

Gene: Labelle_90 Start: 57766, Stop: 60999, Start Num: 73

Candidate Starts for Labelle_90:

(Start: 57 @57739 has 1 MA's), (Start: 73 @57766 has 88 MA's), (Start: 89 @57862 has 6 MA's), (130, 58027), (154, 58141), (165, 58186), (172, 58225), (188, 58276), (224, 58441), (351, 58939), (356, 58984), (359, 59023), (397, 59227), (419, 59308), (438, 59368), (446, 59419), (466, 59515), (468, 59524), (472, 59548), (473, 59554), (481, 59584), (482, 59590), (485, 59599), (514, 59722), (515, 59725), (519, 59734), (531, 59776), (534, 59794), (559, 59926), (651, 60172), (681, 60322), (704, 60379), (720, 60421), (730, 60445), (798, 60514), (844, 60682), (875, 60772), (886, 60844), (904, 60919),

Gene: Lambo_77 Start: 51507, Stop: 54848, Start Num: 73

Candidate Starts for Lambo_77:

(47, 51459), (Start: 73 @51507 has 88 MA's), (Start: 82 @51567 has 1 MA's), (Start: 89 @51603 has 6 MA's), (93, 51648), (103, 51690), (166, 51951), (194, 52053), (205, 52086), (224, 52182), (288, 52452), (289, 52461), (316, 52569), (324, 52614), (335, 52656), (356, 52788), (357, 52791), (358, 52821), (361, 52842), (372, 52911), (383, 52974), (404, 53064), (412, 53079), (429, 53121), (466, 53295), (472, 53328), (476, 53346), (481, 53364), (494, 53409), (495, 53412), (524, 53508), (534, 53550), (536, 53562), (541, 53598), (582, 53778), (596, 53820), (603, 53856), (643, 53910), (651, 53928), (669, 54024), (671, 54036), (739, 54231), (798, 54315), (822, 54396), (827, 54420), (831, 54435), (840, 54471), (844, 54483), (845, 54489), (846, 54492), (855, 54519), (873, 54564), (893, 54672), (906, 54717), (912, 54741), (922, 54777),

Gene: Lannister_54 Start: 41433, Stop: 37954, Start Num: 68

Candidate Starts for Lannister_54:

(Start: 68 @41433 has 162 MA's), (Start: 82 @41370 has 1 MA's), (84, 41361), (107, 41226), (117, 41193), (123, 41157), (135, 41088), (144, 41034), (161, 40962), (176, 40899), (188, 40866), (218, 40788), (247, 40641), (257, 40602), (269, 40557), (276, 40536), (283, 40521), (298, 40500), (325, 40401), (329, 40389), (343, 40326), (358, 40203), (359, 40197), (381, 40068), (383, 40050), (398, 39993), (399, 39990), (401, 39978), (428, 39882), (438, 39840), (439, 39834), (440, 39819), (442, 39813), (449, 39780), (465, 39717), (468, 39702), (474, 39669), (508, 39552), (512, 39528), (534, 39447), (546, 39372), (558, 39309), (574, 39243), (583, 39204), (601, 39147), (602, 39138), (655, 39030), (657, 39021), (661, 39009), (663, 38988), (673, 38958), (678, 38931), (709, 38865), (711, 38856), (714, 38844), (733, 38781), (747, 38757), (756, 38733), (795, 38595), (796, 38589), (812, 38541), (840, 38430), (880, 38292), (883, 38283), (887, 38256), (899, 38208), (900, 38202), (908, 38175), (934, 38031), (939, 38010),

Gene: Larnav_85 Start: 59147, Stop: 62431, Start Num: 70

Candidate Starts for Larnav_85:

(Start: 70 @59147 has 57 MA's), (79, 59192), (85, 59222), (88, 59240), (Start: 89 @59246 has 6 MA's), (146, 59525), (168, 59627), (189, 59705), (213, 59810), (225, 59873), (227, 59879), (236, 59918), (262, 60035), (304, 60119), (337, 60245), (345, 60275), (349, 60314), (380, 60521), (439, 60701), (460, 60806), (461, 60812), (462, 60818), (478, 60902), (486, 60932), (502, 60974), (508, 61001), (514, 61034), (517, 61046), (534, 61109), (546, 61181), (559, 61235), (562, 61244), (564, 61253), (566, 61262), (568, 61268), (622, 61511), (638, 61580), (641, 61592), (664, 61697), (725, 61892), (736, 61925), (759, 61976), (773, 62021), (791, 62087), (806, 62135), (830, 62216), (832, 62225), (842, 62267), (857, 62312), (858, 62315), (864, 62330),

Gene: Latch_209 Start: 112377, Stop: 115772, Start Num: 68

Candidate Starts for Latch_209:

(Start: 26 @112284 has 44 MA's), (Start: 28 @112290 has 6 MA's), (Start: 32 @112302 has 8 MA's), (37, 112311), (Start: 68 @112377 has 162 MA's), (84, 112452), (103, 112566), (109, 112590), (127, 112650), (151, 112761), (157, 112800), (164, 112824), (173, 112866), (203, 112965), (214, 113007), (216, 113013), (219, 113025), (229, 113088), (242, 113148), (243, 113151), (250, 113178), (261, 113220), (279, 113283), (321, 113403), (330, 113439), (335, 113457), (338, 113472), (351, 113589),

(357, 113628), (372, 113748), (380, 113790), (389, 113835), (391, 113844), (402, 113895), (414, 113937), (432, 114003), (434, 114012), (435, 114015), (436, 114021), (437, 114024), (438, 114033), (439, 114039), (440, 114054), (462, 114141), (483, 114246), (495, 114300), (510, 114387), (516, 114417), (526, 114447), (533, 114480), (535, 114489), (546, 114561), (552, 114591), (577, 114708), (589, 114753), (601, 114795), (660, 114939), (675, 114999), (715, 115101), (750, 115188), (751, 115191), (761, 115209), (771, 115245), (772, 115248), (793, 115308), (798, 115326), (827, 115422), (836, 115452), (839, 115470), (846, 115500), (879, 115593), (883, 115608), (900, 115689), (902, 115695), (905, 115707),

Gene: Lee7_209 Start: 115004, Stop: 118399, Start Num: 68

Candidate Starts for Lee7_209:

(Start: 26 @114911 has 44 MA's), (Start: 28 @114917 has 6 MA's), (Start: 32 @114929 has 8 MA's), (37, 114938), (Start: 68 @115004 has 162 MA's), (84, 115079), (103, 115193), (109, 115217), (127, 115277), (151, 115388), (157, 115427), (164, 115451), (173, 115493), (203, 115592), (214, 115634), (216, 115640), (219, 115652), (229, 115715), (242, 115775), (243, 115778), (250, 115805), (261, 115847), (279, 115910), (321, 116030), (330, 116066), (335, 116084), (338, 116099), (351, 116216), (357, 116255), (372, 116375), (380, 116417), (389, 116462), (391, 116471), (402, 116522), (414, 116564), (432, 116630), (434, 116639), (435, 116642), (436, 116648), (437, 116651), (438, 116660), (439, 116666), (440, 116681), (462, 116768), (483, 116873), (495, 116927), (510, 117014), (516, 117044), (526, 117074), (533, 117107), (535, 117116), (546, 117188), (552, 117218), (577, 117335), (589, 117380), (601, 117422), (660, 117566), (675, 117626), (715, 117728), (750, 117815), (751, 117818), (761, 117836), (771, 117872), (772, 117875), (793, 117935), (798, 117953), (827, 118049), (836, 118079), (839, 118097), (846, 118127), (879, 118220), (883, 118235), (900, 118316), (902, 118322), (905, 118334),

Gene: Legacy_52 Start: 40331, Stop: 36852, Start Num: 68

Candidate Starts for Legacy_52:

(Start: 68 @40331 has 162 MA's), (84, 40259), (Start: 89 @40232 has 6 MA's), (91, 40217), (123, 40055), (126, 40028), (128, 40022), (144, 39932), (150, 39917), (160, 39863), (161, 39860), (188, 39764), (218, 39686), (247, 39539), (257, 39500), (269, 39455), (276, 39434), (283, 39419), (304, 39377), (308, 39365), (325, 39299), (329, 39287), (343, 39224), (359, 39095), (360, 39086), (366, 39050), (381, 38966), (383, 38948), (398, 38891), (399, 38888), (401, 38876), (438, 38738), (439, 38732), (440, 38717), (442, 38711), (449, 38678), (468, 38600), (474, 38567), (512, 38426), (530, 38369), (534, 38345), (535, 38339), (546, 38270), (558, 38207), (574, 38141), (578, 38120), (583, 38102), (601, 38045), (602, 38036), (655, 37928), (657, 37919), (661, 37907), (663, 37886), (673, 37856), (678, 37829), (709, 37763), (711, 37754), (714, 37742), (747, 37655), (756, 37631), (772, 37583), (812, 37439), (832, 37364), (880, 37190), (887, 37154), (899, 37106), (908, 37073), (934, 36929),

Gene: Leo04_81 Start: 59662, Stop: 62946, Start Num: 70

Candidate Starts for Leo04_81:

(Start: 70 @59662 has 57 MA's), (79, 59707), (85, 59737), (88, 59755), (Start: 89 @59761 has 6 MA's), (146, 60040), (168, 60142), (189, 60220), (213, 60325), (225, 60388), (227, 60394), (236, 60433), (262, 60550), (304, 60634), (337, 60760), (345, 60790), (349, 60829), (350, 60838), (380, 61036), (439, 61216), (460, 61321), (461, 61327), (462, 61333), (478, 61417), (486, 61447), (502, 61489), (508, 61516), (514, 61549), (517, 61561), (534, 61624), (546, 61696), (559, 61750), (562, 61759), (564, 61768), (566, 61777), (568, 61783), (622, 62026), (638, 62095), (641, 62107), (664, 62212), (725, 62407), (736, 62440), (759, 62491), (771, 62530), (773, 62536), (791, 62602), (806, 62650), (818, 62686), (830, 62731), (832, 62740), (842, 62782), (857, 62827), (858, 62830), (864, 62845),

Gene: Leviticus_53 Start: 40239, Stop: 36760, Start Num: 68

Candidate Starts for Leviticus_53:

(2, 40500), (Start: 68 @40239 has 162 MA's), (84, 40167), (Start: 89 @40140 has 6 MA's), (91, 40125), (123, 39963), (126, 39936), (128, 39930), (144, 39840), (150, 39825), (160, 39771), (161, 39768), (188, 39672), (218, 39594), (247, 39447), (257, 39408), (269, 39363), (276, 39342), (283, 39327), (304, 39285), (308, 39273), (325, 39207), (329, 39195), (343, 39132), (359, 39003), (360, 38994), (366, 38958), (381, 38874), (383, 38856), (398, 38799), (399, 38796), (401, 38784), (438, 38646), (439, 38640), (440, 38625), (442, 38619), (449, 38586), (468, 38508), (474, 38475), (512, 38334), (530, 38277), (534, 38253), (535, 38247), (546, 38178), (558, 38115), (574, 38049), (578, 38028), (583, 38010), (601, 37953), (602, 37944), (655, 37836), (657, 37827), (661, 37815), (663, 37794), (673, 37764), (678, 37737), (709, 37671), (711, 37662), (714, 37650), (747, 37563), (756, 37539), (772, 37491), (812, 37347), (832, 37272), (880, 37098), (887, 37062), (899, 37014), (908, 36981),

Gene: Liandry_78 Start: 58566, Stop: 61850, Start Num: 70

Candidate Starts for Liandry_78:

(Start: 70 @58566 has 57 MA's), (79, 58611), (85, 58641), (88, 58659), (Start: 89 @58665 has 6 MA's), (99, 58731), (146, 58944), (149, 58950), (168, 59046), (189, 59124), (213, 59229), (225, 59292), (227, 59298), (236, 59337), (262, 59454), (310, 59553), (337, 59664), (345, 59694), (349, 59733), (387, 59976), (439, 60120), (440, 60135), (461, 60231), (462, 60237), (466, 60261), (478, 60321), (499, 60384), (502, 60393), (517, 60465), (534, 60528), (546, 60600), (559, 60654), (562, 60663), (564, 60672), (566, 60681), (568, 60687), (587, 60768), (606, 60867), (622, 60930), (638, 60999), (641, 61011), (689, 61197), (696, 61215), (725, 61311), (736, 61344), (759, 61395), (771, 61434), (773, 61440), (791, 61506), (800, 61536), (806, 61554), (818, 61590), (830, 61635), (832, 61644), (837, 61665), (842, 61686), (858, 61734), (864, 61749),

Gene: LifeSavor_208 Start: 112809, Stop: 116297, Start Num: 26

Candidate Starts for LifeSavor_208:

(Start: 26 @112809 has 44 MA's), (Start: 28 @112815 has 6 MA's), (Start: 32 @112827 has 8 MA's), (37, 112836), (Start: 68 @112902 has 162 MA's), (84, 112977), (103, 113091), (109, 113115), (127, 113175), (151, 113286), (157, 113325), (164, 113349), (173, 113391), (203, 113490), (214, 113532), (216, 113538), (219, 113550), (229, 113613), (242, 113673), (243, 113676), (250, 113703), (261, 113745), (279, 113808), (330, 113964), (335, 113982), (338, 113997), (351, 114114), (357, 114153), (372, 114273), (380, 114315), (389, 114360), (391, 114369), (402, 114420), (414, 114462), (432, 114528), (434, 114537), (435, 114540), (436, 114546), (437, 114549), (438, 114558), (439, 114564), (440, 114579), (462, 114666), (483, 114771), (495, 114825), (510, 114912), (516, 114942), (526, 114972), (533, 115005), (535, 115014), (546, 115086), (552, 115116), (577, 115233), (589, 115278), (601, 115320), (660, 115464), (675, 115524), (715, 115626), (750, 115713), (751, 115716), (761, 115734), (771, 115770), (772, 115773), (793, 115833), (798, 115851), (827, 115947), (836, 115977), (839, 115995), (846, 116025), (879, 116118), (883, 116133), (900, 116214), (902, 116220), (905, 116232),

Gene: Lika_54 Start: 41758, Stop: 38282, Start Num: 73

Candidate Starts for Lika_54:

(Start: 73 @41758 has 88 MA's), (84, 41689), (Start: 89 @41662 has 6 MA's), (91, 41647), (92, 41629), (104, 41572), (105, 41566), (123, 41485), (126, 41458), (128, 41452), (135, 41416), (141, 41380), (161, 41290), (188, 41194), (218, 41116), (247, 40969), (257, 40930), (266, 40903), (269, 40885), (276, 40864), (283, 40849), (325, 40729), (329, 40717), (358, 40531), (359, 40525), (366, 40480), (381, 40396), (383, 40378), (398, 40321), (399, 40318), (401, 40306), (438, 40168), (439, 40162), (440, 40147), (442, 40141), (449, 40108), (451, 40102), (468, 40030), (474, 39997), (512, 39856), (534, 39775), (535, 39769), (546, 39700), (558, 39637), (564, 39616), (574, 39571), (583, 39532), (601, 39475), (602, 39466), (655, 39358), (661, 39337), (663, 39316), (673, 39286), (678, 39259), (709, 39193), (711, 39184), (714, 39172), (747, 39085), (756, 39061), (812, 38869), (835, 38785), (840, 38758), (880, 38620), (883, 38611), (887, 38584), (899, 38536), (900, 38530), (906, 38509), (908, 38503), (931, 38398), (934, 38359), (936, 38353), (943, 38296),

Gene: LilMartin_77 Start: 57396, Stop: 60680, Start Num: 70

Candidate Starts for LilMartin_77:

(33, 57312), (43, 57339), (Start: 70 @57396 has 57 MA's), (79, 57441), (85, 57471), (88, 57489), (Start: 89 @57495 has 6 MA's), (146, 57774), (168, 57876), (189, 57954), (190, 57966), (213, 58059), (225, 58122), (227, 58128), (236, 58167), (262, 58284), (279, 58323), (310, 58383), (337, 58494), (345, 58524), (355, 58602), (383, 58791), (389, 58815), (394, 58836), (439, 58950), (440, 58965), (460, 59055), (461, 59061), (462, 59067), (466, 59091), (467, 59094), (478, 59151), (487, 59184), (499, 59214), (502, 59223), (517, 59295), (521, 59304), (534, 59358), (546, 59430), (559, 59484), (562, 59493), (564, 59502), (566, 59511), (568, 59517), (587, 59598), (622, 59760), (638, 59829), (641, 59841), (670, 59955), (757, 60216), (759, 60225), (791, 60336), (806, 60384), (830, 60465), (842, 60516), (858, 60564), (864, 60579),

Gene: Lila22_83 Start: 52511, Stop: 55756, Start Num: 89

Candidate Starts for Lila22_83:

(47, 52367), (Start: 73 @52415 has 88 MA's), (Start: 82 @52475 has 1 MA's), (Start: 89 @52511 has 6 MA's), (93, 52556), (103, 52598), (166, 52859), (194, 52961), (205, 52994), (224, 53090), (288, 53360), (289, 53369), (316, 53477), (324, 53522), (335, 53564), (356, 53696), (357, 53699), (358, 53729), (361, 53750), (372, 53819), (382, 53873), (404, 53972), (412, 53987), (429, 54029), (466, 54203), (472, 54236), (476, 54254), (481, 54272), (494, 54317), (495, 54320), (524, 54416), (534, 54458), (536, 54470), (541, 54506), (582, 54686), (596, 54728), (603, 54764), (643, 54818), (651, 54836), (669, 54932), (671, 54944), (739, 55139), (798, 55223), (827, 55328), (831, 55343), (840, 55379), (844, 55391), (845, 55397), (846, 55400), (855, 55427), (873, 55472), (893, 55580), (906, 55625), (912, 55649), (922, 55685),

Gene: Limpid_57 Start: 47705, Stop: 50995, Start Num: 70

Candidate Starts for Limpid_57:

(Start: 70 @47705 has 57 MA's), (85, 47777), (88, 47795), (Start: 89 @47801 has 6 MA's), (146, 48080), (159, 48140), (213, 48365), (225, 48428), (231, 48455), (234, 48470), (236, 48473), (337, 48800), (434, 49229), (439, 49256), (448, 49310), (461, 49367), (462, 49373), (502, 49529), (508, 49556), (517, 49601), (534, 49664), (544, 49733), (546, 49736), (559, 49790), (562, 49799), (564, 49808), (566, 49817), (568, 49823), (598, 49937), (608, 50015), (619, 50039), (626, 50075), (638, 50135), (640, 50141), (665, 50258), (686, 50327), (727, 50456), (731, 50468), (758, 50525), (759, 50531), (791, 50642), (793, 50651), (800, 50672), (811, 50702), (818, 50726), (820, 50735), (842, 50822), (861, 50873), (864, 50885), (888, 50972),

Gene: LinStu_208 Start: 113041, Stop: 116511, Start Num: 32

Candidate Starts for LinStu_208:

(Start: 26 @113023 has 44 MA's), (Start: 28 @113029 has 6 MA's), (Start: 32 @113041 has 8 MA's), (37, 113050), (Start: 68 @113116 has 162 MA's), (84, 113191), (103, 113305), (109, 113329), (127, 113389), (151, 113500), (157, 113539), (164, 113563), (173, 113605), (203, 113704), (214, 113746), (216, 113752), (219, 113764), (229, 113827), (242, 113887), (243, 113890), (250, 113917), (261, 113959), (279, 114022), (321, 114142), (330, 114178), (335, 114196), (338, 114211), (351, 114328), (357, 114367), (372, 114487), (380, 114529), (389, 114574), (391, 114583), (402, 114634), (414, 114676), (432, 114742), (434, 114751), (435, 114754), (436, 114760), (437, 114763), (438, 114772), (439, 114778), (440, 114793), (462, 114880), (483, 114985), (495, 115039), (510, 115126), (516, 115156), (526, 115186), (533, 115219), (535, 115228), (546, 115300), (552, 115330), (577, 115447), (589, 115492), (601, 115534), (660, 115678), (675, 115738), (715, 115840), (750, 115927), (751, 115930), (761, 115948), (771, 115984), (772, 115987), (793, 116047), (798, 116065), (827, 116161), (836, 116191), (839, 116209), (846, 116239), (879, 116332), (883, 116347), (900, 116428), (902, 116434), (905, 116446),

Gene: Littleton_212 Start: 113521, Stop: 117009, Start Num: 26

Candidate Starts for Littleton_212:

(Start: 26 @113521 has 44 MA's), (Start: 28 @113527 has 6 MA's), (Start: 32 @113539 has 8 MA's), (37, 113548), (Start: 68 @113614 has 162 MA's), (84, 113689), (103, 113803), (109, 113827), (127, 113887), (151, 113998), (157, 114037), (164, 114061), (173, 114103), (203, 114202), (214, 114244), (216, 114250), (219, 114262), (229, 114325), (242, 114385), (243, 114388), (250, 114415), (261, 114457), (279, 114520), (321, 114640), (330, 114676), (335, 114694), (338, 114709), (351, 114826), (357, 114865), (372, 114985), (380, 115027), (389, 115072), (391, 115081), (402, 115132), (414, 115174), (432, 115240), (434, 115249), (435, 115252), (436, 115258), (437, 115261), (438, 115270), (439, 115276), (440, 115291), (462, 115378), (483, 115483), (495, 115537), (510, 115624), (516, 115654), (526, 115684), (533, 115717), (535, 115726), (546, 115798), (552, 115828), (577, 115945), (589, 115990), (601, 116032), (660, 116176), (675, 116236), (715, 116338), (750, 116425), (751, 116428), (761, 116446), (771, 116482), (772, 116485), (793, 116545), (798, 116563), (827, 116659), (836, 116689), (839, 116707), (846, 116737), (879, 116830), (883, 116845), (900, 116926), (902, 116932), (905, 116944),

Gene: Lizz_51 Start: 38864, Stop: 35667, Start Num: 73

Candidate Starts for Lizz_51:

(38, 38945), (62, 38885), (Start: 73 @38864 has 88 MA's), (74, 38855), (79, 38822), (Start: 89 @38768 has 6 MA's), (96, 38714), (101, 38690), (114, 38645), (116, 38636), (118, 38627), (124, 38597), (130, 38564), (144, 38486), (148, 38474), (159, 38420), (160, 38417), (189, 38333), (224, 38177), (233, 38135), (246, 38072), (247, 38069), (273, 37964), (277, 37955), (293, 37913), (298, 37898), (303, 37883), (335, 37757), (349, 37676), (354, 37640), (356, 37625), (357, 37622), (368, 37529), (383, 37439), (440, 37232), (447, 37199), (459, 37148), (472, 37076), (473, 37070), (481, 37040), (489, 37010), (513, 36929), (519, 36914), (542, 36800), (573, 36665), (637, 36521), (639, 36509), (643, 36497), (651, 36479), (667, 36386), (699, 36281), (790, 36170), (795, 36146), (827, 36029), (881, 35858), (884, 35846), (887, 35825), (905, 35747), (907, 35741), (916, 35705), (920, 35690),

Gene: Loanshark_206 Start: 112939, Stop: 116334, Start Num: 68

Candidate Starts for Loanshark_206:

(Start: 26 @112846 has 44 MA's), (Start: 28 @112852 has 6 MA's), (Start: 32 @112864 has 8 MA's), (37, 112873), (Start: 68 @112939 has 162 MA's), (84, 113014), (103, 113128), (109, 113152), (127, 113212), (151, 113323), (157, 113362), (164, 113386), (173, 113428), (203, 113527), (214, 113569), (216, 113575), (219, 113587), (229, 113650), (242, 113710), (243, 113713), (250, 113740), (261, 113782), (279, 113845), (321, 113965), (330, 114001), (335, 114019), (338, 114034), (351, 114151), (357, 114190), (372, 114310), (380, 114352), (389, 114397), (391, 114406), (402, 114457), (414, 114499), (432, 114565), (434, 114574), (435, 114577), (436, 114583), (437, 114586), (438, 114595), (439, 114601), (440, 114616), (462, 114703), (483, 114808), (495, 114862), (510, 114949), (516, 114979), (526, 115009), (533, 115042), (535, 115051), (546, 115123), (552, 115153), (577, 115270), (589, 115315), (601, 115357), (660, 115501), (675, 115561), (715, 115663), (750, 115750), (751, 115753), (761, 115771), (771, 115807), (772, 115810), (793, 115870), (798, 115888), (827, 115984), (836, 116014), (839, 116032), (846, 116062), (879, 116155), (883, 116170), (900, 116251), (902, 116257), (905, 116269),

Gene: LolaVince_207 Start: 114169, Stop: 117564, Start Num: 68

Candidate Starts for LolaVince_207:

(Start: 26 @114076 has 44 MA's), (Start: 28 @114082 has 6 MA's), (Start: 32 @114094 has 8 MA's), (37, 114103), (Start: 68 @114169 has 162 MA's), (84, 114244), (103, 114358), (109, 114382), (127, 114442), (151, 114553), (157, 114592), (164, 114616), (173, 114658), (203, 114757), (214, 114799), (216, 114805), (219, 114817), (229, 114880), (242, 114940), (243, 114943), (250, 114970), (261, 115012), (279, 115075), (330, 115231), (335, 115249), (338, 115264), (351, 115381), (357, 115420), (372, 115540), (380, 115582), (389, 115627), (391, 115636), (402, 115687), (414, 115729), (432, 115795), (434, 115804), (435, 115807), (436, 115813), (437, 115816), (438, 115825), (439, 115831),

(440, 115846), (462, 115933), (483, 116038), (495, 116092), (510, 116179), (516, 116209), (526, 116239), (533, 116272), (535, 116281), (546, 116353), (552, 116383), (577, 116500), (589, 116545), (601, 116587), (660, 116731), (675, 116791), (715, 116893), (750, 116980), (751, 116983), (761, 117001), (771, 117037), (772, 117040), (793, 117100), (798, 117118), (827, 117214), (836, 117244), (839, 117262), (846, 117292), (879, 117385), (883, 117400), (900, 117481), (902, 117487), (905, 117499),

Gene: Lollipop1437_64 Start: 49866, Stop: 46552, Start Num: 73

Candidate Starts for Lollipop1437_64:

(Start: 73 @49866 has 88 MA's), (Start: 89 @49770 has 6 MA's), (128, 49617), (130, 49608), (155, 49485), (194, 49326), (197, 49320), (225, 49188), (252, 49077), (271, 48996), (292, 48951), (335, 48780), (343, 48738), (354, 48660), (356, 48645), (376, 48507), (431, 48309), (450, 48207), (466, 48141), (476, 48090), (481, 48072), (494, 48027), (549, 47784), (558, 47742), (559, 47739), (561, 47733), (565, 47715), (590, 47619), (596, 47601), (603, 47565), (665, 47421), (669, 47412), (674, 47388), (682, 47361), (695, 47337), (735, 47208), (769, 47118), (772, 47109), (790, 47058), (794, 47037), (801, 47016), (845, 46860), (850, 46845), (898, 46665), (916, 46596),

Gene: LordLeafolot_211 Start: 113782, Stop: 117177, Start Num: 68

Candidate Starts for LordLeafolot_211:

(Start: 26 @113689 has 44 MA's), (Start: 28 @113695 has 6 MA's), (Start: 32 @113707 has 8 MA's), (37, 113716), (Start: 68 @113782 has 162 MA's), (84, 113857), (103, 113971), (109, 113995), (127, 114055), (151, 114166), (157, 114205), (164, 114229), (173, 114271), (203, 114370), (214, 114412), (216, 114418), (219, 114430), (229, 114493), (242, 114553), (243, 114556), (250, 114583), (261, 114625), (279, 114688), (330, 114844), (335, 114862), (338, 114877), (351, 114994), (357, 115033), (372, 115153), (380, 115195), (389, 115240), (391, 115249), (402, 115300), (414, 115342), (432, 115408), (434, 115417), (435, 115420), (436, 115426), (437, 115429), (438, 115438), (439, 115444), (440, 115459), (462, 115546), (483, 115651), (495, 115705), (510, 115792), (516, 115822), (526, 115852), (533, 115885), (535, 115894), (546, 115966), (552, 115996), (577, 116113), (589, 116158), (601, 116200), (660, 116344), (675, 116404), (715, 116506), (750, 116593), (751, 116596), (761, 116614), (771, 116650), (772, 116653), (793, 116713), (798, 116731), (827, 116827), (836, 116857), (839, 116875), (846, 116905), (879, 116998), (883, 117013), (900, 117094), (902, 117100), (905, 117112),

Gene: Lorelei_55 Start: 41564, Stop: 38013, Start Num: 36

Candidate Starts for Lorelei_55:

(Start: 36 @41564 has 1 MA's), (Start: 68 @41495 has 162 MA's), (Start: 82 @41432 has 1 MA's), (84, 41423), (91, 41381), (107, 41288), (123, 41219), (135, 41150), (144, 41096), (161, 41024), (168, 40988), (188, 40928), (218, 40850), (247, 40703), (257, 40664), (266, 40637), (269, 40619), (276, 40598), (283, 40583), (325, 40463), (329, 40451), (358, 40265), (359, 40259), (366, 40214), (381, 40130), (383, 40112), (398, 40055), (399, 40052), (401, 40040), (438, 39902), (439, 39896), (440, 39881), (442, 39875), (449, 39842), (468, 39764), (474, 39731), (508, 39614), (512, 39590), (534, 39509), (535, 39503), (546, 39434), (558, 39371), (564, 39350), (574, 39305), (583, 39266), (601, 39209), (602, 39200), (655, 39092), (661, 39071), (663, 39050), (673, 39020), (678, 38993), (709, 38927), (711, 38918), (714, 38906), (747, 38819), (756, 38795), (785, 38699), (812, 38603), (835, 38519), (840, 38492), (880, 38354), (883, 38345), (887, 38318), (899, 38270), (900, 38264), (906, 38243), (908, 38237), (931, 38132), (933, 38105), (934, 38093),

Gene: LuckyLeo_75 Start: 51198, Stop: 54536, Start Num: 73

Candidate Starts for LuckyLeo_75:

(Start: 73 @51198 has 88 MA's), (Start: 82 @51258 has 1 MA's), (85, 51270), (Start: 89 @51294 has 6 MA's), (103, 51381), (205, 51777), (224, 51873), (250, 51996), (288, 52143), (289, 52152), (295, 52185), (303, 52221), (316, 52263), (324, 52308), (335, 52350), (356, 52482), (357, 52485), (358, 52515), (366, 52566), (370, 52587), (372, 52605), (383, 52668), (404, 52758), (412, 52773), (417,

52794), (466, 52989), (472, 53022), (476, 53040), (494, 53103), (495, 53106), (513, 53169), (524, 53202), (534, 53244), (536, 53256), (541, 53292), (568, 53406), (582, 53472), (591, 53499), (596, 53514), (603, 53550), (643, 53604), (651, 53622), (669, 53718), (674, 53742), (701, 53814), (802, 54018), (831, 54129), (836, 54144), (840, 54165), (844, 54177), (845, 54183), (846, 54186), (855, 54213), (873, 54258), (893, 54366), (904, 54405), (906, 54411), (912, 54435), (916, 54450), (918, 54456), (922, 54471),

Gene: LukeCage_81 Start: 58309, Stop: 61629, Start Num: 69

Candidate Starts for LukeCage_81:

(Start: 69 @58309 has 26 MA's), (80, 58360), (85, 58381), (Start: 89 @58405 has 6 MA's), (102, 58486), (146, 58684), (189, 58864), (200, 58912), (202, 58915), (213, 58969), (223, 59020), (225, 59038), (228, 59047), (236, 59083), (262, 59200), (337, 59410), (349, 59479), (387, 59722), (394, 59752), (438, 59884), (462, 60007), (478, 60091), (502, 60163), (546, 60367), (559, 60421), (562, 60430), (566, 60448), (568, 60454), (608, 60646), (619, 60670), (622, 60697), (648, 60805), (670, 60904), (678, 60949), (693, 60982), (696, 60994), (722, 61072), (732, 61114), (740, 61132), (759, 61174), (771, 61213), (773, 61219), (783, 61246), (791, 61285), (806, 61333), (809, 61342), (830, 61414), (833, 61426), (836, 61435), (841, 61462), (842, 61465), (857, 61510), (858, 61513), (876, 61567), (882, 61582),

Gene: Lukilu_200 Start: 113716, Stop: 117234, Start Num: 18

Candidate Starts for Lukilu_200:

(Start: 18 @113716 has 4 MA's), (Start: 26 @113746 has 44 MA's), (Start: 28 @113752 has 6 MA's), (Start: 32 @113764 has 8 MA's), (37, 113773), (Start: 68 @113839 has 162 MA's), (84, 113914), (103, 114028), (109, 114052), (127, 114112), (151, 114223), (157, 114262), (164, 114286), (173, 114328), (203, 114427), (214, 114469), (216, 114475), (219, 114487), (229, 114550), (242, 114610), (243, 114613), (250, 114640), (261, 114682), (279, 114745), (321, 114865), (330, 114901), (335, 114919), (338, 114934), (351, 115051), (357, 115090), (372, 115210), (380, 115252), (389, 115297), (391, 115306), (402, 115357), (414, 115399), (432, 115465), (434, 115474), (435, 115477), (436, 115483), (437, 115486), (438, 115495), (439, 115501), (440, 115516), (462, 115603), (483, 115708), (495, 115762), (510, 115849), (516, 115879), (526, 115909), (533, 115942), (535, 115951), (546, 116023), (552, 116053), (577, 116170), (589, 116215), (601, 116257), (660, 116401), (675, 116461), (715, 116563), (750, 116650), (751, 116653), (761, 116671), (771, 116707), (772, 116710), (793, 116770), (798, 116788), (827, 116884), (836, 116914), (839, 116932), (846, 116962), (879, 117055), (883, 117070), (900, 117151), (902, 117157), (905, 117169),

Gene: Lululemon_81 Start: 58543, Stop: 61827, Start Num: 70

Candidate Starts for Lululemon_81:

(Start: 70 @58543 has 57 MA's), (79, 58588), (85, 58618), (88, 58636), (Start: 89 @58642 has 6 MA's), (146, 58921), (168, 59023), (189, 59101), (213, 59206), (225, 59269), (227, 59275), (236, 59314), (262, 59431), (304, 59515), (337, 59641), (345, 59671), (349, 59710), (350, 59719), (380, 59917), (439, 60097), (460, 60202), (461, 60208), (462, 60214), (478, 60298), (486, 60328), (502, 60370), (508, 60397), (514, 60430), (517, 60442), (534, 60505), (546, 60577), (559, 60631), (562, 60640), (564, 60649), (566, 60658), (568, 60664), (622, 60907), (638, 60976), (641, 60988), (664, 61093), (725, 61288), (736, 61321), (759, 61372), (771, 61411), (773, 61417), (791, 61483), (806, 61531), (818, 61567), (830, 61612), (832, 61621), (842, 61663), (857, 61708), (858, 61711), (864, 61726),

Gene: Maby2021_209 Start: 114068, Stop: 117463, Start Num: 68

Candidate Starts for Maby2021_209:

(Start: 26 @113975 has 44 MA's), (Start: 28 @113981 has 6 MA's), (Start: 32 @113993 has 8 MA's), (37, 114002), (Start: 68 @114068 has 162 MA's), (84, 114143), (103, 114257), (109, 114281), (127, 114341), (151, 114452), (157, 114491), (164, 114515), (173, 114557), (203, 114656), (214, 114698), (216, 114704), (219, 114716), (229, 114779), (242, 114839), (243, 114842), (250, 114869), (261,

114911), (279, 114974), (330, 115130), (335, 115148), (338, 115163), (351, 115280), (357, 115319), (372, 115439), (380, 115481), (389, 115526), (391, 115535), (402, 115586), (414, 115628), (432, 115694), (434, 115703), (435, 115706), (436, 115712), (437, 115715), (438, 115724), (439, 115730), (440, 115745), (462, 115832), (483, 115937), (495, 115991), (510, 116078), (516, 116108), (526, 116138), (533, 116171), (535, 116180), (546, 116252), (552, 116282), (577, 116399), (589, 116444), (601, 116486), (660, 116630), (675, 116690), (715, 116792), (750, 116879), (751, 116882), (761, 116900), (771, 116936), (772, 116939), (793, 116999), (798, 117017), (827, 117113), (836, 117143), (839, 117161), (846, 117191), (879, 117284), (883, 117299), (900, 117380), (902, 117386), (905, 117398),

Gene: Madruga_89 Start: 57366, Stop: 60599, Start Num: 73

Candidate Starts for Madruga_89:

(Start: 57 @57339 has 1 MA's), (Start: 73 @57366 has 88 MA's), (Start: 89 @57462 has 6 MA's), (130, 57627), (154, 57741), (165, 57786), (172, 57825), (188, 57876), (224, 58041), (351, 58539), (356, 58584), (359, 58623), (397, 58827), (419, 58908), (438, 58968), (446, 59019), (466, 59115), (468, 59124), (472, 59148), (473, 59154), (481, 59184), (482, 59190), (514, 59322), (515, 59325), (519, 59334), (531, 59376), (534, 59394), (559, 59526), (651, 59772), (681, 59922), (704, 59979), (720, 60021), (730, 60045), (798, 60114), (844, 60282), (875, 60372), (886, 60444), (904, 60519),

Gene: Maneekul_54 Start: 42498, Stop: 39013, Start Num: 68

Candidate Starts for Maneekul_54:

(Start: 68 @42498 has 162 MA's), (Start: 82 @42435 has 1 MA's), (84, 42426), (91, 42384), (107, 42291), (123, 42222), (135, 42153), (144, 42099), (161, 42027), (168, 41991), (188, 41931), (247, 41706), (257, 41667), (266, 41640), (269, 41622), (276, 41601), (283, 41586), (304, 41544), (325, 41466), (329, 41454), (358, 41268), (359, 41262), (366, 41217), (381, 41133), (383, 41115), (398, 41058), (399, 41055), (401, 41043), (425, 40971), (438, 40905), (439, 40899), (440, 40884), (442, 40878), (449, 40845), (468, 40767), (474, 40734), (512, 40593), (534, 40512), (535, 40506), (546, 40437), (558, 40374), (564, 40353), (574, 40308), (601, 40212), (602, 40203), (604, 40197), (655, 40095), (657, 40086), (661, 40074), (663, 40053), (673, 40023), (678, 39996), (709, 39930), (711, 39921), (714, 39909), (747, 39822), (796, 39654), (812, 39606), (840, 39495), (880, 39357), (883, 39348), (887, 39321), (899, 39273), (908, 39240), (914, 39213), (933, 39108), (934, 39096),

Gene: Mangeria_210 Start: 114077, Stop: 117565, Start Num: 26

Candidate Starts for Mangeria_210:

(Start: 26 @114077 has 44 MA's), (Start: 28 @114083 has 6 MA's), (Start: 32 @114095 has 8 MA's), (37, 114104), (Start: 68 @114170 has 162 MA's), (84, 114245), (103, 114359), (109, 114383), (127, 114443), (151, 114554), (157, 114593), (164, 114617), (173, 114659), (203, 114758), (214, 114800), (216, 114806), (219, 114818), (229, 114881), (242, 114941), (243, 114944), (250, 114971), (261, 115013), (279, 115076), (330, 115232), (335, 115250), (338, 115265), (351, 115382), (357, 115421), (372, 115541), (380, 115583), (389, 115628), (391, 115637), (402, 115688), (414, 115730), (432, 115796), (434, 115805), (435, 115808), (436, 115814), (437, 115817), (438, 115826), (439, 115832), (440, 115847), (462, 115934), (483, 116039), (495, 116093), (510, 116180), (516, 116210), (526, 116240), (533, 116273), (535, 116282), (546, 116354), (552, 116384), (577, 116501), (589, 116546), (601, 116588), (660, 116732), (675, 116792), (715, 116894), (750, 116981), (751, 116984), (761, 117002), (771, 117038), (772, 117041), (793, 117101), (798, 117119), (827, 117215), (836, 117245), (839, 117263), (846, 117293), (879, 117386), (883, 117401), (900, 117482), (902, 117488), (905, 117500),

Gene: Marietta_61 Start: 45676, Stop: 42425, Start Num: 73

Candidate Starts for Marietta_61:

(5, 45904), (Start: 73 @45676 has 88 MA's), (86, 45595), (Start: 89 @45580 has 6 MA's), (93, 45535), (128, 45427), (130, 45418), (165, 45253), (197, 45130), (210, 45079), (218, 45052), (225, 44998), (232, 44968), (278, 44785), (292, 44761), (320, 44653), (338, 44575), (343, 44548), (354, 44470),

(356, 44455), (376, 44317), (431, 44119), (433, 44113), (438, 44086), (448, 44026), (466, 43951), (472, 43918), (481, 43882), (502, 43825), (515, 43762), (549, 43597), (550, 43594), (558, 43555), (559, 43552), (561, 43546), (563, 43537), (565, 43528), (590, 43432), (596, 43414), (603, 43378), (668, 43228), (682, 43174), (735, 43078), (769, 42994), (772, 42985), (790, 42934), (814, 42844), (841, 42748), (842, 42745), (892, 42562), (925, 42439),

Gene: Maselop_59 Start: 45784, Stop: 42368, Start Num: 73

Candidate Starts for Maselop_59:

(Start: 73 @45784 has 88 MA's), (86, 45703), (Start: 89 @45688 has 6 MA's), (107, 45580), (110, 45574), (130, 45526), (145, 45445), (155, 45403), (209, 45193), (212, 45178), (216, 45169), (221, 45145), (224, 45115), (232, 45076), (252, 44995), (262, 44953), (297, 44818), (325, 44704), (338, 44653), (340, 44635), (343, 44626), (354, 44548), (356, 44533), (359, 44494), (366, 44455), (382, 44362), (393, 44311), (395, 44305), (402, 44266), (439, 44161), (440, 44146), (441, 44143), (466, 44029), (467, 44026), (472, 43996), (476, 43978), (477, 43975), (478, 43969), (479, 43966), (488, 43933), (494, 43912), (536, 43744), (550, 43666), (558, 43627), (559, 43624), (561, 43618), (565, 43600), (590, 43504), (596, 43486), (603, 43450), (651, 43378), (669, 43285), (671, 43273), (688, 43210), (707, 43153), (746, 43024), (756, 42994), (775, 42934), (777, 42931), (790, 42877), (814, 42787), (824, 42751), (837, 42706), (841, 42691), (853, 42649), (872, 42604), (884, 42550), (885, 42541), (887, 42529), (889, 42523), (892, 42505), (904, 42454), (905, 42451), (916, 42409),

Gene: Matsumoto_208 Start: 112819, Stop: 116214, Start Num: 68

Candidate Starts for Matsumoto_208:

(Start: 26 @112726 has 44 MA's), (Start: 28 @112732 has 6 MA's), (Start: 32 @112744 has 8 MA's), (37, 112753), (Start: 68 @112819 has 162 MA's), (84, 112894), (103, 113008), (109, 113032), (127, 113092), (151, 113203), (157, 113242), (164, 113266), (173, 113308), (203, 113407), (214, 113449), (216, 113455), (219, 113467), (229, 113530), (242, 113590), (243, 113593), (250, 113620), (261, 113662), (279, 113725), (321, 113845), (330, 113881), (335, 113899), (338, 113914), (351, 114031), (357, 114070), (372, 114190), (380, 114232), (389, 114277), (391, 114286), (402, 114337), (414, 114379), (432, 114445), (434, 114454), (435, 114457), (436, 114463), (437, 114466), (438, 114475), (439, 114481), (440, 114496), (462, 114583), (483, 114688), (495, 114742), (510, 114829), (516, 114859), (526, 114889), (533, 114922), (535, 114931), (546, 115003), (552, 115033), (577, 115150), (589, 115195), (601, 115237), (660, 115381), (675, 115441), (715, 115543), (750, 115630), (751, 115633), (761, 115651), (771, 115687), (772, 115690), (793, 115750), (798, 115768), (827, 115864), (836, 115894), (839, 115912), (846, 115942), (879, 116035), (883, 116050), (900, 116131), (902, 116137), (905, 116149),

Gene: McGee_208 Start: 111920, Stop: 115408, Start Num: 26

Candidate Starts for McGee_208:

(Start: 26 @111920 has 44 MA's), (Start: 28 @111926 has 6 MA's), (Start: 32 @111938 has 8 MA's), (37, 111947), (Start: 68 @112013 has 162 MA's), (84, 112088), (103, 112202), (109, 112226), (127, 112286), (151, 112397), (157, 112436), (164, 112460), (173, 112502), (203, 112601), (214, 112643), (216, 112649), (219, 112661), (229, 112724), (242, 112784), (243, 112787), (250, 112814), (261, 112856), (279, 112919), (321, 113039), (330, 113075), (335, 113093), (338, 113108), (351, 113225), (357, 113264), (372, 113384), (380, 113426), (389, 113471), (391, 113480), (402, 113531), (414, 113573), (432, 113639), (434, 113648), (435, 113651), (436, 113657), (437, 113660), (438, 113669), (439, 113675), (440, 113690), (462, 113777), (483, 113882), (495, 113936), (510, 114023), (516, 114053), (526, 114083), (533, 114116), (535, 114125), (546, 114197), (552, 114227), (577, 114344), (589, 114389), (601, 114431), (660, 114575), (675, 114635), (715, 114737), (750, 114824), (751, 114827), (761, 114845), (771, 114881), (772, 114884), (793, 114944), (798, 114962), (827, 115058), (836, 115088), (839, 115106), (846, 115136), (879, 115229), (883, 115244), (900, 115325), (902, 115331), (905, 115343),

Gene: McWolfish_206 Start: 112835, Stop: 116230, Start Num: 68

Candidate Starts for McWolfish_206:

(Start: 26 @112742 has 44 MA's), (Start: 28 @112748 has 6 MA's), (Start: 32 @112760 has 8 MA's), (37, 112769), (Start: 68 @112835 has 162 MA's), (84, 112910), (103, 113024), (109, 113048), (127, 113108), (151, 113219), (157, 113258), (164, 113282), (173, 113324), (203, 113423), (214, 113465), (216, 113471), (219, 113483), (229, 113546), (242, 113606), (243, 113609), (250, 113636), (261, 113678), (279, 113741), (321, 113861), (330, 113897), (335, 113915), (338, 113930), (351, 114047), (357, 114086), (372, 114206), (380, 114248), (389, 114293), (391, 114302), (402, 114353), (414, 114395), (432, 114461), (434, 114470), (435, 114473), (436, 114479), (437, 114482), (438, 114491), (439, 114497), (440, 114512), (462, 114599), (483, 114704), (495, 114758), (510, 114845), (516, 114875), (526, 114905), (533, 114938), (535, 114947), (546, 115019), (552, 115049), (577, 115166), (589, 115211), (601, 115253), (660, 115397), (675, 115457), (715, 115559), (750, 115646), (751, 115649), (761, 115667), (771, 115703), (772, 115706), (793, 115766), (798, 115784), (827, 115880), (836, 115910), (839, 115928), (846, 115958), (879, 116051), (883, 116066), (900, 116147), (902, 116153), (905, 116165),

Gene: Megamind_206 Start: 113033, Stop: 116521, Start Num: 26

Candidate Starts for Megamind_206:

(Start: 26 @113033 has 44 MA's), (Start: 28 @113039 has 6 MA's), (Start: 32 @113051 has 8 MA's), (37, 113060), (Start: 68 @113126 has 162 MA's), (84, 113201), (103, 113315), (109, 113339), (127, 113399), (151, 113510), (157, 113549), (164, 113573), (173, 113615), (203, 113714), (214, 113756), (216, 113762), (219, 113774), (229, 113837), (242, 113897), (243, 113900), (250, 113927), (261, 113969), (279, 114032), (321, 114152), (330, 114188), (335, 114206), (338, 114221), (351, 114338), (357, 114377), (372, 114497), (380, 114539), (389, 114584), (391, 114593), (402, 114644), (414, 114686), (432, 114752), (434, 114761), (435, 114764), (436, 114770), (437, 114773), (438, 114782), (439, 114788), (440, 114803), (462, 114890), (483, 114995), (495, 115049), (510, 115136), (516, 115166), (526, 115196), (533, 115229), (535, 115238), (546, 115310), (552, 115340), (577, 115457), (589, 115502), (601, 115544), (660, 115688), (675, 115748), (715, 115850), (750, 115937), (751, 115940), (761, 115958), (771, 115994), (772, 115997), (793, 116057), (798, 116075), (827, 116171), (836, 116201), (839, 116219), (846, 116249), (879, 116342), (883, 116357), (900, 116438), (902, 116444), (905, 116456),

Gene: MeganTheeKilla_59 Start: 47958, Stop: 51248, Start Num: 70

Candidate Starts for MeganTheeKilla_59:

(Start: 70 @47958 has 57 MA's), (75, 47973), (76, 47979), (85, 48030), (Start: 89 @48054 has 6 MA's), (129, 48243), (146, 48333), (159, 48393), (189, 48513), (213, 48618), (225, 48681), (227, 48687), (236, 48726), (323, 48999), (337, 49053), (345, 49083), (349, 49122), (356, 49170), (431, 49470), (439, 49509), (460, 49614), (461, 49620), (462, 49626), (468, 49659), (471, 49674), (474, 49692), (477, 49704), (478, 49710), (487, 49743), (499, 49773), (502, 49782), (516, 49848), (517, 49854), (521, 49863), (534, 49917), (546, 49989), (559, 50043), (562, 50052), (566, 50070), (568, 50076), (598, 50190), (606, 50256), (608, 50268), (626, 50328), (627, 50331), (640, 50394), (641, 50400), (644, 50406), (665, 50511), (678, 50559), (679, 50562), (706, 50631), (725, 50700), (727, 50709), (758, 50778), (759, 50784), (764, 50796), (773, 50829), (775, 50832), (791, 50895), (793, 50904), (800, 50925), (804, 50937), (818, 50979), (842, 51075), (852, 51111), (857, 51120), (864, 51138), (891, 51234),

Gene: Megatron06_78 Start: 56087, Stop: 59383, Start Num: 73

Candidate Starts for Megatron06_78:

(Start: 53 @56060 has 1 MA's), (Start: 73 @56087 has 88 MA's), (85, 56159), (Start: 89 @56183 has 6 MA's), (92, 56216), (130, 56351), (150, 56444), (153, 56462), (165, 56510), (179, 56570), (224, 56762), (284, 56996), (299, 57053), (323, 57152), (331, 57179), (338, 57209), (351, 57287), (356, 57332), (359, 57371), (365, 57413), (378, 57491), (382, 57509), (386, 57527), (388, 57539), (408, 57614), (441, 57770), (459, 57854), (473, 57932), (478, 57953), (481, 57962), (482, 57968), (485, 57977), (504, 58049), (507, 58064), (514, 58103), (519, 58115), (539, 58208), (540, 58214), (550,

58262), (559, 58304), (599, 58454), (601, 58466), (651, 58550), (677, 58691), (720, 58796), (795, 58895), (797, 58904), (820, 58982), (830, 59021), (834, 59036), (846, 59084), (877, 59180), (882, 59198), (886, 59225), (898, 59273), (905, 59303), (906, 59306), (910, 59321), (918, 59351), (920, 59360), (922, 59366), (923, 59369),

Gene: Melpomini_204 Start: 111911, Stop: 115306, Start Num: 68

Candidate Starts for Melpomini_204:

(Start: 26 @111818 has 44 MA's), (Start: 28 @111824 has 6 MA's), (Start: 32 @111836 has 8 MA's), (37, 111845), (Start: 68 @111911 has 162 MA's), (84, 111986), (103, 112100), (109, 112124), (127, 112184), (151, 112295), (157, 112334), (164, 112358), (173, 112400), (203, 112499), (214, 112541), (216, 112547), (219, 112559), (229, 112622), (242, 112682), (243, 112685), (250, 112712), (261, 112754), (279, 112817), (330, 112973), (335, 112991), (338, 113006), (351, 113123), (357, 113162), (372, 113282), (380, 113324), (389, 113369), (391, 113378), (402, 113429), (414, 113471), (432, 113537), (434, 113546), (435, 113549), (436, 113555), (437, 113558), (438, 113567), (439, 113573), (440, 113588), (462, 113675), (483, 113780), (495, 113834), (510, 113921), (516, 113951), (526, 113981), (533, 114014), (535, 114023), (546, 114095), (552, 114125), (577, 114242), (589, 114287), (601, 114329), (660, 114473), (675, 114533), (715, 114635), (750, 114722), (751, 114725), (761, 114743), (771, 114779), (772, 114782), (793, 114842), (798, 114860), (827, 114956), (836, 114986), (839, 115004), (846, 115034), (879, 115127), (883, 115142), (900, 115223), (902, 115229), (905, 115241),

Gene: MerCougar_61 Start: 49170, Stop: 45856, Start Num: 73

Candidate Starts for MerCougar_61:

(Start: 73 @49170 has 88 MA's), (Start: 89 @49074 has 6 MA's), (128, 48921), (130, 48912), (152, 48807), (155, 48789), (194, 48630), (197, 48624), (204, 48600), (225, 48492), (252, 48381), (292, 48255), (335, 48084), (343, 48042), (348, 48003), (354, 47964), (356, 47949), (376, 47811), (402, 47679), (431, 47613), (441, 47556), (454, 47496), (466, 47445), (481, 47376), (494, 47331), (531, 47196), (558, 47046), (559, 47043), (561, 47037), (565, 47019), (590, 46923), (603, 46869), (669, 46716), (682, 46665), (686, 46656), (735, 46512), (769, 46422), (790, 46362), (794, 46341), (801, 46320), (814, 46272), (838, 46188), (841, 46176), (842, 46173), (874, 46080), (916, 45897), (925, 45867),

Gene: MikeLiesIn_211 Start: 114262, Stop: 117657, Start Num: 68

Candidate Starts for MikeLiesIn_211:

(Start: 26 @114169 has 44 MA's), (Start: 28 @114175 has 6 MA's), (Start: 32 @114187 has 8 MA's), (37, 114196), (Start: 68 @114262 has 162 MA's), (84, 114337), (103, 114451), (109, 114475), (127, 114535), (151, 114646), (157, 114685), (164, 114709), (173, 114751), (203, 114850), (214, 114892), (216, 114898), (219, 114910), (229, 114973), (242, 115033), (243, 115036), (250, 115063), (261, 115105), (279, 115168), (321, 115288), (330, 115324), (335, 115342), (338, 115357), (351, 115474), (357, 115513), (372, 115633), (380, 115675), (389, 115720), (391, 115729), (402, 115780), (414, 115822), (432, 115888), (434, 115897), (435, 115900), (436, 115906), (437, 115909), (438, 115918), (439, 115924), (440, 115939), (462, 116026), (483, 116131), (495, 116185), (510, 116272), (516, 116302), (526, 116332), (533, 116365), (535, 116374), (546, 116446), (552, 116476), (577, 116593), (589, 116638), (601, 116680), (660, 116824), (675, 116884), (715, 116986), (750, 117073), (751, 117076), (761, 117094), (771, 117130), (772, 117133), (793, 117193), (798, 117211), (827, 117307), (836, 117337), (839, 117355), (846, 117385), (879, 117478), (883, 117493), (900, 117574), (902, 117580), (905, 117592),

Gene: Mikro_205 Start: 114811, Stop: 118206, Start Num: 68

Candidate Starts for Mikro_205:

(Start: 26 @114718 has 44 MA's), (Start: 28 @114724 has 6 MA's), (Start: 32 @114736 has 8 MA's), (37, 114745), (Start: 68 @114811 has 162 MA's), (84, 114886), (103, 115000), (109, 115024), (127, 115084), (151, 115195), (157, 115234), (164, 115258), (173, 115300), (203, 115399), (214, 115441),

(216, 115447), (219, 115459), (229, 115522), (242, 115582), (243, 115585), (250, 115612), (261, 115654), (279, 115717), (330, 115873), (335, 115891), (338, 115906), (351, 116023), (357, 116062), (372, 116182), (380, 116224), (389, 116269), (391, 116278), (402, 116329), (414, 116371), (432, 116437), (434, 116446), (435, 116449), (436, 116455), (437, 116458), (438, 116467), (439, 116473), (440, 116488), (462, 116575), (483, 116680), (495, 116734), (510, 116821), (516, 116851), (526, 116881), (533, 116914), (535, 116923), (546, 116995), (552, 117025), (577, 117142), (589, 117187), (601, 117229), (660, 117373), (675, 117433), (715, 117535), (750, 117622), (751, 117625), (761, 117643), (771, 117679), (772, 117682), (793, 117742), (798, 117760), (827, 117856), (836, 117886), (839, 117904), (846, 117934), (879, 118027), (883, 118042), (900, 118123), (902, 118129), (905, 118141),

Gene: Mildred21_78 Start: 57592, Stop: 60879, Start Num: 70

Candidate Starts for Mildred21_78:

(Start: 70 @57592 has 57 MA's), (79, 57640), (85, 57670), (88, 57688), (Start: 89 @57694 has 6 MA's), (99, 57760), (146, 57973), (149, 57979), (168, 58075), (189, 58153), (213, 58258), (225, 58321), (227, 58327), (236, 58366), (262, 58483), (310, 58582), (337, 58693), (345, 58723), (349, 58762), (355, 58801), (387, 59005), (394, 59035), (439, 59149), (440, 59164), (461, 59260), (462, 59266), (471, 59314), (478, 59350), (499, 59413), (502, 59422), (517, 59494), (534, 59557), (542, 59608), (546, 59629), (559, 59683), (562, 59692), (564, 59701), (566, 59710), (568, 59716), (622, 59959), (638, 60028), (641, 60040), (664, 60145), (736, 60373), (759, 60424), (773, 60469), (791, 60535), (800, 60565), (806, 60583), (818, 60619), (830, 60664), (842, 60715), (858, 60763), (864, 60778),

Gene: Mima20_79 Start: 51983, Stop: 55228, Start Num: 89

Candidate Starts for Mima20_79:

(47, 51839), (Start: 73 @51887 has 88 MA's), (Start: 82 @51947 has 1 MA's), (Start: 89 @51983 has 6 MA's), (93, 52028), (103, 52070), (166, 52331), (194, 52433), (205, 52466), (224, 52562), (288, 52832), (289, 52841), (316, 52949), (324, 52994), (335, 53036), (356, 53168), (357, 53171), (358, 53201), (361, 53222), (372, 53291), (382, 53345), (404, 53444), (412, 53459), (429, 53501), (466, 53675), (472, 53708), (476, 53726), (481, 53744), (494, 53789), (495, 53792), (524, 53888), (534, 53930), (536, 53942), (541, 53978), (582, 54158), (596, 54200), (603, 54236), (643, 54290), (651, 54308), (669, 54404), (671, 54416), (739, 54611), (798, 54695), (822, 54776), (827, 54800), (831, 54815), (840, 54851), (844, 54863), (845, 54869), (846, 54872), (855, 54899), (873, 54944), (893, 55052), (906, 55097), (912, 55121), (922, 55157),

Gene: MindFlayer_79 Start: 58051, Stop: 61371, Start Num: 69

Candidate Starts for MindFlayer_79:

(Start: 69 @58051 has 26 MA's), (80, 58102), (85, 58123), (Start: 89 @58147 has 6 MA's), (102, 58228), (146, 58426), (189, 58606), (200, 58654), (202, 58657), (213, 58711), (223, 58762), (225, 58780), (228, 58789), (236, 58825), (259, 58933), (262, 58942), (337, 59152), (349, 59221), (372, 59386), (387, 59464), (438, 59626), (454, 59713), (462, 59749), (478, 59833), (499, 59896), (502, 59905), (546, 60109), (559, 60163), (562, 60172), (566, 60190), (568, 60196), (607, 60379), (608, 60388), (619, 60412), (622, 60439), (648, 60547), (670, 60646), (696, 60736), (722, 60814), (732, 60856), (740, 60874), (759, 60916), (771, 60955), (773, 60961), (783, 60988), (791, 61027), (806, 61075), (809, 61084), (830, 61156), (836, 61177), (841, 61204), (842, 61207), (847, 61222), (858, 61255), (882, 61324),

Gene: MoMoMixon_207 Start: 113214, Stop: 116696, Start Num: 28

Candidate Starts for MoMoMixon_207:

(Start: 26 @113208 has 44 MA's), (Start: 28 @113214 has 6 MA's), (Start: 32 @113226 has 8 MA's), (37, 113235), (Start: 68 @113301 has 162 MA's), (84, 113376), (103, 113490), (109, 113514), (127, 113574), (151, 113685), (157, 113724), (164, 113748), (173, 113790), (203, 113889), (214, 113931), (216, 113937), (219, 113949), (229, 114012), (242, 114072), (243, 114075), (250, 114102), (261,

114144), (279, 114207), (330, 114363), (335, 114381), (338, 114396), (351, 114513), (357, 114552), (372, 114672), (380, 114714), (389, 114759), (391, 114768), (402, 114819), (414, 114861), (432, 114927), (434, 114936), (435, 114939), (436, 114945), (437, 114948), (438, 114957), (439, 114963), (440, 114978), (462, 115065), (483, 115170), (495, 115224), (510, 115311), (516, 115341), (526, 115371), (533, 115404), (535, 115413), (546, 115485), (552, 115515), (577, 115632), (589, 115677), (601, 115719), (660, 115863), (675, 115923), (715, 116025), (750, 116112), (751, 116115), (761, 116133), (771, 116169), (772, 116172), (793, 116232), (798, 116250), (827, 116346), (836, 116376), (839, 116394), (846, 116424), (879, 116517), (883, 116532), (900, 116613), (902, 116619), (905, 116631),

Gene: Moab_61 Start: 49797, Stop: 53087, Start Num: 70

Candidate Starts for Moab_61:

(Start: 70 @49797 has 57 MA's), (75, 49812), (85, 49869), (88, 49887), (Start: 89 @49893 has 6 MA's), (132, 50103), (146, 50172), (149, 50178), (153, 50202), (159, 50232), (188, 50346), (189, 50352), (190, 50364), (213, 50457), (225, 50520), (227, 50526), (236, 50565), (254, 50655), (310, 50781), (337, 50892), (349, 50961), (353, 50988), (368, 51105), (431, 51309), (439, 51348), (457, 51447), (461, 51459), (462, 51465), (468, 51498), (474, 51531), (478, 51549), (499, 51612), (502, 51621), (516, 51687), (517, 51693), (534, 51756), (546, 51828), (559, 51882), (562, 51891), (564, 51900), (566, 51909), (568, 51915), (601, 52041), (608, 52107), (626, 52167), (627, 52170), (638, 52227), (644, 52245), (665, 52350), (678, 52398), (696, 52443), (727, 52548), (758, 52617), (759, 52623), (791, 52734), (793, 52743), (800, 52764), (820, 52827), (842, 52914), (861, 52965), (864, 52977), (882, 53031),

Gene: MoiGyank_84 Start: 52491, Stop: 55832, Start Num: 73

Candidate Starts for MoiGyank_84:

(47, 52443), (Start: 73 @52491 has 88 MA's), (Start: 82 @52551 has 1 MA's), (Start: 89 @52587 has 6 MA's), (93, 52632), (103, 52674), (166, 52935), (194, 53037), (205, 53070), (224, 53166), (288, 53436), (289, 53445), (316, 53553), (324, 53598), (335, 53640), (356, 53772), (357, 53775), (358, 53805), (361, 53826), (372, 53895), (382, 53949), (404, 54048), (412, 54063), (429, 54105), (466, 54279), (472, 54312), (476, 54330), (481, 54348), (494, 54393), (495, 54396), (524, 54492), (534, 54534), (536, 54546), (541, 54582), (582, 54762), (596, 54804), (603, 54840), (643, 54894), (651, 54912), (669, 55008), (671, 55020), (739, 55215), (798, 55299), (822, 55380), (827, 55404), (831, 55419), (840, 55455), (844, 55467), (845, 55473), (846, 55476), (855, 55503), (873, 55548), (893, 55656), (906, 55701), (912, 55725), (922, 55761),

Gene: Momo_210 Start: 112377, Stop: 115772, Start Num: 68

Candidate Starts for Momo_210:

(Start: 26 @112284 has 44 MA's), (Start: 28 @112290 has 6 MA's), (Start: 32 @112302 has 8 MA's), (37, 112311), (Start: 68 @112377 has 162 MA's), (84, 112452), (103, 112566), (109, 112590), (127, 112650), (151, 112761), (157, 112800), (164, 112824), (173, 112866), (203, 112965), (214, 113007), (216, 113013), (219, 113025), (229, 113088), (242, 113148), (243, 113151), (250, 113178), (261, 113220), (279, 113283), (321, 113403), (330, 113439), (335, 113457), (338, 113472), (351, 113589), (357, 113628), (372, 113748), (380, 113790), (389, 113835), (391, 113844), (402, 113895), (414, 113937), (432, 114003), (434, 114012), (435, 114015), (436, 114021), (437, 114024), (438, 114033), (439, 114039), (440, 114054), (462, 114141), (483, 114246), (495, 114300), (510, 114387), (516, 114417), (526, 114447), (533, 114480), (535, 114489), (546, 114561), (552, 114591), (577, 114708), (589, 114753), (601, 114795), (660, 114939), (675, 114999), (715, 115101), (750, 115188), (751, 115191), (761, 115209), (771, 115245), (772, 115248), (793, 115308), (798, 115326), (827, 115422), (836, 115452), (839, 115470), (846, 115500), (879, 115593), (883, 115608), (900, 115689), (902, 115695), (905, 115707),

Gene: Mopey_68 Start: 49703, Stop: 53005, Start Num: 29

Candidate Starts for Mopey_68:

(Start: 29 @49703 has 19 MA's), (Start: 64 @49790 has 1 MA's), (Start: 67 @49796 has 1 MA's), (Start: 73 @49805 has 88 MA's), (Start: 89 @49901 has 6 MA's), (130, 50057), (148, 50144), (149, 50147), (159, 50198), (224, 50462), (232, 50501), (249, 50573), (252, 50582), (270, 50657), (292, 50723), (294, 50729), (309, 50783), (316, 50801), (325, 50852), (326, 50855), (334, 50885), (349, 50969), (350, 50978), (354, 51005), (356, 51020), (382, 51197), (383, 51206), (387, 51221), (412, 51311), (438, 51392), (448, 51452), (466, 51527), (472, 51560), (473, 51566), (478, 51587), (481, 51596), (494, 51641), (514, 51710), (520, 51725), (536, 51794), (547, 51857), (556, 51890), (557, 51893), (568, 51944), (584, 52019), (643, 52142), (651, 52160), (668, 52238), (669, 52241), (671, 52253), (685, 52298), (695, 52319), (699, 52331), (711, 52361), (717, 52382), (777, 52454), (798, 52511), (826, 52610), (844, 52676), (875, 52766), (881, 52796), (882, 52799), (887, 52829), (896, 52874), (907, 52916), (914, 52946), (918, 52958), (922, 52973), (925, 52982),

Gene: Morizzled23_206 Start: 111744, Stop: 115139, Start Num: 68

Candidate Starts for Morizzled23_206:

(Start: 26 @111651 has 44 MA's), (Start: 28 @111657 has 6 MA's), (Start: 32 @111669 has 8 MA's), (37, 111678), (Start: 68 @111744 has 162 MA's), (84, 111819), (103, 111933), (109, 111957), (127, 112017), (151, 112128), (157, 112167), (164, 112191), (173, 112233), (203, 112332), (214, 112374), (216, 112380), (219, 112392), (229, 112455), (242, 112515), (243, 112518), (250, 112545), (261, 112587), (279, 112650), (321, 112770), (330, 112806), (335, 112824), (338, 112839), (351, 112956), (357, 112995), (372, 113115), (380, 113157), (389, 113202), (391, 113211), (402, 113262), (414, 113304), (432, 113370), (434, 113379), (435, 113382), (436, 113388), (437, 113391), (438, 113400), (439, 113406), (440, 113421), (462, 113508), (483, 113613), (495, 113667), (510, 113754), (516, 113784), (526, 113814), (533, 113847), (535, 113856), (546, 113928), (552, 113958), (577, 114075), (589, 114120), (601, 114162), (660, 114306), (675, 114366), (715, 114468), (750, 114555), (751, 114558), (761, 114576), (771, 114612), (772, 114615), (793, 114675), (798, 114693), (827, 114789), (836, 114819), (839, 114837), (846, 114867), (879, 114960), (883, 114975), (900, 115056), (902, 115062), (905, 115074),

Gene: Mugiwara_83 Start: 58808, Stop: 62128, Start Num: 69

Candidate Starts for Mugiwara_83:

(Start: 69 @58808 has 26 MA's), (80, 58859), (85, 58880), (Start: 89 @58904 has 6 MA's), (102, 58985), (146, 59183), (189, 59363), (200, 59411), (213, 59468), (215, 59471), (223, 59519), (225, 59537), (228, 59546), (236, 59582), (262, 59699), (337, 59909), (349, 59978), (372, 60143), (387, 60221), (438, 60383), (462, 60506), (478, 60590), (502, 60662), (546, 60866), (559, 60920), (562, 60929), (566, 60947), (568, 60953), (608, 61145), (619, 61169), (622, 61196), (648, 61304), (678, 61448), (693, 61481), (696, 61493), (722, 61571), (732, 61613), (740, 61631), (759, 61673), (771, 61712), (773, 61718), (783, 61745), (791, 61784), (806, 61832), (809, 61841), (830, 61913), (836, 61934), (841, 61961), (842, 61964), (857, 62009), (858, 62012), (876, 62066), (882, 62081),

Gene: MulchMansion_77 Start: 57396, Stop: 60680, Start Num: 70

Candidate Starts for MulchMansion_77:

(33, 57312), (43, 57339), (Start: 70 @57396 has 57 MA's), (79, 57441), (85, 57471), (88, 57489), (Start: 89 @57495 has 6 MA's), (146, 57774), (168, 57876), (189, 57954), (190, 57966), (213, 58059), (225, 58122), (227, 58128), (236, 58167), (262, 58284), (279, 58323), (310, 58383), (337, 58494), (345, 58524), (355, 58602), (383, 58791), (389, 58815), (394, 58836), (439, 58950), (440, 58965), (460, 59055), (461, 59061), (462, 59067), (466, 59091), (467, 59094), (478, 59151), (487, 59184), (499, 59214), (502, 59223), (517, 59295), (521, 59304), (534, 59358), (546, 59430), (559, 59484), (562, 59493), (564, 59502), (566, 59511), (568, 59517), (587, 59598), (622, 59760), (638, 59829), (641, 59841), (670, 59955), (757, 60216), (759, 60225), (791, 60336), (806, 60384), (830, 60465), (842, 60516), (858, 60564), (864, 60579),

Gene: Muntaha_58 Start: 50102, Stop: 53389, Start Num: 70

Candidate Starts for Muntaha_58:

(Start: 70 @50102 has 57 MA's), (85, 50174), (Start: 89 @50198 has 6 MA's), (105, 50294), (146, 50477), (159, 50537), (183, 50627), (189, 50657), (191, 50672), (199, 50699), (200, 50705), (213, 50762), (225, 50825), (236, 50870), (244, 50918), (320, 51122), (336, 51188), (337, 51197), (366, 51398), (372, 51431), (387, 51509), (394, 51539), (431, 51614), (439, 51653), (440, 51668), (461, 51764), (462, 51770), (468, 51803), (477, 51848), (478, 51854), (490, 51902), (502, 51926), (508, 51953), (511, 51971), (517, 51998), (534, 52061), (546, 52133), (559, 52187), (562, 52196), (566, 52214), (568, 52220), (601, 52346), (606, 52400), (608, 52412), (622, 52463), (626, 52472), (638, 52532), (679, 52706), (700, 52757), (731, 52865), (758, 52922), (759, 52928), (775, 52976), (791, 53039), (793, 53048), (832, 53177), (842, 53219), (847, 53234), (864, 53282),

Gene: Myrna_192 Start: 109812, Stop: 113228, Start Num: 63

Candidate Starts for Myrna_192:

(Start: 63 @109812 has 3 MA's), (85, 109899), (95, 109974), (110, 110037), (150, 110202), (206, 110430), (214, 110463), (216, 110469), (218, 110478), (220, 110484), (226, 110535), (229, 110544), (242, 110601), (243, 110604), (250, 110631), (266, 110688), (270, 110709), (279, 110733), (335, 110907), (338, 110922), (349, 111027), (368, 111171), (372, 111198), (391, 111294), (409, 111360), (425, 111417), (434, 111462), (435, 111465), (439, 111489), (442, 111510), (458, 111576), (462, 111594), (464, 111603), (468, 111627), (497, 111762), (530, 111909), (533, 111930), (535, 111939), (538, 111963), (547, 112020), (552, 112035), (559, 112065), (579, 112152), (589, 112188), (603, 112254), (639, 112296), (643, 112308), (647, 112317), (666, 112419), (675, 112455), (714, 112554), (772, 112704), (785, 112737), (822, 112860), (836, 112911), (839, 112929), (848, 112965), (860, 112995), (868, 113013), (878, 113049), (895, 113130), (902, 113151), (905, 113163), (917, 113205), (921, 113220),

Gene: Nabi_55 Start: 41492, Stop: 38013, Start Num: 68

Candidate Starts for Nabi_55:

(Start: 36 @41561 has 1 MA's), (Start: 68 @41492 has 162 MA's), (Start: 82 @41432 has 1 MA's), (84, 41423), (91, 41381), (107, 41288), (123, 41219), (135, 41150), (144, 41096), (161, 41024), (188, 40928), (218, 40850), (247, 40703), (257, 40664), (266, 40637), (269, 40619), (276, 40598), (283, 40583), (325, 40463), (329, 40451), (358, 40265), (359, 40259), (381, 40130), (383, 40112), (398, 40055), (399, 40052), (401, 40040), (438, 39902), (439, 39896), (440, 39881), (442, 39875), (449, 39842), (468, 39764), (474, 39731), (502, 39641), (512, 39590), (534, 39509), (535, 39503), (546, 39434), (555, 39392), (558, 39371), (564, 39350), (574, 39305), (583, 39266), (601, 39209), (602, 39200), (652, 39119), (655, 39092), (661, 39071), (663, 39050), (673, 39020), (678, 38993), (709, 38927), (711, 38918), (714, 38906), (747, 38819), (756, 38795), (785, 38699), (812, 38603), (835, 38519), (840, 38492), (880, 38354), (883, 38345), (887, 38318), (899, 38270), (900, 38264), (906, 38243), (908, 38237), (931, 38132), (933, 38105), (934, 38093),

Gene: NadineRae_59 Start: 44917, Stop: 41666, Start Num: 73

Candidate Starts for NadineRae_59:

(23, 45019), (27, 45007), (54, 44938), (Start: 73 @44917 has 88 MA's), (86, 44836), (Start: 89 @44821 has 6 MA's), (93, 44776), (128, 44668), (130, 44659), (197, 44371), (210, 44320), (218, 44293), (225, 44239), (232, 44209), (278, 44026), (292, 44002), (320, 43894), (338, 43816), (343, 43789), (354, 43711), (356, 43696), (376, 43558), (395, 43465), (431, 43360), (433, 43354), (438, 43327), (448, 43267), (466, 43192), (472, 43159), (481, 43123), (494, 43078), (502, 43066), (515, 43003), (549, 42838), (550, 42835), (558, 42796), (559, 42793), (561, 42787), (563, 42778), (565, 42769), (590, 42673), (596, 42655), (603, 42619), (682, 42415), (735, 42319), (740, 42316), (769, 42235), (772, 42226), (790, 42175), (814, 42085), (841, 41989), (842, 41986), (892, 41803),

Gene: Naija_210 Start: 113080, Stop: 116475, Start Num: 68

Candidate Starts for Naija_210:

(Start: 26 @112987 has 44 MA's), (Start: 28 @112993 has 6 MA's), (Start: 32 @113005 has 8 MA's), (37, 113014), (Start: 68 @113080 has 162 MA's), (84, 113155), (103, 113269), (109, 113293), (127,

113353), (151, 113464), (157, 113503), (164, 113527), (173, 113569), (203, 113668), (214, 113710), (216, 113716), (219, 113728), (229, 113791), (242, 113851), (243, 113854), (250, 113881), (261, 113923), (279, 113986), (321, 114106), (330, 114142), (335, 114160), (338, 114175), (351, 114292), (357, 114331), (372, 114451), (380, 114493), (389, 114538), (391, 114547), (402, 114598), (414, 114640), (432, 114706), (434, 114715), (435, 114718), (436, 114724), (437, 114727), (438, 114736), (439, 114742), (440, 114757), (462, 114844), (483, 114949), (495, 115003), (510, 115090), (516, 115120), (526, 115150), (533, 115183), (535, 115192), (546, 115264), (552, 115294), (577, 115411), (589, 115456), (601, 115498), (660, 115642), (675, 115702), (715, 115804), (750, 115891), (751, 115894), (761, 115912), (771, 115948), (772, 115951), (793, 116011), (798, 116029), (827, 116125), (836, 116155), (839, 116173), (846, 116203), (879, 116296), (883, 116311), (900, 116392), (902, 116398), (905, 116410),

Gene: Nanodon_56 Start: 41425, Stop: 37946, Start Num: 68

Candidate Starts for Nanodon_56:

(7, 41629), (Start: 36 @41494 has 1 MA's), (Start: 68 @41425 has 162 MA's), (Start: 82 @41362 has 1 MA's), (84, 41353), (107, 41218), (123, 41149), (135, 41080), (144, 41026), (161, 40954), (188, 40858), (218, 40780), (247, 40633), (257, 40594), (269, 40549), (276, 40528), (283, 40513), (325, 40393), (343, 40318), (358, 40195), (359, 40189), (366, 40144), (381, 40060), (383, 40042), (398, 39985), (399, 39982), (401, 39970), (438, 39832), (440, 39811), (442, 39805), (445, 39790), (449, 39772), (456, 39748), (459, 39742), (467, 39700), (468, 39694), (474, 39661), (512, 39520), (534, 39439), (535, 39433), (546, 39364), (558, 39301), (574, 39235), (583, 39196), (601, 39139), (602, 39130), (655, 39022), (657, 39013), (661, 39001), (663, 38980), (673, 38950), (678, 38923), (709, 38857), (711, 38848), (714, 38836), (747, 38749), (756, 38725), (812, 38533), (835, 38449), (840, 38422), (842, 38416), (880, 38284), (883, 38275), (887, 38248), (899, 38200), (900, 38194), (908, 38167), (934, 38023),

Gene: Napoleon13_206 Start: 112108, Stop: 115503, Start Num: 68

Candidate Starts for Napoleon13_206:

(Start: 26 @112015 has 44 MA's), (Start: 28 @112021 has 6 MA's), (Start: 32 @112033 has 8 MA's), (37, 112042), (Start: 68 @112108 has 162 MA's), (84, 112183), (103, 112297), (109, 112321), (127, 112381), (151, 112492), (157, 112531), (164, 112555), (173, 112597), (203, 112696), (214, 112738), (216, 112744), (219, 112756), (229, 112819), (242, 112879), (243, 112882), (250, 112909), (261, 112951), (279, 113014), (321, 113134), (330, 113170), (335, 113188), (338, 113203), (351, 113320), (357, 113359), (372, 113479), (380, 113521), (389, 113566), (391, 113575), (402, 113626), (414, 113668), (432, 113734), (434, 113743), (435, 113746), (436, 113752), (437, 113755), (438, 113764), (439, 113770), (440, 113785), (462, 113872), (483, 113977), (495, 114031), (510, 114118), (516, 114148), (526, 114178), (533, 114211), (535, 114220), (546, 114292), (552, 114322), (577, 114439), (589, 114484), (601, 114526), (660, 114670), (675, 114730), (715, 114832), (750, 114919), (751, 114922), (761, 114940), (771, 114976), (772, 114979), (793, 115039), (798, 115057), (827, 115153), (836, 115183), (839, 115201), (846, 115231), (879, 115324), (883, 115339), (900, 115420), (902, 115426), (905, 115438),

Gene: Nappy_210 Start: 114681, Stop: 118169, Start Num: 26

Candidate Starts for Nappy_210:

(Start: 26 @114681 has 44 MA's), (Start: 28 @114687 has 6 MA's), (Start: 32 @114699 has 8 MA's), (37, 114708), (Start: 68 @114774 has 162 MA's), (84, 114849), (103, 114963), (109, 114987), (127, 115047), (151, 115158), (157, 115197), (164, 115221), (173, 115263), (175, 115269), (203, 115362), (214, 115404), (216, 115410), (219, 115422), (229, 115485), (242, 115545), (243, 115548), (250, 115575), (261, 115617), (279, 115680), (330, 115836), (335, 115854), (338, 115869), (351, 115986), (357, 116025), (372, 116145), (380, 116187), (389, 116232), (391, 116241), (402, 116292), (414, 116334), (432, 116400), (434, 116409), (435, 116412), (436, 116418), (437, 116421), (438, 116430), (439, 116436), (440, 116451), (462, 116538), (483, 116643), (495, 116697), (510, 116784), (516, 116814), (526, 116844), (533, 116877), (535, 116886), (546, 116958), (552, 116988), (577, 117105),

(589, 117150), (601, 117192), (660, 117336), (675, 117396), (715, 117498), (750, 117585), (751, 117588), (761, 117606), (771, 117642), (772, 117645), (793, 117705), (798, 117723), (827, 117819), (836, 117849), (839, 117867), (846, 117897), (879, 117990), (883, 118005), (900, 118086), (902, 118092), (905, 118104),

Gene: NatB6_60 Start: 48176, Stop: 44865, Start Num: 73

Candidate Starts for NatB6_60:

(4, 48419), (Start: 73 @48176 has 88 MA's), (85, 48104), (Start: 89 @48080 has 6 MA's), (93, 48035), (128, 47927), (130, 47918), (155, 47795), (194, 47636), (197, 47630), (204, 47606), (225, 47498), (232, 47468), (252, 47387), (292, 47261), (296, 47243), (335, 47090), (343, 47048), (354, 46970), (356, 46955), (376, 46817), (431, 46619), (440, 46565), (441, 46562), (454, 46502), (466, 46451), (476, 46400), (481, 46382), (494, 46337), (549, 46097), (558, 46055), (559, 46052), (561, 46046), (565, 46028), (590, 45932), (603, 45878), (665, 45734), (669, 45725), (678, 45680), (695, 45650), (718, 45575), (735, 45521), (753, 45479), (769, 45431), (794, 45350), (801, 45329), (827, 45239), (836, 45209), (841, 45185), (842, 45182), (892, 44999), (907, 44942),

Gene: Naval22_214 Start: 114857, Stop: 118252, Start Num: 68

Candidate Starts for Naval22_214:

(Start: 26 @114764 has 44 MA's), (Start: 28 @114770 has 6 MA's), (Start: 32 @114782 has 8 MA's), (37, 114791), (Start: 68 @114857 has 162 MA's), (84, 114932), (103, 115046), (109, 115070), (127, 115130), (151, 115241), (157, 115280), (164, 115304), (173, 115346), (203, 115445), (214, 115487), (216, 115493), (219, 115505), (229, 115568), (242, 115628), (243, 115631), (250, 115658), (261, 115700), (279, 115763), (321, 115883), (330, 115919), (335, 115937), (338, 115952), (351, 116069), (357, 116108), (372, 116228), (380, 116270), (389, 116315), (391, 116324), (402, 116375), (414, 116417), (432, 116483), (434, 116492), (435, 116495), (436, 116501), (437, 116504), (438, 116513), (439, 116519), (440, 116534), (462, 116621), (483, 116726), (495, 116780), (510, 116867), (516, 116897), (526, 116927), (533, 116960), (535, 116969), (546, 117041), (552, 117071), (577, 117188), (589, 117233), (601, 117275), (660, 117419), (675, 117479), (715, 117581), (750, 117668), (751, 117671), (761, 117689), (771, 117725), (772, 117728), (793, 117788), (798, 117806), (827, 117902), (836, 117932), (839, 117950), (846, 117980), (879, 118073), (883, 118088), (900, 118169), (902, 118175), (905, 118187),

Gene: Navo_77 Start: 58485, Stop: 61769, Start Num: 70

Candidate Starts for Navo_77:

(Start: 70 @58485 has 57 MA's), (79, 58530), (85, 58560), (88, 58578), (Start: 89 @58584 has 6 MA's), (146, 58863), (149, 58869), (168, 58965), (189, 59043), (213, 59148), (225, 59211), (227, 59217), (236, 59256), (262, 59373), (310, 59472), (337, 59583), (345, 59613), (349, 59652), (387, 59895), (394, 59925), (439, 60039), (440, 60054), (460, 60144), (461, 60150), (462, 60156), (478, 60240), (499, 60303), (502, 60312), (517, 60384), (534, 60447), (546, 60519), (559, 60573), (562, 60582), (564, 60591), (566, 60600), (568, 60606), (587, 60687), (606, 60786), (622, 60849), (638, 60918), (641, 60930), (689, 61116), (696, 61134), (725, 61230), (736, 61263), (759, 61314), (773, 61359), (791, 61425), (800, 61455), (806, 61473), (818, 61509), (830, 61554), (837, 61584), (842, 61605), (858, 61653), (864, 61668),

Gene: NedWong_208 Start: 113513, Stop: 116908, Start Num: 68

Candidate Starts for NedWong_208:

(Start: 26 @113420 has 44 MA's), (Start: 28 @113426 has 6 MA's), (Start: 32 @113438 has 8 MA's), (37, 113447), (Start: 68 @113513 has 162 MA's), (84, 113588), (103, 113702), (109, 113726), (127, 113786), (151, 113897), (157, 113936), (164, 113960), (173, 114002), (203, 114101), (214, 114143), (216, 114149), (219, 114161), (229, 114224), (242, 114284), (243, 114287), (250, 114314), (261, 114356), (279, 114419), (321, 114539), (330, 114575), (335, 114593), (338, 114608), (351, 114725), (357, 114764), (372, 114884), (380, 114926), (389, 114971), (391, 114980), (402, 115031), (414, 115073), (432, 115139), (434, 115148), (435, 115151), (436, 115157), (437, 115160), (438, 115169),

(439, 115175), (440, 115190), (462, 115277), (483, 115382), (495, 115436), (510, 115523), (516, 115553), (526, 115583), (533, 115616), (535, 115625), (546, 115697), (552, 115727), (577, 115844), (589, 115889), (601, 115931), (660, 116075), (675, 116135), (715, 116237), (750, 116324), (751, 116327), (761, 116345), (771, 116381), (772, 116384), (793, 116444), (798, 116462), (827, 116558), (836, 116588), (839, 116606), (846, 116636), (879, 116729), (883, 116744), (900, 116825), (902, 116831), (905, 116843),

Gene: Nerdos_52 Start: 40231, Stop: 36752, Start Num: 68

Candidate Starts for Nerdos_52:

(6, 40441), (Start: 68 @40231 has 162 MA's), (84, 40159), (Start: 89 @40132 has 6 MA's), (91, 40117), (123, 39955), (126, 39928), (128, 39922), (144, 39832), (150, 39817), (160, 39763), (161, 39760), (188, 39664), (218, 39586), (247, 39439), (257, 39400), (269, 39355), (276, 39334), (283, 39319), (304, 39277), (308, 39265), (325, 39199), (329, 39187), (343, 39124), (359, 38995), (360, 38986), (366, 38950), (381, 38866), (383, 38848), (398, 38791), (399, 38788), (401, 38776), (438, 38638), (439, 38632), (440, 38617), (442, 38611), (449, 38578), (468, 38500), (474, 38467), (512, 38326), (530, 38269), (534, 38245), (535, 38239), (546, 38170), (558, 38107), (574, 38041), (578, 38020), (583, 38002), (601, 37945), (602, 37936), (655, 37828), (657, 37819), (661, 37807), (663, 37786), (673, 37756), (678, 37729), (709, 37663), (711, 37654), (714, 37642), (747, 37555), (756, 37531), (772, 37483), (812, 37339), (832, 37264), (880, 37090), (887, 37054), (899, 37006), (908, 36973),

Gene: Ngannou_206 Start: 111359, Stop: 114754, Start Num: 68

Candidate Starts for Ngannou_206:

(Start: 26 @111266 has 44 MA's), (Start: 28 @111272 has 6 MA's), (Start: 32 @111284 has 8 MA's), (37, 111293), (Start: 68 @111359 has 162 MA's), (84, 111434), (103, 111548), (109, 111572), (127, 111632), (151, 111743), (157, 111782), (164, 111806), (173, 111848), (203, 111947), (214, 111989), (216, 111995), (219, 112007), (229, 112070), (242, 112130), (243, 112133), (250, 112160), (261, 112202), (279, 112265), (321, 112385), (330, 112421), (335, 112439), (338, 112454), (351, 112571), (357, 112610), (372, 112730), (380, 112772), (389, 112817), (391, 112826), (402, 112877), (414, 112919), (432, 112985), (434, 112994), (435, 112997), (436, 113003), (437, 113006), (438, 113015), (439, 113021), (440, 113036), (462, 113123), (483, 113228), (495, 113282), (510, 113369), (516, 113399), (526, 113429), (533, 113462), (535, 113471), (546, 113543), (552, 113573), (577, 113690), (589, 113735), (601, 113777), (660, 113921), (675, 113981), (715, 114083), (750, 114170), (751, 114173), (761, 114191), (771, 114227), (772, 114230), (793, 114290), (798, 114308), (827, 114404), (836, 114434), (839, 114452), (846, 114482), (879, 114575), (883, 114590), (900, 114671), (902, 114677), (905, 114689),

Gene: NiceHouse_90 Start: 64900, Stop: 68652, Start Num: 73

Candidate Starts for NiceHouse_90:

(Start: 73 @64900 has 88 MA's), (79, 64942), (156, 65314), (157, 65326), (183, 65425), (189, 65455), (191, 65470), (200, 65503), (202, 65506), (215, 65563), (220, 65581), (223, 65605), (227, 65629), (236, 65668), (237, 65683), (238, 65689), (239, 65695), (253, 65755), (279, 65824), (310, 65881), (320, 65917), (323, 65938), (351, 66073), (359, 66148), (377, 66256), (408, 66379), (434, 66457), (437, 66469), (440, 66499), (444, 66520), (465, 66613), (466, 66619), (470, 66637), (484, 66703), (489, 66721), (502, 66751), (508, 66778), (517, 66823), (559, 67009), (563, 67024), (566, 67036), (623, 67279), (632, 67306), (633, 67312), (689, 67564), (696, 67588), (705, 67612), (714, 67651), (731, 67708), (733, 67714), (740, 67735), (744, 67744), (762, 67798), (767, 67813), (769, 67825), (789, 67888), (790, 67894), (803, 67945), (811, 67972), (854, 68137), (861, 68149), (901, 68308), (907, 68332), (912, 68353), (917, 68371), (924, 68398), (926, 68401), (929, 68422), (937, 68491), (938, 68494), (949, 68590), (950, 68596), (952, 68620), (953, 68626),

Gene: Nidhogg_210 Start: 113906, Stop: 117301, Start Num: 68

Candidate Starts for Nidhogg_210:

(Start: 26 @113813 has 44 MA's), (Start: 28 @113819 has 6 MA's), (Start: 32 @113831 has 8 MA's), (37, 113840), (Start: 68 @113906 has 162 MA's), (84, 113981), (103, 114095), (109, 114119), (127, 114179), (151, 114290), (157, 114329), (164, 114353), (173, 114395), (203, 114494), (214, 114536), (216, 114542), (219, 114554), (229, 114617), (242, 114677), (243, 114680), (250, 114707), (261, 114749), (279, 114812), (321, 114932), (330, 114968), (335, 114986), (338, 115001), (351, 115118), (357, 115157), (372, 115277), (380, 115319), (389, 115364), (391, 115373), (402, 115424), (414, 115466), (432, 115532), (434, 115541), (435, 115544), (436, 115550), (437, 115553), (438, 115562), (439, 115568), (440, 115583), (462, 115670), (483, 115775), (495, 115829), (510, 115916), (516, 115946), (526, 115976), (533, 116009), (535, 116018), (546, 116090), (552, 116120), (577, 116237), (589, 116282), (601, 116324), (660, 116468), (675, 116528), (715, 116630), (750, 116717), (751, 116720), (761, 116738), (771, 116774), (772, 116777), (793, 116837), (798, 116855), (827, 116951), (836, 116981), (839, 116999), (846, 117029), (879, 117122), (883, 117137), (900, 117218), (902, 117224), (905, 117236),

Gene: NoodleTree_215 Start: 113813, Stop: 117208, Start Num: 68

Candidate Starts for NoodleTree_215:

(Start: 26 @113720 has 44 MA's), (Start: 28 @113726 has 6 MA's), (Start: 32 @113738 has 8 MA's), (37, 113747), (Start: 68 @113813 has 162 MA's), (84, 113888), (103, 114002), (109, 114026), (127, 114086), (151, 114197), (157, 114236), (164, 114260), (173, 114302), (203, 114401), (214, 114443), (216, 114449), (219, 114461), (229, 114524), (242, 114584), (243, 114587), (250, 114614), (261, 114656), (279, 114719), (330, 114875), (335, 114893), (338, 114908), (351, 115025), (357, 115064), (372, 115184), (380, 115226), (389, 115271), (391, 115280), (402, 115331), (414, 115373), (432, 115439), (434, 115448), (435, 115451), (436, 115457), (437, 115460), (438, 115469), (439, 115475), (440, 115490), (462, 115577), (483, 115682), (495, 115736), (510, 115823), (516, 115853), (526, 115883), (533, 115916), (535, 115925), (546, 115997), (552, 116027), (577, 116144), (589, 116189), (601, 116231), (660, 116375), (675, 116435), (715, 116537), (750, 116624), (751, 116627), (761, 116645), (771, 116681), (772, 116684), (793, 116744), (798, 116762), (827, 116858), (836, 116888), (839, 116906), (846, 116936), (879, 117029), (883, 117044), (900, 117125), (902, 117131), (905, 117143),

Gene: NootNoot_75 Start: 57480, Stop: 60764, Start Num: 70

Candidate Starts for NootNoot_75:

(Start: 70 @57480 has 57 MA's), (79, 57525), (85, 57555), (88, 57573), (Start: 89 @57579 has 6 MA's), (99, 57645), (146, 57858), (149, 57864), (168, 57960), (189, 58038), (213, 58143), (225, 58206), (227, 58212), (236, 58251), (262, 58368), (310, 58467), (337, 58578), (345, 58608), (349, 58647), (387, 58890), (439, 59034), (440, 59049), (461, 59145), (462, 59151), (466, 59175), (478, 59235), (499, 59298), (502, 59307), (517, 59379), (534, 59442), (546, 59514), (559, 59568), (562, 59577), (564, 59586), (566, 59595), (568, 59601), (587, 59682), (606, 59781), (622, 59844), (638, 59913), (641, 59925), (689, 60111), (696, 60129), (725, 60225), (736, 60258), (759, 60309), (773, 60354), (791, 60420), (800, 60450), (806, 60468), (818, 60504), (830, 60549), (832, 60558), (837, 60579), (842, 60600), (858, 60648), (864, 60663),

Gene: NorManre_84 Start: 53277, Stop: 56585, Start Num: 78

Candidate Starts for NorManre_84:

(Start: 78 @53277 has 4 MA's), (Start: 82 @53304 has 1 MA's), (Start: 89 @53340 has 6 MA's), (93, 53385), (103, 53427), (166, 53688), (194, 53790), (205, 53823), (224, 53919), (288, 54189), (289, 54198), (316, 54306), (324, 54351), (335, 54393), (356, 54525), (357, 54528), (358, 54558), (361, 54579), (372, 54648), (382, 54702), (404, 54801), (412, 54816), (429, 54858), (466, 55032), (472, 55065), (476, 55083), (481, 55101), (494, 55146), (495, 55149), (524, 55245), (534, 55287), (536, 55299), (541, 55335), (582, 55515), (596, 55557), (603, 55593), (643, 55647), (651, 55665), (669, 55761), (671, 55773), (739, 55968), (798, 56052), (827, 56157), (831, 56172), (840, 56208), (844, 56220), (845, 56226), (846, 56229), (855, 56256), (873, 56301), (893, 56409), (906, 56454), (912, 56478), (922, 56514),

Gene: Norm_209 Start: 113815, Stop: 117210, Start Num: 68

Candidate Starts for Norm_209:

(Start: 18 @113692 has 4 MA's), (Start: 26 @113722 has 44 MA's), (Start: 28 @113728 has 6 MA's), (Start: 32 @113740 has 8 MA's), (37, 113749), (Start: 68 @113815 has 162 MA's), (84, 113890), (103, 114004), (109, 114028), (127, 114088), (151, 114199), (157, 114238), (164, 114262), (173, 114304), (203, 114403), (214, 114445), (216, 114451), (219, 114463), (229, 114526), (242, 114586), (243, 114589), (250, 114616), (261, 114658), (279, 114721), (321, 114841), (330, 114877), (335, 114895), (338, 114910), (351, 115027), (357, 115066), (372, 115186), (380, 115228), (389, 115273), (391, 115282), (402, 115333), (414, 115375), (432, 115441), (434, 115450), (435, 115453), (436, 115459), (437, 115462), (438, 115471), (439, 115477), (440, 115492), (462, 115579), (483, 115684), (495, 115738), (510, 115825), (516, 115855), (526, 115885), (533, 115918), (535, 115927), (546, 115999), (552, 116029), (577, 116146), (589, 116191), (601, 116233), (660, 116377), (675, 116437), (715, 116539), (750, 116626), (751, 116629), (761, 116647), (771, 116683), (772, 116686), (793, 116746), (798, 116764), (827, 116860), (836, 116890), (839, 116908), (846, 116938), (879, 117031), (883, 117046), (900, 117127), (902, 117133), (905, 117145),

Gene: NosilaM_62 Start: 48632, Stop: 45330, Start Num: 73

Candidate Starts for NosilaM_62:

(Start: 73 @48632 has 88 MA's), (Start: 89 @48536 has 6 MA's), (128, 48383), (130, 48374), (155, 48251), (194, 48092), (197, 48086), (204, 48062), (225, 47954), (252, 47843), (292, 47717), (335, 47546), (343, 47504), (350, 47453), (354, 47426), (356, 47411), (376, 47273), (386, 47222), (402, 47141), (431, 47075), (441, 47018), (454, 46958), (466, 46907), (481, 46838), (494, 46793), (540, 46601), (547, 46559), (549, 46550), (558, 46508), (559, 46505), (561, 46499), (565, 46481), (590, 46385), (603, 46331), (669, 46178), (686, 46118), (695, 46103), (735, 45974), (769, 45896), (790, 45836), (794, 45815), (795, 45812), (801, 45794), (824, 45710), (841, 45650), (842, 45647), (849, 45623), (874, 45554), (925, 45341),

Gene: Nova_66 Start: 50242, Stop: 53544, Start Num: 29

Candidate Starts for Nova_66:

(Start: 29 @50242 has 19 MA's), (Start: 64 @50329 has 1 MA's), (Start: 67 @50335 has 1 MA's), (Start: 73 @50344 has 88 MA's), (Start: 89 @50440 has 6 MA's), (130, 50596), (148, 50683), (149, 50686), (159, 50737), (224, 51001), (232, 51040), (249, 51112), (252, 51121), (270, 51196), (292, 51262), (294, 51268), (309, 51322), (316, 51340), (325, 51391), (326, 51394), (334, 51424), (349, 51508), (350, 51517), (354, 51544), (356, 51559), (382, 51736), (383, 51745), (412, 51850), (438, 51931), (448, 51991), (466, 52066), (472, 52099), (473, 52105), (478, 52126), (481, 52135), (494, 52180), (514, 52249), (520, 52264), (536, 52333), (547, 52396), (556, 52429), (557, 52432), (568, 52483), (584, 52558), (643, 52681), (651, 52699), (668, 52777), (669, 52780), (671, 52792), (685, 52837), (695, 52858), (699, 52870), (711, 52900), (717, 52921), (777, 52993), (798, 53050), (826, 53149), (844, 53215), (875, 53305), (881, 53335), (882, 53338), (887, 53368), (896, 53413), (907, 53455), (914, 53485), (918, 53497), (922, 53512), (925, 53521),

Gene: NovaSharks_80 Start: 50500, Stop: 53745, Start Num: 89

Candidate Starts for NovaSharks_80:

(Start: 89 @50500 has 6 MA's), (93, 50545), (103, 50587), (166, 50848), (205, 50983), (224, 51079), (288, 51349), (289, 51358), (316, 51466), (324, 51511), (335, 51553), (348, 51631), (356, 51685), (357, 51688), (358, 51718), (372, 51808), (382, 51862), (404, 51961), (412, 51976), (429, 52018), (466, 52192), (472, 52225), (476, 52243), (481, 52261), (494, 52306), (495, 52309), (524, 52405), (534, 52447), (536, 52459), (541, 52495), (582, 52675), (596, 52717), (603, 52753), (639, 52795), (643, 52807), (651, 52825), (669, 52921), (671, 52933), (739, 53128), (798, 53212), (827, 53317), (831, 53332), (836, 53347), (840, 53368), (844, 53380), (845, 53386), (846, 53389), (855, 53416), (873, 53461), (893, 53569), (906, 53614), (912, 53638), (922, 53674),

Gene: NovumRegina_60 Start: 48485, Stop: 45174, Start Num: 73

Candidate Starts for NovumRegina_60:

(4, 48728), (Start: 73 @48485 has 88 MA's), (85, 48413), (Start: 89 @48389 has 6 MA's), (93, 48344), (128, 48236), (130, 48227), (155, 48104), (194, 47945), (197, 47939), (204, 47915), (225, 47807), (232, 47777), (248, 47708), (292, 47570), (296, 47552), (335, 47399), (343, 47357), (354, 47279), (356, 47264), (376, 47126), (431, 46928), (440, 46874), (441, 46871), (454, 46811), (466, 46760), (481, 46691), (494, 46646), (549, 46406), (558, 46364), (559, 46361), (561, 46355), (565, 46337), (590, 46241), (603, 46187), (665, 46043), (669, 46034), (695, 45959), (718, 45884), (735, 45830), (753, 45788), (769, 45740), (794, 45659), (801, 45638), (827, 45548), (836, 45518), (841, 45494), (842, 45491), (892, 45308), (907, 45251),

Gene: NuevoMundo_212 Start: 115367, Stop: 118762, Start Num: 68

Candidate Starts for NuevoMundo_212:

(Start: 26 @115274 has 44 MA's), (Start: 28 @115280 has 6 MA's), (Start: 32 @115292 has 8 MA's), (37, 115301), (Start: 68 @115367 has 162 MA's), (84, 115442), (103, 115556), (109, 115580), (127, 115640), (151, 115751), (157, 115790), (164, 115814), (173, 115856), (203, 115955), (214, 115997), (216, 116003), (219, 116015), (229, 116078), (242, 116138), (243, 116141), (250, 116168), (261, 116210), (279, 116273), (330, 116429), (335, 116447), (338, 116462), (351, 116579), (357, 116618), (372, 116738), (380, 116780), (389, 116825), (391, 116834), (402, 116885), (414, 116927), (432, 116993), (434, 117002), (435, 117005), (436, 117011), (437, 117014), (438, 117023), (439, 117029), (440, 117044), (462, 117131), (483, 117236), (495, 117290), (510, 117377), (516, 117407), (526, 117437), (533, 117470), (535, 117479), (546, 117551), (552, 117581), (577, 117698), (589, 117743), (601, 117785), (660, 117929), (675, 117989), (715, 118091), (750, 118178), (751, 118181), (761, 118199), (771, 118235), (772, 118238), (793, 118298), (798, 118316), (827, 118412), (836, 118442), (839, 118460), (846, 118490), (879, 118583), (883, 118598), (900, 118679), (902, 118685), (905, 118697),

Gene: Oaker_77 Start: 56089, Stop: 59412, Start Num: 53

Candidate Starts for Oaker_77:

(Start: 53 @56089 has 1 MA's), (Start: 73 @56116 has 88 MA's), (85, 56188), (Start: 89 @56212 has 6 MA's), (92, 56245), (130, 56380), (150, 56473), (153, 56491), (165, 56539), (179, 56599), (224, 56791), (284, 57025), (299, 57082), (316, 57136), (323, 57181), (331, 57208), (338, 57238), (356, 57361), (359, 57400), (365, 57442), (378, 57520), (382, 57538), (386, 57556), (408, 57643), (441, 57799), (459, 57883), (473, 57961), (478, 57982), (481, 57991), (482, 57997), (485, 58006), (504, 58078), (507, 58093), (514, 58132), (519, 58144), (539, 58237), (540, 58243), (550, 58291), (559, 58333), (599, 58483), (601, 58495), (651, 58579), (677, 58720), (720, 58825), (795, 58924), (797, 58933), (820, 59011), (830, 59050), (834, 59065), (846, 59113), (877, 59209), (882, 59227), (886, 59254), (898, 59302), (905, 59332), (906, 59335), (910, 59350), (918, 59380), (920, 59389), (922, 59395), (923, 59398),

Gene: Oliynyk_55 Start: 40726, Stop: 37247, Start Num: 68

Candidate Starts for Oliynyk_55:

(Start: 36 @40795 has 1 MA's), (Start: 68 @40726 has 162 MA's), (84, 40654), (Start: 89 @40627 has 6 MA's), (91, 40612), (123, 40450), (126, 40423), (128, 40417), (144, 40327), (150, 40312), (160, 40258), (161, 40255), (188, 40159), (218, 40081), (247, 39934), (257, 39895), (269, 39850), (276, 39829), (283, 39814), (304, 39772), (308, 39760), (325, 39694), (329, 39682), (343, 39619), (359, 39490), (360, 39481), (366, 39445), (381, 39361), (383, 39343), (398, 39286), (399, 39283), (401, 39271), (438, 39133), (439, 39127), (440, 39112), (442, 39106), (451, 39067), (468, 38995), (474, 38962), (508, 38845), (512, 38821), (530, 38764), (534, 38740), (535, 38734), (546, 38665), (558, 38602), (574, 38536), (578, 38515), (583, 38497), (601, 38440), (602, 38431), (655, 38323), (657, 38314), (661, 38302), (663, 38281), (673, 38251), (678, 38224), (709, 38158), (711, 38149), (714, 38137), (747, 38050), (756, 38026), (772, 37978), (812, 37834), (832, 37759), (880, 37585), (887, 37549), (899, 37501), (908, 37468),

Gene: Oogie_96 Start: 71972, Stop: 74785, Start Num: 58

Candidate Starts for Oogie_96:

(Start: 49 @71957 has 1 MA's), (Start: 56 @71969 has 2 MA's), (Start: 58 @71972 has 5 MA's), (84, 72065), (92, 72125), (125, 72275), (126, 72278), (128, 72284), (136, 72326), (147, 72383), (153, 72413), (154, 72416), (167, 72479), (173, 72500), (174, 72503), (183, 72530), (208, 72620), (218, 72656), (226, 72713), (229, 72722), (262, 72854), (325, 73019), (330, 73037), (334, 73052), (336, 73058), (338, 73070), (345, 73097), (346, 73100), (353, 73160), (354, 73169), (355, 73172), (357, 73184), (360, 73229), (371, 73298), (374, 73322), (407, 73478), (413, 73496), (416, 73520), (423, 73538), (442, 73634), (450, 73676), (462, 73718), (464, 73727), (467, 73745), (468, 73751), (472, 73775), (473, 73781), (474, 73784), (478, 73802), (479, 73805), (508, 73898), (519, 73943), (522, 73949), (528, 73973), (529, 73976), (531, 73985), (532, 73991), (534, 74003), (556, 74120), (558, 74138), (559, 74141), (562, 74150), (592, 74264), (597, 74279), (655, 74426), (659, 74438), (661, 74444), (676, 74510), (680, 74528), (685, 74540), (689, 74549), (732, 74663), (737, 74675), (744, 74690), (768, 74765), (771, 74774),

Gene: OtterstedtS21_79 Start: 52012, Stop: 55257, Start Num: 89

Candidate Starts for OtterstedtS21_79:

(Start: 82 @51976 has 1 MA's), (Start: 89 @52012 has 6 MA's), (93, 52057), (103, 52099), (166, 52360), (194, 52462), (205, 52495), (224, 52591), (288, 52861), (289, 52870), (316, 52978), (324, 53023), (335, 53065), (356, 53197), (357, 53200), (358, 53230), (372, 53320), (382, 53374), (404, 53473), (412, 53488), (429, 53530), (466, 53704), (472, 53737), (476, 53755), (477, 53758), (481, 53773), (494, 53818), (495, 53821), (524, 53917), (534, 53959), (536, 53971), (541, 54007), (582, 54187), (596, 54229), (603, 54265), (643, 54319), (651, 54337), (669, 54433), (671, 54445), (739, 54640), (798, 54724), (827, 54829), (831, 54844), (840, 54880), (844, 54892), (845, 54898), (846, 54901), (855, 54928), (873, 54973), (893, 55081), (906, 55126), (912, 55150), (922, 55186),

Gene: Outis_61 Start: 48867, Stop: 45550, Start Num: 73

Candidate Starts for Outis_61:

(Start: 73 @48867 has 88 MA's), (81, 48810), (Start: 89 @48771 has 6 MA's), (128, 48618), (130, 48609), (155, 48486), (194, 48327), (197, 48321), (204, 48297), (225, 48189), (252, 48078), (292, 47952), (335, 47781), (343, 47739), (348, 47700), (354, 47661), (356, 47646), (376, 47508), (402, 47376), (431, 47310), (441, 47253), (454, 47193), (466, 47142), (481, 47073), (494, 47028), (549, 46785), (558, 46743), (559, 46740), (561, 46734), (565, 46716), (590, 46620), (603, 46566), (669, 46413), (682, 46362), (686, 46353), (735, 46209), (766, 46131), (769, 46116), (790, 46056), (794, 46035), (801, 46014), (814, 45966), (838, 45882), (841, 45870), (842, 45867), (874, 45774), (916, 45591), (925, 45561),

Gene: Ozzie_52 Start: 40340, Stop: 36861, Start Num: 68

Candidate Starts for Ozzie_52:

(Start: 68 @40340 has 162 MA's), (84, 40268), (Start: 89 @40241 has 6 MA's), (91, 40226), (123, 40064), (126, 40037), (128, 40031), (144, 39941), (150, 39926), (160, 39872), (161, 39869), (188, 39773), (218, 39695), (247, 39548), (257, 39509), (269, 39464), (276, 39443), (283, 39428), (304, 39386), (308, 39374), (325, 39308), (329, 39296), (343, 39233), (359, 39104), (360, 39095), (366, 39059), (381, 38975), (383, 38957), (398, 38900), (399, 38897), (401, 38885), (438, 38747), (439, 38741), (440, 38726), (442, 38720), (449, 38687), (468, 38609), (474, 38576), (512, 38435), (530, 38378), (534, 38354), (535, 38348), (546, 38279), (558, 38216), (574, 38150), (578, 38129), (583, 38111), (601, 38054), (602, 38045), (655, 37937), (657, 37928), (661, 37916), (663, 37895), (673, 37865), (678, 37838), (709, 37772), (711, 37763), (714, 37751), (747, 37664), (756, 37640), (772, 37592), (812, 37448), (832, 37373), (880, 37199), (887, 37163), (899, 37115), (908, 37082),

Gene: OzzyJ_56 Start: 42394, Stop: 38909, Start Num: 68

Candidate Starts for OzzyJ_56:

(Start: 36 @42463 has 1 MA's), (Start: 68 @42394 has 162 MA's), (Start: 82 @42331 has 1 MA's), (84, 42322), (90, 42286), (107, 42187), (117, 42154), (123, 42118), (135, 42049), (144, 41995), (161, 41923), (168, 41887), (188, 41827), (247, 41602), (257, 41563), (266, 41536), (269, 41518), (276, 41497), (283, 41482), (304, 41440), (325, 41362), (329, 41350), (358, 41164), (359, 41158), (366, 41113), (381, 41029), (383, 41011), (398, 40954), (399, 40951), (401, 40939), (438, 40801), (439, 40795), (440, 40780), (442, 40774), (449, 40741), (468, 40663), (474, 40630), (512, 40489), (534, 40408), (535, 40402), (546, 40333), (555, 40291), (558, 40270), (564, 40249), (574, 40204), (601, 40108), (602, 40099), (604, 40093), (655, 39991), (657, 39982), (661, 39970), (663, 39949), (673, 39919), (678, 39892), (709, 39826), (711, 39817), (714, 39805), (747, 39718), (796, 39550), (812, 39502), (840, 39391), (845, 39370), (880, 39253), (883, 39244), (887, 39217), (899, 39169), (908, 39136), (933, 39004), (934, 38992),

Gene: PBI1_63 Start: 49783, Stop: 52983, Start Num: 73

Candidate Starts for PBI1_63:

(Start: 29 @49681 has 19 MA's), (Start: 64 @49768 has 1 MA's), (Start: 67 @49774 has 1 MA's), (Start: 73 @49783 has 88 MA's), (Start: 89 @49879 has 6 MA's), (130, 50035), (148, 50122), (149, 50125), (159, 50176), (224, 50440), (232, 50479), (249, 50551), (252, 50560), (270, 50635), (292, 50701), (294, 50707), (309, 50761), (316, 50779), (325, 50830), (326, 50833), (334, 50863), (349, 50947), (350, 50956), (354, 50983), (356, 50998), (382, 51175), (383, 51184), (412, 51289), (438, 51370), (448, 51430), (466, 51505), (472, 51538), (473, 51544), (478, 51565), (481, 51574), (494, 51619), (514, 51688), (520, 51703), (536, 51772), (547, 51835), (556, 51868), (557, 51871), (568, 51922), (584, 51997), (643, 52120), (651, 52138), (668, 52216), (669, 52219), (671, 52231), (685, 52276), (695, 52297), (699, 52309), (711, 52339), (717, 52360), (777, 52432), (798, 52489), (826, 52588), (844, 52654), (875, 52744), (881, 52774), (882, 52777), (887, 52807), (896, 52852), (907, 52894), (914, 52924), (918, 52936), (922, 52951), (925, 52960),

Gene: PHTowN_51 Start: 38862, Stop: 35665, Start Num: 73

Candidate Starts for PHTowN_51:

(62, 38883), (Start: 73 @38862 has 88 MA's), (79, 38820), (Start: 89 @38766 has 6 MA's), (96, 38712), (114, 38643), (116, 38634), (118, 38625), (124, 38595), (130, 38562), (137, 38526), (144, 38484), (148, 38472), (159, 38418), (187, 38349), (193, 38310), (206, 38268), (210, 38247), (224, 38175), (233, 38133), (246, 38070), (247, 38067), (273, 37962), (277, 37953), (293, 37911), (298, 37896), (303, 37881), (335, 37755), (349, 37674), (354, 37638), (356, 37623), (357, 37620), (368, 37527), (383, 37437), (440, 37230), (447, 37197), (459, 37146), (472, 37074), (473, 37068), (481, 37038), (489, 37008), (513, 36927), (519, 36912), (542, 36798), (573, 36663), (637, 36519), (639, 36507), (643, 36495), (651, 36477), (667, 36384), (699, 36279), (720, 36222), (790, 36168), (795, 36144), (827, 36027), (881, 35856), (884, 35844), (887, 35823), (905, 35745), (907, 35739), (916, 35703), (920, 35688),

Gene: PLOT_66 Start: 49805, Stop: 53005, Start Num: 73

Candidate Starts for PLOT_66:

(Start: 29 @49703 has 19 MA's), (Start: 64 @49790 has 1 MA's), (Start: 73 @49805 has 88 MA's), (Start: 89 @49901 has 6 MA's), (130, 50057), (148, 50144), (149, 50147), (159, 50198), (224, 50462), (232, 50501), (249, 50573), (252, 50582), (270, 50657), (292, 50723), (294, 50729), (309, 50783), (316, 50801), (325, 50852), (326, 50855), (334, 50885), (349, 50969), (350, 50978), (354, 51005), (356, 51020), (382, 51197), (383, 51206), (412, 51311), (438, 51392), (466, 51527), (472, 51560), (473, 51566), (478, 51587), (481, 51596), (494, 51641), (514, 51710), (520, 51725), (526, 51746), (536, 51794), (547, 51857), (556, 51890), (557, 51893), (558, 51908), (568, 51944), (584, 52019), (643, 52142), (651, 52160), (668, 52238), (669, 52241), (671, 52253), (685, 52298), (695, 52319), (699, 52331), (711, 52361), (717, 52382), (777, 52454), (798, 52511), (826, 52610), (844, 52676), (875, 52766), (881, 52796), (882, 52799), (887, 52829), (896, 52874), (898, 52877), (907, 52916), (914, 52946), (918, 52958), (922, 52973), (925, 52982),

Gene: PacManQ_81 Start: 58543, Stop: 61827, Start Num: 70

Candidate Starts for PacManQ_81:

(Start: 70 @58543 has 57 MA's), (79, 58588), (85, 58618), (88, 58636), (Start: 89 @58642 has 6 MA's), (146, 58921), (168, 59023), (189, 59101), (213, 59206), (225, 59269), (227, 59275), (236, 59314), (262, 59431), (304, 59515), (337, 59641), (345, 59671), (349, 59710), (350, 59719), (380, 59917), (439, 60097), (460, 60202), (461, 60208), (462, 60214), (478, 60298), (486, 60328), (502, 60370), (508, 60397), (514, 60430), (517, 60442), (534, 60505), (546, 60577), (559, 60631), (562, 60640), (564, 60649), (566, 60658), (568, 60664), (622, 60907), (638, 60976), (641, 60988), (664, 61093), (725, 61288), (736, 61321), (759, 61372), (771, 61411), (773, 61417), (791, 61483), (806, 61531), (818, 61567), (830, 61612), (832, 61621), (842, 61663), (857, 61708), (858, 61711), (864, 61726),

Gene: Pakusa_93 Start: 69747, Stop: 72575, Start Num: 49

Candidate Starts for Pakusa_93:

(Start: 49 @69747 has 1 MA's), (Start: 56 @69759 has 2 MA's), (Start: 58 @69762 has 5 MA's), (84, 69855), (92, 69915), (125, 70065), (126, 70068), (128, 70074), (147, 70173), (153, 70203), (154, 70206), (167, 70269), (173, 70290), (174, 70293), (183, 70320), (216, 70437), (218, 70446), (226, 70503), (229, 70512), (245, 70578), (262, 70644), (325, 70809), (330, 70827), (334, 70842), (336, 70848), (338, 70860), (345, 70887), (346, 70890), (353, 70950), (354, 70959), (355, 70962), (357, 70974), (360, 71019), (371, 71088), (374, 71112), (407, 71268), (413, 71286), (416, 71310), (423, 71328), (442, 71424), (450, 71466), (453, 71472), (462, 71508), (464, 71517), (467, 71535), (468, 71541), (472, 71565), (473, 71571), (474, 71574), (478, 71592), (479, 71595), (508, 71688), (519, 71733), (522, 71739), (528, 71763), (529, 71766), (531, 71775), (532, 71781), (534, 71793), (556, 71910), (558, 71928), (559, 71931), (562, 71940), (592, 72054), (597, 72069), (655, 72216), (659, 72228), (661, 72234), (669, 72267), (676, 72300), (680, 72318), (685, 72330), (689, 72339), (732, 72453), (737, 72465), (744, 72480), (768, 72555), (771, 72564),

Gene: Paradiddles_75 Start: 57744, Stop: 61028, Start Num: 70

Candidate Starts for Paradiddles_75:

(Start: 70 @57744 has 57 MA's), (79, 57789), (85, 57819), (88, 57837), (Start: 89 @57843 has 6 MA's), (99, 57909), (146, 58122), (149, 58128), (168, 58224), (189, 58302), (213, 58407), (225, 58470), (227, 58476), (236, 58515), (262, 58632), (310, 58731), (337, 58842), (345, 58872), (349, 58911), (387, 59154), (439, 59298), (440, 59313), (460, 59403), (461, 59409), (462, 59415), (466, 59439), (478, 59499), (499, 59562), (502, 59571), (517, 59643), (534, 59706), (546, 59778), (559, 59832), (562, 59841), (564, 59850), (566, 59859), (568, 59865), (587, 59946), (606, 60045), (622, 60108), (638, 60177), (641, 60189), (689, 60375), (696, 60393), (725, 60489), (736, 60522), (759, 60573), (771, 60612), (773, 60618), (791, 60684), (800, 60714), (806, 60732), (818, 60768), (830, 60813), (832, 60822), (837, 60843), (842, 60864), (858, 60912), (864, 60927),

Gene: ParkTD_208 Start: 113377, Stop: 116772, Start Num: 68

Candidate Starts for ParkTD_208:

(Start: 26 @113284 has 44 MA's), (Start: 28 @113290 has 6 MA's), (Start: 32 @113302 has 8 MA's), (37, 113311), (Start: 68 @113377 has 162 MA's), (84, 113452), (103, 113566), (109, 113590), (127, 113650), (151, 113761), (157, 113800), (164, 113824), (173, 113866), (203, 113965), (214, 114007), (216, 114013), (219, 114025), (229, 114088), (242, 114148), (243, 114151), (250, 114178), (261, 114220), (279, 114283), (321, 114403), (330, 114439), (335, 114457), (338, 114472), (351, 114589), (357, 114628), (372, 114748), (380, 114790), (389, 114835), (391, 114844), (402, 114895), (414, 114937), (432, 115003), (434, 115012), (435, 115015), (436, 115021), (437, 115024), (438, 115033), (439, 115039), (440, 115054), (462, 115141), (483, 115246), (495, 115300), (510, 115387), (516, 115417), (526, 115447), (533, 115480), (535, 115489), (546, 115561), (552, 115591), (577, 115708), (589, 115753), (601, 115795), (660, 115939), (675, 115999), (715, 116101), (750, 116188), (751, 116191), (761, 116209), (771, 116245), (772, 116248), (793, 116308), (798, 116326), (827, 116422), (836, 116452), (839, 116470), (846, 116500), (879, 116593), (883, 116608), (900, 116689), (902,

116695), (905, 116707),

Gene: ParvusTarda_77 Start: 51186, Stop: 54527, Start Num: 73

Candidate Starts for ParvusTarda_77:

(47, 51138), (Start: 73 @51186 has 88 MA's), (Start: 82 @51246 has 1 MA's), (Start: 89 @51282 has 6 MA's), (93, 51327), (103, 51369), (166, 51630), (194, 51732), (205, 51765), (224, 51861), (288, 52131), (289, 52140), (316, 52248), (324, 52293), (335, 52335), (356, 52467), (357, 52470), (358, 52500), (361, 52521), (372, 52590), (382, 52644), (404, 52743), (412, 52758), (466, 52974), (472, 53007), (476, 53025), (481, 53043), (494, 53088), (495, 53091), (524, 53187), (534, 53229), (536, 53241), (541, 53277), (582, 53457), (596, 53499), (603, 53535), (643, 53589), (651, 53607), (669, 53703), (671, 53715), (739, 53910), (798, 53994), (827, 54099), (831, 54114), (840, 54150), (844, 54162), (845, 54168), (846, 54171), (855, 54198), (873, 54243), (893, 54351), (906, 54396), (912, 54420), (922, 54456),

Gene: Patelgo_60 Start: 49984, Stop: 53274, Start Num: 70

Candidate Starts for Patelgo_60:

(Start: 70 @49984 has 57 MA's), (75, 49999), (85, 50056), (88, 50074), (Start: 89 @50080 has 6 MA's), (132, 50290), (146, 50359), (149, 50365), (153, 50389), (159, 50419), (188, 50533), (189, 50539), (190, 50551), (213, 50644), (225, 50707), (227, 50713), (236, 50752), (254, 50842), (310, 50968), (337, 51079), (349, 51148), (353, 51175), (431, 51496), (439, 51535), (457, 51634), (461, 51646), (462, 51652), (466, 51676), (468, 51685), (474, 51718), (478, 51736), (499, 51799), (502, 51808), (516, 51874), (517, 51880), (534, 51943), (546, 52015), (559, 52069), (562, 52078), (564, 52087), (566, 52096), (568, 52102), (601, 52228), (608, 52294), (626, 52354), (627, 52357), (638, 52414), (644, 52432), (660, 52495), (665, 52537), (678, 52585), (727, 52735), (758, 52804), (759, 52810), (791, 52921), (793, 52930), (800, 52951), (820, 53014), (842, 53101), (861, 53152), (864, 53164), (882, 53218),

Gene: Patience_91 Start: 58279, Stop: 61512, Start Num: 73

Candidate Starts for Patience_91:

(Start: 57 @58252 has 1 MA's), (Start: 73 @58279 has 88 MA's), (Start: 89 @58375 has 6 MA's), (130, 58540), (154, 58654), (172, 58738), (188, 58789), (224, 58954), (351, 59452), (356, 59497), (359, 59536), (397, 59740), (419, 59821), (438, 59881), (446, 59932), (466, 60028), (468, 60037), (472, 60061), (473, 60067), (481, 60097), (482, 60103), (514, 60235), (515, 60238), (519, 60247), (531, 60289), (534, 60307), (559, 60439), (651, 60685), (681, 60835), (704, 60892), (720, 60934), (730, 60958), (798, 61027), (844, 61195), (875, 61285), (886, 61357), (904, 61432),

Gene: Patio_62 Start: 48881, Stop: 45567, Start Num: 73

Candidate Starts for Patio_62:

(1, 49133), (10, 49046), (14, 49019), (Start: 73 @48881 has 88 MA's), (Start: 89 @48785 has 6 MA's), (128, 48632), (130, 48623), (155, 48500), (194, 48341), (197, 48335), (225, 48203), (232, 48173), (241, 48134), (252, 48092), (271, 48011), (292, 47966), (335, 47795), (343, 47753), (354, 47675), (356, 47660), (376, 47522), (431, 47324), (441, 47267), (450, 47222), (466, 47156), (476, 47105), (481, 47087), (494, 47042), (549, 46799), (558, 46757), (559, 46754), (561, 46748), (565, 46730), (590, 46634), (596, 46616), (603, 46580), (665, 46436), (669, 46427), (674, 46403), (695, 46352), (735, 46223), (753, 46181), (769, 46133), (772, 46124), (790, 46073), (794, 46052), (801, 46031), (845, 45875), (850, 45860), (916, 45611),

Gene: Patos_84 Start: 53276, Stop: 56584, Start Num: 78

Candidate Starts for Patos_84:

(Start: 78 @53276 has 4 MA's), (Start: 82 @53303 has 1 MA's), (Start: 89 @53339 has 6 MA's), (93, 53384), (103, 53426), (166, 53687), (194, 53789), (205, 53822), (224, 53918), (288, 54188), (289, 54197), (316, 54305), (324, 54350), (335, 54392), (356, 54524), (357, 54527), (358, 54557), (361, 54578), (372, 54647), (382, 54701), (404, 54800), (412, 54815), (429, 54857), (466, 55031), (472,

55064), (476, 55082), (481, 55100), (494, 55145), (495, 55148), (524, 55244), (534, 55286), (536, 55298), (541, 55334), (582, 55514), (596, 55556), (603, 55592), (643, 55646), (651, 55664), (669, 55760), (671, 55772), (739, 55967), (798, 56051), (827, 56156), (831, 56171), (840, 56207), (844, 56219), (845, 56225), (846, 56228), (855, 56255), (873, 56300), (893, 56408), (906, 56453), (912, 56477), (922, 56513),

Gene: Patter_210 Start: 112391, Stop: 115786, Start Num: 68

Candidate Starts for Patter_210:

(Start: 26 @112298 has 44 MA's), (Start: 28 @112304 has 6 MA's), (Start: 32 @112316 has 8 MA's), (37, 112325), (Start: 68 @112391 has 162 MA's), (84, 112466), (103, 112580), (109, 112604), (127, 112664), (151, 112775), (157, 112814), (164, 112838), (173, 112880), (203, 112979), (214, 113021), (216, 113027), (219, 113039), (229, 113102), (242, 113162), (243, 113165), (250, 113192), (261, 113234), (279, 113297), (321, 113417), (330, 113453), (335, 113471), (338, 113486), (351, 113603), (357, 113642), (372, 113762), (380, 113804), (389, 113849), (391, 113858), (402, 113909), (414, 113951), (432, 114017), (434, 114026), (435, 114029), (436, 114035), (437, 114038), (438, 114047), (439, 114053), (440, 114068), (462, 114155), (483, 114260), (495, 114314), (510, 114401), (516, 114431), (526, 114461), (533, 114494), (535, 114503), (546, 114575), (552, 114605), (577, 114722), (589, 114767), (601, 114809), (660, 114953), (675, 115013), (715, 115115), (750, 115202), (751, 115205), (761, 115223), (771, 115259), (772, 115262), (793, 115322), (798, 115340), (827, 115436), (836, 115466), (839, 115484), (846, 115514), (879, 115607), (883, 115622), (900, 115703), (902, 115709), (905, 115721),

Gene: Peebs_79 Start: 58897, Stop: 62181, Start Num: 70

Candidate Starts for Peebs_79:

(Start: 70 @58897 has 57 MA's), (79, 58942), (85, 58972), (88, 58990), (Start: 89 @58996 has 6 MA's), (146, 59275), (168, 59377), (189, 59455), (213, 59560), (225, 59623), (227, 59629), (236, 59668), (262, 59785), (304, 59869), (337, 59995), (345, 60025), (349, 60064), (350, 60073), (439, 60451), (460, 60556), (461, 60562), (462, 60568), (466, 60592), (478, 60652), (486, 60682), (487, 60685), (502, 60724), (508, 60751), (517, 60796), (534, 60859), (546, 60931), (559, 60985), (562, 60994), (564, 61003), (566, 61012), (568, 61018), (622, 61261), (638, 61330), (641, 61342), (664, 61447), (725, 61642), (736, 61675), (759, 61726), (773, 61771), (791, 61837), (806, 61885), (818, 61921), (830, 61966), (832, 61975), (842, 62017), (857, 62062), (858, 62065), (864, 62080),

Gene: Penelope2018_67 Start: 49737, Stop: 53039, Start Num: 29

Candidate Starts for Penelope2018_67:

(Start: 29 @49737 has 19 MA's), (Start: 64 @49824 has 1 MA's), (Start: 67 @49830 has 1 MA's), (Start: 73 @49839 has 88 MA's), (Start: 89 @49935 has 6 MA's), (130, 50091), (148, 50178), (149, 50181), (159, 50232), (224, 50496), (232, 50535), (249, 50607), (252, 50616), (270, 50691), (292, 50757), (294, 50763), (309, 50817), (316, 50835), (325, 50886), (326, 50889), (334, 50919), (349, 51003), (350, 51012), (354, 51039), (356, 51054), (382, 51231), (383, 51240), (412, 51345), (438, 51426), (448, 51486), (466, 51561), (472, 51594), (473, 51600), (478, 51621), (481, 51630), (494, 51675), (514, 51744), (520, 51759), (536, 51828), (547, 51891), (556, 51924), (557, 51927), (568, 51978), (584, 52053), (643, 52176), (651, 52194), (668, 52272), (669, 52275), (671, 52287), (685, 52332), (695, 52353), (699, 52365), (711, 52395), (717, 52416), (777, 52488), (798, 52545), (826, 52644), (844, 52710), (875, 52800), (881, 52830), (882, 52833), (887, 52863), (896, 52908), (907, 52950), (914, 52980), (918, 52992), (922, 53007), (925, 53016),

Gene: Pepperwood_80 Start: 59030, Stop: 62314, Start Num: 70

Candidate Starts for Pepperwood_80:

(Start: 70 @59030 has 57 MA's), (79, 59075), (85, 59105), (88, 59123), (Start: 89 @59129 has 6 MA's), (146, 59408), (189, 59588), (213, 59693), (225, 59756), (227, 59762), (236, 59801), (262, 59918), (304, 60002), (337, 60128), (345, 60158), (349, 60197), (350, 60206), (380, 60404), (439, 60584), (460, 60689), (461, 60695), (462, 60701), (478, 60785), (486, 60815), (502, 60857), (508,

60884), (514, 60917), (517, 60929), (534, 60992), (546, 61064), (559, 61118), (562, 61127), (564, 61136), (566, 61145), (568, 61151), (622, 61394), (638, 61463), (641, 61475), (664, 61580), (725, 61775), (736, 61808), (759, 61859), (773, 61904), (791, 61970), (806, 62018), (818, 62054), (830, 62099), (832, 62108), (842, 62150), (857, 62195), (858, 62198), (864, 62213),

Gene: Peregrin_100 Start: 61340, Stop: 64219, Start Num: 264

Candidate Starts for Peregrin_100:

(251, 61292), (258, 61322), (260, 61328), (Start: 264 @61340 has 3 MA's), (302, 61418), (310, 61445), (351, 61637), (383, 61859), (384, 61862), (392, 61895), (472, 62183), (478, 62210), (484, 62234), (502, 62282), (517, 62354), (526, 62378), (559, 62540), (566, 62567), (620, 62825), (622, 62849), (629, 62876), (635, 62921), (639, 62948), (653, 62987), (680, 63128), (696, 63173), (714, 63236), (727, 63281), (775, 63416), (789, 63464), (801, 63512), (811, 63548), (815, 63563), (837, 63650), (852, 63710), (861, 63725), (870, 63746), (915, 63941), (917, 63947), (926, 63974), (929, 63995), (932, 64016), (935, 64055), (937, 64064), (944, 64118), (946, 64124), (953, 64196),

Gene: Persimmon_77 Start: 57413, Stop: 60697, Start Num: 70

Candidate Starts for Persimmon_77:

(Start: 70 @57413 has 57 MA's), (79, 57458), (85, 57488), (88, 57506), (Start: 89 @57512 has 6 MA's), (99, 57578), (146, 57791), (149, 57797), (168, 57893), (189, 57971), (213, 58076), (225, 58139), (227, 58145), (236, 58184), (262, 58301), (310, 58400), (337, 58511), (345, 58541), (349, 58580), (387, 58823), (439, 58967), (440, 58982), (461, 59078), (462, 59084), (466, 59108), (478, 59168), (499, 59231), (502, 59240), (517, 59312), (534, 59375), (546, 59447), (559, 59501), (562, 59510), (564, 59519), (566, 59528), (568, 59534), (587, 59615), (606, 59714), (622, 59777), (638, 59846), (641, 59858), (689, 60044), (696, 60062), (725, 60158), (736, 60191), (759, 60242), (771, 60281), (773, 60287), (791, 60353), (800, 60383), (806, 60401), (818, 60437), (830, 60482), (832, 60491), (837, 60512), (842, 60533), (858, 60581), (864, 60596),

Gene: PeteyPab_45 Start: 42797, Stop: 39504, Start Num: 73

Candidate Starts for PeteyPab_45:

(Start: 73 @42797 has 88 MA's), (81, 42740), (86, 42716), (Start: 89 @42701 has 6 MA's), (90, 42692), (130, 42545), (171, 42338), (182, 42263), (185, 42239), (194, 42185), (300, 41771), (325, 41669), (352, 41534), (354, 41516), (356, 41501), (368, 41405), (419, 41186), (420, 41183), (429, 41168), (437, 41138), (440, 41108), (466, 40991), (472, 40958), (478, 40931), (484, 40907), (525, 40760), (536, 40706), (539, 40685), (557, 40610), (559, 40592), (603, 40415), (637, 40385), (645, 40358), (651, 40343), (683, 40214), (721, 40181), (763, 40094), (798, 39980), (801, 39974), (805, 39962), (846, 39812), (847, 39809), (849, 39803), (855, 39785), (859, 39776), (867, 39758), (891, 39656), (893, 39632), (903, 39596), (904, 39590),

Gene: Phabba_203 Start: 109747, Stop: 113163, Start Num: 63

Candidate Starts for Phabba_203:

(Start: 63 @109747 has 3 MA's), (95, 109909), (110, 109972), (150, 110137), (173, 110245), (206, 110365), (214, 110398), (216, 110404), (226, 110470), (229, 110479), (242, 110536), (243, 110539), (250, 110566), (266, 110623), (270, 110644), (279, 110668), (335, 110842), (338, 110857), (339, 110860), (349, 110962), (368, 111106), (372, 111133), (391, 111229), (409, 111295), (425, 111352), (434, 111397), (435, 111400), (439, 111424), (442, 111445), (462, 111529), (464, 111538), (468, 111562), (497, 111697), (530, 111844), (531, 111850), (533, 111865), (535, 111874), (538, 111898), (544, 111943), (552, 111970), (559, 112000), (579, 112087), (589, 112123), (603, 112189), (639, 112231), (643, 112243), (647, 112252), (661, 112312), (666, 112354), (675, 112390), (714, 112489), (772, 112639), (785, 112672), (821, 112792), (822, 112795), (836, 112846), (839, 112864), (848, 112900), (860, 112930), (868, 112948), (878, 112984), (883, 112999), (895, 113065), (897, 113068), (902, 113086), (905, 113098), (916, 113137), (921, 113155),

Gene: Phettuccine_53 Start: 40232, Stop: 36753, Start Num: 68

Candidate Starts for Phettuccine_53:

(6, 40442), (Start: 68 @40232 has 162 MA's), (84, 40160), (Start: 89 @40133 has 6 MA's), (91, 40118), (123, 39956), (126, 39929), (128, 39923), (144, 39833), (150, 39818), (160, 39764), (161, 39761), (188, 39665), (218, 39587), (247, 39440), (257, 39401), (269, 39356), (276, 39335), (283, 39320), (304, 39278), (308, 39266), (325, 39200), (329, 39188), (343, 39125), (359, 38996), (360, 38987), (366, 38951), (381, 38867), (383, 38849), (398, 38792), (399, 38789), (401, 38777), (438, 38639), (439, 38633), (440, 38618), (442, 38612), (449, 38579), (468, 38501), (474, 38468), (512, 38327), (530, 38270), (534, 38246), (535, 38240), (546, 38171), (558, 38108), (574, 38042), (578, 38021), (583, 38003), (601, 37946), (602, 37937), (655, 37829), (657, 37820), (661, 37808), (663, 37787), (673, 37757), (678, 37730), (709, 37664), (711, 37655), (714, 37643), (747, 37556), (756, 37532), (772, 37484), (812, 37340), (832, 37265), (880, 37091), (887, 37055), (899, 37007), (908, 36974),

Gene: Phlegm_213 Start: 113080, Stop: 116475, Start Num: 68

Candidate Starts for Phlegm_213:

(Start: 26 @112987 has 44 MA's), (Start: 28 @112993 has 6 MA's), (Start: 32 @113005 has 8 MA's), (37, 113014), (Start: 68 @113080 has 162 MA's), (84, 113155), (103, 113269), (109, 113293), (127, 113353), (151, 113464), (157, 113503), (164, 113527), (173, 113569), (203, 113668), (214, 113710), (216, 113716), (219, 113728), (229, 113791), (242, 113851), (243, 113854), (250, 113881), (261, 113923), (279, 113986), (330, 114142), (335, 114160), (338, 114175), (351, 114292), (357, 114331), (372, 114451), (380, 114493), (389, 114538), (391, 114547), (402, 114598), (414, 114640), (432, 114706), (434, 114715), (435, 114718), (436, 114724), (437, 114727), (438, 114736), (439, 114742), (440, 114757), (462, 114844), (483, 114949), (495, 115003), (510, 115090), (516, 115120), (526, 115150), (533, 115183), (535, 115192), (546, 115264), (552, 115294), (577, 115411), (589, 115456), (601, 115498), (660, 115642), (675, 115702), (715, 115804), (750, 115891), (751, 115894), (761, 115912), (771, 115948), (772, 115951), (793, 116011), (798, 116029), (827, 116125), (836, 116155), (839, 116173), (846, 116203), (879, 116296), (883, 116311), (900, 116392), (902, 116398), (905, 116410),

Gene: Phomeo_59 Start: 48754, Stop: 45443, Start Num: 73

Candidate Starts for Phomeo_59:

(4, 48997), (Start: 73 @48754 has 88 MA's), (85, 48682), (Start: 89 @48658 has 6 MA's), (128, 48505), (130, 48496), (155, 48373), (194, 48214), (197, 48208), (204, 48184), (225, 48076), (232, 48046), (248, 47977), (292, 47839), (296, 47821), (335, 47668), (343, 47626), (354, 47548), (356, 47533), (376, 47395), (431, 47197), (440, 47143), (441, 47140), (454, 47080), (466, 47029), (481, 46960), (494, 46915), (549, 46675), (558, 46633), (559, 46630), (561, 46624), (565, 46606), (590, 46510), (603, 46456), (665, 46312), (669, 46303), (695, 46228), (718, 46153), (735, 46099), (753, 46057), (769, 46009), (794, 45928), (801, 45907), (827, 45817), (836, 45787), (841, 45763), (842, 45760), (892, 45577), (907, 45520),

Gene: Phox_210 Start: 113942, Stop: 117430, Start Num: 26

Candidate Starts for Phox_210:

(Start: 18 @113912 has 4 MA's), (Start: 26 @113942 has 44 MA's), (Start: 28 @113948 has 6 MA's), (Start: 32 @113960 has 8 MA's), (37, 113969), (Start: 68 @114035 has 162 MA's), (84, 114110), (103, 114224), (109, 114248), (127, 114308), (151, 114419), (157, 114458), (164, 114482), (173, 114524), (203, 114623), (214, 114665), (216, 114671), (219, 114683), (229, 114746), (242, 114806), (243, 114809), (250, 114836), (261, 114878), (279, 114941), (321, 115061), (330, 115097), (335, 115115), (338, 115130), (351, 115247), (357, 115286), (372, 115406), (380, 115448), (389, 115493), (391, 115502), (402, 115553), (414, 115595), (432, 115661), (434, 115670), (435, 115673), (436, 115679), (437, 115682), (438, 115691), (439, 115697), (440, 115712), (462, 115799), (483, 115904), (495, 115958), (510, 116045), (516, 116075), (526, 116105), (533, 116138), (535, 116147), (546, 116219), (552, 116249), (577, 116366), (589, 116411), (601, 116453), (660, 116597), (675, 116657), (715, 116759), (750, 116846), (751, 116849), (761, 116867), (771, 116903), (772, 116906), (793, 116966),

(798, 116984), (827, 117080), (836, 117110), (839, 117128), (846, 117158), (879, 117251), (883, 117266), (900, 117347), (902, 117353), (905, 117365),

Gene: Phrappuccino_119 Start: 86091, Stop: 89597, Start Num: 42

Candidate Starts for Phrappuccino_119:

(Start: 42 @86091 has 2 MA's), (Start: 68 @86145 has 162 MA's), (84, 86217), (105, 86340), (119, 86376), (157, 86565), (158, 86568), (188, 86688), (198, 86733), (203, 86760), (214, 86802), (216, 86808), (222, 86841), (225, 86871), (243, 86937), (250, 86964), (256, 86991), (274, 87057), (279, 87066), (299, 87099), (313, 87144), (321, 87186), (336, 87243), (338, 87255), (342, 87291), (344, 87318), (349, 87360), (351, 87372), (353, 87387), (366, 87492), (380, 87573), (384, 87597), (391, 87627), (414, 87732), (434, 87807), (440, 87849), (462, 87942), (465, 87960), (467, 87969), (493, 88080), (516, 88170), (530, 88212), (542, 88290), (546, 88311), (558, 88362), (594, 88506), (639, 88611), (659, 88686), (669, 88719), (709, 88827), (781, 89046), (782, 89052), (831, 89241), (836, 89256), (856, 89334), (879, 89409), (890, 89457), (900, 89505), (902, 89511), (916, 89559),

Gene: Phredrick_60 Start: 47859, Stop: 51149, Start Num: 70

Candidate Starts for Phredrick_60:

(Start: 70 @47859 has 57 MA's), (76, 47880), (80, 47910), (85, 47931), (Start: 89 @47955 has 6 MA's), (146, 48234), (159, 48294), (188, 48408), (189, 48414), (190, 48426), (213, 48519), (225, 48582), (227, 48588), (236, 48627), (239, 48654), (310, 48843), (315, 48858), (349, 49023), (356, 49071), (431, 49371), (439, 49410), (462, 49527), (468, 49560), (474, 49593), (478, 49611), (487, 49644), (502, 49683), (516, 49749), (517, 49755), (534, 49818), (546, 49890), (559, 49944), (562, 49953), (566, 49971), (568, 49977), (598, 50091), (606, 50157), (608, 50169), (626, 50229), (627, 50232), (644, 50307), (660, 50370), (665, 50412), (706, 50532), (727, 50610), (758, 50679), (759, 50685), (788, 50778), (791, 50796), (793, 50805), (800, 50826), (811, 50856), (820, 50889), (842, 50976), (846, 50988), (852, 51012), (864, 51039),

Gene: Phreeze_76 Start: 55086, Stop: 58382, Start Num: 73

Candidate Starts for Phreeze_76:

(Start: 53 @55059 has 1 MA's), (Start: 73 @55086 has 88 MA's), (85, 55158), (Start: 89 @55182 has 6 MA's), (90, 55191), (92, 55215), (130, 55350), (150, 55443), (153, 55461), (165, 55509), (179, 55569), (224, 55761), (284, 55995), (299, 56052), (316, 56106), (323, 56151), (331, 56178), (338, 56208), (356, 56331), (359, 56370), (365, 56412), (378, 56490), (382, 56508), (386, 56526), (388, 56538), (408, 56613), (441, 56769), (459, 56853), (473, 56931), (478, 56952), (481, 56961), (482, 56967), (485, 56976), (504, 57048), (507, 57063), (514, 57102), (519, 57114), (539, 57207), (540, 57213), (550, 57261), (559, 57303), (599, 57453), (601, 57465), (651, 57549), (677, 57690), (720, 57795), (795, 57894), (797, 57903), (820, 57981), (830, 58020), (834, 58035), (846, 58083), (877, 58179), (882, 58197), (886, 58224), (898, 58272), (905, 58302), (906, 58305), (910, 58320), (918, 58350), (920, 58359), (922, 58365), (923, 58368),

Gene: Phusco_207 Start: 111912, Stop: 115307, Start Num: 68

Candidate Starts for Phusco_207:

(Start: 26 @111819 has 44 MA's), (Start: 28 @111825 has 6 MA's), (Start: 32 @111837 has 8 MA's), (37, 111846), (Start: 68 @111912 has 162 MA's), (84, 111987), (103, 112101), (109, 112125), (127, 112185), (151, 112296), (157, 112335), (164, 112359), (173, 112401), (203, 112500), (214, 112542), (216, 112548), (219, 112560), (229, 112623), (242, 112683), (243, 112686), (250, 112713), (261, 112755), (279, 112818), (330, 112974), (335, 112992), (338, 113007), (351, 113124), (357, 113163), (372, 113283), (380, 113325), (389, 113370), (391, 113379), (402, 113430), (414, 113472), (432, 113538), (434, 113547), (435, 113550), (436, 113556), (437, 113559), (438, 113568), (439, 113574), (440, 113589), (462, 113676), (483, 113781), (495, 113835), (510, 113922), (516, 113952), (526, 113982), (533, 114015), (535, 114024), (546, 114096), (552, 114126), (577, 114243), (589, 114288), (601, 114330), (660, 114474), (675, 114534), (715, 114636), (750, 114723), (751, 114726), (761, 114744), (771, 114780), (772, 114783), (793, 114843), (798, 114861), (827, 114957), (836, 114987),

(839, 115005), (846, 115035), (879, 115128), (883, 115143), (900, 115224), (902, 115230), (905, 115242),

Gene: Pier_210 Start: 114837, Stop: 118307, Start Num: 32

Candidate Starts for Pier_210:

(11, 114744), (Start: 26 @114819 has 44 MA's), (Start: 28 @114825 has 6 MA's), (Start: 32 @114837 has 8 MA's), (37, 114846), (Start: 68 @114912 has 162 MA's), (84, 114987), (103, 115101), (109, 115125), (127, 115185), (151, 115296), (157, 115335), (164, 115359), (173, 115401), (203, 115500), (214, 115542), (216, 115548), (219, 115560), (229, 115623), (242, 115683), (243, 115686), (250, 115713), (261, 115755), (279, 115818), (330, 115974), (335, 115992), (338, 116007), (351, 116124), (357, 116163), (372, 116283), (380, 116325), (389, 116370), (391, 116379), (402, 116430), (414, 116472), (432, 116538), (434, 116547), (435, 116550), (436, 116556), (437, 116559), (438, 116568), (439, 116574), (440, 116589), (462, 116676), (483, 116781), (495, 116835), (510, 116922), (516, 116952), (526, 116982), (533, 117015), (535, 117024), (546, 117096), (552, 117126), (577, 117243), (589, 117288), (601, 117330), (660, 117474), (675, 117534), (715, 117636), (750, 117723), (751, 117726), (761, 117744), (771, 117780), (772, 117783), (793, 117843), (798, 117861), (827, 117957), (836, 117987), (839, 118005), (846, 118035), (879, 118128), (883, 118143), (900, 118224), (902, 118230), (905, 118242),

Gene: Pinkcreek_193 Start: 112195, Stop: 115683, Start Num: 26

Candidate Starts for Pinkcreek_193:

(Start: 26 @112195 has 44 MA's), (Start: 28 @112201 has 6 MA's), (Start: 32 @112213 has 8 MA's), (37, 112222), (Start: 68 @112288 has 162 MA's), (84, 112363), (103, 112477), (109, 112501), (127, 112561), (151, 112672), (157, 112711), (164, 112735), (173, 112777), (203, 112876), (214, 112918), (216, 112924), (219, 112936), (229, 112999), (242, 113059), (243, 113062), (250, 113089), (261, 113131), (279, 113194), (321, 113314), (330, 113350), (335, 113368), (338, 113383), (351, 113500), (357, 113539), (372, 113659), (380, 113701), (389, 113746), (391, 113755), (402, 113806), (414, 113848), (432, 113914), (434, 113923), (435, 113926), (436, 113932), (437, 113935), (438, 113944), (439, 113950), (440, 113965), (462, 114052), (483, 114157), (495, 114211), (510, 114298), (516, 114328), (526, 114358), (533, 114391), (535, 114400), (546, 114472), (552, 114502), (577, 114619), (589, 114664), (601, 114706), (660, 114850), (675, 114910), (715, 115012), (750, 115099), (751, 115102), (761, 115120), (771, 115156), (772, 115159), (793, 115219), (798, 115237), (827, 115333), (836, 115363), (839, 115381), (846, 115411), (879, 115504), (883, 115519), (900, 115600), (902, 115606), (905, 115618),

Gene: PinkiePie_78 Start: 58566, Stop: 61850, Start Num: 70

Candidate Starts for PinkiePie_78:

(Start: 70 @58566 has 57 MA's), (79, 58611), (85, 58641), (88, 58659), (Start: 89 @58665 has 6 MA's), (99, 58731), (146, 58944), (149, 58950), (168, 59046), (189, 59124), (213, 59229), (225, 59292), (227, 59298), (236, 59337), (262, 59454), (310, 59553), (337, 59664), (345, 59694), (349, 59733), (387, 59976), (439, 60120), (440, 60135), (461, 60231), (462, 60237), (466, 60261), (478, 60321), (499, 60384), (502, 60393), (517, 60465), (534, 60528), (546, 60600), (559, 60654), (562, 60663), (564, 60672), (566, 60681), (568, 60687), (587, 60768), (606, 60867), (622, 60930), (638, 60999), (641, 61011), (689, 61197), (696, 61215), (725, 61311), (736, 61344), (759, 61395), (771, 61434), (773, 61440), (791, 61506), (800, 61536), (806, 61554), (818, 61590), (830, 61635), (832, 61644), (837, 61665), (842, 61686), (858, 61734), (864, 61749),

Gene: Pio_217 Start: 116011, Stop: 119499, Start Num: 26

Candidate Starts for Pio_217:

(Start: 26 @116011 has 44 MA's), (Start: 28 @116017 has 6 MA's), (Start: 32 @116029 has 8 MA's), (37, 116038), (Start: 68 @116104 has 162 MA's), (84, 116179), (103, 116293), (109, 116317), (127, 116377), (151, 116488), (157, 116527), (164, 116551), (173, 116593), (203, 116692), (214, 116734), (216, 116740), (219, 116752), (229, 116815), (242, 116875), (243, 116878), (250, 116905), (261,

116947), (279, 117010), (330, 117166), (335, 117184), (338, 117199), (351, 117316), (357, 117355), (372, 117475), (380, 117517), (389, 117562), (391, 117571), (402, 117622), (414, 117664), (432, 117730), (434, 117739), (435, 117742), (436, 117748), (437, 117751), (438, 117760), (439, 117766), (440, 117781), (462, 117868), (483, 117973), (495, 118027), (510, 118114), (516, 118144), (526, 118174), (533, 118207), (535, 118216), (546, 118288), (552, 118318), (577, 118435), (589, 118480), (601, 118522), (660, 118666), (675, 118726), (715, 118828), (750, 118915), (751, 118918), (761, 118936), (771, 118972), (772, 118975), (793, 119035), (798, 119053), (827, 119149), (836, 119179), (839, 119197), (846, 119227), (879, 119320), (883, 119335), (900, 119416), (902, 119422), (905, 119434),

Gene: Pivoine_210 Start: 113080, Stop: 116475, Start Num: 68

Candidate Starts for Pivoine_210:

(Start: 26 @112987 has 44 MA's), (Start: 28 @112993 has 6 MA's), (Start: 32 @113005 has 8 MA's), (37, 113014), (Start: 68 @113080 has 162 MA's), (84, 113155), (103, 113269), (109, 113293), (127, 113353), (151, 113464), (157, 113503), (164, 113527), (173, 113569), (203, 113668), (214, 113710), (216, 113716), (219, 113728), (229, 113791), (242, 113851), (243, 113854), (250, 113881), (261, 113923), (279, 113986), (321, 114106), (330, 114142), (335, 114160), (338, 114175), (351, 114292), (357, 114331), (372, 114451), (380, 114493), (389, 114538), (391, 114547), (402, 114598), (414, 114640), (432, 114706), (434, 114715), (435, 114718), (436, 114724), (437, 114727), (438, 114736), (439, 114742), (440, 114757), (462, 114844), (483, 114949), (495, 115003), (510, 115090), (516, 115120), (526, 115150), (533, 115183), (535, 115192), (546, 115264), (552, 115294), (577, 115411), (589, 115456), (601, 115498), (660, 115642), (675, 115702), (715, 115804), (750, 115891), (751, 115894), (761, 115912), (771, 115948), (772, 115951), (793, 116011), (798, 116029), (827, 116125), (836, 116155), (839, 116173), (846, 116203), (879, 116296), (883, 116311), (900, 116392), (902, 116398), (905, 116410),

Gene: Pleakley_67 Start: 47999, Stop: 44610, Start Num: 40

Candidate Starts for Pleakley_67:

(24, 48050), (Start: 40 @47999 has 2 MA's), (45, 47981), (55, 47954), (Start: 73 @47930 has 88 MA's), (86, 47849), (Start: 89 @47834 has 6 MA's), (95, 47783), (128, 47681), (130, 47672), (152, 47567), (155, 47549), (177, 47456), (194, 47390), (197, 47384), (201, 47372), (218, 47306), (225, 47252), (252, 47141), (255, 47120), (271, 47060), (281, 47033), (292, 47015), (321, 46898), (354, 46724), (356, 46709), (376, 46571), (395, 46478), (402, 46439), (431, 46373), (438, 46340), (441, 46316), (454, 46256), (466, 46205), (467, 46202), (468, 46196), (472, 46172), (476, 46154), (481, 46136), (494, 46091), (549, 45851), (557, 45824), (559, 45806), (561, 45800), (565, 45782), (590, 45686), (596, 45668), (601, 45644), (603, 45632), (662, 45500), (666, 45479), (669, 45473), (675, 45443), (735, 45266), (752, 45230), (769, 45179), (790, 45119), (794, 45098), (801, 45077), (850, 44903), (907, 44690), (925, 44624),

Gene: Pleione_213 Start: 113768, Stop: 117250, Start Num: 28

Candidate Starts for Pleione_213:

(Start: 26 @113762 has 44 MA's), (Start: 28 @113768 has 6 MA's), (Start: 32 @113780 has 8 MA's), (37, 113789), (Start: 68 @113855 has 162 MA's), (84, 113930), (103, 114044), (109, 114068), (127, 114128), (151, 114239), (157, 114278), (164, 114302), (173, 114344), (203, 114443), (214, 114485), (216, 114491), (219, 114503), (229, 114566), (242, 114626), (243, 114629), (250, 114656), (261, 114698), (279, 114761), (321, 114881), (330, 114917), (335, 114935), (338, 114950), (351, 115067), (357, 115106), (372, 115226), (380, 115268), (389, 115313), (391, 115322), (402, 115373), (414, 115415), (432, 115481), (434, 115490), (435, 115493), (436, 115499), (437, 115502), (438, 115511), (439, 115517), (440, 115532), (462, 115619), (483, 115724), (495, 115778), (510, 115865), (516, 115895), (526, 115925), (533, 115958), (535, 115967), (546, 116039), (552, 116069), (577, 116186), (589, 116231), (601, 116273), (660, 116417), (675, 116477), (715, 116579), (750, 116666), (751, 116669), (761, 116687), (771, 116723), (772, 116726), (793, 116786), (798, 116804), (827, 116900), (836, 116930), (839, 116948), (846, 116978), (879, 117071), (883, 117086), (900, 117167), (902,

117173), (905, 117185),

Gene: Polyuyki_59 Start: 45773, Stop: 42357, Start Num: 73

Candidate Starts for Polyuyki_59:

(Start: 73 @45773 has 88 MA's), (86, 45692), (Start: 89 @45677 has 6 MA's), (107, 45569), (110, 45563), (130, 45515), (145, 45434), (155, 45392), (209, 45182), (212, 45167), (216, 45158), (221, 45134), (224, 45104), (232, 45065), (252, 44984), (262, 44942), (297, 44807), (325, 44693), (338, 44642), (340, 44624), (343, 44615), (354, 44537), (356, 44522), (359, 44483), (366, 44444), (382, 44351), (393, 44300), (395, 44294), (402, 44255), (439, 44150), (440, 44135), (441, 44132), (466, 44018), (467, 44015), (472, 43985), (476, 43967), (477, 43964), (478, 43958), (479, 43955), (488, 43922), (494, 43901), (536, 43733), (550, 43655), (558, 43616), (559, 43613), (561, 43607), (565, 43589), (590, 43493), (596, 43475), (603, 43439), (651, 43367), (669, 43274), (671, 43262), (688, 43199), (707, 43142), (746, 43013), (756, 42983), (775, 42923), (777, 42920), (790, 42866), (814, 42776), (824, 42740), (837, 42695), (841, 42680), (853, 42638), (872, 42593), (884, 42539), (885, 42530), (887, 42518), (889, 42512), (892, 42494), (904, 42443), (905, 42440), (916, 42398),

Gene: PotatoChip_46 Start: 42799, Stop: 39506, Start Num: 73

Candidate Starts for PotatoChip_46:

(Start: 73 @42799 has 88 MA's), (81, 42742), (86, 42718), (Start: 89 @42703 has 6 MA's), (90, 42694), (130, 42547), (171, 42340), (182, 42265), (185, 42241), (194, 42187), (300, 41773), (325, 41671), (352, 41536), (354, 41518), (356, 41503), (368, 41407), (419, 41188), (420, 41185), (429, 41170), (437, 41140), (440, 41110), (466, 40993), (472, 40960), (478, 40933), (484, 40909), (525, 40762), (536, 40708), (539, 40687), (557, 40612), (559, 40594), (603, 40417), (637, 40387), (645, 40360), (651, 40345), (683, 40216), (721, 40183), (763, 40096), (798, 39982), (801, 39976), (805, 39964), (846, 39814), (847, 39811), (849, 39805), (855, 39787), (859, 39778), (867, 39760), (891, 39658), (893, 39634), (903, 39598), (904, 39592),

Gene: Prager_67 Start: 49797, Stop: 53099, Start Num: 29

Candidate Starts for Prager_67:

(Start: 29 @49797 has 19 MA's), (Start: 64 @49884 has 1 MA's), (Start: 67 @49890 has 1 MA's), (Start: 73 @49899 has 88 MA's), (Start: 89 @49995 has 6 MA's), (130, 50151), (148, 50238), (149, 50241), (159, 50292), (224, 50556), (232, 50595), (249, 50667), (252, 50676), (270, 50751), (292, 50817), (294, 50823), (309, 50877), (316, 50895), (325, 50946), (326, 50949), (334, 50979), (349, 51063), (350, 51072), (354, 51099), (356, 51114), (382, 51291), (383, 51300), (412, 51405), (438, 51486), (448, 51546), (466, 51621), (472, 51654), (473, 51660), (478, 51681), (481, 51690), (494, 51735), (514, 51804), (520, 51819), (536, 51888), (547, 51951), (556, 51984), (557, 51987), (568, 52038), (584, 52113), (643, 52236), (651, 52254), (668, 52332), (669, 52335), (671, 52347), (685, 52392), (695, 52413), (699, 52425), (711, 52455), (717, 52476), (777, 52548), (798, 52605), (826, 52704), (844, 52770), (875, 52860), (881, 52890), (882, 52893), (887, 52923), (896, 52968), (907, 53010), (914, 53040), (918, 53052), (922, 53067), (925, 53076),

Gene: Predator_76 Start: 54791, Stop: 58105, Start Num: 73

Candidate Starts for Predator_76:

(Start: 53 @54761 has 1 MA's), (Start: 73 @54791 has 88 MA's), (85, 54863), (86, 54872), (Start: 89 @54887 has 6 MA's), (90, 54896), (91, 54902), (92, 54920), (130, 55055), (137, 55091), (149, 55145), (165, 55214), (187, 55292), (224, 55466), (235, 55514), (287, 55718), (299, 55790), (300, 55793), (323, 55889), (325, 55895), (331, 55916), (334, 55928), (335, 55931), (338, 55946), (351, 56024), (356, 56069), (359, 56108), (367, 56156), (369, 56168), (376, 56213), (381, 56237), (382, 56246), (386, 56264), (408, 56351), (415, 56381), (429, 56414), (441, 56477), (459, 56561), (466, 56600), (473, 56639), (478, 56660), (481, 56669), (482, 56675), (485, 56684), (488, 56693), (520, 56825), (557, 56993), (559, 57011), (562, 57020), (570, 57053), (601, 57173), (651, 57257), (692, 57437), (734, 57566), (797, 57626), (798, 57629), (799, 57632), (820, 57704), (834, 57758), (846, 57806), (882, 57920), (886, 57947), (898, 57995), (904, 58022), (910, 58043), (916, 58067),

Gene: PumpkinSpice_81 Start: 58443, Stop: 61763, Start Num: 69

Candidate Starts for PumpkinSpice_81:

(Start: 69 @58443 has 26 MA's), (80, 58494), (85, 58515), (Start: 89 @58539 has 6 MA's), (102, 58620), (146, 58818), (189, 58998), (200, 59046), (213, 59103), (223, 59154), (225, 59172), (228, 59181), (236, 59217), (259, 59325), (262, 59334), (337, 59544), (349, 59613), (372, 59778), (387, 59856), (438, 60018), (462, 60141), (466, 60165), (478, 60225), (499, 60288), (502, 60297), (546, 60501), (559, 60555), (562, 60564), (566, 60582), (568, 60588), (607, 60771), (608, 60780), (619, 60804), (622, 60831), (648, 60939), (696, 61128), (722, 61206), (732, 61248), (740, 61266), (759, 61308), (771, 61347), (773, 61353), (783, 61380), (791, 61419), (806, 61467), (809, 61476), (830, 61548), (836, 61569), (841, 61596), (842, 61599), (847, 61614), (858, 61647), (882, 61716),

Gene: Pupper_153 Start: 106237, Stop: 109692, Start Num: 68

Candidate Starts for Pupper_153:

(Start: 68 @106237 has 162 MA's), (84, 106312), (127, 106510), (134, 106546), (150, 106618), (153, 106639), (183, 106759), (188, 106783), (192, 106807), (198, 106828), (203, 106855), (214, 106897), (225, 106966), (229, 106978), (242, 107035), (243, 107038), (250, 107065), (279, 107167), (338, 107356), (339, 107359), (342, 107392), (386, 107710), (389, 107725), (390, 107728), (440, 107935), (441, 107938), (442, 107941), (443, 107950), (448, 107968), (462, 108031), (464, 108040), (475, 108103), (496, 108193), (516, 108304), (544, 108442), (546, 108445), (558, 108496), (559, 108499), (579, 108586), (643, 108757), (711, 108979), (784, 109180), (819, 109294), (821, 109303), (827, 109327), (835, 109354), (836, 109357), (839, 109375), (846, 109405), (851, 109423), (863, 109453), (865, 109456), (878, 109495), (879, 109498), (915, 109648),

Gene: PurduePete_209 Start: 114083, Stop: 117478, Start Num: 68

Candidate Starts for PurduePete_209:

(Start: 26 @113990 has 44 MA's), (Start: 28 @113996 has 6 MA's), (Start: 32 @114008 has 8 MA's), (37, 114017), (Start: 68 @114083 has 162 MA's), (84, 114158), (103, 114272), (109, 114296), (127, 114356), (151, 114467), (157, 114506), (164, 114530), (173, 114572), (203, 114671), (214, 114713), (216, 114719), (219, 114731), (229, 114794), (242, 114854), (243, 114857), (250, 114884), (261, 114926), (279, 114989), (321, 115109), (330, 115145), (335, 115163), (338, 115178), (351, 115295), (357, 115334), (372, 115454), (380, 115496), (389, 115541), (391, 115550), (402, 115601), (414, 115643), (432, 115709), (434, 115718), (435, 115721), (436, 115727), (437, 115730), (438, 115739), (439, 115745), (440, 115760), (462, 115847), (483, 115952), (495, 116006), (510, 116093), (516, 116123), (526, 116153), (533, 116186), (535, 116195), (546, 116267), (552, 116297), (577, 116414), (589, 116459), (601, 116501), (660, 116645), (675, 116705), (715, 116807), (750, 116894), (751, 116897), (761, 116915), (771, 116951), (772, 116954), (793, 117014), (798, 117032), (827, 117128), (836, 117158), (839, 117176), (846, 117206), (879, 117299), (883, 117314), (900, 117395), (902, 117401), (905, 117413),

Gene: QBert_201 Start: 112436, Stop: 115831, Start Num: 68

Candidate Starts for QBert_201:

(Start: 18 @112313 has 4 MA's), (Start: 26 @112343 has 44 MA's), (Start: 28 @112349 has 6 MA's), (Start: 32 @112361 has 8 MA's), (37, 112370), (Start: 68 @112436 has 162 MA's), (84, 112511), (103, 112625), (109, 112649), (127, 112709), (151, 112820), (157, 112859), (164, 112883), (173, 112925), (203, 113024), (214, 113066), (216, 113072), (219, 113084), (229, 113147), (242, 113207), (243, 113210), (250, 113237), (261, 113279), (279, 113342), (321, 113462), (330, 113498), (335, 113516), (338, 113531), (351, 113648), (357, 113687), (372, 113807), (380, 113849), (389, 113894), (391, 113903), (402, 113954), (414, 113996), (432, 114062), (434, 114071), (435, 114074), (436, 114080), (437, 114083), (438, 114092), (439, 114098), (440, 114113), (462, 114200), (483, 114305), (495, 114359), (510, 114446), (516, 114476), (526, 114506), (533, 114539), (535, 114548), (546, 114620), (552, 114650), (577, 114767), (589, 114812), (601, 114854), (660, 114998), (675, 115058), (715, 115160), (750, 115247), (751, 115250), (761, 115268), (771, 115304), (772, 115307), (793, 115367),

(798, 115385), (827, 115481), (836, 115511), (839, 115529), (846, 115559), (879, 115652), (883, 115667), (900, 115748), (902, 115754), (905, 115766),

Gene: Quaran19_81 Start: 58434, Stop: 61754, Start Num: 69

Candidate Starts for Quaran19_81:

(Start: 69 @58434 has 26 MA's), (80, 58485), (85, 58506), (Start: 89 @58530 has 6 MA's), (102, 58611), (146, 58809), (189, 58989), (200, 59037), (213, 59094), (223, 59145), (225, 59163), (228, 59172), (236, 59208), (259, 59316), (262, 59325), (337, 59535), (349, 59604), (372, 59769), (387, 59847), (438, 60009), (462, 60132), (466, 60156), (478, 60216), (499, 60279), (502, 60288), (546, 60492), (559, 60546), (562, 60555), (566, 60573), (568, 60579), (607, 60762), (608, 60771), (619, 60795), (622, 60822), (648, 60930), (696, 61119), (722, 61197), (732, 61239), (740, 61257), (759, 61299), (771, 61338), (773, 61344), (783, 61371), (791, 61410), (806, 61458), (809, 61467), (830, 61539), (836, 61560), (841, 61587), (842, 61590), (847, 61605), (858, 61638), (882, 61707),

Gene: Quasimodo_211 Start: 113706, Stop: 117101, Start Num: 68

Candidate Starts for Quasimodo_211:

(Start: 26 @113613 has 44 MA's), (Start: 28 @113619 has 6 MA's), (Start: 32 @113631 has 8 MA's), (37, 113640), (Start: 68 @113706 has 162 MA's), (84, 113781), (103, 113895), (109, 113919), (127, 113979), (151, 114090), (157, 114129), (164, 114153), (173, 114195), (203, 114294), (214, 114336), (216, 114342), (219, 114354), (229, 114417), (242, 114477), (243, 114480), (250, 114507), (261, 114549), (279, 114612), (321, 114732), (330, 114768), (335, 114786), (338, 114801), (351, 114918), (357, 114957), (372, 115077), (380, 115119), (389, 115164), (391, 115173), (402, 115224), (414, 115266), (432, 115332), (434, 115341), (435, 115344), (436, 115350), (437, 115353), (438, 115362), (439, 115368), (440, 115383), (462, 115470), (483, 115575), (495, 115629), (510, 115716), (516, 115746), (526, 115776), (533, 115809), (535, 115818), (546, 115890), (552, 115920), (577, 116037), (589, 116082), (601, 116124), (660, 116268), (675, 116328), (715, 116430), (750, 116517), (751, 116520), (761, 116538), (771, 116574), (772, 116577), (793, 116637), (798, 116655), (827, 116751), (836, 116781), (839, 116799), (846, 116829), (879, 116922), (883, 116937), (900, 117018), (902, 117024), (905, 117036),

Gene: Rabinovish_202 Start: 113888, Stop: 117376, Start Num: 26

Candidate Starts for Rabinovish_202:

(Start: 26 @113888 has 44 MA's), (Start: 28 @113894 has 6 MA's), (Start: 32 @113906 has 8 MA's), (37, 113915), (Start: 68 @113981 has 162 MA's), (84, 114056), (103, 114170), (109, 114194), (127, 114254), (151, 114365), (157, 114404), (164, 114428), (173, 114470), (203, 114569), (214, 114611), (216, 114617), (219, 114629), (229, 114692), (242, 114752), (243, 114755), (250, 114782), (261, 114824), (279, 114887), (321, 115007), (330, 115043), (335, 115061), (338, 115076), (351, 115193), (357, 115232), (372, 115352), (380, 115394), (389, 115439), (391, 115448), (402, 115499), (414, 115541), (432, 115607), (434, 115616), (435, 115619), (436, 115625), (437, 115628), (438, 115637), (439, 115643), (440, 115658), (462, 115745), (483, 115850), (495, 115904), (510, 115991), (516, 116021), (526, 116051), (533, 116084), (535, 116093), (546, 116165), (552, 116195), (577, 116312), (589, 116357), (601, 116399), (660, 116543), (675, 116603), (715, 116705), (750, 116792), (751, 116795), (761, 116813), (771, 116849), (772, 116852), (793, 116912), (798, 116930), (827, 117026), (836, 117056), (839, 117074), (846, 117104), (879, 117197), (883, 117212), (900, 117293), (902, 117299), (905, 117311),

Gene: Rahel_210 Start: 112815, Stop: 116210, Start Num: 68

Candidate Starts for Rahel_210:

(Start: 26 @112722 has 44 MA's), (Start: 28 @112728 has 6 MA's), (Start: 32 @112740 has 8 MA's), (37, 112749), (Start: 68 @112815 has 162 MA's), (84, 112890), (103, 113004), (109, 113028), (127, 113088), (151, 113199), (157, 113238), (164, 113262), (173, 113304), (203, 113403), (214, 113445), (216, 113451), (219, 113463), (229, 113526), (242, 113586), (243, 113589), (250, 113616), (261, 113658), (279, 113721), (330, 113877), (335, 113895), (338, 113910), (351, 114027), (357, 114066),

(372, 114186), (380, 114228), (389, 114273), (391, 114282), (402, 114333), (414, 114375), (432, 114441), (434, 114450), (435, 114453), (436, 114459), (437, 114462), (438, 114471), (439, 114477), (440, 114492), (462, 114579), (483, 114684), (495, 114738), (510, 114825), (516, 114855), (526, 114885), (533, 114918), (535, 114927), (546, 114999), (552, 115029), (577, 115146), (589, 115191), (601, 115233), (660, 115377), (675, 115437), (715, 115539), (750, 115626), (751, 115629), (761, 115647), (771, 115683), (772, 115686), (793, 115746), (798, 115764), (827, 115860), (836, 115890), (839, 115908), (846, 115938), (879, 116031), (883, 116046), (900, 116127), (902, 116133), (905, 116145),

Gene: Rana_55 Start: 41495, Stop: 38013, Start Num: 71

Candidate Starts for Rana_55:

(44, 41543), (46, 41534), (Start: 71 @41495 has 4 MA's), (Start: 82 @41432 has 1 MA's), (84, 41423), (91, 41381), (104, 41306), (107, 41288), (123, 41219), (135, 41150), (144, 41096), (161, 41024), (168, 40988), (188, 40928), (218, 40850), (247, 40703), (257, 40664), (266, 40637), (269, 40619), (276, 40598), (283, 40583), (325, 40463), (329, 40451), (358, 40265), (359, 40259), (366, 40214), (381, 40130), (383, 40112), (398, 40055), (399, 40052), (401, 40040), (438, 39902), (439, 39896), (440, 39881), (442, 39875), (449, 39842), (468, 39764), (474, 39731), (508, 39614), (512, 39590), (534, 39509), (535, 39503), (546, 39434), (558, 39371), (564, 39350), (574, 39305), (583, 39266), (601, 39209), (602, 39200), (655, 39092), (661, 39071), (663, 39050), (673, 39020), (678, 38993), (709, 38927), (711, 38918), (714, 38906), (747, 38819), (756, 38795), (785, 38699), (812, 38603), (835, 38519), (840, 38492), (880, 38354), (883, 38345), (887, 38318), (899, 38270), (900, 38264), (906, 38243), (908, 38237), (931, 38132), (933, 38105), (934, 38093),

Gene: Ranch_80 Start: 51036, Stop: 54344, Start Num: 78

Candidate Starts for Ranch_80:

(Start: 78 @51036 has 4 MA's), (Start: 82 @51063 has 1 MA's), (Start: 89 @51099 has 6 MA's), (93, 51144), (103, 51186), (166, 51447), (194, 51549), (205, 51582), (224, 51678), (288, 51948), (289, 51957), (316, 52065), (324, 52110), (335, 52152), (356, 52284), (357, 52287), (358, 52317), (361, 52338), (372, 52407), (382, 52461), (404, 52560), (412, 52575), (429, 52617), (466, 52791), (472, 52824), (476, 52842), (481, 52860), (494, 52905), (495, 52908), (524, 53004), (534, 53046), (536, 53058), (541, 53094), (582, 53274), (596, 53316), (603, 53352), (643, 53406), (651, 53424), (669, 53520), (671, 53532), (739, 53727), (798, 53811), (827, 53916), (831, 53931), (836, 53946), (840, 53967), (844, 53979), (845, 53985), (846, 53988), (855, 54015), (873, 54060), (893, 54168), (906, 54213), (912, 54237), (922, 54273),

Gene: RedBear_55 Start: 42740, Stop: 39261, Start Num: 68

Candidate Starts for RedBear_55:

(Start: 36 @42806 has 1 MA's), (Start: 68 @42740 has 162 MA's), (Start: 82 @42677 has 1 MA's), (84, 42668), (86, 42656), (91, 42626), (107, 42533), (117, 42500), (123, 42464), (135, 42395), (144, 42341), (161, 42269), (188, 42173), (218, 42095), (247, 41948), (257, 41909), (269, 41864), (276, 41843), (283, 41828), (298, 41807), (325, 41708), (329, 41696), (343, 41633), (358, 41510), (359, 41504), (366, 41459), (381, 41375), (383, 41357), (398, 41300), (399, 41297), (401, 41285), (438, 41147), (440, 41126), (442, 41120), (445, 41105), (456, 41063), (467, 41015), (468, 41009), (474, 40976), (512, 40835), (530, 40778), (534, 40754), (535, 40748), (546, 40679), (557, 40631), (558, 40616), (564, 40595), (574, 40550), (601, 40454), (602, 40445), (655, 40337), (657, 40328), (661, 40316), (663, 40295), (673, 40265), (678, 40238), (711, 40163), (714, 40151), (747, 40064), (756, 40040), (812, 39848), (840, 39737), (880, 39599), (887, 39563), (899, 39515), (900, 39509), (908, 39482), (933, 39350), (934, 39338), (936, 39332), (943, 39275),

Gene: RedWattleHog_79 Start: 71408, Stop: 74602, Start Num: 71

Candidate Starts for RedWattleHog_79:

(61, 71396), (Start: 71 @71408 has 4 MA's), (84, 71480), (93, 71552), (98, 71570), (105, 71603), (128, 71681), (144, 71768), (150, 71783), (160, 71837), (170, 71885), (183, 71924), (205, 71996), (206,

71999), (209, 72014), (218, 72047), (226, 72104), (229, 72113), (242, 72167), (243, 72170), (250, 72197), (266, 72254), (279, 72299), (299, 72332), (308, 72365), (321, 72419), (327, 72443), (335, 72473), (338, 72488), (343, 72515), (351, 72569), (362, 72665), (384, 72794), (386, 72800), (414, 72890), (425, 72926), (428, 72944), (434, 72965), (436, 72974), (512, 73301), (536, 73394), (544, 73454), (559, 73511), (561, 73517), (563, 73526), (573, 73571), (574, 73574), (585, 73622), (639, 73748), (659, 73823), (663, 73844), (672, 73871), (674, 73880), (675, 73886), (676, 73889), (687, 73925), (702, 73955), (732, 74033), (733, 74036), (749, 74072), (750, 74075), (767, 74111), (822, 74213), (828, 74237), (839, 74282), (843, 74300), (856, 74342), (879, 74405), (890, 74453), (894, 74483), (919, 74567),

Gene: Rizal_201 Start: 111240, Stop: 114728, Start Num: 26

Candidate Starts for Rizal_201:

(Start: 26 @111240 has 44 MA's), (Start: 28 @111246 has 6 MA's), (Start: 32 @111258 has 8 MA's), (37, 111267), (Start: 68 @111333 has 162 MA's), (84, 111408), (103, 111522), (109, 111546), (127, 111606), (151, 111717), (157, 111756), (164, 111780), (173, 111822), (203, 111921), (214, 111963), (216, 111969), (219, 111981), (229, 112044), (242, 112104), (243, 112107), (250, 112134), (261, 112176), (279, 112239), (321, 112359), (330, 112395), (335, 112413), (338, 112428), (351, 112545), (357, 112584), (372, 112704), (380, 112746), (389, 112791), (391, 112800), (402, 112851), (414, 112893), (432, 112959), (434, 112968), (435, 112971), (436, 112977), (437, 112980), (438, 112989), (439, 112995), (440, 113010), (462, 113097), (483, 113202), (495, 113256), (510, 113343), (516, 113373), (526, 113403), (533, 113436), (535, 113445), (546, 113517), (552, 113547), (577, 113664), (589, 113709), (601, 113751), (660, 113895), (675, 113955), (715, 114057), (750, 114144), (751, 114147), (761, 114165), (771, 114201), (772, 114204), (793, 114264), (798, 114282), (827, 114378), (836, 114408), (839, 114426), (846, 114456), (879, 114549), (883, 114564), (900, 114645), (902, 114651), (905, 114663),

Gene: RoMag_204 Start: 113126, Stop: 116521, Start Num: 68

Candidate Starts for RoMag_204:

(Start: 26 @113033 has 44 MA's), (Start: 28 @113039 has 6 MA's), (Start: 32 @113051 has 8 MA's), (37, 113060), (Start: 68 @113126 has 162 MA's), (84, 113201), (103, 113315), (109, 113339), (127, 113399), (151, 113510), (157, 113549), (164, 113573), (173, 113615), (203, 113714), (214, 113756), (216, 113762), (219, 113774), (229, 113837), (242, 113897), (243, 113900), (250, 113927), (261, 113969), (279, 114032), (330, 114188), (335, 114206), (338, 114221), (351, 114338), (357, 114377), (372, 114497), (380, 114539), (389, 114584), (391, 114593), (402, 114644), (414, 114686), (432, 114752), (434, 114761), (435, 114764), (436, 114770), (437, 114773), (438, 114782), (439, 114788), (440, 114803), (462, 114890), (483, 114995), (495, 115049), (510, 115136), (516, 115166), (526, 115196), (533, 115229), (535, 115238), (546, 115310), (552, 115340), (577, 115457), (589, 115502), (601, 115544), (660, 115688), (675, 115748), (715, 115850), (750, 115937), (751, 115940), (761, 115958), (771, 115994), (772, 115997), (793, 116057), (798, 116075), (827, 116171), (836, 116201), (839, 116219), (846, 116249), (879, 116342), (883, 116357), (900, 116438), (902, 116444), (905, 116456),

Gene: Ronan_205 Start: 111518, Stop: 114913, Start Num: 68

Candidate Starts for Ronan_205:

(Start: 18 @111395 has 4 MA's), (Start: 26 @111425 has 44 MA's), (Start: 28 @111431 has 6 MA's), (Start: 32 @111443 has 8 MA's), (37, 111452), (Start: 68 @111518 has 162 MA's), (84, 111593), (103, 111707), (109, 111731), (127, 111791), (151, 111902), (157, 111941), (164, 111965), (173, 112007), (203, 112106), (214, 112148), (216, 112154), (219, 112166), (229, 112229), (242, 112289), (243, 112292), (250, 112319), (261, 112361), (279, 112424), (321, 112544), (330, 112580), (335, 112598), (338, 112613), (351, 112730), (357, 112769), (372, 112889), (380, 112931), (389, 112976), (391, 112985), (402, 113036), (414, 113078), (432, 113144), (434, 113153), (435, 113156), (436, 113162), (437, 113165), (438, 113174), (439, 113180), (440, 113195), (462, 113282), (483, 113387), (495, 113441), (510, 113528), (516, 113558), (526, 113588), (533, 113621), (535, 113630), (546, 113702),

(552, 113732), (577, 113849), (589, 113894), (601, 113936), (660, 114080), (675, 114140), (715, 114242), (750, 114329), (751, 114332), (761, 114350), (771, 114386), (772, 114389), (793, 114449), (798, 114467), (827, 114563), (836, 114593), (839, 114611), (846, 114641), (879, 114734), (883, 114749), (900, 114830), (902, 114836), (905, 114848),

Gene: Rooney_51 Start: 39051, Stop: 35854, Start Num: 73

Candidate Starts for Rooney_51:

(62, 39072), (Start: 73 @39051 has 88 MA's), (79, 39009), (Start: 89 @38955 has 6 MA's), (96, 38901), (114, 38832), (116, 38823), (118, 38814), (124, 38784), (130, 38751), (137, 38715), (144, 38673), (148, 38661), (159, 38607), (187, 38538), (193, 38499), (206, 38457), (210, 38436), (224, 38364), (233, 38322), (246, 38259), (247, 38256), (270, 38166), (273, 38151), (277, 38142), (293, 38100), (298, 38085), (303, 38070), (335, 37944), (349, 37863), (351, 37851), (354, 37827), (356, 37812), (357, 37809), (368, 37716), (381, 37644), (383, 37626), (393, 37584), (409, 37527), (417, 37500), (440, 37419), (442, 37413), (447, 37386), (459, 37335), (467, 37293), (472, 37263), (473, 37257), (481, 37227), (485, 37212), (489, 37197), (506, 37155), (507, 37152), (513, 37116), (519, 37101), (542, 36987), (637, 36708), (639, 36696), (643, 36684), (651, 36666), (667, 36573), (699, 36468), (790, 36357), (795, 36333), (824, 36231), (827, 36216), (853, 36123), (881, 36045), (884, 36033), (887, 36012), (898, 35964), (907, 35928), (916, 35892), (920, 35877),

Gene: Roots515_211 Start: 114541, Stop: 118029, Start Num: 26

Candidate Starts for Roots515_211:

(Start: 26 @114541 has 44 MA's), (Start: 28 @114547 has 6 MA's), (Start: 32 @114559 has 8 MA's), (37, 114568), (Start: 68 @114634 has 162 MA's), (84, 114709), (103, 114823), (109, 114847), (127, 114907), (151, 115018), (157, 115057), (164, 115081), (173, 115123), (203, 115222), (214, 115264), (216, 115270), (219, 115282), (229, 115345), (242, 115405), (243, 115408), (250, 115435), (261, 115477), (279, 115540), (321, 115660), (330, 115696), (335, 115714), (338, 115729), (351, 115846), (357, 115885), (372, 116005), (380, 116047), (389, 116092), (391, 116101), (402, 116152), (414, 116194), (432, 116260), (434, 116269), (435, 116272), (436, 116278), (437, 116281), (438, 116290), (439, 116296), (440, 116311), (462, 116398), (483, 116503), (495, 116557), (510, 116644), (516, 116674), (526, 116704), (533, 116737), (535, 116746), (546, 116818), (552, 116848), (577, 116965), (589, 117010), (601, 117052), (660, 117196), (675, 117256), (715, 117358), (750, 117445), (751, 117448), (761, 117466), (771, 117502), (772, 117505), (793, 117565), (798, 117583), (827, 117679), (836, 117709), (839, 117727), (846, 117757), (879, 117850), (883, 117865), (900, 117946), (902, 117952), (905, 117964),

Gene: Rumi_79 Start: 49989, Stop: 53330, Start Num: 73

Candidate Starts for Rumi_79:

(Start: 73 @49989 has 88 MA's), (Start: 82 @50049 has 1 MA's), (Start: 89 @50085 has 6 MA's), (93, 50130), (103, 50172), (166, 50433), (205, 50568), (224, 50664), (288, 50934), (289, 50943), (316, 51051), (324, 51096), (335, 51138), (348, 51216), (356, 51270), (357, 51273), (358, 51303), (372, 51393), (382, 51447), (404, 51546), (412, 51561), (429, 51603), (466, 51777), (472, 51810), (476, 51828), (481, 51846), (494, 51891), (495, 51894), (524, 51990), (534, 52032), (536, 52044), (541, 52080), (582, 52260), (596, 52302), (603, 52338), (639, 52380), (643, 52392), (651, 52410), (669, 52506), (671, 52518), (739, 52713), (798, 52797), (827, 52902), (831, 52917), (836, 52932), (840, 52953), (844, 52965), (845, 52971), (846, 52974), (855, 53001), (873, 53046), (893, 53154), (906, 53199), (912, 53223), (922, 53259),

Gene: Rusticus_55 Start: 40726, Stop: 37247, Start Num: 68

Candidate Starts for Rusticus_55:

(Start: 36 @40795 has 1 MA's), (Start: 68 @40726 has 162 MA's), (84, 40654), (Start: 89 @40627 has 6 MA's), (91, 40612), (123, 40450), (126, 40423), (128, 40417), (144, 40327), (150, 40312), (160, 40258), (161, 40255), (188, 40159), (218, 40081), (247, 39934), (257, 39895), (269, 39850), (276, 39829), (283, 39814), (304, 39772), (308, 39760), (325, 39694), (329, 39682), (343, 39619), (359,

39490), (360, 39481), (366, 39445), (381, 39361), (383, 39343), (398, 39286), (399, 39283), (401, 39271), (438, 39133), (439, 39127), (440, 39112), (442, 39106), (451, 39067), (468, 38995), (474, 38962), (508, 38845), (512, 38821), (530, 38764), (534, 38740), (535, 38734), (546, 38665), (558, 38602), (574, 38536), (578, 38515), (583, 38497), (601, 38440), (602, 38431), (655, 38323), (657, 38314), (661, 38302), (663, 38281), (673, 38251), (678, 38224), (709, 38158), (711, 38149), (714, 38137), (747, 38050), (756, 38026), (772, 37978), (812, 37834), (832, 37759), (880, 37585), (887, 37549), (899, 37501), (908, 37468),

Gene: SCentae_152 Start: 106391, Stop: 109846, Start Num: 68

Candidate Starts for SCentae_152:

(Start: 68 @106391 has 162 MA's), (84, 106466), (127, 106664), (134, 106700), (150, 106772), (164, 106838), (183, 106913), (188, 106937), (192, 106961), (198, 106982), (203, 107009), (214, 107051), (225, 107120), (229, 107132), (242, 107189), (243, 107192), (250, 107219), (279, 107321), (338, 107510), (339, 107513), (342, 107546), (386, 107864), (389, 107879), (390, 107882), (440, 108089), (441, 108092), (442, 108095), (443, 108104), (448, 108122), (462, 108185), (464, 108194), (475, 108257), (496, 108347), (516, 108458), (544, 108596), (546, 108599), (558, 108650), (559, 108653), (579, 108740), (643, 108911), (711, 109133), (784, 109334), (819, 109448), (821, 109457), (827, 109481), (835, 109508), (836, 109511), (839, 109529), (846, 109559), (851, 109577), (863, 109607), (865, 109610), (878, 109649), (879, 109652), (915, 109802),

Gene: Sadboi_79 Start: 52345, Stop: 55686, Start Num: 73

Candidate Starts for Sadboi_79:

(47, 52297), (Start: 73 @52345 has 88 MA's), (Start: 82 @52405 has 1 MA's), (Start: 89 @52441 has 6 MA's), (93, 52486), (103, 52528), (166, 52789), (194, 52891), (205, 52924), (224, 53020), (288, 53290), (289, 53299), (316, 53407), (324, 53452), (335, 53494), (356, 53626), (357, 53629), (358, 53659), (361, 53680), (372, 53749), (382, 53803), (404, 53902), (412, 53917), (429, 53959), (466, 54133), (472, 54166), (476, 54184), (481, 54202), (494, 54247), (495, 54250), (524, 54346), (534, 54388), (536, 54400), (541, 54436), (582, 54616), (596, 54658), (603, 54694), (643, 54748), (651, 54766), (669, 54862), (671, 54874), (739, 55069), (798, 55153), (822, 55234), (827, 55258), (831, 55273), (840, 55309), (844, 55321), (845, 55327), (846, 55330), (855, 55357), (873, 55402), (893, 55510), (906, 55555), (912, 55579), (922, 55615),

Gene: Salacia_209 Start: 113125, Stop: 116613, Start Num: 26

Candidate Starts for Salacia_209:

(Start: 26 @113125 has 44 MA's), (Start: 28 @113131 has 6 MA's), (Start: 32 @113143 has 8 MA's), (37, 113152), (Start: 68 @113218 has 162 MA's), (84, 113293), (103, 113407), (109, 113431), (127, 113491), (151, 113602), (157, 113641), (164, 113665), (173, 113707), (203, 113806), (214, 113848), (216, 113854), (219, 113866), (229, 113929), (242, 113989), (243, 113992), (250, 114019), (261, 114061), (279, 114124), (330, 114280), (335, 114298), (338, 114313), (351, 114430), (357, 114469), (372, 114589), (380, 114631), (389, 114676), (391, 114685), (402, 114736), (414, 114778), (432, 114844), (434, 114853), (435, 114856), (436, 114862), (437, 114865), (438, 114874), (439, 114880), (440, 114895), (462, 114982), (483, 115087), (495, 115141), (510, 115228), (516, 115258), (526, 115288), (533, 115321), (535, 115330), (546, 115402), (552, 115432), (577, 115549), (589, 115594), (601, 115636), (660, 115780), (675, 115840), (715, 115942), (750, 116029), (751, 116032), (761, 116050), (771, 116086), (772, 116089), (793, 116149), (798, 116167), (827, 116263), (836, 116293), (839, 116311), (846, 116341), (879, 116434), (883, 116449), (900, 116530), (902, 116536), (905, 116548),

Gene: SaltySpittoon_81 Start: 58443, Stop: 61763, Start Num: 69

Candidate Starts for SaltySpittoon_81:

(Start: 69 @58443 has 26 MA's), (80, 58494), (85, 58515), (Start: 89 @58539 has 6 MA's), (102, 58620), (146, 58818), (189, 58998), (200, 59046), (202, 59049), (213, 59103), (223, 59154), (225, 59172), (228, 59181), (236, 59217), (259, 59325), (262, 59334), (337, 59544), (349, 59613), (372,

59778), (387, 59856), (438, 60018), (462, 60141), (466, 60165), (478, 60225), (499, 60288), (502, 60297), (546, 60501), (559, 60555), (562, 60564), (566, 60582), (568, 60588), (607, 60771), (608, 60780), (619, 60804), (622, 60831), (648, 60939), (696, 61128), (722, 61206), (732, 61248), (740, 61266), (759, 61308), (771, 61347), (773, 61353), (783, 61380), (791, 61419), (806, 61467), (809, 61476), (830, 61548), (836, 61569), (841, 61596), (842, 61599), (847, 61614), (858, 61647), (882, 61716),

Gene: Samisti12_80 Start: 60339, Stop: 63623, Start Num: 70

Candidate Starts for Samisti12_80:

(Start: 70 @60339 has 57 MA's), (79, 60384), (85, 60414), (88, 60432), (Start: 89 @60438 has 6 MA's), (146, 60717), (168, 60819), (189, 60897), (190, 60909), (213, 61002), (225, 61065), (227, 61071), (236, 61110), (262, 61227), (304, 61311), (337, 61437), (345, 61467), (349, 61506), (439, 61893), (460, 61998), (461, 62004), (462, 62010), (467, 62037), (478, 62094), (486, 62124), (502, 62166), (508, 62193), (517, 62238), (534, 62301), (546, 62373), (559, 62427), (562, 62436), (564, 62445), (566, 62454), (568, 62460), (622, 62703), (638, 62772), (641, 62784), (664, 62889), (725, 63084), (736, 63117), (759, 63168), (771, 63207), (773, 63213), (791, 63279), (806, 63327), (818, 63363), (830, 63408), (832, 63417), (842, 63459), (857, 63504), (858, 63507), (864, 63522),

Gene: Sampudon_80 Start: 52937, Stop: 56278, Start Num: 73

Candidate Starts for Sampudon_80:

(47, 52889), (Start: 73 @52937 has 88 MA's), (Start: 82 @52997 has 1 MA's), (Start: 89 @53033 has 6 MA's), (93, 53078), (103, 53120), (166, 53381), (194, 53483), (205, 53516), (224, 53612), (288, 53882), (289, 53891), (316, 53999), (324, 54044), (335, 54086), (356, 54218), (357, 54221), (358, 54251), (361, 54272), (372, 54341), (382, 54395), (404, 54494), (412, 54509), (466, 54725), (472, 54758), (476, 54776), (481, 54794), (494, 54839), (495, 54842), (524, 54938), (534, 54980), (536, 54992), (541, 55028), (564, 55127), (582, 55208), (596, 55250), (603, 55286), (643, 55340), (651, 55358), (669, 55454), (671, 55466), (739, 55661), (798, 55745), (822, 55826), (827, 55850), (831, 55865), (840, 55901), (844, 55913), (845, 55919), (846, 55922), (855, 55949), (873, 55994), (893, 56102), (906, 56147), (912, 56171), (922, 56207),

Gene: SarahRose_54 Start: 42467, Stop: 38982, Start Num: 68

Candidate Starts for SarahRose_54:

(Start: 36 @42536 has 1 MA's), (Start: 68 @42467 has 162 MA's), (Start: 82 @42404 has 1 MA's), (84, 42395), (91, 42353), (107, 42260), (123, 42191), (135, 42122), (144, 42068), (161, 41996), (168, 41960), (188, 41900), (247, 41675), (257, 41636), (266, 41609), (269, 41591), (276, 41570), (283, 41555), (304, 41513), (325, 41435), (329, 41423), (358, 41237), (359, 41231), (366, 41186), (381, 41102), (383, 41084), (398, 41027), (399, 41024), (401, 41012), (438, 40874), (439, 40868), (440, 40853), (442, 40847), (449, 40814), (468, 40736), (474, 40703), (512, 40562), (534, 40481), (535, 40475), (546, 40406), (555, 40364), (558, 40343), (564, 40322), (574, 40277), (601, 40181), (602, 40172), (604, 40166), (655, 40064), (657, 40055), (661, 40043), (663, 40022), (673, 39992), (678, 39965), (709, 39899), (711, 39890), (714, 39878), (747, 39791), (796, 39623), (812, 39575), (840, 39464), (880, 39326), (883, 39317), (887, 39290), (899, 39242), (908, 39209), (914, 39182), (933, 39077), (934, 39065),

Gene: Sauce_205 Start: 112032, Stop: 115427, Start Num: 68

Candidate Starts for Sauce_205:

(Start: 18 @111909 has 4 MA's), (Start: 26 @111939 has 44 MA's), (Start: 28 @111945 has 6 MA's), (Start: 32 @111957 has 8 MA's), (37, 111966), (Start: 68 @112032 has 162 MA's), (84, 112107), (103, 112221), (109, 112245), (127, 112305), (151, 112416), (157, 112455), (164, 112479), (173, 112521), (203, 112620), (214, 112662), (216, 112668), (219, 112680), (229, 112743), (242, 112803), (243, 112806), (250, 112833), (261, 112875), (279, 112938), (321, 113058), (330, 113094), (335, 113112), (338, 113127), (351, 113244), (357, 113283), (372, 113403), (380, 113445), (389, 113490), (391, 113499), (402, 113550), (414, 113592), (432, 113658), (434, 113667), (435, 113670), (436, 113676),

(437, 113679), (438, 113688), (439, 113694), (440, 113709), (462, 113796), (483, 113901), (495, 113955), (510, 114042), (516, 114072), (526, 114102), (533, 114135), (535, 114144), (546, 114216), (552, 114246), (577, 114363), (589, 114408), (601, 114450), (660, 114594), (675, 114654), (715, 114756), (750, 114843), (751, 114846), (761, 114864), (771, 114900), (772, 114903), (793, 114963), (798, 114981), (827, 115077), (836, 115107), (839, 115125), (846, 115155), (879, 115248), (883, 115263), (900, 115344), (902, 115350), (905, 115362),

Gene: ScarletRaider_99 Start: 73508, Stop: 76315, Start Num: 58

Candidate Starts for ScarletRaider_99:

(Start: 58 @73508 has 5 MA's), (84, 73598), (87, 73613), (92, 73658), (108, 73736), (125, 73808), (147, 73916), (153, 73946), (154, 73949), (155, 73952), (167, 74012), (173, 74033), (183, 74063), (216, 74180), (226, 74246), (229, 74255), (230, 74258), (262, 74387), (272, 74432), (276, 74441), (325, 74552), (330, 74570), (334, 74585), (336, 74591), (338, 74603), (345, 74630), (346, 74633), (353, 74693), (354, 74702), (357, 74717), (365, 74798), (371, 74831), (413, 75029), (416, 75053), (423, 75071), (440, 75161), (441, 75164), (450, 75209), (452, 75212), (462, 75251), (464, 75260), (468, 75284), (469, 75290), (473, 75314), (474, 75317), (478, 75335), (482, 75347), (519, 75476), (522, 75482), (528, 75506), (529, 75509), (532, 75524), (534, 75536), (556, 75653), (558, 75671), (559, 75674), (562, 75683), (588, 75788), (592, 75797), (600, 75824), (655, 75956), (659, 75968), (661, 75974), (676, 76040), (680, 76058), (685, 76070), (689, 76079), (702, 76115), (732, 76193), (744, 76220), (768, 76295), (771, 76304),

Gene: Schomber_96 Start: 69887, Stop: 72700, Start Num: 58

Candidate Starts for Schomber_96:

(Start: 49 @69872 has 1 MA's), (Start: 56 @69884 has 2 MA's), (Start: 58 @69887 has 5 MA's), (84, 69980), (92, 70040), (125, 70190), (126, 70193), (128, 70199), (147, 70298), (153, 70328), (154, 70331), (167, 70394), (173, 70415), (174, 70418), (183, 70445), (216, 70562), (218, 70571), (226, 70628), (229, 70637), (245, 70703), (262, 70769), (325, 70934), (330, 70952), (334, 70967), (336, 70973), (338, 70985), (345, 71012), (346, 71015), (353, 71075), (354, 71084), (355, 71087), (357, 71099), (360, 71144), (371, 71213), (374, 71237), (407, 71393), (413, 71411), (416, 71435), (423, 71453), (442, 71549), (450, 71591), (453, 71597), (462, 71633), (464, 71642), (467, 71660), (468, 71666), (472, 71690), (473, 71696), (474, 71699), (478, 71717), (479, 71720), (508, 71813), (519, 71858), (522, 71864), (528, 71888), (529, 71891), (531, 71900), (532, 71906), (534, 71918), (556, 72035), (558, 72053), (559, 72056), (562, 72065), (592, 72179), (597, 72194), (655, 72341), (659, 72353), (661, 72359), (669, 72392), (676, 72425), (680, 72443), (685, 72455), (689, 72464), (732, 72578), (737, 72590), (744, 72605), (768, 72680), (771, 72689),

Gene: ScoobyDoobyDoo_190 Start: 106890, Stop: 110309, Start Num: 63

Candidate Starts for ScoobyDoobyDoo_190:

(Start: 63 @106890 has 3 MA's), (95, 107052), (110, 107115), (120, 107139), (150, 107280), (173, 107388), (206, 107508), (214, 107541), (219, 107559), (229, 107622), (242, 107679), (243, 107682), (250, 107709), (266, 107766), (279, 107811), (338, 108000), (368, 108249), (391, 108372), (425, 108495), (432, 108531), (434, 108540), (439, 108567), (462, 108672), (468, 108705), (475, 108744), (491, 108810), (497, 108840), (526, 108975), (533, 109008), (535, 109017), (546, 109089), (552, 109113), (557, 109125), (559, 109143), (563, 109158), (577, 109221), (643, 109386), (666, 109497), (675, 109533), (684, 109563), (750, 109722), (772, 109782), (785, 109815), (821, 109935), (836, 109989), (839, 110007), (846, 110037), (848, 110043), (860, 110073), (879, 110130), (881, 110139), (883, 110145), (895, 110211), (899, 110220), (902, 110232), (906, 110247), (919, 110292), (921, 110301),

Gene: ScottMcG_202 Start: 111839, Stop: 115234, Start Num: 68

Candidate Starts for ScottMcG_202:

(Start: 26 @111746 has 44 MA's), (Start: 28 @111752 has 6 MA's), (Start: 32 @111764 has 8 MA's), (37, 111773), (Start: 68 @111839 has 162 MA's), (84, 111914), (103, 112028), (109, 112052), (127,

112112), (151, 112223), (157, 112262), (164, 112286), (173, 112328), (203, 112427), (214, 112469), (216, 112475), (219, 112487), (229, 112550), (242, 112610), (243, 112613), (250, 112640), (261, 112682), (279, 112745), (321, 112865), (330, 112901), (335, 112919), (338, 112934), (351, 113051), (357, 113090), (372, 113210), (380, 113252), (389, 113297), (391, 113306), (402, 113357), (414, 113399), (432, 113465), (434, 113474), (435, 113477), (436, 113483), (437, 113486), (438, 113495), (439, 113501), (440, 113516), (462, 113603), (483, 113708), (495, 113762), (510, 113849), (516, 113879), (526, 113909), (533, 113942), (535, 113951), (546, 114023), (552, 114053), (577, 114170), (589, 114215), (601, 114257), (660, 114401), (675, 114461), (715, 114563), (750, 114650), (751, 114653), (761, 114671), (771, 114707), (772, 114710), (793, 114770), (798, 114788), (827, 114884), (836, 114914), (839, 114932), (846, 114962), (879, 115055), (883, 115070), (900, 115151), (902, 115157), (905, 115169),

Gene: Sebata_210 Start: 114454, Stop: 117936, Start Num: 28

Candidate Starts for Sebata_210:

(Start: 26 @114448 has 44 MA's), (Start: 28 @114454 has 6 MA's), (Start: 32 @114466 has 8 MA's), (37, 114475), (Start: 68 @114541 has 162 MA's), (84, 114616), (103, 114730), (109, 114754), (127, 114814), (151, 114925), (157, 114964), (164, 114988), (173, 115030), (203, 115129), (214, 115171), (216, 115177), (219, 115189), (229, 115252), (242, 115312), (243, 115315), (250, 115342), (261, 115384), (279, 115447), (330, 115603), (335, 115621), (338, 115636), (351, 115753), (357, 115792), (372, 115912), (380, 115954), (389, 115999), (391, 116008), (402, 116059), (414, 116101), (432, 116167), (434, 116176), (435, 116179), (436, 116185), (437, 116188), (438, 116197), (439, 116203), (440, 116218), (462, 116305), (483, 116410), (495, 116464), (510, 116551), (516, 116581), (526, 116611), (533, 116644), (535, 116653), (546, 116725), (552, 116755), (577, 116872), (589, 116917), (601, 116959), (660, 117103), (675, 117163), (715, 117265), (750, 117352), (751, 117355), (761, 117373), (771, 117409), (772, 117412), (793, 117472), (798, 117490), (827, 117586), (836, 117616), (839, 117634), (846, 117664), (879, 117757), (883, 117772), (900, 117853), (902, 117859), (905, 117871),

Gene: SeresaTree_61 Start: 49159, Stop: 52449, Start Num: 70

Candidate Starts for SeresaTree_61:

(Start: 70 @49159 has 57 MA's), (75, 49174), (76, 49180), (85, 49231), (Start: 89 @49255 has 6 MA's), (146, 49534), (159, 49594), (188, 49708), (189, 49714), (213, 49819), (225, 49882), (227, 49888), (236, 49927), (375, 50506), (431, 50671), (439, 50710), (460, 50815), (461, 50821), (462, 50827), (466, 50851), (474, 50893), (487, 50944), (502, 50983), (517, 51055), (534, 51118), (546, 51190), (559, 51244), (562, 51253), (564, 51262), (566, 51271), (568, 51277), (606, 51457), (608, 51469), (619, 51493), (626, 51529), (627, 51532), (638, 51589), (640, 51595), (644, 51607), (665, 51712), (696, 51805), (727, 51910), (731, 51922), (758, 51979), (759, 51985), (773, 52030), (791, 52096), (793, 52105), (811, 52156), (820, 52189), (842, 52276), (861, 52327), (864, 52339), (888, 52426),

Gene: Settecandela_119 Start: 86091, Stop: 89597, Start Num: 42

Candidate Starts for Settecandela_119:

(Start: 42 @86091 has 2 MA's), (Start: 68 @86145 has 162 MA's), (84, 86217), (105, 86340), (119, 86376), (157, 86565), (158, 86568), (188, 86688), (198, 86733), (203, 86760), (214, 86802), (216, 86808), (222, 86841), (225, 86871), (243, 86937), (250, 86964), (256, 86991), (274, 87057), (279, 87066), (299, 87099), (313, 87144), (321, 87186), (336, 87243), (338, 87255), (342, 87291), (344, 87318), (349, 87360), (351, 87372), (353, 87387), (366, 87492), (380, 87573), (384, 87597), (391, 87627), (414, 87732), (434, 87807), (440, 87849), (462, 87942), (465, 87960), (467, 87969), (493, 88080), (516, 88170), (530, 88212), (542, 88290), (546, 88311), (558, 88362), (594, 88506), (639, 88611), (659, 88686), (669, 88719), (709, 88827), (781, 89046), (782, 89052), (831, 89241), (836, 89256), (856, 89334), (879, 89409), (890, 89457), (900, 89505), (902, 89511), (916, 89559),

Gene: ShakeNBake_51 Start: 38880, Stop: 35683, Start Num: 73

Candidate Starts for ShakeNBake_51:

(38, 38961), (62, 38901), (Start: 73 @38880 has 88 MA's), (74, 38871), (79, 38838), (Start: 89 @38784 has 6 MA's), (93, 38739), (96, 38730), (101, 38706), (114, 38661), (116, 38652), (118, 38643), (124, 38613), (130, 38580), (144, 38502), (148, 38490), (159, 38436), (160, 38433), (189, 38349), (224, 38193), (233, 38151), (246, 38088), (247, 38085), (273, 37980), (277, 37971), (293, 37929), (298, 37914), (303, 37899), (335, 37773), (349, 37692), (354, 37656), (356, 37641), (357, 37638), (368, 37545), (383, 37455), (417, 37329), (440, 37248), (447, 37215), (459, 37164), (472, 37092), (473, 37086), (481, 37056), (489, 37026), (513, 36945), (519, 36930), (542, 36816), (573, 36681), (637, 36537), (639, 36525), (643, 36513), (651, 36495), (667, 36402), (699, 36297), (790, 36186), (795, 36162), (827, 36045), (881, 35874), (884, 35862), (887, 35841), (905, 35763), (907, 35757), (916, 35721), (920, 35706),

Gene: Sham_57 Start: 49701, Stop: 52991, Start Num: 70

Candidate Starts for Sham_57:

(Start: 70 @49701 has 57 MA's), (75, 49716), (76, 49722), (80, 49752), (85, 49773), (88, 49791), (Start: 89 @49797 has 6 MA's), (136, 50025), (146, 50076), (153, 50106), (159, 50136), (160, 50139), (188, 50250), (189, 50256), (213, 50361), (225, 50424), (227, 50430), (236, 50469), (337, 50796), (345, 50826), (349, 50865), (375, 51048), (431, 51213), (439, 51252), (441, 51270), (461, 51363), (462, 51369), (468, 51402), (474, 51435), (477, 51447), (486, 51483), (487, 51486), (502, 51525), (517, 51597), (534, 51660), (542, 51711), (546, 51732), (559, 51786), (562, 51795), (564, 51804), (566, 51813), (568, 51819), (608, 52011), (626, 52071), (627, 52074), (638, 52131), (640, 52137), (644, 52149), (654, 52185), (665, 52254), (696, 52347), (727, 52452), (758, 52521), (759, 52527), (764, 52539), (791, 52638), (793, 52647), (800, 52668), (811, 52698), (820, 52731), (842, 52818), (845, 52827), (861, 52869), (864, 52881),

Gene: Shaqnato_200 Start: 112249, Stop: 115644, Start Num: 68

Candidate Starts for Shaqnato_200:

(Start: 18 @112126 has 4 MA's), (Start: 26 @112156 has 44 MA's), (Start: 28 @112162 has 6 MA's), (Start: 32 @112174 has 8 MA's), (37, 112183), (Start: 68 @112249 has 162 MA's), (84, 112324), (103, 112438), (109, 112462), (127, 112522), (151, 112633), (157, 112672), (164, 112696), (173, 112738), (203, 112837), (214, 112879), (216, 112885), (219, 112897), (229, 112960), (242, 113020), (243, 113023), (250, 113050), (261, 113092), (279, 113155), (321, 113275), (330, 113311), (335, 113329), (338, 113344), (351, 113461), (357, 113500), (372, 113620), (380, 113662), (389, 113707), (391, 113716), (402, 113767), (414, 113809), (432, 113875), (434, 113884), (435, 113887), (436, 113893), (437, 113896), (438, 113905), (439, 113911), (440, 113926), (462, 114013), (483, 114118), (495, 114172), (510, 114259), (516, 114289), (526, 114319), (533, 114352), (535, 114361), (546, 114433), (552, 114463), (577, 114580), (589, 114625), (601, 114667), (660, 114811), (675, 114871), (715, 114973), (750, 115060), (751, 115063), (761, 115081), (771, 115117), (772, 115120), (793, 115180), (798, 115198), (827, 115294), (836, 115324), (839, 115342), (846, 115372), (879, 115465), (883, 115480), (900, 115561), (902, 115567), (905, 115579),

Gene: Shelob_210 Start: 114989, Stop: 118384, Start Num: 68

Candidate Starts for Shelob_210:

(Start: 26 @114896 has 44 MA's), (Start: 28 @114902 has 6 MA's), (Start: 32 @114914 has 8 MA's), (37, 114923), (Start: 68 @114989 has 162 MA's), (84, 115064), (103, 115178), (109, 115202), (127, 115262), (151, 115373), (157, 115412), (164, 115436), (173, 115478), (203, 115577), (214, 115619), (216, 115625), (219, 115637), (229, 115700), (242, 115760), (243, 115763), (250, 115790), (261, 115832), (279, 115895), (321, 116015), (330, 116051), (335, 116069), (338, 116084), (351, 116201), (357, 116240), (372, 116360), (380, 116402), (389, 116447), (391, 116456), (402, 116507), (414, 116549), (432, 116615), (434, 116624), (435, 116627), (436, 116633), (437, 116636), (438, 116645), (439, 116651), (440, 116666), (462, 116753), (483, 116858), (495, 116912), (510, 116999), (516, 117029), (526, 117059), (533, 117092), (535, 117101), (546, 117173), (552, 117203), (577, 117320), (589, 117365), (601, 117407), (660, 117551), (675, 117611), (715, 117713), (750, 117800), (751,

117803), (761, 117821), (771, 117857), (772, 117860), (793, 117920), (798, 117938), (827, 118034), (836, 118064), (839, 118082), (846, 118112), (879, 118205), (883, 118220), (900, 118301), (902, 118307), (905, 118319),

Gene: ShiaLabeouf_206 Start: 112023, Stop: 115418, Start Num: 68

Candidate Starts for ShiaLabeouf_206:

(Start: 26 @111930 has 44 MA's), (Start: 28 @111936 has 6 MA's), (Start: 32 @111948 has 8 MA's), (37, 111957), (Start: 68 @112023 has 162 MA's), (84, 112098), (103, 112212), (109, 112236), (127, 112296), (151, 112407), (157, 112446), (164, 112470), (173, 112512), (203, 112611), (214, 112653), (216, 112659), (219, 112671), (229, 112734), (242, 112794), (243, 112797), (250, 112824), (261, 112866), (279, 112929), (330, 113085), (335, 113103), (338, 113118), (351, 113235), (357, 113274), (372, 113394), (380, 113436), (389, 113481), (391, 113490), (402, 113541), (414, 113583), (432, 113649), (434, 113658), (435, 113661), (436, 113667), (437, 113670), (438, 113679), (439, 113685), (440, 113700), (462, 113787), (483, 113892), (495, 113946), (510, 114033), (516, 114063), (526, 114093), (533, 114126), (535, 114135), (546, 114207), (552, 114237), (577, 114354), (589, 114399), (601, 114441), (660, 114585), (675, 114645), (715, 114747), (750, 114834), (751, 114837), (761, 114855), (771, 114891), (772, 114894), (793, 114954), (798, 114972), (827, 115068), (836, 115098), (839, 115116), (846, 115146), (879, 115239), (883, 115254), (900, 115335), (902, 115341), (905, 115353),

Gene: Shifa_186 Start: 112600, Stop: 115995, Start Num: 68

Candidate Starts for Shifa_186:

(Start: 26 @112507 has 44 MA's), (Start: 28 @112513 has 6 MA's), (Start: 32 @112525 has 8 MA's), (37, 112534), (Start: 68 @112600 has 162 MA's), (84, 112675), (103, 112789), (109, 112813), (127, 112873), (144, 112966), (151, 112984), (157, 113023), (164, 113047), (173, 113089), (203, 113188), (214, 113230), (216, 113236), (219, 113248), (229, 113311), (242, 113371), (243, 113374), (250, 113401), (261, 113443), (279, 113506), (330, 113662), (335, 113680), (338, 113695), (351, 113812), (357, 113851), (372, 113971), (380, 114013), (389, 114058), (391, 114067), (402, 114118), (414, 114160), (432, 114226), (434, 114235), (435, 114238), (436, 114244), (437, 114247), (438, 114256), (439, 114262), (440, 114277), (462, 114364), (483, 114469), (495, 114523), (510, 114610), (516, 114640), (526, 114670), (533, 114703), (535, 114712), (546, 114784), (552, 114814), (577, 114931), (589, 114976), (601, 115018), (660, 115162), (675, 115222), (715, 115324), (750, 115411), (751, 115414), (761, 115432), (771, 115468), (772, 115471), (793, 115531), (798, 115549), (827, 115645), (836, 115675), (839, 115693), (846, 115723), (879, 115816), (883, 115831), (900, 115912), (902, 115918), (905, 115930),

Gene: Shnickers_207 Start: 112087, Stop: 115482, Start Num: 68

Candidate Starts for Shnickers_207:

(Start: 26 @111994 has 44 MA's), (Start: 28 @112000 has 6 MA's), (Start: 32 @112012 has 8 MA's), (37, 112021), (Start: 68 @112087 has 162 MA's), (84, 112162), (103, 112276), (109, 112300), (127, 112360), (151, 112471), (157, 112510), (164, 112534), (173, 112576), (203, 112675), (214, 112717), (216, 112723), (219, 112735), (229, 112798), (242, 112858), (243, 112861), (250, 112888), (261, 112930), (279, 112993), (330, 113149), (335, 113167), (338, 113182), (351, 113299), (357, 113338), (372, 113458), (380, 113500), (389, 113545), (391, 113554), (402, 113605), (414, 113647), (432, 113713), (434, 113722), (435, 113725), (436, 113731), (437, 113734), (438, 113743), (439, 113749), (440, 113764), (462, 113851), (483, 113956), (495, 114010), (510, 114097), (516, 114127), (526, 114157), (533, 114190), (535, 114199), (546, 114271), (552, 114301), (577, 114418), (589, 114463), (601, 114505), (660, 114649), (675, 114709), (715, 114811), (750, 114898), (751, 114901), (761, 114919), (771, 114955), (772, 114958), (793, 115018), (798, 115036), (827, 115132), (836, 115162), (839, 115180), (846, 115210), (879, 115303), (883, 115318), (900, 115399), (902, 115405), (905, 115417),

Gene: Shrimp_211 Start: 114051, Stop: 117539, Start Num: 26

Candidate Starts for Shrimp_211:

(Start: 26 @114051 has 44 MA's), (Start: 28 @114057 has 6 MA's), (Start: 32 @114069 has 8 MA's), (37, 114078), (Start: 68 @114144 has 162 MA's), (84, 114219), (103, 114333), (109, 114357), (127, 114417), (151, 114528), (157, 114567), (164, 114591), (173, 114633), (203, 114732), (214, 114774), (216, 114780), (219, 114792), (229, 114855), (242, 114915), (243, 114918), (250, 114945), (261, 114987), (279, 115050), (330, 115206), (335, 115224), (338, 115239), (351, 115356), (357, 115395), (372, 115515), (380, 115557), (389, 115602), (391, 115611), (402, 115662), (414, 115704), (432, 115770), (434, 115779), (435, 115782), (436, 115788), (437, 115791), (438, 115800), (439, 115806), (440, 115821), (462, 115908), (483, 116013), (495, 116067), (510, 116154), (516, 116184), (526, 116214), (533, 116247), (535, 116256), (546, 116328), (552, 116358), (577, 116475), (589, 116520), (601, 116562), (660, 116706), (675, 116766), (715, 116868), (750, 116955), (751, 116958), (761, 116976), (771, 117012), (772, 117015), (793, 117075), (798, 117093), (827, 117189), (836, 117219), (839, 117237), (846, 117267), (879, 117360), (883, 117375), (900, 117456), (902, 117462), (905, 117474),

Gene: SilverDipper_213 Start: 113543, Stop: 117031, Start Num: 26

Candidate Starts for SilverDipper_213:

(Start: 26 @113543 has 44 MA's), (Start: 28 @113549 has 6 MA's), (Start: 32 @113561 has 8 MA's), (37, 113570), (Start: 68 @113636 has 162 MA's), (84, 113711), (103, 113825), (109, 113849), (127, 113909), (151, 114020), (157, 114059), (164, 114083), (173, 114125), (203, 114224), (214, 114266), (216, 114272), (219, 114284), (229, 114347), (242, 114407), (243, 114410), (250, 114437), (261, 114479), (279, 114542), (321, 114662), (330, 114698), (335, 114716), (338, 114731), (351, 114848), (357, 114887), (372, 115007), (380, 115049), (389, 115094), (391, 115103), (402, 115154), (414, 115196), (432, 115262), (434, 115271), (435, 115274), (436, 115280), (437, 115283), (438, 115292), (439, 115298), (440, 115313), (462, 115400), (483, 115505), (495, 115559), (510, 115646), (516, 115676), (526, 115706), (533, 115739), (535, 115748), (546, 115820), (552, 115850), (577, 115967), (589, 116012), (601, 116054), (660, 116198), (675, 116258), (715, 116360), (750, 116447), (751, 116450), (761, 116468), (771, 116504), (772, 116507), (793, 116567), (798, 116585), (827, 116681), (836, 116711), (839, 116729), (846, 116759), (879, 116852), (883, 116867), (900, 116948), (902, 116954), (905, 116966),

Gene: SirHarley_69 Start: 50202, Stop: 53504, Start Num: 29

Candidate Starts for SirHarley_69:

(Start: 29 @50202 has 19 MA's), (Start: 64 @50289 has 1 MA's), (Start: 67 @50295 has 1 MA's), (Start: 73 @50304 has 88 MA's), (Start: 89 @50400 has 6 MA's), (130, 50556), (148, 50643), (149, 50646), (159, 50697), (224, 50961), (232, 51000), (249, 51072), (252, 51081), (270, 51156), (292, 51222), (294, 51228), (309, 51282), (316, 51300), (325, 51351), (326, 51354), (334, 51384), (349, 51468), (350, 51477), (354, 51504), (356, 51519), (382, 51696), (383, 51705), (412, 51810), (438, 51891), (448, 51951), (466, 52026), (472, 52059), (473, 52065), (478, 52086), (481, 52095), (494, 52140), (514, 52209), (520, 52224), (536, 52293), (556, 52389), (557, 52392), (568, 52443), (584, 52518), (643, 52641), (651, 52659), (668, 52737), (669, 52740), (671, 52752), (685, 52797), (695, 52818), (699, 52830), (711, 52860), (717, 52881), (777, 52953), (798, 53010), (826, 53109), (844, 53175), (875, 53265), (881, 53295), (882, 53298), (887, 53328), (896, 53373), (907, 53415), (914, 53445), (918, 53457), (922, 53472), (925, 53481),

Gene: Skog_212 Start: 135640, Stop: 139095, Start Num: 68

Candidate Starts for Skog_212:

(15, 135490), (20, 135517), (22, 135523), (48, 135607), (Start: 68 @135640 has 162 MA's), (84, 135715), (127, 135913), (134, 135949), (150, 136021), (153, 136042), (183, 136162), (188, 136186), (192, 136210), (198, 136231), (203, 136258), (214, 136300), (225, 136369), (229, 136381), (242, 136438), (243, 136441), (250, 136468), (256, 136495), (279, 136570), (338, 136759), (339, 136762), (342, 136795), (386, 137113), (389, 137128), (390, 137131), (428, 137275), (440, 137338), (441, 137341), (442, 137344), (443, 137353), (448, 137371), (462, 137434), (464, 137443), (475, 137506),

(496, 137596), (516, 137707), (530, 137749), (544, 137845), (546, 137848), (558, 137899), (559, 137902), (579, 137989), (643, 138160), (711, 138382), (784, 138583), (821, 138706), (835, 138757), (836, 138760), (839, 138778), (846, 138808), (851, 138826), (863, 138856), (865, 138859), (878, 138898), (879, 138901),

Gene: Skysand_61 Start: 49139, Stop: 45828, Start Num: 73

Candidate Starts for Skysand_61:

(1, 49391), (10, 49304), (14, 49277), (Start: 73 @49139 has 88 MA's), (85, 49067), (Start: 89 @49043 has 6 MA's), (128, 48890), (130, 48881), (155, 48758), (194, 48599), (197, 48593), (204, 48569), (225, 48461), (232, 48431), (292, 48224), (335, 48053), (343, 48011), (354, 47933), (356, 47918), (376, 47780), (431, 47582), (441, 47525), (450, 47480), (466, 47414), (476, 47363), (481, 47345), (494, 47300), (549, 47057), (558, 47015), (559, 47012), (561, 47006), (565, 46988), (590, 46892), (596, 46874), (603, 46838), (665, 46694), (669, 46685), (674, 46661), (682, 46634), (695, 46610), (735, 46481), (769, 46394), (772, 46385), (794, 46313), (801, 46292), (850, 46121), (916, 45872), (925, 45842),

Gene: SmallFry_209 Start: 112181, Stop: 115576, Start Num: 68

Candidate Starts for SmallFry_209:

(Start: 26 @112088 has 44 MA's), (Start: 28 @112094 has 6 MA's), (Start: 32 @112106 has 8 MA's), (37, 112115), (Start: 68 @112181 has 162 MA's), (84, 112256), (103, 112370), (109, 112394), (127, 112454), (151, 112565), (157, 112604), (164, 112628), (173, 112670), (203, 112769), (214, 112811), (216, 112817), (219, 112829), (229, 112892), (242, 112952), (243, 112955), (250, 112982), (261, 113024), (279, 113087), (330, 113243), (335, 113261), (338, 113276), (351, 113393), (357, 113432), (372, 113552), (380, 113594), (389, 113639), (391, 113648), (402, 113699), (414, 113741), (432, 113807), (434, 113816), (435, 113819), (436, 113825), (437, 113828), (438, 113837), (439, 113843), (440, 113858), (462, 113945), (483, 114050), (495, 114104), (510, 114191), (516, 114221), (526, 114251), (533, 114284), (535, 114293), (546, 114365), (552, 114395), (577, 114512), (589, 114557), (601, 114599), (660, 114743), (675, 114803), (715, 114905), (750, 114992), (751, 114995), (761, 115013), (771, 115049), (772, 115052), (793, 115112), (798, 115130), (827, 115226), (836, 115256), (839, 115274), (846, 115304), (879, 115397), (883, 115412), (900, 115493), (902, 115499), (905, 115511),

Gene: Snorlax_54 Start: 42492, Stop: 39007, Start Num: 68

Candidate Starts for Snorlax_54:

(Start: 36 @42561 has 1 MA's), (Start: 68 @42492 has 162 MA's), (Start: 82 @42429 has 1 MA's), (84, 42420), (91, 42378), (107, 42285), (123, 42216), (135, 42147), (144, 42093), (161, 42021), (168, 41985), (188, 41925), (247, 41700), (257, 41661), (266, 41634), (269, 41616), (276, 41595), (283, 41580), (304, 41538), (325, 41460), (329, 41448), (358, 41262), (359, 41256), (366, 41211), (381, 41127), (383, 41109), (398, 41052), (399, 41049), (401, 41037), (438, 40899), (439, 40893), (440, 40878), (442, 40872), (449, 40839), (468, 40761), (474, 40728), (512, 40587), (534, 40506), (535, 40500), (546, 40431), (558, 40368), (564, 40347), (574, 40302), (601, 40206), (602, 40197), (604, 40191), (655, 40089), (657, 40080), (661, 40068), (663, 40047), (673, 40017), (678, 39990), (709, 39924), (711, 39915), (714, 39903), (747, 39816), (796, 39648), (812, 39600), (840, 39489), (880, 39351), (883, 39342), (887, 39315), (899, 39267), (908, 39234), (914, 39207), (933, 39102), (934, 39090),

Gene: Sollertia_82 Start: 58392, Stop: 61712, Start Num: 69

Candidate Starts for Sollertia_82:

(Start: 69 @58392 has 26 MA's), (85, 58464), (Start: 89 @58488 has 6 MA's), (102, 58569), (146, 58767), (189, 58947), (200, 58995), (213, 59052), (223, 59103), (225, 59121), (228, 59130), (236, 59166), (262, 59283), (302, 59355), (334, 59478), (337, 59493), (372, 59727), (387, 59805), (438, 59967), (441, 59991), (462, 60090), (478, 60174), (502, 60246), (546, 60450), (559, 60504), (562, 60513), (566, 60531), (568, 60537), (598, 60651), (608, 60729), (619, 60753), (622, 60780), (679,

61035), (686, 61053), (693, 61065), (722, 61155), (740, 61215), (759, 61257), (773, 61302), (783, 61329), (791, 61368), (806, 61416), (809, 61425), (830, 61497), (836, 61518), (841, 61545), (842, 61548), (858, 61596), (881, 61662), (882, 61665),

Gene: South40_54 Start: 42740, Stop: 39261, Start Num: 68

Candidate Starts for South40_54:

(Start: 36 @42806 has 1 MA's), (Start: 68 @42740 has 162 MA's), (Start: 82 @42677 has 1 MA's), (84, 42668), (86, 42656), (91, 42626), (107, 42533), (117, 42500), (123, 42464), (135, 42395), (144, 42341), (161, 42269), (188, 42173), (218, 42095), (247, 41948), (257, 41909), (269, 41864), (276, 41843), (283, 41828), (298, 41807), (325, 41708), (329, 41696), (343, 41633), (358, 41510), (359, 41504), (366, 41459), (381, 41375), (383, 41357), (398, 41300), (399, 41297), (401, 41285), (438, 41147), (440, 41126), (442, 41120), (445, 41105), (456, 41063), (467, 41015), (468, 41009), (474, 40976), (512, 40835), (530, 40778), (534, 40754), (535, 40748), (546, 40679), (557, 40631), (558, 40616), (564, 40595), (574, 40550), (601, 40454), (602, 40445), (655, 40337), (657, 40328), (661, 40316), (663, 40295), (673, 40265), (678, 40238), (711, 40163), (714, 40151), (747, 40064), (756, 40040), (812, 39848), (840, 39737), (880, 39599), (887, 39563), (899, 39515), (900, 39509), (908, 39482), (933, 39350), (934, 39338), (936, 39332), (943, 39275),

Gene: SparkleGoddess_61 Start: 49852, Stop: 53142, Start Num: 70

Candidate Starts for SparkleGoddess_61:

(59, 49834), (Start: 70 @49852 has 57 MA's), (75, 49867), (76, 49873), (80, 49903), (85, 49924), (88, 49942), (Start: 89 @49948 has 6 MA's), (124, 50116), (132, 50158), (146, 50227), (159, 50287), (188, 50401), (189, 50407), (213, 50512), (225, 50575), (227, 50581), (236, 50620), (302, 50809), (319, 50866), (323, 50893), (336, 50938), (383, 51244), (392, 51280), (431, 51364), (439, 51403), (460, 51508), (462, 51520), (468, 51553), (473, 51583), (474, 51586), (477, 51598), (478, 51604), (502, 51676), (516, 51742), (517, 51748), (534, 51811), (546, 51883), (559, 51937), (562, 51946), (566, 51964), (568, 51970), (598, 52084), (606, 52150), (608, 52162), (619, 52186), (626, 52222), (627, 52225), (638, 52282), (640, 52288), (644, 52300), (654, 52336), (665, 52405), (727, 52603), (740, 52636), (758, 52672), (759, 52678), (764, 52690), (791, 52789), (793, 52798), (800, 52819), (811, 52849), (826, 52906), (842, 52969), (861, 53020), (864, 53032),

Gene: Spec_204 Start: 112372, Stop: 115767, Start Num: 68

Candidate Starts for Spec_204:

(Start: 26 @112279 has 44 MA's), (Start: 28 @112285 has 6 MA's), (Start: 32 @112297 has 8 MA's), (37, 112306), (Start: 68 @112372 has 162 MA's), (84, 112447), (103, 112561), (109, 112585), (127, 112645), (151, 112756), (157, 112795), (164, 112819), (173, 112861), (203, 112960), (214, 113002), (216, 113008), (219, 113020), (229, 113083), (242, 113143), (243, 113146), (250, 113173), (261, 113215), (279, 113278), (330, 113434), (335, 113452), (338, 113467), (351, 113584), (357, 113623), (372, 113743), (380, 113785), (389, 113830), (391, 113839), (402, 113890), (414, 113932), (432, 113998), (434, 114007), (435, 114010), (436, 114016), (437, 114019), (438, 114028), (439, 114034), (440, 114049), (462, 114136), (483, 114241), (495, 114295), (510, 114382), (516, 114412), (526, 114442), (533, 114475), (535, 114484), (546, 114556), (552, 114586), (577, 114703), (589, 114748), (601, 114790), (660, 114934), (675, 114994), (715, 115096), (750, 115183), (751, 115186), (761, 115204), (771, 115240), (772, 115243), (793, 115303), (798, 115321), (827, 115417), (836, 115447), (839, 115465), (846, 115495), (879, 115588), (883, 115603), (900, 115684), (902, 115690), (905, 115702),

Gene: Specks_213 Start: 114490, Stop: 117885, Start Num: 68

Candidate Starts for Specks_213:

(Start: 26 @114397 has 44 MA's), (Start: 28 @114403 has 6 MA's), (Start: 32 @114415 has 8 MA's), (37, 114424), (Start: 68 @114490 has 162 MA's), (84, 114565), (103, 114679), (109, 114703), (127, 114763), (151, 114874), (157, 114913), (164, 114937), (173, 114979), (203, 115078), (214, 115120), (216, 115126), (219, 115138), (229, 115201), (242, 115261), (243, 115264), (250, 115291), (261,

115333), (279, 115396), (330, 115552), (335, 115570), (338, 115585), (351, 115702), (357, 115741), (372, 115861), (380, 115903), (389, 115948), (391, 115957), (402, 116008), (414, 116050), (432, 116116), (434, 116125), (435, 116128), (436, 116134), (437, 116137), (438, 116146), (439, 116152), (440, 116167), (462, 116254), (483, 116359), (495, 116413), (510, 116500), (516, 116530), (526, 116560), (533, 116593), (535, 116602), (546, 116674), (552, 116704), (577, 116821), (589, 116866), (601, 116908), (660, 117052), (675, 117112), (715, 117214), (750, 117301), (751, 117304), (761, 117322), (771, 117358), (772, 117361), (793, 117421), (798, 117439), (827, 117535), (836, 117565), (839, 117583), (846, 117613), (879, 117706), (883, 117721), (900, 117802), (902, 117808), (905, 117820),

Gene: Spelly_82 Start: 58398, Stop: 61718, Start Num: 69

Candidate Starts for Spelly_82:

(Start: 69 @58398 has 26 MA's), (80, 58449), (85, 58470), (Start: 89 @58494 has 6 MA's), (102, 58575), (146, 58773), (189, 58953), (200, 59001), (213, 59058), (215, 59061), (223, 59109), (225, 59127), (228, 59136), (236, 59172), (259, 59280), (262, 59289), (337, 59499), (349, 59568), (372, 59733), (387, 59811), (438, 59973), (462, 60096), (466, 60120), (478, 60180), (499, 60243), (502, 60252), (546, 60456), (559, 60510), (562, 60519), (566, 60537), (568, 60543), (607, 60726), (608, 60735), (619, 60759), (622, 60786), (648, 60894), (696, 61083), (722, 61161), (732, 61203), (740, 61221), (759, 61263), (771, 61302), (773, 61308), (783, 61335), (791, 61374), (806, 61422), (809, 61431), (830, 61503), (836, 61524), (841, 61551), (842, 61554), (847, 61569), (858, 61602), (882, 61671),

Gene: Spilled_83 Start: 58515, Stop: 61835, Start Num: 69

Candidate Starts for Spilled_83:

(Start: 69 @58515 has 26 MA's), (80, 58566), (85, 58587), (Start: 89 @58611 has 6 MA's), (102, 58692), (146, 58890), (189, 59070), (200, 59118), (202, 59121), (213, 59175), (215, 59178), (223, 59226), (225, 59244), (228, 59253), (236, 59289), (259, 59397), (262, 59406), (337, 59616), (349, 59685), (372, 59850), (387, 59928), (412, 59997), (438, 60090), (462, 60213), (478, 60297), (499, 60360), (502, 60369), (546, 60573), (559, 60627), (562, 60636), (566, 60654), (568, 60660), (608, 60852), (619, 60876), (622, 60903), (648, 61011), (696, 61200), (722, 61278), (732, 61320), (740, 61338), (759, 61380), (771, 61419), (773, 61425), (783, 61452), (791, 61491), (806, 61539), (830, 61620), (836, 61641), (841, 61668), (842, 61671), (847, 61686), (858, 61719), (882, 61788),

Gene: Sprinklers_207 Start: 112739, Stop: 116134, Start Num: 68

Candidate Starts for Sprinklers_207:

(Start: 18 @112616 has 4 MA's), (Start: 26 @112646 has 44 MA's), (Start: 28 @112652 has 6 MA's), (Start: 32 @112664 has 8 MA's), (37, 112673), (Start: 68 @112739 has 162 MA's), (84, 112814), (103, 112928), (109, 112952), (127, 113012), (151, 113123), (157, 113162), (164, 113186), (173, 113228), (203, 113327), (214, 113369), (216, 113375), (219, 113387), (229, 113450), (242, 113510), (243, 113513), (250, 113540), (261, 113582), (279, 113645), (321, 113765), (330, 113801), (335, 113819), (338, 113834), (351, 113951), (357, 113990), (372, 114110), (380, 114152), (389, 114197), (391, 114206), (402, 114257), (414, 114299), (432, 114365), (434, 114374), (435, 114377), (436, 114383), (437, 114386), (438, 114395), (439, 114401), (440, 114416), (462, 114503), (483, 114608), (495, 114662), (510, 114749), (516, 114779), (526, 114809), (533, 114842), (535, 114851), (546, 114923), (552, 114953), (577, 115070), (589, 115115), (601, 115157), (660, 115301), (675, 115361), (715, 115463), (750, 115550), (751, 115553), (761, 115571), (771, 115607), (772, 115610), (793, 115670), (798, 115688), (827, 115784), (836, 115814), (839, 115832), (846, 115862), (879, 115955), (883, 115970), (900, 116051), (902, 116057), (905, 116069),

Gene: Spud_203 Start: 112451, Stop: 115846, Start Num: 68

Candidate Starts for Spud_203:

(Start: 26 @112358 has 44 MA's), (Start: 28 @112364 has 6 MA's), (Start: 32 @112376 has 8 MA's), (37, 112385), (Start: 68 @112451 has 162 MA's), (84, 112526), (103, 112640), (109, 112664), (127,

112724), (151, 112835), (157, 112874), (164, 112898), (173, 112940), (203, 113039), (214, 113081), (216, 113087), (219, 113099), (229, 113162), (242, 113222), (243, 113225), (250, 113252), (261, 113294), (279, 113357), (321, 113477), (330, 113513), (335, 113531), (338, 113546), (351, 113663), (357, 113702), (372, 113822), (380, 113864), (389, 113909), (391, 113918), (402, 113969), (414, 114011), (432, 114077), (434, 114086), (435, 114089), (436, 114095), (437, 114098), (438, 114107), (439, 114113), (440, 114128), (462, 114215), (483, 114320), (495, 114374), (510, 114461), (516, 114491), (526, 114521), (533, 114554), (535, 114563), (546, 114635), (552, 114665), (577, 114782), (589, 114827), (601, 114869), (660, 115013), (675, 115073), (715, 115175), (750, 115262), (751, 115265), (761, 115283), (771, 115319), (772, 115322), (793, 115382), (798, 115400), (827, 115496), (836, 115526), (839, 115544), (846, 115574), (879, 115667), (883, 115682), (900, 115763), (902, 115769), (905, 115781),

Gene: Squillum_79 Start: 58567, Stop: 61851, Start Num: 70

Candidate Starts for Squillum_79:

(Start: 70 @58567 has 57 MA's), (79, 58612), (85, 58642), (88, 58660), (Start: 89 @58666 has 6 MA's), (99, 58732), (146, 58945), (149, 58951), (168, 59047), (189, 59125), (213, 59230), (225, 59293), (227, 59299), (236, 59338), (262, 59455), (310, 59554), (337, 59665), (345, 59695), (349, 59734), (387, 59977), (439, 60121), (440, 60136), (461, 60232), (462, 60238), (466, 60262), (478, 60322), (499, 60385), (502, 60394), (517, 60466), (534, 60529), (546, 60601), (559, 60655), (562, 60664), (564, 60673), (566, 60682), (568, 60688), (587, 60769), (606, 60868), (622, 60931), (638, 61000), (641, 61012), (689, 61198), (696, 61216), (725, 61312), (736, 61345), (759, 61396), (771, 61435), (773, 61441), (791, 61507), (800, 61537), (806, 61555), (818, 61591), (830, 61636), (832, 61645), (837, 61666), (842, 61687), (858, 61735), (864, 61750),

Gene: SrishMeg2525_206 Start: 113615, Stop: 117010, Start Num: 68

Candidate Starts for SrishMeg2525_206:

(Start: 26 @113522 has 44 MA's), (Start: 28 @113528 has 6 MA's), (Start: 32 @113540 has 8 MA's), (37, 113549), (Start: 68 @113615 has 162 MA's), (84, 113690), (103, 113804), (109, 113828), (127, 113888), (151, 113999), (157, 114038), (164, 114062), (173, 114104), (203, 114203), (214, 114245), (216, 114251), (219, 114263), (229, 114326), (242, 114386), (243, 114389), (250, 114416), (261, 114458), (279, 114521), (330, 114677), (335, 114695), (338, 114710), (351, 114827), (357, 114866), (372, 114986), (380, 115028), (389, 115073), (391, 115082), (402, 115133), (414, 115175), (432, 115241), (434, 115250), (435, 115253), (436, 115259), (437, 115262), (438, 115271), (439, 115277), (440, 115292), (462, 115379), (483, 115484), (495, 115538), (510, 115625), (516, 115655), (526, 115685), (533, 115718), (535, 115727), (546, 115799), (552, 115829), (577, 115946), (589, 115991), (601, 116033), (660, 116177), (675, 116237), (715, 116339), (750, 116426), (751, 116429), (761, 116447), (771, 116483), (772, 116486), (793, 116546), (798, 116564), (827, 116660), (836, 116690), (839, 116708), (846, 116738), (879, 116831), (883, 116846), (900, 116927), (902, 116933), (905, 116945),

Gene: Stanimal_82 Start: 58281, Stop: 61601, Start Num: 69

Candidate Starts for Stanimal_82:

(Start: 69 @58281 has 26 MA's), (85, 58353), (Start: 89 @58377 has 6 MA's), (102, 58458), (146, 58656), (189, 58836), (200, 58884), (213, 58941), (223, 58992), (225, 59010), (228, 59019), (236, 59055), (259, 59163), (262, 59172), (302, 59244), (337, 59382), (349, 59451), (372, 59616), (387, 59694), (438, 59856), (441, 59880), (462, 59979), (478, 60063), (502, 60135), (546, 60339), (559, 60393), (562, 60402), (566, 60420), (568, 60426), (598, 60540), (608, 60618), (619, 60642), (622, 60669), (678, 60921), (679, 60924), (686, 60942), (693, 60954), (722, 61044), (740, 61104), (759, 61146), (771, 61185), (773, 61191), (783, 61218), (791, 61257), (806, 61305), (809, 61314), (830, 61386), (833, 61398), (836, 61407), (841, 61434), (842, 61437), (847, 61452), (858, 61485), (876, 61539), (882, 61554),

Gene: StarPlatinum_82 Start: 58954, Stop: 62274, Start Num: 69

Candidate Starts for StarPlatinum_82:

(Start: 69 @58954 has 26 MA's), (80, 59005), (85, 59026), (Start: 89 @59050 has 6 MA's), (102, 59131), (146, 59329), (184, 59485), (189, 59509), (200, 59557), (202, 59560), (213, 59614), (223, 59665), (225, 59683), (228, 59692), (236, 59728), (259, 59836), (262, 59845), (302, 59917), (337, 60055), (349, 60124), (372, 60289), (387, 60367), (438, 60529), (462, 60652), (478, 60736), (502, 60808), (546, 61012), (559, 61066), (562, 61075), (566, 61093), (568, 61099), (608, 61291), (619, 61315), (622, 61342), (638, 61423), (648, 61450), (678, 61594), (679, 61597), (686, 61615), (693, 61627), (722, 61717), (740, 61777), (759, 61819), (771, 61858), (773, 61864), (783, 61891), (791, 61930), (806, 61978), (809, 61987), (830, 62059), (833, 62071), (836, 62080), (841, 62107), (842, 62110), (857, 62155), (858, 62158), (876, 62212), (882, 62227),

Gene: StarStruck_61 Start: 48867, Stop: 45550, Start Num: 73

Candidate Starts for StarStruck_61:

(Start: 73 @48867 has 88 MA's), (81, 48810), (Start: 89 @48771 has 6 MA's), (128, 48618), (130, 48609), (155, 48486), (194, 48327), (197, 48321), (204, 48297), (225, 48189), (252, 48078), (292, 47952), (335, 47781), (343, 47739), (348, 47700), (354, 47661), (356, 47646), (376, 47508), (402, 47376), (431, 47310), (441, 47253), (454, 47193), (466, 47142), (481, 47073), (494, 47028), (549, 46785), (558, 46743), (559, 46740), (561, 46734), (565, 46716), (590, 46620), (603, 46566), (669, 46413), (682, 46362), (686, 46353), (735, 46209), (766, 46131), (769, 46116), (790, 46056), (794, 46035), (801, 46014), (814, 45966), (838, 45882), (841, 45870), (842, 45867), (874, 45774), (916, 45591), (925, 45561),

Gene: Starbow_80 Start: 58419, Stop: 61739, Start Num: 69

Candidate Starts for Starbow_80:

(Start: 69 @58419 has 26 MA's), (80, 58470), (85, 58491), (Start: 89 @58515 has 6 MA's), (102, 58596), (146, 58794), (189, 58974), (200, 59022), (213, 59079), (215, 59082), (223, 59130), (225, 59148), (228, 59157), (236, 59193), (259, 59301), (262, 59310), (337, 59520), (349, 59589), (372, 59754), (387, 59832), (438, 59994), (462, 60117), (478, 60201), (499, 60264), (502, 60273), (546, 60477), (559, 60531), (562, 60540), (566, 60558), (568, 60564), (607, 60747), (608, 60756), (619, 60780), (622, 60807), (648, 60915), (696, 61104), (722, 61182), (732, 61224), (740, 61242), (759, 61284), (771, 61323), (773, 61329), (783, 61356), (791, 61395), (806, 61443), (809, 61452), (830, 61524), (836, 61545), (841, 61572), (842, 61575), (847, 61590), (858, 61623), (882, 61692),

Gene: StephanieG_205 Start: 113649, Stop: 117044, Start Num: 68

Candidate Starts for StephanieG_205:

(11, 113481), (Start: 26 @113556 has 44 MA's), (Start: 28 @113562 has 6 MA's), (Start: 32 @113574 has 8 MA's), (37, 113583), (Start: 68 @113649 has 162 MA's), (84, 113724), (103, 113838), (109, 113862), (127, 113922), (151, 114033), (157, 114072), (164, 114096), (173, 114138), (203, 114237), (214, 114279), (216, 114285), (219, 114297), (229, 114360), (242, 114420), (243, 114423), (250, 114450), (261, 114492), (279, 114555), (330, 114711), (335, 114729), (338, 114744), (351, 114861), (357, 114900), (372, 115020), (380, 115062), (389, 115107), (391, 115116), (402, 115167), (414, 115209), (432, 115275), (434, 115284), (435, 115287), (436, 115293), (437, 115296), (438, 115305), (439, 115311), (440, 115326), (462, 115413), (483, 115518), (495, 115572), (510, 115659), (516, 115689), (526, 115719), (533, 115752), (535, 115761), (546, 115833), (552, 115863), (577, 115980), (589, 116025), (601, 116067), (660, 116211), (675, 116271), (715, 116373), (750, 116460), (751, 116463), (761, 116481), (771, 116517), (772, 116520), (793, 116580), (798, 116598), (827, 116694), (836, 116724), (839, 116742), (846, 116772), (879, 116865), (883, 116880), (900, 116961), (902, 116967), (905, 116979),

Gene: Stickynote_45 Start: 42219, Stop: 38926, Start Num: 73

Candidate Starts for Stickynote_45:

(Start: 73 @42219 has 88 MA's), (81, 42162), (86, 42138), (Start: 89 @42123 has 6 MA's), (90, 42114), (130, 41967), (182, 41685), (185, 41661), (194, 41607), (300, 41193), (325, 41091), (354,

40938), (356, 40923), (368, 40827), (419, 40608), (420, 40605), (429, 40590), (437, 40560), (440, 40530), (466, 40413), (472, 40380), (478, 40353), (484, 40329), (525, 40182), (536, 40128), (539, 40107), (557, 40032), (559, 40014), (603, 39837), (637, 39807), (645, 39780), (651, 39765), (683, 39636), (721, 39603), (763, 39516), (798, 39402), (801, 39396), (805, 39384), (846, 39234), (847, 39231), (849, 39225), (855, 39207), (859, 39198), (867, 39180), (891, 39078), (893, 39054), (903, 39018), (904, 39012),

Gene: Stigma_60 Start: 49866, Stop: 53156, Start Num: 70

Candidate Starts for Stigma_60:

(59, 49848), (Start: 70 @49866 has 57 MA's), (76, 49887), (80, 49917), (85, 49938), (88, 49956), (Start: 89 @49962 has 6 MA's), (124, 50130), (132, 50172), (146, 50241), (159, 50301), (188, 50415), (189, 50421), (213, 50526), (225, 50589), (227, 50595), (236, 50634), (302, 50823), (319, 50880), (323, 50907), (336, 50952), (383, 51258), (392, 51294), (431, 51378), (439, 51417), (460, 51522), (462, 51534), (466, 51558), (468, 51567), (473, 51597), (474, 51600), (478, 51618), (502, 51690), (516, 51756), (517, 51762), (534, 51825), (546, 51897), (559, 51951), (562, 51960), (566, 51978), (568, 51984), (598, 52098), (606, 52164), (608, 52176), (626, 52236), (627, 52239), (638, 52296), (640, 52302), (644, 52314), (654, 52350), (665, 52419), (719, 52587), (727, 52617), (740, 52650), (758, 52686), (759, 52692), (764, 52704), (791, 52803), (793, 52812), (800, 52833), (811, 52863), (826, 52920), (842, 52983), (861, 53034), (864, 53046),

Gene: Stormageddon_76 Start: 71389, Stop: 74583, Start Num: 71

Candidate Starts for Stormageddon_76:

(61, 71377), (Start: 71 @71389 has 4 MA's), (84, 71461), (93, 71533), (98, 71551), (105, 71584), (128, 71662), (144, 71749), (150, 71764), (160, 71818), (170, 71866), (183, 71905), (205, 71977), (206, 71980), (209, 71995), (218, 72028), (226, 72085), (229, 72094), (242, 72148), (243, 72151), (250, 72178), (266, 72235), (279, 72280), (299, 72313), (308, 72346), (321, 72400), (327, 72424), (335, 72454), (338, 72469), (343, 72496), (351, 72550), (362, 72646), (384, 72775), (386, 72781), (414, 72871), (425, 72907), (428, 72925), (434, 72946), (436, 72955), (512, 73282), (536, 73375), (544, 73435), (559, 73492), (561, 73498), (563, 73507), (573, 73552), (574, 73555), (585, 73603), (639, 73729), (659, 73804), (663, 73825), (672, 73852), (674, 73861), (675, 73867), (676, 73870), (687, 73906), (702, 73936), (732, 74014), (733, 74017), (749, 74053), (750, 74056), (767, 74092), (822, 74194), (828, 74218), (839, 74263), (843, 74281), (856, 74323), (879, 74386), (890, 74434), (894, 74464), (919, 74548),

Gene: Stubby_193 Start: 112491, Stop: 115886, Start Num: 68

Candidate Starts for Stubby_193:

(Start: 26 @112398 has 44 MA's), (Start: 28 @112404 has 6 MA's), (Start: 32 @112416 has 8 MA's), (37, 112425), (Start: 68 @112491 has 162 MA's), (84, 112566), (103, 112680), (109, 112704), (127, 112764), (151, 112875), (157, 112914), (164, 112938), (173, 112980), (203, 113079), (214, 113121), (216, 113127), (219, 113139), (229, 113202), (242, 113262), (243, 113265), (250, 113292), (261, 113334), (279, 113397), (321, 113517), (330, 113553), (335, 113571), (338, 113586), (351, 113703), (357, 113742), (372, 113862), (380, 113904), (389, 113949), (391, 113958), (402, 114009), (414, 114051), (432, 114117), (434, 114126), (435, 114129), (436, 114135), (437, 114138), (438, 114147), (439, 114153), (440, 114168), (462, 114255), (483, 114360), (495, 114414), (510, 114501), (516, 114531), (526, 114561), (533, 114594), (535, 114603), (546, 114675), (552, 114705), (577, 114822), (589, 114867), (601, 114909), (660, 115053), (675, 115113), (715, 115215), (750, 115302), (751, 115305), (761, 115323), (771, 115359), (772, 115362), (793, 115422), (798, 115440), (827, 115536), (836, 115566), (839, 115584), (846, 115614), (879, 115707), (883, 115722), (900, 115803), (902, 115809), (905, 115821),

Gene: StubbySaigey_214 Start: 113170, Stop: 116565, Start Num: 68

Candidate Starts for StubbySaigey_214:

(Start: 26 @113077 has 44 MA's), (Start: 28 @113083 has 6 MA's), (Start: 32 @113095 has 8 MA's), (37, 113104), (Start: 68 @113170 has 162 MA's), (84, 113245), (103, 113359), (109, 113383), (127, 113443), (151, 113554), (157, 113593), (164, 113617), (173, 113659), (203, 113758), (214, 113800), (216, 113806), (219, 113818), (229, 113881), (242, 113941), (243, 113944), (250, 113971), (261, 114013), (279, 114076), (321, 114196), (330, 114232), (335, 114250), (338, 114265), (351, 114382), (357, 114421), (372, 114541), (380, 114583), (389, 114628), (391, 114637), (402, 114688), (414, 114730), (432, 114796), (434, 114805), (435, 114808), (436, 114814), (437, 114817), (438, 114826), (439, 114832), (440, 114847), (462, 114934), (483, 115039), (495, 115093), (510, 115180), (516, 115210), (526, 115240), (533, 115273), (535, 115282), (546, 115354), (552, 115384), (577, 115501), (589, 115546), (601, 115588), (660, 115732), (675, 115792), (715, 115894), (750, 115981), (751, 115984), (761, 116002), (771, 116038), (772, 116041), (793, 116101), (798, 116119), (827, 116215), (836, 116245), (839, 116263), (846, 116293), (879, 116386), (883, 116401), (900, 116482), (902, 116488), (905, 116500),

Gene: Sujidade_55 Start: 42046, Stop: 38570, Start Num: 68

Candidate Starts for Sujidade_55:

(Start: 36 @42115 has 1 MA's), (Start: 68 @42046 has 162 MA's), (Start: 82 @41986 has 1 MA's), (84, 41977), (91, 41935), (107, 41842), (123, 41773), (135, 41704), (144, 41650), (161, 41578), (168, 41542), (188, 41482), (218, 41404), (247, 41257), (257, 41218), (266, 41191), (269, 41173), (276, 41152), (283, 41137), (325, 41017), (329, 41005), (358, 40819), (359, 40813), (366, 40768), (381, 40684), (383, 40666), (398, 40609), (399, 40606), (401, 40594), (438, 40456), (439, 40450), (440, 40435), (442, 40429), (449, 40396), (468, 40318), (474, 40285), (512, 40144), (534, 40063), (535, 40057), (546, 39988), (558, 39925), (564, 39904), (574, 39859), (583, 39820), (601, 39763), (602, 39754), (655, 39646), (661, 39625), (663, 39604), (673, 39574), (678, 39547), (709, 39481), (711, 39472), (714, 39460), (747, 39373), (756, 39349), (812, 39157), (835, 39073), (840, 39046), (880, 38908), (883, 38899), (887, 38872), (899, 38824), (900, 38818), (906, 38797), (908, 38791), (931, 38686), (934, 38647), (936, 38641), (943, 38584),

Gene: Sukkupi_60 Start: 47229, Stop: 43978, Start Num: 73

Candidate Starts for Sukkupi_60:

(16, 47361), (23, 47331), (27, 47319), (Start: 73 @47229 has 88 MA's), (86, 47148), (Start: 89 @47133 has 6 MA's), (93, 47088), (128, 46980), (130, 46971), (165, 46806), (197, 46683), (210, 46632), (218, 46605), (225, 46551), (232, 46521), (292, 46314), (320, 46206), (338, 46128), (343, 46101), (354, 46023), (356, 46008), (376, 45870), (431, 45672), (433, 45666), (438, 45639), (466, 45504), (472, 45471), (481, 45435), (494, 45390), (502, 45378), (515, 45315), (549, 45150), (550, 45147), (558, 45108), (559, 45105), (561, 45099), (563, 45090), (565, 45081), (590, 44985), (596, 44967), (603, 44931), (668, 44781), (682, 44727), (735, 44631), (769, 44547), (772, 44538), (790, 44487), (814, 44397), (841, 44301), (842, 44298), (859, 44247), (892, 44115), (925, 43992),

Gene: SunsetPointe_52 Start: 40347, Stop: 36868, Start Num: 68

Candidate Starts for SunsetPointe_52:

(Start: 68 @40347 has 162 MA's), (84, 40275), (Start: 89 @40248 has 6 MA's), (91, 40233), (123, 40071), (126, 40044), (128, 40038), (144, 39948), (150, 39933), (160, 39879), (161, 39876), (188, 39780), (218, 39702), (247, 39555), (257, 39516), (269, 39471), (276, 39450), (283, 39435), (304, 39393), (308, 39381), (325, 39315), (329, 39303), (343, 39240), (359, 39111), (360, 39102), (366, 39066), (381, 38982), (383, 38964), (398, 38907), (399, 38904), (401, 38892), (438, 38754), (439, 38748), (440, 38733), (442, 38727), (449, 38694), (468, 38616), (474, 38583), (512, 38442), (530, 38385), (534, 38361), (535, 38355), (546, 38286), (558, 38223), (574, 38157), (578, 38136), (583, 38118), (601, 38061), (602, 38052), (655, 37944), (657, 37935), (661, 37923), (663, 37902), (673, 37872), (678, 37845), (709, 37779), (711, 37770), (714, 37758), (747, 37671), (756, 37647), (772, 37599), (812, 37455), (832, 37380), (880, 37206), (887, 37170), (899, 37122), (908, 37089),

Gene: SuperSulley_61 Start: 49019, Stop: 45717, Start Num: 73

Candidate Starts for SuperSulley_61:

(33, 49094), (Start: 73 @49019 has 88 MA's), (Start: 89 @48923 has 6 MA's), (128, 48770), (130, 48761), (155, 48638), (194, 48479), (197, 48473), (204, 48449), (225, 48341), (252, 48230), (292, 48104), (335, 47933), (343, 47891), (354, 47813), (356, 47798), (376, 47660), (402, 47528), (431, 47462), (441, 47405), (454, 47345), (466, 47294), (473, 47255), (481, 47225), (494, 47180), (549, 46937), (558, 46895), (559, 46892), (561, 46886), (565, 46868), (590, 46772), (603, 46718), (669, 46565), (686, 46505), (695, 46490), (735, 46361), (769, 46283), (790, 46223), (794, 46202), (795, 46199), (801, 46181), (824, 46097), (841, 46037), (849, 46010), (916, 45758), (925, 45728),

Gene: Sushi23_79 Start: 59255, Stop: 62539, Start Num: 70

Candidate Starts for Sushi23_79:

(Start: 70 @59255 has 57 MA's), (79, 59300), (85, 59330), (88, 59348), (Start: 89 @59354 has 6 MA's), (146, 59633), (168, 59735), (189, 59813), (213, 59918), (225, 59981), (227, 59987), (236, 60026), (262, 60143), (304, 60227), (337, 60353), (345, 60383), (349, 60422), (350, 60431), (380, 60629), (439, 60809), (460, 60914), (461, 60920), (462, 60926), (478, 61010), (486, 61040), (502, 61082), (508, 61109), (514, 61142), (517, 61154), (534, 61217), (546, 61289), (559, 61343), (562, 61352), (564, 61361), (566, 61370), (568, 61376), (622, 61619), (638, 61688), (641, 61700), (664, 61805), (725, 62000), (736, 62033), (759, 62084), (773, 62129), (791, 62195), (806, 62243), (818, 62279), (830, 62324), (832, 62333), (842, 62375), (857, 62420), (858, 62423), (864, 62438),

Gene: TagePighter_56 Start: 42468, Stop: 38983, Start Num: 68

Candidate Starts for TagePighter_56:

(Start: 36 @42537 has 1 MA's), (Start: 68 @42468 has 162 MA's), (Start: 82 @42405 has 1 MA's), (84, 42396), (91, 42354), (107, 42261), (123, 42192), (135, 42123), (144, 42069), (161, 41997), (168, 41961), (188, 41901), (247, 41676), (257, 41637), (266, 41610), (269, 41592), (276, 41571), (283, 41556), (304, 41514), (325, 41436), (329, 41424), (358, 41238), (359, 41232), (366, 41187), (381, 41103), (383, 41085), (398, 41028), (399, 41025), (401, 41013), (438, 40875), (439, 40869), (440, 40854), (442, 40848), (449, 40815), (468, 40737), (474, 40704), (512, 40563), (534, 40482), (535, 40476), (546, 40407), (558, 40344), (564, 40323), (574, 40278), (601, 40182), (602, 40173), (604, 40167), (655, 40065), (657, 40056), (661, 40044), (663, 40023), (673, 39993), (678, 39966), (709, 39900), (711, 39891), (714, 39879), (747, 39792), (796, 39624), (812, 39576), (840, 39465), (842, 39459), (880, 39327), (883, 39318), (887, 39291), (908, 39210), (933, 39078), (934, 39066),

Gene: Targaryen_80 Start: 59965, Stop: 63249, Start Num: 70

Candidate Starts for Targaryen_80:

(Start: 70 @59965 has 57 MA's), (79, 60010), (85, 60040), (88, 60058), (Start: 89 @60064 has 6 MA's), (99, 60130), (146, 60343), (189, 60523), (213, 60628), (225, 60691), (227, 60697), (236, 60736), (254, 60826), (262, 60853), (310, 60952), (337, 61063), (345, 61093), (346, 61096), (349, 61132), (387, 61375), (394, 61405), (439, 61519), (440, 61534), (460, 61624), (461, 61630), (462, 61636), (478, 61720), (499, 61783), (502, 61792), (517, 61864), (534, 61927), (546, 61999), (559, 62053), (562, 62062), (564, 62071), (566, 62080), (568, 62086), (622, 62329), (638, 62398), (664, 62515), (689, 62596), (694, 62605), (708, 62647), (725, 62710), (736, 62743), (759, 62794), (773, 62839), (791, 62905), (806, 62953), (830, 63034), (832, 63043), (842, 63085), (858, 63133), (864, 63148),

Gene: Teardrop_206 Start: 111683, Stop: 115078, Start Num: 68

Candidate Starts for Teardrop_206:

(Start: 26 @111590 has 44 MA's), (Start: 28 @111596 has 6 MA's), (Start: 32 @111608 has 8 MA's), (37, 111617), (Start: 68 @111683 has 162 MA's), (84, 111758), (103, 111872), (109, 111896), (127, 111956), (151, 112067), (157, 112106), (164, 112130), (173, 112172), (203, 112271), (214, 112313), (216, 112319), (219, 112331), (229, 112394), (242, 112454), (243, 112457), (250, 112484), (261, 112526), (279, 112589), (330, 112745), (335, 112763), (338, 112778), (351, 112895), (357, 112934), (372, 113054), (380, 113096), (389, 113141), (391, 113150), (402, 113201), (414, 113243), (432,

113309), (434, 113318), (435, 113321), (436, 113327), (437, 113330), (438, 113339), (439, 113345), (440, 113360), (462, 113447), (483, 113552), (495, 113606), (510, 113693), (516, 113723), (526, 113753), (533, 113786), (535, 113795), (546, 113867), (552, 113897), (577, 114014), (589, 114059), (601, 114101), (660, 114245), (675, 114305), (715, 114407), (750, 114494), (751, 114497), (761, 114515), (771, 114551), (772, 114554), (793, 114614), (798, 114632), (827, 114728), (836, 114758), (839, 114776), (846, 114806), (879, 114899), (883, 114914), (900, 114995), (902, 115001), (905, 115013),

Gene: Teutsch_80 Start: 59518, Stop: 62802, Start Num: 70

Candidate Starts for Teutsch_80:

(Start: 70 @59518 has 57 MA's), (79, 59563), (85, 59593), (88, 59611), (Start: 89 @59617 has 6 MA's), (146, 59896), (168, 59998), (189, 60076), (213, 60181), (225, 60244), (227, 60250), (236, 60289), (262, 60406), (304, 60490), (337, 60616), (345, 60646), (349, 60685), (380, 60892), (439, 61072), (460, 61177), (461, 61183), (462, 61189), (466, 61213), (478, 61273), (486, 61303), (487, 61306), (502, 61345), (508, 61372), (517, 61417), (534, 61480), (546, 61552), (559, 61606), (562, 61615), (564, 61624), (566, 61633), (568, 61639), (622, 61882), (638, 61951), (641, 61963), (664, 62068), (725, 62263), (736, 62296), (759, 62347), (773, 62392), (791, 62458), (806, 62506), (830, 62587), (832, 62596), (842, 62638), (857, 62683), (858, 62686), (864, 62701),

Gene: Thoth_67 Start: 49791, Stop: 53093, Start Num: 29

Candidate Starts for Thoth_67:

(Start: 29 @49791 has 19 MA's), (Start: 64 @49878 has 1 MA's), (Start: 67 @49884 has 1 MA's), (Start: 73 @49893 has 88 MA's), (Start: 89 @49989 has 6 MA's), (130, 50145), (148, 50232), (149, 50235), (159, 50286), (224, 50550), (232, 50589), (249, 50661), (252, 50670), (270, 50745), (292, 50811), (294, 50817), (309, 50871), (316, 50889), (325, 50940), (326, 50943), (334, 50973), (349, 51057), (350, 51066), (354, 51093), (356, 51108), (382, 51285), (383, 51294), (412, 51399), (438, 51480), (448, 51540), (466, 51615), (472, 51648), (473, 51654), (478, 51675), (481, 51684), (494, 51729), (514, 51798), (520, 51813), (536, 51882), (547, 51945), (556, 51978), (557, 51981), (568, 52032), (584, 52107), (643, 52230), (651, 52248), (668, 52326), (669, 52329), (671, 52341), (685, 52386), (695, 52407), (699, 52419), (711, 52449), (717, 52470), (777, 52542), (798, 52599), (826, 52698), (844, 52764), (875, 52854), (881, 52884), (882, 52887), (887, 52917), (896, 52962), (907, 53004), (914, 53034), (918, 53046), (922, 53061), (925, 53070),

Gene: Thumb_78 Start: 55518, Stop: 58814, Start Num: 73

Candidate Starts for Thumb_78:

(Start: 53 @55491 has 1 MA's), (Start: 73 @55518 has 88 MA's), (85, 55590), (Start: 89 @55614 has 6 MA's), (92, 55647), (130, 55782), (150, 55875), (153, 55893), (165, 55941), (179, 56001), (224, 56193), (284, 56427), (299, 56484), (316, 56538), (323, 56583), (331, 56610), (338, 56640), (356, 56763), (359, 56802), (365, 56844), (378, 56922), (382, 56940), (386, 56958), (388, 56970), (408, 57045), (441, 57201), (459, 57285), (473, 57363), (478, 57384), (481, 57393), (482, 57399), (485, 57408), (504, 57480), (507, 57495), (514, 57534), (519, 57546), (539, 57639), (540, 57645), (550, 57693), (559, 57735), (599, 57885), (601, 57897), (651, 57981), (677, 58122), (720, 58227), (795, 58326), (797, 58335), (820, 58413), (830, 58452), (834, 58467), (846, 58515), (877, 58611), (882, 58629), (886, 58656), (898, 58704), (905, 58734), (906, 58737), (910, 58752), (918, 58782), (920, 58791), (922, 58797), (923, 58800),

Gene: Tillicus_73 Start: 51219, Stop: 54485, Start Num: 85

Candidate Starts for Tillicus_73:

(Start: 73 @51147 has 88 MA's), (Start: 82 @51207 has 1 MA's), (85, 51219), (Start: 89 @51243 has 6 MA's), (93, 51288), (103, 51330), (189, 51666), (218, 51777), (224, 51822), (250, 51945), (288, 52092), (289, 52101), (295, 52134), (303, 52170), (316, 52212), (324, 52257), (335, 52299), (356, 52431), (357, 52434), (358, 52464), (366, 52515), (370, 52536), (372, 52554), (383, 52617), (404, 52707), (412, 52722), (417, 52743), (460, 52902), (466, 52938), (472, 52971), (476, 52989), (494,

53052), (495, 53055), (513, 53118), (524, 53151), (534, 53193), (536, 53205), (541, 53241), (582, 53421), (591, 53448), (596, 53463), (603, 53499), (643, 53553), (651, 53571), (669, 53667), (671, 53679), (674, 53691), (802, 53967), (831, 54078), (840, 54114), (844, 54126), (845, 54132), (846, 54135), (855, 54162), (873, 54207), (893, 54315), (904, 54354), (906, 54360), (912, 54384), (922, 54420),

Gene: TinyTim_207 Start: 112464, Stop: 115859, Start Num: 68

Candidate Starts for TinyTim_207:

(Start: 26 @112371 has 44 MA's), (Start: 28 @112377 has 6 MA's), (Start: 32 @112389 has 8 MA's), (37, 112398), (Start: 68 @112464 has 162 MA's), (84, 112539), (103, 112653), (109, 112677), (127, 112737), (151, 112848), (157, 112887), (164, 112911), (173, 112953), (203, 113052), (214, 113094), (216, 113100), (219, 113112), (229, 113175), (242, 113235), (243, 113238), (250, 113265), (261, 113307), (279, 113370), (330, 113526), (335, 113544), (338, 113559), (351, 113676), (357, 113715), (372, 113835), (380, 113877), (389, 113922), (391, 113931), (402, 113982), (414, 114024), (432, 114090), (434, 114099), (435, 114102), (436, 114108), (437, 114111), (438, 114120), (439, 114126), (440, 114141), (462, 114228), (483, 114333), (495, 114387), (510, 114474), (516, 114504), (526, 114534), (533, 114567), (535, 114576), (546, 114648), (552, 114678), (577, 114795), (589, 114840), (601, 114882), (660, 115026), (675, 115086), (715, 115188), (750, 115275), (751, 115278), (761, 115296), (771, 115332), (772, 115335), (793, 115395), (798, 115413), (827, 115509), (836, 115539), (839, 115557), (846, 115587), (879, 115680), (883, 115695), (900, 115776), (902, 115782), (905, 115794),

Gene: TomSawyer_80 Start: 58037, Stop: 61357, Start Num: 69

Candidate Starts for TomSawyer_80:

(Start: 69 @58037 has 26 MA's), (80, 58088), (85, 58109), (Start: 89 @58133 has 6 MA's), (102, 58214), (146, 58412), (184, 58568), (189, 58592), (200, 58640), (202, 58643), (213, 58697), (223, 58748), (225, 58766), (228, 58775), (236, 58811), (262, 58928), (302, 59000), (337, 59138), (349, 59207), (372, 59372), (387, 59450), (438, 59612), (462, 59735), (478, 59819), (490, 59867), (502, 59891), (546, 60095), (559, 60149), (562, 60158), (566, 60176), (568, 60182), (608, 60374), (619, 60398), (622, 60425), (648, 60533), (696, 60722), (722, 60800), (732, 60842), (740, 60860), (759, 60902), (771, 60941), (773, 60947), (783, 60974), (791, 61013), (806, 61061), (809, 61070), (830, 61142), (836, 61163), (841, 61190), (842, 61193), (847, 61208), (858, 61241), (882, 61310),

Gene: Toma_55 Start: 41781, Stop: 38299, Start Num: 68

Candidate Starts for Toma_55:

(Start: 68 @41781 has 162 MA's), (74, 41766), (75, 41760), (Start: 82 @41715 has 1 MA's), (84, 41706), (91, 41664), (107, 41571), (123, 41502), (135, 41433), (144, 41379), (161, 41307), (168, 41271), (188, 41211), (218, 41133), (247, 40986), (257, 40947), (266, 40920), (269, 40902), (276, 40881), (283, 40866), (325, 40746), (329, 40734), (358, 40548), (359, 40542), (366, 40497), (381, 40413), (383, 40395), (398, 40338), (399, 40335), (401, 40323), (438, 40185), (439, 40179), (440, 40164), (442, 40158), (449, 40125), (468, 40047), (474, 40014), (512, 39873), (534, 39792), (535, 39786), (546, 39717), (558, 39654), (564, 39633), (574, 39588), (583, 39549), (601, 39492), (602, 39483), (655, 39375), (661, 39354), (663, 39333), (673, 39303), (678, 39276), (709, 39210), (711, 39201), (714, 39189), (747, 39102), (756, 39078), (796, 38934), (812, 38886), (835, 38802), (840, 38775), (880, 38637), (883, 38628), (887, 38601), (899, 38553), (900, 38547), (906, 38526), (908, 38520), (931, 38415), (933, 38388), (934, 38376), (943, 38313),

Gene: Tomas_84 Start: 60777, Stop: 64097, Start Num: 69

Candidate Starts for Tomas_84:

(Start: 69 @60777 has 26 MA's), (80, 60828), (85, 60849), (Start: 89 @60873 has 6 MA's), (146, 61152), (168, 61254), (184, 61308), (188, 61326), (189, 61332), (200, 61380), (213, 61437), (223, 61488), (225, 61506), (236, 61551), (259, 61659), (262, 61668), (337, 61878), (438, 62352), (462, 62475), (478, 62559), (499, 62622), (502, 62631), (546, 62835), (557, 62871), (559, 62889), (562,

62898), (566, 62916), (568, 62922), (587, 63003), (598, 63036), (608, 63114), (622, 63165), (648, 63273), (678, 63417), (679, 63420), (686, 63438), (693, 63450), (696, 63462), (722, 63540), (731, 63579), (732, 63582), (740, 63600), (759, 63642), (771, 63681), (773, 63687), (791, 63753), (806, 63801), (809, 63810), (830, 63882), (841, 63930), (842, 63933), (854, 63972), (882, 64050),

Gene: Tonenili_231 Start: 119300, Stop: 122701, Start Num: 70

Candidate Starts for Tonenili_231:

(41, 119243), (Start: 70 @119300 has 57 MA's), (84, 119375), (109, 119513), (127, 119573), (157, 119723), (164, 119747), (184, 119828), (203, 119888), (214, 119930), (216, 119936), (218, 119945), (219, 119948), (229, 120011), (242, 120071), (243, 120074), (250, 120101), (253, 120116), (256, 120128), (261, 120143), (279, 120206), (330, 120362), (335, 120380), (336, 120383), (338, 120395), (351, 120512), (357, 120551), (372, 120671), (380, 120713), (389, 120758), (391, 120767), (402, 120818), (414, 120860), (432, 120926), (434, 120935), (435, 120938), (436, 120944), (437, 120947), (439, 120962), (462, 121064), (510, 121316), (516, 121346), (526, 121376), (535, 121418), (546, 121490), (552, 121520), (556, 121538), (577, 121637), (589, 121682), (601, 121724), (660, 121868), (661, 121871), (669, 121898), (675, 121928), (715, 122030), (750, 122117), (761, 122138), (771, 122174), (772, 122177), (789, 122222), (793, 122237), (798, 122255), (827, 122351), (836, 122381), (839, 122399), (842, 122411), (846, 122429), (879, 122522), (883, 122537), (902, 122624), (905, 122636), (916, 122675),

Gene: Tortoise16_207 Start: 112926, Stop: 116321, Start Num: 68

Candidate Starts for Tortoise16_207:

(Start: 26 @112833 has 44 MA's), (Start: 28 @112839 has 6 MA's), (Start: 32 @112851 has 8 MA's), (37, 112860), (Start: 68 @112926 has 162 MA's), (84, 113001), (103, 113115), (109, 113139), (127, 113199), (151, 113310), (157, 113349), (164, 113373), (173, 113415), (203, 113514), (214, 113556), (216, 113562), (219, 113574), (229, 113637), (242, 113697), (243, 113700), (250, 113727), (261, 113769), (279, 113832), (330, 113988), (335, 114006), (338, 114021), (351, 114138), (357, 114177), (372, 114297), (380, 114339), (389, 114384), (391, 114393), (402, 114444), (414, 114486), (432, 114552), (434, 114561), (435, 114564), (436, 114570), (437, 114573), (438, 114582), (439, 114588), (440, 114603), (462, 114690), (483, 114795), (495, 114849), (510, 114936), (516, 114966), (526, 114996), (533, 115029), (535, 115038), (546, 115110), (552, 115140), (577, 115257), (589, 115302), (601, 115344), (660, 115488), (675, 115548), (715, 115650), (750, 115737), (751, 115740), (761, 115758), (771, 115794), (772, 115797), (793, 115857), (798, 115875), (827, 115971), (836, 116001), (839, 116019), (846, 116049), (879, 116142), (883, 116157), (900, 116238), (902, 116244), (905, 116256),

Gene: Tracker_60 Start: 47900, Stop: 44589, Start Num: 73

Candidate Starts for Tracker_60:

(Start: 73 @47900 has 88 MA's), (85, 47828), (Start: 89 @47804 has 6 MA's), (128, 47651), (130, 47642), (194, 47360), (197, 47354), (204, 47330), (225, 47222), (232, 47192), (292, 46985), (335, 46814), (343, 46772), (346, 46766), (354, 46694), (356, 46679), (376, 46541), (431, 46343), (441, 46286), (454, 46226), (466, 46175), (481, 46106), (494, 46061), (549, 45821), (559, 45776), (561, 45770), (565, 45752), (590, 45656), (603, 45602), (665, 45458), (669, 45449), (695, 45374), (718, 45299), (735, 45245), (769, 45155), (794, 45074), (801, 45053), (841, 44909), (842, 44906), (872, 44822), (892, 44723), (907, 44666), (925, 44600),

Gene: Tribute_78 Start: 58724, Stop: 62008, Start Num: 70

Candidate Starts for Tribute_78:

(Start: 70 @58724 has 57 MA's), (79, 58769), (85, 58799), (88, 58817), (Start: 89 @58823 has 6 MA's), (146, 59102), (168, 59204), (189, 59282), (213, 59387), (225, 59450), (227, 59456), (236, 59495), (262, 59612), (304, 59696), (337, 59822), (345, 59852), (349, 59891), (380, 60098), (439, 60278), (460, 60383), (461, 60389), (462, 60395), (478, 60479), (486, 60509), (502, 60551), (508, 60578), (514, 60611), (517, 60623), (534, 60686), (546, 60758), (559, 60812), (562, 60821), (564,

60830), (566, 60839), (568, 60845), (622, 61088), (638, 61157), (641, 61169), (664, 61274), (725, 61469), (736, 61502), (759, 61553), (773, 61598), (791, 61664), (806, 61712), (830, 61793), (832, 61802), (842, 61844), (857, 61889), (858, 61892), (864, 61907),

Gene: Trina_102 Start: 68795, Stop: 71665, Start Num: 265

Candidate Starts for Trina_102:

(Start: 265 @68795 has 1 MA's), (275, 68840), (311, 68930), (332, 69017), (337, 69041), (338, 69044), (350, 69119), (356, 69158), (368, 69254), (439, 69503), (440, 69518), (441, 69521), (463, 69620), (469, 69653), (499, 69761), (502, 69770), (517, 69842), (527, 69869), (548, 69986), (557, 70010), (559, 70028), (561, 70034), (566, 70055), (568, 70061), (572, 70079), (605, 70235), (624, 70301), (628, 70307), (630, 70325), (669, 70508), (700, 70616), (728, 70718), (731, 70727), (740, 70754), (744, 70763), (761, 70805), (769, 70835), (778, 70856), (779, 70865), (790, 70904), (811, 70982), (814, 70994), (815, 70997), (842, 71105), (852, 71144), (861, 71159), (864, 71171), (876, 71210), (901, 71318), (907, 71342), (912, 71363), (928, 71420), (931, 71450), (937, 71501), (940, 71516), (942, 71537), (951, 71612), (953, 71633),

Gene: Trinitium_205 Start: 112211, Stop: 115606, Start Num: 68

Candidate Starts for Trinitium_205:

(Start: 26 @112118 has 44 MA's), (Start: 28 @112124 has 6 MA's), (Start: 32 @112136 has 8 MA's), (37, 112145), (Start: 68 @112211 has 162 MA's), (84, 112286), (103, 112400), (109, 112424), (127, 112484), (151, 112595), (157, 112634), (164, 112658), (173, 112700), (203, 112799), (214, 112841), (216, 112847), (219, 112859), (229, 112922), (242, 112982), (243, 112985), (250, 113012), (261, 113054), (279, 113117), (321, 113237), (330, 113273), (335, 113291), (338, 113306), (351, 113423), (357, 113462), (372, 113582), (380, 113624), (389, 113669), (391, 113678), (402, 113729), (414, 113771), (432, 113837), (434, 113846), (435, 113849), (436, 113855), (437, 113858), (438, 113867), (439, 113873), (440, 113888), (462, 113975), (483, 114080), (495, 114134), (510, 114221), (516, 114251), (526, 114281), (533, 114314), (535, 114323), (546, 114395), (552, 114425), (577, 114542), (589, 114587), (601, 114629), (660, 114773), (675, 114833), (715, 114935), (750, 115022), (751, 115025), (761, 115043), (771, 115079), (772, 115082), (793, 115142), (798, 115160), (827, 115256), (836, 115286), (839, 115304), (846, 115334), (879, 115427), (883, 115442), (900, 115523), (902, 115529), (905, 115541),

Gene: Triste_55 Start: 42467, Stop: 38982, Start Num: 68

Candidate Starts for Triste_55:

(Start: 36 @42536 has 1 MA's), (Start: 68 @42467 has 162 MA's), (Start: 82 @42404 has 1 MA's), (84, 42395), (91, 42353), (107, 42260), (123, 42191), (135, 42122), (144, 42068), (161, 41996), (168, 41960), (188, 41900), (247, 41675), (257, 41636), (266, 41609), (269, 41591), (276, 41570), (283, 41555), (304, 41513), (325, 41435), (329, 41423), (358, 41237), (359, 41231), (366, 41186), (381, 41102), (383, 41084), (398, 41027), (399, 41024), (401, 41012), (438, 40874), (439, 40868), (440, 40853), (442, 40847), (449, 40814), (468, 40736), (474, 40703), (512, 40562), (534, 40481), (535, 40475), (546, 40406), (558, 40343), (564, 40322), (574, 40277), (601, 40181), (602, 40172), (604, 40166), (655, 40064), (657, 40055), (661, 40043), (663, 40022), (673, 39992), (678, 39965), (709, 39899), (711, 39890), (714, 39878), (747, 39791), (796, 39623), (812, 39575), (840, 39464), (842, 39458), (880, 39326), (883, 39317), (887, 39290), (908, 39209), (933, 39077), (934, 39065),

Gene: Troll4_66 Start: 49859, Stop: 53161, Start Num: 29

Candidate Starts for Troll4_66:

(Start: 29 @49859 has 19 MA's), (Start: 64 @49946 has 1 MA's), (Start: 67 @49952 has 1 MA's), (Start: 73 @49961 has 88 MA's), (Start: 89 @50057 has 6 MA's), (130, 50213), (148, 50300), (149, 50303), (159, 50354), (224, 50618), (232, 50657), (249, 50729), (252, 50738), (270, 50813), (292, 50879), (294, 50885), (309, 50939), (316, 50957), (325, 51008), (326, 51011), (334, 51041), (349, 51125), (350, 51134), (354, 51161), (356, 51176), (382, 51353), (383, 51362), (412, 51467), (438, 51548), (448, 51608), (466, 51683), (472, 51716), (473, 51722), (478, 51743), (481, 51752), (494,

51797), (514, 51866), (520, 51881), (536, 51950), (547, 52013), (556, 52046), (557, 52049), (568, 52100), (584, 52175), (643, 52298), (651, 52316), (668, 52394), (669, 52397), (671, 52409), (685, 52454), (695, 52475), (699, 52487), (711, 52517), (717, 52538), (777, 52610), (798, 52667), (826, 52766), (844, 52832), (875, 52922), (881, 52952), (882, 52955), (887, 52985), (896, 53030), (907, 53072), (914, 53102), (918, 53114), (922, 53129), (925, 53138),

Gene: TuanPN_52 Start: 42420, Stop: 38935, Start Num: 68

Candidate Starts for TuanPN_52:

(Start: 36 @42489 has 1 MA's), (Start: 68 @42420 has 162 MA's), (Start: 82 @42357 has 1 MA's), (84, 42348), (91, 42306), (107, 42213), (123, 42144), (135, 42075), (144, 42021), (161, 41949), (168, 41913), (188, 41853), (247, 41628), (257, 41589), (266, 41562), (269, 41544), (276, 41523), (283, 41508), (304, 41466), (325, 41388), (329, 41376), (358, 41190), (359, 41184), (366, 41139), (381, 41055), (383, 41037), (398, 40980), (399, 40977), (401, 40965), (438, 40827), (439, 40821), (440, 40806), (442, 40800), (449, 40767), (468, 40689), (474, 40656), (512, 40515), (534, 40434), (535, 40428), (546, 40359), (558, 40296), (564, 40275), (574, 40230), (601, 40134), (602, 40125), (604, 40119), (655, 40017), (657, 40008), (661, 39996), (663, 39975), (673, 39945), (678, 39918), (709, 39852), (711, 39843), (714, 39831), (747, 39744), (796, 39576), (812, 39528), (840, 39417), (880, 39279), (883, 39270), (887, 39243), (899, 39195), (908, 39162), (914, 39135), (933, 39030), (934, 39018),

Gene: TunaTartare_59 Start: 50008, Stop: 53298, Start Num: 70

Candidate Starts for TunaTartare_59:

(Start: 70 @50008 has 57 MA's), (75, 50023), (76, 50029), (80, 50059), (85, 50080), (88, 50098), (Start: 89 @50104 has 6 MA's), (146, 50383), (159, 50443), (189, 50563), (213, 50668), (225, 50731), (227, 50737), (236, 50776), (315, 51007), (356, 51220), (375, 51355), (431, 51520), (439, 51559), (457, 51658), (460, 51664), (461, 51670), (462, 51676), (466, 51700), (468, 51709), (474, 51742), (490, 51808), (499, 51823), (502, 51832), (516, 51898), (517, 51904), (534, 51967), (542, 52018), (546, 52039), (559, 52093), (562, 52102), (566, 52120), (568, 52126), (601, 52252), (608, 52318), (626, 52378), (627, 52381), (638, 52438), (640, 52444), (644, 52456), (648, 52465), (665, 52561), (678, 52609), (689, 52636), (696, 52654), (727, 52759), (758, 52828), (759, 52834), (791, 52945), (793, 52954), (811, 53005), (818, 53029), (842, 53125), (845, 53134), (861, 53176), (864, 53188),

Gene: Turret_202 Start: 111793, Stop: 115188, Start Num: 68

Candidate Starts for Turret_202:

(Start: 26 @111700 has 44 MA's), (Start: 28 @111706 has 6 MA's), (Start: 32 @111718 has 8 MA's), (37, 111727), (Start: 68 @111793 has 162 MA's), (84, 111868), (103, 111982), (109, 112006), (127, 112066), (151, 112177), (157, 112216), (164, 112240), (173, 112282), (203, 112381), (214, 112423), (216, 112429), (219, 112441), (229, 112504), (242, 112564), (243, 112567), (250, 112594), (261, 112636), (279, 112699), (321, 112819), (330, 112855), (335, 112873), (338, 112888), (351, 113005), (357, 113044), (372, 113164), (380, 113206), (389, 113251), (391, 113260), (402, 113311), (414, 113353), (432, 113419), (434, 113428), (435, 113431), (436, 113437), (437, 113440), (438, 113449), (439, 113455), (440, 113470), (462, 113557), (483, 113662), (495, 113716), (510, 113803), (516, 113833), (526, 113863), (533, 113896), (535, 113905), (546, 113977), (552, 114007), (577, 114124), (589, 114169), (601, 114211), (660, 114355), (675, 114415), (715, 114517), (750, 114604), (751, 114607), (761, 114625), (771, 114661), (772, 114664), (793, 114724), (798, 114742), (827, 114838), (836, 114868), (839, 114886), (846, 114916), (879, 115009), (883, 115024), (900, 115105), (902, 115111), (905, 115123),

Gene: Turuncu_63 Start: 49020, Stop: 45739, Start Num: 73

Candidate Starts for Turuncu_63:

(31, 49104), (Start: 73 @49020 has 88 MA's), (86, 48939), (Start: 89 @48924 has 6 MA's), (93, 48879), (128, 48768), (130, 48759), (142, 48693), (155, 48636), (188, 48510), (197, 48471), (204, 48447), (210, 48420), (218, 48393), (225, 48339), (278, 48126), (292, 48102), (354, 47808), (356,

47793), (419, 47475), (431, 47451), (440, 47397), (441, 47394), (466, 47283), (481, 47214), (485, 47199), (494, 47169), (540, 46980), (549, 46932), (558, 46890), (559, 46887), (561, 46881), (565, 46863), (590, 46767), (596, 46749), (603, 46713), (669, 46548), (675, 46518), (686, 46488), (718, 46449), (735, 46395), (748, 46371), (769, 46308), (790, 46248), (801, 46206), (835, 46089), (841, 46062), (842, 46059), (849, 46035), (907, 45819), (916, 45783), (925, 45753),

Gene: Tyke_207 Start: 114200, Stop: 117688, Start Num: 26

Candidate Starts for Tyke_207:

(Start: 26 @114200 has 44 MA's), (Start: 28 @114206 has 6 MA's), (Start: 32 @114218 has 8 MA's), (37, 114227), (Start: 68 @114293 has 162 MA's), (84, 114368), (103, 114482), (109, 114506), (127, 114566), (151, 114677), (157, 114716), (164, 114740), (173, 114782), (203, 114881), (214, 114923), (216, 114929), (219, 114941), (229, 115004), (242, 115064), (243, 115067), (250, 115094), (261, 115136), (279, 115199), (330, 115355), (335, 115373), (338, 115388), (351, 115505), (357, 115544), (372, 115664), (380, 115706), (389, 115751), (391, 115760), (402, 115811), (414, 115853), (432, 115919), (434, 115928), (435, 115931), (436, 115937), (437, 115940), (438, 115949), (439, 115955), (440, 115970), (462, 116057), (483, 116162), (495, 116216), (510, 116303), (516, 116333), (526, 116363), (533, 116396), (535, 116405), (546, 116477), (552, 116507), (577, 116624), (589, 116669), (601, 116711), (660, 116855), (675, 116915), (715, 117017), (750, 117104), (751, 117107), (761, 117125), (771, 117161), (772, 117164), (793, 117224), (798, 117242), (827, 117338), (836, 117368), (839, 117386), (846, 117416), (879, 117509), (883, 117524), (900, 117605), (902, 117611), (905, 117623),

Gene: UBSmoodge_101 Start: 73949, Stop: 76774, Start Num: 58

Candidate Starts for UBSmoodge_101:

(Start: 58 @73949 has 5 MA's), (84, 74039), (87, 74054), (92, 74099), (108, 74177), (125, 74249), (147, 74357), (153, 74387), (154, 74390), (155, 74393), (167, 74453), (173, 74474), (183, 74504), (216, 74621), (226, 74687), (229, 74696), (230, 74699), (262, 74828), (272, 74873), (276, 74882), (315, 74945), (325, 74993), (330, 75011), (334, 75026), (336, 75032), (338, 75044), (345, 75071), (346, 75074), (353, 75134), (354, 75143), (357, 75158), (364, 75236), (365, 75239), (371, 75272), (413, 75470), (416, 75494), (440, 75602), (441, 75605), (450, 75650), (462, 75692), (464, 75701), (468, 75725), (469, 75731), (473, 75755), (474, 75758), (478, 75776), (519, 75917), (522, 75923), (528, 75947), (529, 75950), (532, 75965), (534, 75977), (537, 75998), (545, 76067), (556, 76112), (558, 76130), (559, 76133), (562, 76142), (588, 76247), (592, 76256), (600, 76283), (655, 76415), (659, 76427), (661, 76433), (676, 76499), (680, 76517), (685, 76529), (689, 76538), (702, 76574), (732, 76652), (744, 76679), (763, 76733), (765, 76736), (768, 76754), (771, 76763),

Gene: Unstoppable_53 Start: 40230, Stop: 36751, Start Num: 68

Candidate Starts for Unstoppable_53:

(6, 40440), (Start: 68 @40230 has 162 MA's), (84, 40158), (Start: 89 @40131 has 6 MA's), (91, 40116), (123, 39954), (126, 39927), (128, 39921), (144, 39831), (150, 39816), (160, 39762), (161, 39759), (188, 39663), (218, 39585), (227, 39525), (247, 39438), (257, 39399), (269, 39354), (276, 39333), (283, 39318), (304, 39276), (308, 39264), (325, 39198), (329, 39186), (343, 39123), (359, 38994), (360, 38985), (366, 38949), (381, 38865), (383, 38847), (398, 38790), (399, 38787), (401, 38775), (438, 38637), (439, 38631), (440, 38616), (442, 38610), (449, 38577), (468, 38499), (474, 38466), (512, 38325), (530, 38268), (534, 38244), (535, 38238), (546, 38169), (558, 38106), (574, 38040), (578, 38019), (583, 38001), (601, 37944), (602, 37935), (655, 37827), (657, 37818), (661, 37806), (663, 37785), (673, 37755), (678, 37728), (709, 37662), (711, 37653), (714, 37641), (747, 37554), (756, 37530), (772, 37482), (812, 37338), (832, 37263), (880, 37089), (887, 37053), (899, 37005), (908, 36972),

Gene: Urza_53 Start: 38835, Stop: 35350, Start Num: 68

Candidate Starts for Urza_53:

(35, 38904), (39, 38895), (46, 38868), (Start: 68 @38835 has 162 MA's), (74, 38820), (76, 38808), (84, 38760), (86, 38748), (91, 38718), (99, 38667), (107, 38625), (117, 38592), (126, 38529), (154, 38394), (160, 38364), (161, 38361), (169, 38319), (188, 38265), (229, 38121), (247, 38040), (263, 37983), (266, 37974), (269, 37956), (276, 37935), (279, 37929), (304, 37878), (308, 37866), (325, 37800), (329, 37788), (336, 37761), (348, 37686), (358, 37602), (359, 37596), (383, 37449), (398, 37392), (399, 37389), (421, 37320), (424, 37311), (428, 37281), (429, 37278), (438, 37239), (439, 37233), (442, 37212), (449, 37179), (451, 37173), (468, 37101), (474, 37068), (477, 37056), (503, 36975), (512, 36927), (514, 36918), (529, 36873), (530, 36870), (534, 36846), (553, 36741), (558, 36708), (574, 36642), (601, 36546), (602, 36537), (655, 36429), (663, 36387), (673, 36357), (709, 36264), (711, 36255), (714, 36243), (715, 36240), (735, 36177), (741, 36171), (772, 36084), (780, 36063), (785, 36036), (807, 35958), (812, 35937), (825, 35889), (832, 35862), (875, 35718), (884, 35673), (911, 35556), (912, 35553), (931, 35466), (934, 35427), (936, 35421), (943, 35364), (946, 35355),

Gene: ValleyTerrace_210 Start: 112377, Stop: 115772, Start Num: 68

Candidate Starts for ValleyTerrace_210:

(Start: 26 @112284 has 44 MA's), (Start: 28 @112290 has 6 MA's), (Start: 32 @112302 has 8 MA's), (37, 112311), (Start: 68 @112377 has 162 MA's), (84, 112452), (103, 112566), (109, 112590), (127, 112650), (151, 112761), (157, 112800), (164, 112824), (173, 112866), (203, 112965), (214, 113007), (216, 113013), (219, 113025), (229, 113088), (242, 113148), (243, 113151), (250, 113178), (261, 113220), (279, 113283), (321, 113403), (330, 113439), (335, 113457), (338, 113472), (351, 113589), (357, 113628), (372, 113748), (380, 113790), (389, 113835), (391, 113844), (402, 113895), (414, 113937), (432, 114003), (434, 114012), (435, 114015), (436, 114021), (437, 114024), (438, 114033), (439, 114039), (440, 114054), (462, 114141), (483, 114246), (495, 114300), (510, 114387), (516, 114417), (526, 114447), (533, 114480), (535, 114489), (546, 114561), (552, 114591), (577, 114708), (589, 114753), (601, 114795), (660, 114939), (675, 114999), (715, 115101), (750, 115188), (751, 115191), (761, 115209), (771, 115245), (772, 115248), (793, 115308), (798, 115326), (827, 115422), (836, 115452), (839, 115470), (846, 115500), (879, 115593), (883, 115608), (900, 115689), (902, 115695), (905, 115707),

Gene: VieEnRose_54 Start: 38895, Stop: 35410, Start Num: 68

Candidate Starts for VieEnRose_54:

(35, 38964), (39, 38955), (46, 38928), (Start: 68 @38895 has 162 MA's), (74, 38880), (76, 38868), (84, 38820), (86, 38808), (91, 38778), (99, 38727), (107, 38685), (117, 38652), (126, 38589), (154, 38454), (160, 38424), (161, 38421), (169, 38379), (188, 38325), (229, 38181), (247, 38100), (263, 38043), (266, 38034), (269, 38016), (276, 37995), (304, 37938), (308, 37926), (325, 37860), (329, 37848), (336, 37821), (358, 37662), (359, 37656), (383, 37509), (398, 37452), (399, 37449), (421, 37380), (424, 37371), (428, 37341), (429, 37338), (438, 37299), (439, 37293), (442, 37272), (449, 37239), (451, 37233), (468, 37161), (474, 37128), (477, 37116), (503, 37035), (512, 36987), (514, 36978), (529, 36933), (530, 36930), (534, 36906), (553, 36801), (558, 36768), (574, 36702), (601, 36606), (602, 36597), (655, 36489), (663, 36447), (673, 36417), (709, 36324), (711, 36315), (714, 36303), (715, 36300), (735, 36237), (741, 36231), (772, 36144), (780, 36123), (785, 36096), (807, 36018), (812, 35997), (825, 35949), (832, 35922), (869, 35805), (875, 35778), (884, 35733), (900, 35658), (911, 35616), (912, 35613), (931, 35526), (934, 35487), (936, 35481), (943, 35424), (946, 35415),

Gene: Visconti_68 Start: 49767, Stop: 53069, Start Num: 29

Candidate Starts for Visconti_68:

(Start: 29 @49767 has 19 MA's), (Start: 64 @49854 has 1 MA's), (Start: 67 @49860 has 1 MA's), (Start: 73 @49869 has 88 MA's), (Start: 89 @49965 has 6 MA's), (130, 50121), (148, 50208), (149, 50211), (159, 50262), (224, 50526), (232, 50565), (249, 50637), (252, 50646), (270, 50721), (292, 50787), (294, 50793), (309, 50847), (316, 50865), (325, 50916), (326, 50919), (334, 50949), (349, 51033), (350, 51042), (354, 51069), (356, 51084), (382, 51261), (383, 51270), (412, 51375), (438, 51456), (448, 51516), (466, 51591), (472, 51624), (473, 51630), (478, 51651), (481, 51660), (494, 51705), (514, 51774), (520, 51789), (536, 51858), (547, 51921), (556, 51954), (557, 51957), (568,

52008), (584, 52083), (643, 52206), (651, 52224), (668, 52302), (669, 52305), (671, 52317), (685, 52362), (695, 52383), (699, 52395), (711, 52425), (717, 52446), (777, 52518), (798, 52575), (826, 52674), (844, 52740), (875, 52830), (881, 52860), (882, 52863), (887, 52893), (896, 52938), (907, 52980), (914, 53010), (918, 53022), (922, 53037), (925, 53046),

Gene: Wakanda_57 Start: 50039, Stop: 53326, Start Num: 70

Candidate Starts for Wakanda_57:

(Start: 70 @50039 has 57 MA's), (85, 50111), (Start: 89 @50135 has 6 MA's), (105, 50231), (146, 50414), (159, 50474), (183, 50564), (189, 50594), (191, 50609), (199, 50636), (200, 50642), (213, 50699), (225, 50762), (236, 50807), (244, 50855), (320, 51059), (336, 51125), (337, 51134), (348, 51200), (366, 51335), (372, 51368), (387, 51446), (431, 51551), (439, 51590), (440, 51605), (461, 51701), (462, 51707), (468, 51740), (477, 51785), (478, 51791), (490, 51839), (502, 51863), (508, 51890), (511, 51908), (517, 51935), (534, 51998), (546, 52070), (559, 52124), (562, 52133), (566, 52151), (568, 52157), (601, 52283), (606, 52337), (608, 52349), (622, 52400), (626, 52409), (638, 52469), (679, 52643), (700, 52694), (731, 52802), (758, 52859), (759, 52865), (775, 52913), (791, 52976), (793, 52985), (832, 53114), (842, 53156), (847, 53171), (864, 53219),

Gene: WaldoWhy_69 Start: 49783, Stop: 53085, Start Num: 29

Candidate Starts for WaldoWhy_69:

(Start: 29 @49783 has 19 MA's), (Start: 64 @49870 has 1 MA's), (Start: 67 @49876 has 1 MA's), (Start: 73 @49885 has 88 MA's), (Start: 89 @49981 has 6 MA's), (130, 50137), (148, 50224), (149, 50227), (159, 50278), (224, 50542), (232, 50581), (249, 50653), (252, 50662), (270, 50737), (292, 50803), (294, 50809), (309, 50863), (316, 50881), (325, 50932), (326, 50935), (334, 50965), (349, 51049), (354, 51085), (356, 51100), (382, 51277), (412, 51391), (438, 51472), (466, 51607), (472, 51640), (473, 51646), (478, 51667), (481, 51676), (494, 51721), (514, 51790), (520, 51805), (526, 51826), (536, 51874), (547, 51937), (556, 51970), (557, 51973), (558, 51988), (568, 52024), (584, 52099), (643, 52222), (651, 52240), (668, 52318), (669, 52321), (671, 52333), (695, 52399), (699, 52411), (711, 52441), (717, 52462), (777, 52534), (798, 52591), (826, 52690), (844, 52756), (875, 52846), (881, 52876), (882, 52879), (887, 52909), (896, 52954), (907, 52996), (914, 53026), (918, 53038), (922, 53053), (925, 53062),

Gene: Wally_207 Start: 112268, Stop: 115756, Start Num: 26

Candidate Starts for Wally_207:

(Start: 26 @112268 has 44 MA's), (Start: 28 @112274 has 6 MA's), (Start: 32 @112286 has 8 MA's), (37, 112295), (Start: 68 @112361 has 162 MA's), (84, 112436), (103, 112550), (109, 112574), (127, 112634), (151, 112745), (157, 112784), (164, 112808), (173, 112850), (203, 112949), (214, 112991), (216, 112997), (219, 113009), (229, 113072), (242, 113132), (243, 113135), (250, 113162), (261, 113204), (279, 113267), (321, 113387), (330, 113423), (335, 113441), (338, 113456), (351, 113573), (357, 113612), (372, 113732), (380, 113774), (389, 113819), (391, 113828), (402, 113879), (414, 113921), (432, 113987), (434, 113996), (435, 113999), (436, 114005), (437, 114008), (438, 114017), (439, 114023), (440, 114038), (462, 114125), (483, 114230), (495, 114284), (510, 114371), (516, 114401), (526, 114431), (533, 114464), (535, 114473), (546, 114545), (552, 114575), (577, 114692), (589, 114737), (601, 114779), (660, 114923), (675, 114983), (715, 115085), (750, 115172), (751, 115175), (761, 115193), (771, 115229), (772, 115232), (793, 115292), (798, 115310), (827, 115406), (836, 115436), (839, 115454), (846, 115484), (879, 115577), (883, 115592), (900, 115673), (902, 115679), (905, 115691),

Gene: Warpy_83 Start: 59428, Stop: 62712, Start Num: 70

Candidate Starts for Warpy_83:

(Start: 70 @59428 has 57 MA's), (79, 59473), (85, 59503), (88, 59521), (Start: 89 @59527 has 6 MA's), (99, 59593), (146, 59806), (189, 59986), (213, 60091), (225, 60154), (227, 60160), (236, 60199), (254, 60289), (262, 60316), (310, 60415), (337, 60526), (345, 60556), (346, 60559), (349, 60595), (387, 60838), (394, 60868), (439, 60982), (440, 60997), (461, 61093), (462, 61099), (478,

61183), (499, 61246), (502, 61255), (508, 61282), (517, 61327), (534, 61390), (546, 61462), (559, 61516), (562, 61525), (564, 61534), (566, 61543), (568, 61549), (606, 61729), (622, 61792), (638, 61861), (664, 61978), (694, 62068), (708, 62110), (725, 62173), (736, 62206), (759, 62257), (771, 62296), (773, 62302), (791, 62368), (806, 62416), (818, 62452), (830, 62497), (832, 62506), (842, 62548), (858, 62596), (864, 62611),

Gene: Watermoore_80 Start: 59734, Stop: 63018, Start Num: 70

Candidate Starts for Watermoore_80:

(Start: 70 @59734 has 57 MA's), (79, 59779), (85, 59809), (88, 59827), (Start: 89 @59833 has 6 MA's), (146, 60112), (168, 60214), (189, 60292), (213, 60397), (225, 60460), (227, 60466), (236, 60505), (262, 60622), (304, 60706), (337, 60832), (345, 60862), (349, 60901), (350, 60910), (380, 61108), (439, 61288), (460, 61393), (461, 61399), (462, 61405), (478, 61489), (486, 61519), (502, 61561), (508, 61588), (514, 61621), (517, 61633), (534, 61696), (546, 61768), (559, 61822), (562, 61831), (564, 61840), (566, 61849), (568, 61855), (622, 62098), (638, 62167), (641, 62179), (664, 62284), (725, 62479), (736, 62512), (759, 62563), (771, 62602), (773, 62608), (791, 62674), (806, 62722), (818, 62758), (830, 62803), (832, 62812), (842, 62854), (857, 62899), (858, 62902), (864, 62917),

Gene: Weasels2_102 Start: 62486, Stop: 65329, Start Num: 264

Candidate Starts for Weasels2_102:

(251, 62438), (260, 62474), (Start: 264 @62486 has 3 MA's), (310, 62594), (351, 62786), (384, 63011), (391, 63041), (392, 63044), (402, 63062), (436, 63146), (473, 63338), (478, 63359), (499, 63422), (502, 63431), (517, 63503), (527, 63530), (557, 63671), (559, 63689), (610, 63923), (696, 64277), (723, 64361), (740, 64424), (744, 64433), (745, 64436), (775, 64520), (803, 64625), (811, 64652), (814, 64664), (815, 64667), (823, 64697), (861, 64829), (879, 64883), (912, 65030), (929, 65096), (935, 65156), (937, 65165), (944, 65219), (945, 65222), (946, 65225), (947, 65228), (950, 65270),

Gene: Wentworth_52 Start: 39280, Stop: 36083, Start Num: 73

Candidate Starts for Wentworth_52:

(62, 39301), (Start: 73 @39280 has 88 MA's), (74, 39271), (79, 39238), (Start: 89 @39184 has 6 MA's), (96, 39130), (114, 39061), (116, 39052), (121, 39025), (124, 39013), (130, 38980), (137, 38944), (144, 38902), (148, 38890), (159, 38836), (186, 38770), (187, 38767), (233, 38551), (271, 38389), (273, 38380), (293, 38329), (298, 38314), (303, 38299), (335, 38173), (349, 38092), (354, 38056), (356, 38041), (357, 38038), (368, 37945), (383, 37855), (387, 37840), (440, 37648), (442, 37642), (447, 37615), (457, 37570), (459, 37564), (461, 37555), (472, 37492), (473, 37486), (481, 37456), (489, 37426), (507, 37381), (513, 37345), (542, 37216), (604, 36964), (637, 36937), (639, 36925), (643, 36913), (661, 36841), (667, 36802), (699, 36697), (724, 36622), (795, 36562), (798, 36550), (826, 36451), (844, 36385), (881, 36274), (884, 36262), (887, 36241), (892, 36217), (905, 36163), (907, 36157), (909, 36151), (920, 36106),

Gene: Werner_54 Start: 42465, Stop: 38980, Start Num: 68

Candidate Starts for Werner_54:

(Start: 36 @42534 has 1 MA's), (Start: 68 @42465 has 162 MA's), (Start: 82 @42402 has 1 MA's), (84, 42393), (91, 42351), (107, 42258), (123, 42189), (135, 42120), (144, 42066), (161, 41994), (168, 41958), (188, 41898), (247, 41673), (257, 41634), (266, 41607), (269, 41589), (276, 41568), (283, 41553), (304, 41511), (325, 41433), (329, 41421), (358, 41235), (359, 41229), (366, 41184), (381, 41100), (383, 41082), (398, 41025), (399, 41022), (401, 41010), (438, 40872), (439, 40866), (440, 40851), (442, 40845), (468, 40734), (474, 40701), (512, 40560), (534, 40479), (535, 40473), (546, 40404), (558, 40341), (564, 40320), (574, 40275), (601, 40179), (602, 40170), (604, 40164), (655, 40062), (657, 40053), (661, 40041), (663, 40020), (673, 39990), (678, 39963), (709, 39897), (711, 39888), (714, 39876), (747, 39789), (796, 39621), (812, 39573), (840, 39462), (842, 39456), (880, 39324), (883, 39315), (887, 39288), (908, 39207), (933, 39075), (934, 39063),

Gene: Whatever_54 Start: 42491, Stop: 39006, Start Num: 68

Candidate Starts for Whatever_54:

(Start: 36 @42560 has 1 MA's), (Start: 68 @42491 has 162 MA's), (Start: 82 @42428 has 1 MA's), (84, 42419), (91, 42377), (107, 42284), (123, 42215), (135, 42146), (144, 42092), (161, 42020), (168, 41984), (188, 41924), (247, 41699), (257, 41660), (266, 41633), (269, 41615), (276, 41594), (283, 41579), (304, 41537), (325, 41459), (329, 41447), (358, 41261), (359, 41255), (366, 41210), (381, 41126), (383, 41108), (398, 41051), (399, 41048), (401, 41036), (438, 40898), (439, 40892), (440, 40877), (442, 40871), (449, 40838), (468, 40760), (474, 40727), (512, 40586), (534, 40505), (535, 40499), (546, 40430), (558, 40367), (564, 40346), (574, 40301), (601, 40205), (602, 40196), (604, 40190), (655, 40088), (657, 40079), (661, 40067), (663, 40046), (673, 40016), (678, 39989), (709, 39923), (711, 39914), (714, 39902), (747, 39815), (796, 39647), (812, 39599), (840, 39488), (842, 39482), (880, 39350), (883, 39341), (887, 39314), (908, 39233), (933, 39101), (934, 39089),

Gene: Wheezy_60 Start: 48108, Stop: 44797, Start Num: 73

Candidate Starts for Wheezy_60:

(Start: 73 @48108 has 88 MA's), (85, 48036), (Start: 89 @48012 has 6 MA's), (93, 47967), (128, 47859), (130, 47850), (194, 47568), (197, 47562), (204, 47538), (225, 47430), (232, 47400), (292, 47193), (335, 47022), (343, 46980), (346, 46974), (354, 46902), (356, 46887), (376, 46749), (431, 46551), (440, 46497), (441, 46494), (454, 46434), (466, 46383), (481, 46314), (494, 46269), (549, 46029), (558, 45987), (559, 45984), (561, 45978), (565, 45960), (590, 45864), (603, 45810), (665, 45666), (669, 45657), (695, 45582), (718, 45507), (735, 45453), (753, 45411), (769, 45363), (794, 45282), (801, 45261), (827, 45171), (836, 45141), (841, 45117), (842, 45114), (892, 44931), (907, 44874), (925, 44808),

Gene: WhereRU_79 Start: 58001, Stop: 61285, Start Num: 70

Candidate Starts for WhereRU_79:

(Start: 70 @58001 has 57 MA's), (79, 58046), (85, 58076), (88, 58094), (Start: 89 @58100 has 6 MA's), (99, 58166), (146, 58379), (149, 58385), (168, 58481), (189, 58559), (213, 58664), (225, 58727), (227, 58733), (236, 58772), (262, 58889), (310, 58988), (337, 59099), (345, 59129), (349, 59168), (387, 59411), (439, 59555), (440, 59570), (460, 59660), (461, 59666), (462, 59672), (466, 59696), (478, 59756), (490, 59804), (499, 59819), (502, 59828), (517, 59900), (534, 59963), (546, 60035), (559, 60089), (562, 60098), (564, 60107), (566, 60116), (568, 60122), (587, 60203), (606, 60302), (622, 60365), (638, 60434), (641, 60446), (689, 60632), (696, 60650), (725, 60746), (736, 60779), (759, 60830), (773, 60875), (791, 60941), (800, 60971), (806, 60989), (818, 61025), (830, 61070), (832, 61079), (837, 61100), (842, 61121), (858, 61169), (864, 61184),

Gene: WhoseManz_60 Start: 45289, Stop: 42038, Start Num: 73

Candidate Starts for WhoseManz_60:

(5, 45517), (Start: 73 @45289 has 88 MA's), (86, 45208), (Start: 89 @45193 has 6 MA's), (93, 45148), (128, 45040), (130, 45031), (165, 44866), (197, 44743), (210, 44692), (218, 44665), (225, 44611), (232, 44581), (278, 44398), (292, 44374), (320, 44266), (338, 44188), (343, 44161), (354, 44083), (356, 44068), (376, 43930), (431, 43732), (433, 43726), (438, 43699), (448, 43639), (466, 43564), (472, 43531), (481, 43495), (502, 43438), (515, 43375), (549, 43210), (550, 43207), (558, 43168), (559, 43165), (561, 43159), (563, 43150), (565, 43141), (590, 43045), (596, 43027), (603, 42991), (668, 42841), (682, 42787), (735, 42691), (769, 42607), (772, 42598), (790, 42547), (814, 42457), (841, 42361), (842, 42358), (892, 42175), (925, 42052),

Gene: Wilkos_53 Start: 39157, Stop: 35936, Start Num: 62

Candidate Starts for Wilkos_53:

(62, 39157), (Start: 73 @39136 has 88 MA's), (79, 39094), (83, 39073), (Start: 89 @39040 has 6 MA's), (96, 38986), (103, 38953), (114, 38917), (116, 38908), (124, 38869), (130, 38836), (137, 38800), (144, 38758), (148, 38746), (159, 38692), (187, 38623), (210, 38521), (233, 38407), (270,

38251), (271, 38245), (273, 38236), (293, 38185), (298, 38170), (303, 38155), (335, 38029), (346, 37984), (349, 37948), (351, 37936), (354, 37912), (356, 37897), (357, 37894), (360, 37849), (368, 37801), (383, 37711), (387, 37696), (417, 37585), (447, 37471), (453, 37447), (459, 37420), (461, 37411), (472, 37348), (473, 37342), (481, 37312), (489, 37282), (507, 37237), (513, 37201), (542, 37072), (573, 36937), (604, 36820), (637, 36793), (639, 36781), (643, 36769), (645, 36766), (661, 36697), (667, 36658), (699, 36553), (720, 36496), (724, 36478), (790, 36442), (795, 36418), (798, 36406), (816, 36346), (826, 36307), (875, 36157), (881, 36130), (884, 36118), (887, 36097), (892, 36073), (905, 36019), (907, 36013), (909, 36007), (920, 35962),

Gene: Willis_210 Start: 113275, Stop: 116670, Start Num: 68

Candidate Starts for Willis_210:

(Start: 26 @113182 has 44 MA's), (Start: 28 @113188 has 6 MA's), (Start: 32 @113200 has 8 MA's), (37, 113209), (Start: 68 @113275 has 162 MA's), (84, 113350), (103, 113464), (109, 113488), (127, 113548), (151, 113659), (157, 113698), (164, 113722), (173, 113764), (203, 113863), (214, 113905), (216, 113911), (219, 113923), (229, 113986), (242, 114046), (243, 114049), (250, 114076), (261, 114118), (279, 114181), (321, 114301), (330, 114337), (335, 114355), (338, 114370), (351, 114487), (357, 114526), (372, 114646), (380, 114688), (389, 114733), (391, 114742), (402, 114793), (414, 114835), (432, 114901), (434, 114910), (435, 114913), (436, 114919), (437, 114922), (438, 114931), (439, 114937), (440, 114952), (462, 115039), (483, 115144), (495, 115198), (510, 115285), (516, 115315), (526, 115345), (533, 115378), (535, 115387), (546, 115459), (552, 115489), (577, 115606), (589, 115651), (601, 115693), (660, 115837), (675, 115897), (715, 115999), (750, 116086), (751, 116089), (761, 116107), (771, 116143), (772, 116146), (793, 116206), (798, 116224), (827, 116320), (836, 116350), (839, 116368), (846, 116398), (879, 116491), (883, 116506), (900, 116587), (902, 116593), (905, 116605),

Gene: Wipeout_79 Start: 58788, Stop: 62108, Start Num: 69

Candidate Starts for Wipeout_79:

(Start: 69 @58788 has 26 MA's), (80, 58839), (85, 58860), (Start: 89 @58884 has 6 MA's), (102, 58965), (146, 59163), (189, 59343), (200, 59391), (213, 59448), (223, 59499), (225, 59517), (228, 59526), (236, 59562), (259, 59670), (262, 59679), (337, 59889), (349, 59958), (372, 60123), (387, 60201), (438, 60363), (462, 60486), (466, 60510), (478, 60570), (499, 60633), (502, 60642), (546, 60846), (559, 60900), (562, 60909), (566, 60927), (568, 60933), (608, 61125), (619, 61149), (622, 61176), (648, 61284), (696, 61473), (722, 61551), (732, 61593), (740, 61611), (759, 61653), (771, 61692), (773, 61698), (783, 61725), (791, 61764), (806, 61812), (809, 61821), (830, 61893), (836, 61914), (841, 61941), (842, 61944), (847, 61959), (858, 61992), (882, 62061),

Gene: Wofford_81 Start: 59478, Stop: 62798, Start Num: 69

Candidate Starts for Wofford_81:

(51, 59448), (Start: 69 @59478 has 26 MA's), (80, 59529), (85, 59550), (Start: 89 @59574 has 6 MA's), (102, 59655), (146, 59853), (189, 60033), (200, 60081), (213, 60138), (223, 60189), (225, 60207), (228, 60216), (236, 60252), (262, 60369), (302, 60441), (337, 60579), (349, 60648), (372, 60813), (387, 60891), (438, 61053), (442, 61080), (462, 61176), (466, 61200), (478, 61260), (502, 61332), (546, 61536), (559, 61590), (562, 61599), (566, 61617), (568, 61623), (607, 61806), (608, 61815), (619, 61839), (622, 61866), (696, 62163), (719, 62238), (722, 62241), (732, 62283), (759, 62343), (771, 62382), (773, 62388), (783, 62415), (791, 62454), (806, 62502), (809, 62511), (830, 62583), (841, 62631), (842, 62634), (857, 62679), (858, 62682), (876, 62736), (882, 62751),

Gene: Wojtek_72 Start: 51325, Stop: 55365, Start Num: 89

Candidate Starts for Wojtek_72:

(Start: 82 @51289 has 1 MA's), (Start: 89 @51325 has 6 MA's), (93, 51370), (103, 51412), (166, 51673), (189, 51748), (218, 51859), (224, 51904), (250, 52027), (288, 52174), (289, 52183), (295, 52216), (303, 52252), (316, 52294), (324, 52339), (335, 52381), (356, 52513), (357, 52516), (358, 52546), (372, 52636), (383, 52699), (404, 52789), (412, 52804), (417, 52825), (431, 52852), (466,

53020), (472, 53053), (476, 53071), (494, 53134), (495, 53137), (513, 53200), (524, 53233), (536, 53287), (541, 53323), (582, 53503), (591, 53530), (596, 53545), (603, 53581), (611, 53722), (612, 53764), (613, 53890), (614, 53917), (615, 53980), (616, 54151), (617, 54208), (618, 54214), (631, 54355), (643, 54433), (651, 54451), (669, 54547), (671, 54559), (674, 54571), (802, 54847), (831, 54958), (840, 54994), (844, 55006), (845, 55012), (846, 55015), (855, 55042), (873, 55087), (893, 55195), (904, 55234), (906, 55240), (912, 55264), (922, 55300),

Gene: Xenia2_78 Start: 51941, Stop: 55192, Start Num: 89

Candidate Starts for Xenia2_78:

(77, 51878), (86, 51926), (Start: 89 @51941 has 6 MA's), (90, 51950), (91, 51956), (107, 52049), (160, 52259), (166, 52289), (180, 52337), (205, 52424), (224, 52520), (261, 52685), (270, 52721), (288, 52790), (289, 52799), (316, 52910), (324, 52955), (335, 52997), (356, 53129), (357, 53132), (358, 53162), (383, 53315), (404, 53405), (412, 53420), (417, 53441), (466, 53636), (472, 53669), (476, 53687), (494, 53750), (495, 53753), (524, 53849), (536, 53903), (541, 53939), (568, 54053), (582, 54119), (596, 54161), (603, 54197), (643, 54251), (651, 54269), (669, 54365), (671, 54377), (674, 54389), (704, 54473), (802, 54668), (827, 54764), (831, 54779), (844, 54827), (845, 54833), (846, 54836), (855, 54863), (873, 54908), (904, 55055), (906, 55061), (912, 55085), (922, 55121),

Gene: Yaboi_82 Start: 58369, Stop: 61689, Start Num: 69

Candidate Starts for Yaboi_82:

(Start: 69 @58369 has 26 MA's), (85, 58441), (Start: 89 @58465 has 6 MA's), (102, 58546), (146, 58744), (189, 58924), (200, 58972), (213, 59029), (223, 59080), (225, 59098), (228, 59107), (236, 59143), (262, 59260), (302, 59332), (334, 59455), (337, 59470), (349, 59539), (372, 59704), (387, 59782), (438, 59944), (441, 59968), (462, 60067), (478, 60151), (502, 60223), (546, 60427), (559, 60481), (562, 60490), (566, 60508), (568, 60514), (598, 60628), (608, 60706), (619, 60730), (622, 60757), (679, 61012), (686, 61030), (693, 61042), (722, 61132), (740, 61192), (759, 61234), (773, 61279), (783, 61306), (791, 61345), (806, 61393), (809, 61402), (830, 61474), (833, 61486), (836, 61495), (841, 61522), (842, 61525), (847, 61540), (858, 61573), (876, 61627), (882, 61642),

Gene: Yara_46 Start: 37592, Stop: 34395, Start Num: 73

Candidate Starts for Yara_46:

(Start: 73 @37592 has 88 MA's), (79, 37550), (Start: 89 @37496 has 6 MA's), (93, 37451), (96, 37442), (100, 37424), (114, 37373), (116, 37364), (124, 37325), (130, 37292), (137, 37256), (159, 37148), (186, 37082), (187, 37079), (210, 36977), (224, 36905), (233, 36863), (246, 36800), (247, 36797), (273, 36692), (285, 36665), (293, 36641), (298, 36626), (303, 36611), (318, 36557), (328, 36515), (331, 36500), (335, 36485), (338, 36470), (354, 36368), (356, 36353), (357, 36350), (368, 36257), (371, 36239), (383, 36167), (404, 36077), (417, 36041), (440, 35960), (442, 35954), (447, 35927), (459, 35876), (472, 35804), (473, 35798), (478, 35777), (481, 35768), (485, 35753), (489, 35738), (506, 35696), (507, 35693), (513, 35657), (542, 35528), (573, 35393), (637, 35249), (639, 35237), (643, 35225), (667, 35114), (675, 35072), (699, 35009), (724, 34934), (795, 34874), (796, 34868), (798, 34862), (826, 34763), (842, 34703), (844, 34697), (881, 34586), (884, 34574), (887, 34553), (892, 34529), (907, 34469), (916, 34433), (920, 34418), (922, 34412),

Gene: Yasdniil_54 Start: 42454, Stop: 39032, Start Num: 82

Candidate Starts for Yasdniil_54:

(Start: 36 @42586 has 1 MA's), (Start: 68 @42517 has 162 MA's), (Start: 82 @42454 has 1 MA's), (84, 42445), (91, 42403), (107, 42310), (123, 42241), (135, 42172), (144, 42118), (161, 42046), (168, 42010), (188, 41950), (247, 41725), (257, 41686), (266, 41659), (269, 41641), (276, 41620), (283, 41605), (304, 41563), (325, 41485), (329, 41473), (358, 41287), (359, 41281), (366, 41236), (381, 41152), (383, 41134), (398, 41077), (399, 41074), (401, 41062), (425, 40990), (438, 40924), (439, 40918), (440, 40903), (442, 40897), (449, 40864), (468, 40786), (474, 40753), (512, 40612), (534, 40531), (535, 40525), (546, 40456), (558, 40393), (564, 40372), (574, 40327), (601, 40231), (602, 40222), (604, 40216), (655, 40114), (657, 40105), (661, 40093), (663, 40072), (673, 40042), (678,

40015), (709, 39949), (711, 39940), (714, 39928), (747, 39841), (796, 39673), (812, 39625), (840, 39514), (880, 39376), (883, 39367), (887, 39340), (899, 39292), (908, 39259), (914, 39232), (933, 39127), (934, 39115),

Gene: Yassified_206 Start: 112716, Stop: 116111, Start Num: 68

Candidate Starts for Yassified_206:

(Start: 18 @112593 has 4 MA's), (Start: 26 @112623 has 44 MA's), (Start: 28 @112629 has 6 MA's), (Start: 32 @112641 has 8 MA's), (37, 112650), (Start: 68 @112716 has 162 MA's), (84, 112791), (103, 112905), (109, 112929), (127, 112989), (151, 113100), (157, 113139), (164, 113163), (173, 113205), (203, 113304), (214, 113346), (216, 113352), (219, 113364), (229, 113427), (242, 113487), (243, 113490), (250, 113517), (261, 113559), (279, 113622), (321, 113742), (330, 113778), (335, 113796), (338, 113811), (351, 113928), (357, 113967), (372, 114087), (380, 114129), (389, 114174), (391, 114183), (402, 114234), (414, 114276), (432, 114342), (434, 114351), (435, 114354), (436, 114360), (437, 114363), (438, 114372), (439, 114378), (440, 114393), (462, 114480), (483, 114585), (495, 114639), (510, 114726), (516, 114756), (526, 114786), (533, 114819), (535, 114828), (546, 114900), (552, 114930), (577, 115047), (589, 115092), (601, 115134), (660, 115278), (675, 115338), (715, 115440), (750, 115527), (751, 115530), (761, 115548), (771, 115584), (772, 115587), (793, 115647), (798, 115665), (827, 115761), (836, 115791), (839, 115809), (846, 115839), (879, 115932), (883, 115947), (900, 116028), (902, 116034), (905, 116046),

Gene: YemiJoy2021_210 Start: 114031, Stop: 117426, Start Num: 68

Candidate Starts for YemiJoy2021_210:

(Start: 26 @113938 has 44 MA's), (Start: 28 @113944 has 6 MA's), (Start: 32 @113956 has 8 MA's), (37, 113965), (Start: 68 @114031 has 162 MA's), (84, 114106), (103, 114220), (109, 114244), (127, 114304), (151, 114415), (157, 114454), (164, 114478), (173, 114520), (203, 114619), (214, 114661), (216, 114667), (219, 114679), (229, 114742), (242, 114802), (243, 114805), (250, 114832), (261, 114874), (279, 114937), (321, 115057), (330, 115093), (335, 115111), (338, 115126), (351, 115243), (357, 115282), (372, 115402), (380, 115444), (389, 115489), (391, 115498), (402, 115549), (414, 115591), (432, 115657), (434, 115666), (435, 115669), (436, 115675), (437, 115678), (438, 115687), (439, 115693), (440, 115708), (462, 115795), (483, 115900), (495, 115954), (510, 116041), (516, 116071), (526, 116101), (533, 116134), (535, 116143), (546, 116215), (552, 116245), (577, 116362), (589, 116407), (601, 116449), (660, 116593), (675, 116653), (715, 116755), (750, 116842), (751, 116845), (761, 116863), (771, 116899), (772, 116902), (793, 116962), (798, 116980), (827, 117076), (836, 117106), (839, 117124), (846, 117154), (879, 117247), (883, 117262), (900, 117343), (902, 117349), (905, 117361),

Gene: Yikes_80 Start: 52791, Stop: 56132, Start Num: 73

Candidate Starts for Yikes_80:

(47, 52743), (Start: 73 @52791 has 88 MA's), (Start: 82 @52851 has 1 MA's), (Start: 89 @52887 has 6 MA's), (93, 52932), (103, 52974), (166, 53235), (194, 53337), (205, 53370), (224, 53466), (288, 53736), (289, 53745), (316, 53853), (324, 53898), (335, 53940), (356, 54072), (357, 54075), (358, 54105), (361, 54126), (372, 54195), (382, 54249), (404, 54348), (412, 54363), (429, 54405), (466, 54579), (472, 54612), (476, 54630), (481, 54648), (494, 54693), (495, 54696), (524, 54792), (534, 54834), (536, 54846), (541, 54882), (582, 55062), (596, 55104), (603, 55140), (643, 55194), (651, 55212), (669, 55308), (671, 55320), (739, 55515), (798, 55599), (822, 55680), (827, 55704), (831, 55719), (840, 55755), (844, 55767), (845, 55773), (846, 55776), (855, 55803), (873, 55848), (893, 55956), (906, 56001), (912, 56025), (922, 56061),

Gene: Yindexa_60 Start: 47229, Stop: 43978, Start Num: 73

Candidate Starts for Yindexa_60:

(16, 47361), (23, 47331), (27, 47319), (Start: 73 @47229 has 88 MA's), (86, 47148), (Start: 89 @47133 has 6 MA's), (93, 47088), (128, 46980), (130, 46971), (165, 46806), (197, 46683), (210, 46632), (218, 46605), (225, 46551), (232, 46521), (292, 46314), (320, 46206), (338, 46128), (343,

46101), (354, 46023), (356, 46008), (376, 45870), (431, 45672), (433, 45666), (438, 45639), (466, 45504), (472, 45471), (481, 45435), (494, 45390), (502, 45378), (515, 45315), (549, 45150), (550, 45147), (558, 45108), (559, 45105), (561, 45099), (563, 45090), (565, 45081), (590, 44985), (596, 44967), (603, 44931), (668, 44781), (682, 44727), (735, 44631), (769, 44547), (772, 44538), (790, 44487), (814, 44397), (841, 44301), (842, 44298), (859, 44247), (892, 44115), (925, 43992),

Gene: YoungMoneyMata_207 Start: 112573, Stop: 115968, Start Num: 68

Candidate Starts for YoungMoneyMata_207:

(Start: 26 @112480 has 44 MA's), (Start: 28 @112486 has 6 MA's), (Start: 32 @112498 has 8 MA's), (37, 112507), (Start: 68 @112573 has 162 MA's), (84, 112648), (103, 112762), (109, 112786), (127, 112846), (151, 112957), (157, 112996), (164, 113020), (173, 113062), (203, 113161), (214, 113203), (216, 113209), (219, 113221), (229, 113284), (242, 113344), (243, 113347), (250, 113374), (261, 113416), (279, 113479), (321, 113599), (330, 113635), (335, 113653), (338, 113668), (351, 113785), (357, 113824), (372, 113944), (380, 113986), (389, 114031), (391, 114040), (402, 114091), (414, 114133), (432, 114199), (434, 114208), (435, 114211), (436, 114217), (437, 114220), (438, 114229), (439, 114235), (440, 114250), (462, 114337), (483, 114442), (495, 114496), (510, 114583), (516, 114613), (526, 114643), (533, 114676), (535, 114685), (546, 114757), (552, 114787), (577, 114904), (589, 114949), (601, 114991), (660, 115135), (675, 115195), (715, 115297), (750, 115384), (751, 115387), (761, 115405), (771, 115441), (772, 115444), (793, 115504), (798, 115522), (827, 115618), (836, 115648), (839, 115666), (846, 115696), (879, 115789), (883, 115804), (900, 115885), (902, 115891), (905, 115903),

Gene: Yucca_209 Start: 113930, Stop: 117418, Start Num: 26

Candidate Starts for Yucca_209:

(Start: 26 @113930 has 44 MA's), (Start: 28 @113936 has 6 MA's), (Start: 32 @113948 has 8 MA's), (37, 113957), (Start: 68 @114023 has 162 MA's), (84, 114098), (103, 114212), (109, 114236), (127, 114296), (151, 114407), (157, 114446), (164, 114470), (173, 114512), (203, 114611), (214, 114653), (216, 114659), (219, 114671), (229, 114734), (242, 114794), (243, 114797), (250, 114824), (261, 114866), (279, 114929), (321, 115049), (330, 115085), (335, 115103), (338, 115118), (351, 115235), (357, 115274), (372, 115394), (380, 115436), (389, 115481), (391, 115490), (402, 115541), (414, 115583), (432, 115649), (434, 115658), (435, 115661), (436, 115667), (437, 115670), (438, 115679), (439, 115685), (440, 115700), (462, 115787), (483, 115892), (495, 115946), (510, 116033), (516, 116063), (526, 116093), (533, 116126), (535, 116135), (546, 116207), (552, 116237), (577, 116354), (589, 116399), (601, 116441), (660, 116585), (675, 116645), (715, 116747), (750, 116834), (751, 116837), (761, 116855), (771, 116891), (772, 116894), (793, 116954), (798, 116972), (827, 117068), (836, 117098), (839, 117116), (846, 117146), (879, 117239), (883, 117254), (900, 117335), (902, 117341), (905, 117353),

Gene: Zalkecks_208 Start: 113011, Stop: 116499, Start Num: 26

Candidate Starts for Zalkecks_208:

(Start: 26 @113011 has 44 MA's), (Start: 28 @113017 has 6 MA's), (Start: 32 @113029 has 8 MA's), (37, 113038), (Start: 68 @113104 has 162 MA's), (84, 113179), (103, 113293), (109, 113317), (127, 113377), (151, 113488), (157, 113527), (164, 113551), (173, 113593), (203, 113692), (214, 113734), (216, 113740), (219, 113752), (229, 113815), (242, 113875), (243, 113878), (250, 113905), (261, 113947), (279, 114010), (321, 114130), (330, 114166), (335, 114184), (338, 114199), (351, 114316), (357, 114355), (372, 114475), (380, 114517), (389, 114562), (391, 114571), (402, 114622), (414, 114664), (432, 114730), (434, 114739), (435, 114742), (436, 114748), (437, 114751), (438, 114760), (439, 114766), (440, 114781), (462, 114868), (483, 114973), (495, 115027), (510, 115114), (516, 115144), (526, 115174), (533, 115207), (535, 115216), (546, 115288), (552, 115318), (577, 115435), (589, 115480), (601, 115522), (660, 115666), (675, 115726), (715, 115828), (750, 115915), (751, 115918), (761, 115936), (771, 115972), (772, 115975), (793, 116035), (798, 116053), (827, 116149), (836, 116179), (839, 116197), (846, 116227), (879, 116320), (883, 116335), (900, 116416), (902, 116422), (905, 116434),

Gene: Zany_76 Start: 52244, Stop: 55585, Start Num: 73

Candidate Starts for Zany_76:

(50, 52202), (Start: 73 @52244 has 88 MA's), (Start: 82 @52304 has 1 MA's), (Start: 89 @52340 has 6 MA's), (93, 52385), (103, 52427), (166, 52688), (194, 52790), (205, 52823), (224, 52919), (288, 53189), (289, 53198), (316, 53306), (324, 53351), (335, 53393), (356, 53525), (357, 53528), (358, 53558), (361, 53579), (372, 53648), (382, 53702), (404, 53801), (412, 53816), (429, 53858), (466, 54032), (472, 54065), (476, 54083), (481, 54101), (494, 54146), (495, 54149), (524, 54245), (534, 54287), (536, 54299), (541, 54335), (582, 54515), (596, 54557), (603, 54593), (643, 54647), (651, 54665), (669, 54761), (671, 54773), (738, 54962), (798, 55052), (827, 55157), (831, 55172), (840, 55208), (844, 55220), (845, 55226), (846, 55229), (855, 55256), (873, 55301), (893, 55409), (906, 55454), (912, 55478), (922, 55514),

Gene: Zeenon_211 Start: 113675, Stop: 117070, Start Num: 68

Candidate Starts for Zeenon_211:

(Start: 26 @113582 has 44 MA's), (Start: 28 @113588 has 6 MA's), (Start: 32 @113600 has 8 MA's), (37, 113609), (Start: 68 @113675 has 162 MA's), (84, 113750), (103, 113864), (109, 113888), (127, 113948), (151, 114059), (157, 114098), (164, 114122), (173, 114164), (203, 114263), (214, 114305), (216, 114311), (219, 114323), (229, 114386), (242, 114446), (243, 114449), (250, 114476), (261, 114518), (279, 114581), (321, 114701), (330, 114737), (335, 114755), (338, 114770), (351, 114887), (357, 114926), (372, 115046), (380, 115088), (389, 115133), (391, 115142), (402, 115193), (414, 115235), (432, 115301), (434, 115310), (435, 115313), (436, 115319), (437, 115322), (438, 115331), (439, 115337), (440, 115352), (462, 115439), (483, 115544), (495, 115598), (510, 115685), (516, 115715), (526, 115745), (533, 115778), (535, 115787), (546, 115859), (552, 115889), (577, 116006), (589, 116051), (601, 116093), (660, 116237), (675, 116297), (715, 116399), (750, 116486), (751, 116489), (761, 116507), (771, 116543), (772, 116546), (793, 116606), (798, 116624), (827, 116720), (836, 116750), (839, 116768), (846, 116798), (879, 116891), (883, 116906), (900, 116987), (902, 116993), (905, 117005),

Gene: Zemlya_55 Start: 41509, Stop: 38030, Start Num: 71

Candidate Starts for Zemlya_55:

(Start: 71 @41509 has 4 MA's), (84, 41437), (85, 41434), (Start: 89 @41410 has 6 MA's), (92, 41377), (103, 41323), (107, 41302), (123, 41233), (135, 41164), (144, 41110), (161, 41038), (168, 41002), (188, 40942), (218, 40864), (247, 40717), (257, 40678), (266, 40651), (269, 40633), (276, 40612), (283, 40597), (325, 40477), (329, 40465), (358, 40279), (359, 40273), (381, 40144), (383, 40126), (398, 40069), (399, 40066), (401, 40054), (438, 39916), (439, 39910), (440, 39895), (442, 39889), (449, 39856), (468, 39778), (474, 39745), (512, 39604), (534, 39523), (535, 39517), (546, 39448), (555, 39406), (558, 39385), (564, 39364), (574, 39319), (583, 39280), (601, 39223), (602, 39214), (652, 39133), (655, 39106), (661, 39085), (663, 39064), (673, 39034), (678, 39007), (709, 38941), (711, 38932), (714, 38920), (747, 38833), (796, 38665), (812, 38617), (835, 38533), (840, 38506), (880, 38368), (883, 38359), (887, 38332), (899, 38284), (900, 38278), (906, 38257), (908, 38251), (931, 38146), (934, 38107), (943, 38044),

Gene: Zion_46 Start: 42797, Stop: 39504, Start Num: 73

Candidate Starts for Zion_46:

(Start: 73 @42797 has 88 MA's), (81, 42740), (86, 42716), (Start: 89 @42701 has 6 MA's), (90, 42692), (130, 42545), (171, 42338), (182, 42263), (185, 42239), (194, 42185), (300, 41771), (325, 41669), (352, 41534), (354, 41516), (356, 41501), (368, 41405), (419, 41186), (420, 41183), (429, 41168), (437, 41138), (440, 41108), (466, 40991), (472, 40958), (478, 40931), (484, 40907), (525, 40760), (536, 40706), (539, 40685), (557, 40610), (559, 40592), (603, 40415), (637, 40385), (645, 40358), (651, 40343), (683, 40214), (721, 40181), (763, 40094), (798, 39980), (801, 39974), (805, 39962), (846, 39812), (847, 39809), (849, 39803), (855, 39785), (859, 39776), (867, 39758), (891, 39656), (893, 39632), (903, 39596), (904, 39590),

Gene: ZygoTaiga_206 Start: 114202, Stop: 117690, Start Num: 26

Candidate Starts for ZygoTaiga_206:

(Start: 26 @114202 has 44 MA's), (Start: 28 @114208 has 6 MA's), (Start: 32 @114220 has 8 MA's), (37, 114229), (Start: 68 @114295 has 162 MA's), (84, 114370), (103, 114484), (109, 114508), (127, 114568), (151, 114679), (157, 114718), (164, 114742), (173, 114784), (203, 114883), (214, 114925), (216, 114931), (219, 114943), (229, 115006), (242, 115066), (243, 115069), (250, 115096), (261, 115138), (279, 115201), (321, 115321), (330, 115357), (335, 115375), (338, 115390), (351, 115507), (357, 115546), (372, 115666), (380, 115708), (389, 115753), (391, 115762), (402, 115813), (414, 115855), (432, 115921), (434, 115930), (435, 115933), (436, 115939), (437, 115942), (438, 115951), (439, 115957), (440, 115972), (462, 116059), (483, 116164), (495, 116218), (510, 116305), (516, 116335), (526, 116365), (533, 116398), (535, 116407), (546, 116479), (552, 116509), (577, 116626), (589, 116671), (601, 116713), (660, 116857), (675, 116917), (715, 117019), (750, 117106), (751, 117109), (761, 117127), (771, 117163), (772, 117166), (793, 117226), (798, 117244), (827, 117340), (836, 117370), (839, 117388), (846, 117418), (879, 117511), (883, 117526), (900, 117607), (902, 117613), (905, 117625),